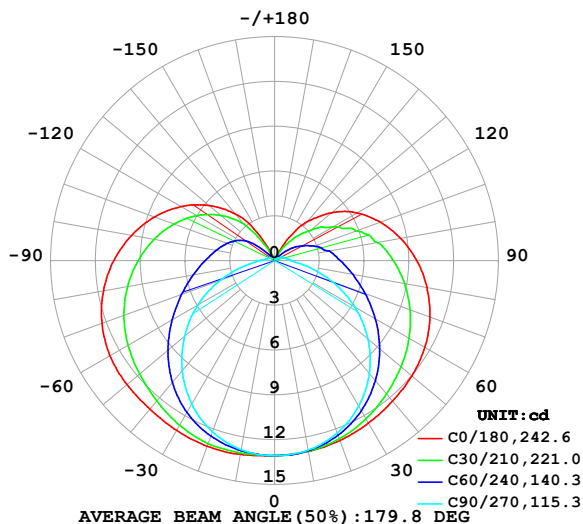


LUMINAIRE PHOTOMETRIC TEST REPORT

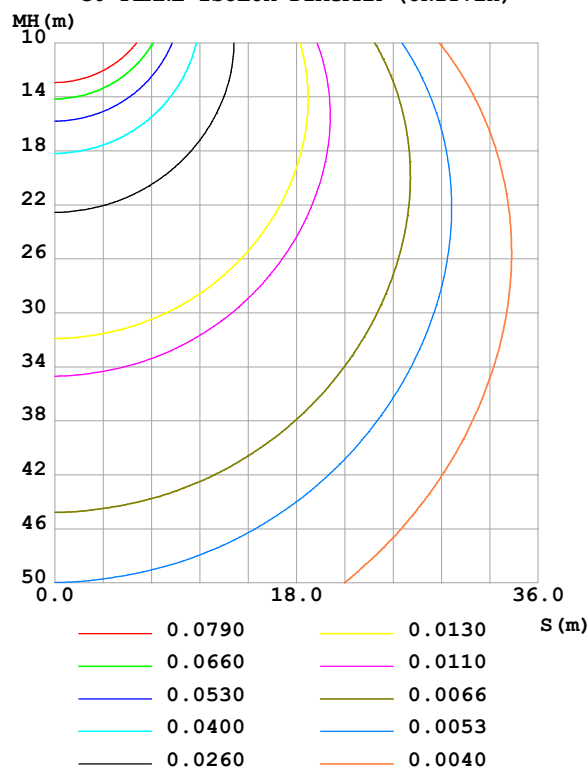
Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 7.10 lm/W
MODEL	N012060CC3SF Mixed	Imax (cd)	13.23	S/MH(C0/180)	1.53	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	80.313	η UP,DN(C0-180)	13.1,36.7	
NOMINAL FLUX(lm)	80.313	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	13.4,36.8	
LAMPS INSIDE	1	η up (%)	26.5	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24	η down (%)	73.5	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	12.98	12.95	12.90	13.06	13.18	13.00	12.87	12.90	0- 10	1.243	1.243	1.55,1.55
20	12.82	12.57	12.29	12.85	13.23	12.78	12.20	12.49	10- 20	3.636	4.879	6.08,6.08
30	12.57	11.93	11.27	12.35	13.14	12.24	11.11	11.82	20- 30	5.724	10.60	13.2,13.2
40	12.29	11.09	9.877	11.61	12.99	11.47	9.638	10.95	30- 40	7.325	17.93	22.3,22.3
50	12.01	10.13	8.156	10.73	12.92	10.57	7.867	9.966	40- 50	8.350	26.28	32.7,32.7
60	11.62	9.099	6.186	9.810	12.75	9.637	5.922	8.917	50- 60	8.794	35.07	43.7,43.7
70	11.07	8.066	4.083	8.861	12.31	8.698	3.866	7.874	60- 70	8.678	43.75	54.5,54.5
80	10.36	7.089	2.178	7.926	11.64	7.774	1.997	6.849	70- 80	8.101	51.85	64.6,64.6
90	9.524	6.192	1.092	7.028	10.77	6.911	1.005	4.992	80- 90	7.192	59.04	73.5,73.5
100	8.582	5.373	0.8059	6.205	9.738	6.101	0.6037	4.914	90-100	6.257	65.30	81.3,81.3
110	7.537	4.330	0.6180	5.341	8.562	5.289	0.4989	4.201	100-110	5.343	70.64	88,88
120	6.403	3.240	0.4227	4.365	7.246	4.385	0.3977	3.332	110-120	4.190	74.83	93.2,93.2
130	4.993	2.112	0.2276	3.015	5.760	3.115	0.3145	2.161	120-130	2.936	77.77	96.8,96.8
140	3.418	1.041	0.1374	1.707	4.082	1.781	0.2639	1.114	130-140	1.646	79.42	98.9,98.9
150	1.374	0.3372	0.1410	0.4217	1.649	0.4929	0.2314	0.3811	140-150	0.6958	80.11	99.7,99.7
160	0.1742	0.1527	0.1554	0.1523	0.2060	0.2012	0.2096	0.1849	150-160	0.1377	80.25	99.9,99.9
170	0.1600	0.1527	0.1554	0.1523	0.1600	0.1761	0.1952	0.1813	160-170	0.0482	80.30	100,100
180	0.1600	0.1563	0.1554	0.1577	0.1600	0.1742	0.1771	0.1795	170-180	0.0158	80.31	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 22.012 lm

%lum = 27.4%

%lamp = 27.4%

Conical surface Flux(130deg): 39.458 lm

%lum = 49.1%

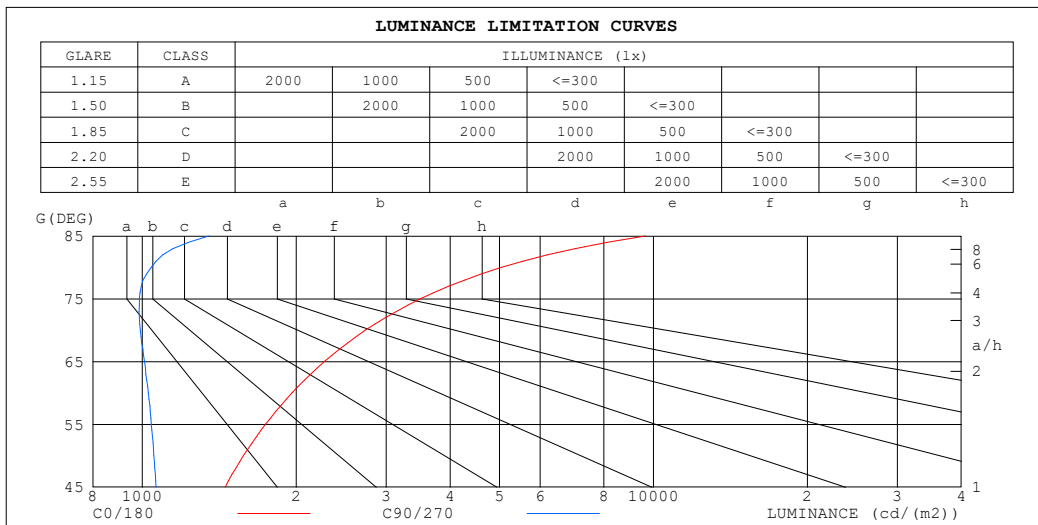
%lamp = 49.1%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9648	1349
80	5038	1041
75	3502	987
70	2732	991
65	2271	1009
60	1963	1027
55	1742	1041
50	1577	1053
45	1451	1063

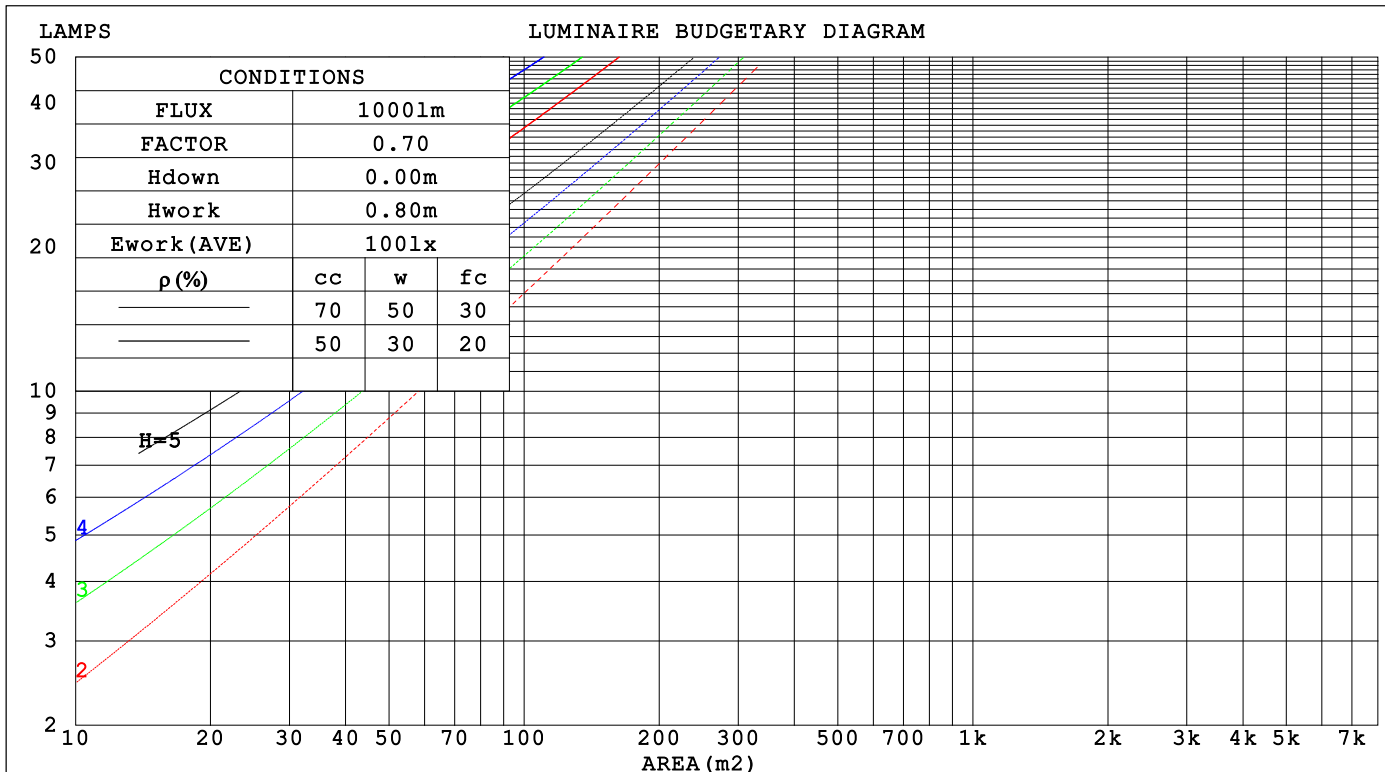
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.13	1.13	1.13	1.07	1.07	1.07	.96	.96	.96	.87	.87	.87	.78	.78	.78	.74														
1.0	.93	.87	.82	.88	.83	.78	.78	.74	.71	.70	.67	.64	.62	.60	.57	.53														
2.0	.79	.70	.64	.74	.67	.61	.66	.60	.55	.59	.54	.50	.52	.49	.45	.41														
3.0	.68	.59	.51	.64	.56	.49	.57	.50	.45	.51	.45	.41	.45	.41	.37	.33														
4.0	.59	.50	.42	.56	.47	.41	.50	.43	.37	.45	.39	.34	.40	.35	.31	.27														
5.0	.53	.43	.36	.50	.41	.34	.45	.37	.32	.40	.34	.29	.35	.30	.26	.23														
6.0	.47	.37	.31	.44	.36	.30	.40	.33	.27	.36	.30	.25	.32	.27	.23	.20														
7.0	.42	.33	.27	.40	.32	.26	.36	.29	.24	.32	.26	.22	.29	.24	.20	.17														
8.0	.38	.29	.23	.36	.28	.23	.33	.26	.21	.30	.24	.19	.26	.21	.18	.15														
9.0	.35	.26	.21	.33	.25	.20	.30	.23	.19	.27	.21	.17	.24	.19	.16	.14														
10.0	.32	.24	.19	.31	.23	.18	.28	.21	.17	.25	.19	.15	.23	.18	.14	.12														



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz		
Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.406	.231	.073	.390	.223	.071	.361	.207	.066	.335	.193	.062	.311	.180	.058		
2.0	.344	.189	.058	.330	.182	.056	.304	.169	.053	.280	.157	.049	.258	.146	.046		
3.0	.303	.161	.048	.290	.155	.047	.266	.144	.044	.244	.134	.041	.224	.124	.038		
4.0	.271	.141	.041	.259	.136	.040	.238	.126	.038	.218	.117	.035	.199	.108	.033		
5.0	.245	.125	.036	.234	.120	.035	.215	.112	.033	.196	.104	.031	.179	.096	.029		
6.0	.224	.112	.032	.214	.108	.031	.196	.100	.029	.179	.093	.027	.163	.086	.026		
7.0	.206	.102	.029	.197	.098	.028	.180	.091	.026	.165	.084	.025	.150	.078	.023		
8.0	.190	.093	.026	.182	.090	.025	.167	.083	.024	.153	.077	.022	.139	.071	.021		
9.0	.177	.086	.024	.170	.083	.023	.156	.077	.022	.142	.071	.020	.130	.066	.019		
10.0	.165	.079	.022	.159	.077	.021	.146	.071	.020	.133	.066	.019	.121	.061	.018		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.392	.392	.392	.335	.335	.335	.229	.229	.229	.131	.131	.131	.042	.042	.042		
1.0	.390	.359	.330	.334	.308	.284	.228	.212	.197	.132	.123	.114	.042	.039	.037		
2.0	.384	.336	.296	.329	.290	.256	.225	.200	.179	.130	.117	.105	.042	.038	.034		
3.0	.377	.320	.276	.323	.276	.239	.222	.192	.168	.128	.112	.099	.041	.036	.032		
4.0	.369	.308	.262	.317	.266	.228	.218	.186	.160	.126	.109	.095	.041	.035	.031		
5.0	.361	.299	.253	.310	.258	.220	.214	.181	.155	.124	.106	.092	.040	.035	.030		
6.0	.354	.291	.246	.304	.252	.214	.210	.176	.151	.122	.104	.090	.039	.034	.030		
7.0	.347	.285	.241	.298	.247	.210	.206	.173	.149	.120	.102	.089	.039	.033	.029		
8.0	.340	.279	.237	.293	.242	.207	.202	.170	.147	.118	.100	.087	.038	.033	.029		
9.0	.334	.274	.234	.287	.238	.204	.199	.167	.145	.116	.099	.087	.038	.032	.029		
10.0	.328	.270	.232	.283	.235	.202	.196	.165	.144	.114	.098	.086	.037	.032	.028		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm										
NAME: N012060CC3SF Mixed					TYPE: LED			WEIGHT:		
SPEC.: 1000x12MM					DIM.: 1000x12MM			SERIAL No.:		
MFR.: iPixel LED					SUR.: 1000x12MM			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	22.3	23.6	22.9	24.2	25.0	19.7	21.0	20.3	21.6	22.4
3H	25.4	26.6	26.0	27.2	28.0	21.5	22.7	22.1	23.3	24.1
4H	27.1	28.2	27.7	28.9	29.7	22.3	23.4	22.9	24.1	24.9
6H	29.0	30.1	29.7	30.8	31.6	23.0	24.0	23.6	24.7	25.5
8H	30.1	31.1	30.7	31.8	32.6	23.3	24.3	24.0	25.0	25.8
12H	31.3	32.3	32.0	33.0	33.8	23.6	24.6	24.3	25.3	26.1
4H 2H	22.9	24.0	23.5	24.7	25.5	21.0	22.2	21.7	22.8	23.6
3H	26.2	27.2	26.9	27.9	28.7	23.0	24.0	23.7	24.8	25.6
4H	28.1	29.0	28.8	29.7	30.6	24.0	25.0	24.8	25.7	26.6
6H	30.2	31.0	30.9	31.8	32.7	25.0	25.8	25.7	26.5	27.5
8H	31.4	32.2	32.1	32.9	33.8	25.4	26.2	26.1	26.9	27.8
12H	32.7	33.5	33.5	34.2	35.2	25.8	26.5	26.5	27.3	28.2
8H 4H	28.4	29.2	29.2	30.0	30.9	25.3	26.1	26.1	26.9	27.8
6H	30.9	31.5	31.6	32.3	33.3	26.7	27.3	27.4	28.1	29.1
8H	32.3	32.9	33.1	33.7	34.6	27.3	27.9	28.1	28.7	29.7
12H	33.9	34.4	34.7	35.2	36.2	27.9	28.4	28.7	29.3	30.3
12H 4H	28.4	29.2	29.2	29.9	30.9	25.8	26.5	26.6	27.3	28.2
6H	31.0	31.6	31.8	32.4	33.4	27.3	27.9	28.1	28.7	29.7
8H	32.5	33.0	33.3	33.9	34.8	28.2	28.7	29.0	29.5	30.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 80.31 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.8)
Area: 0.012 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

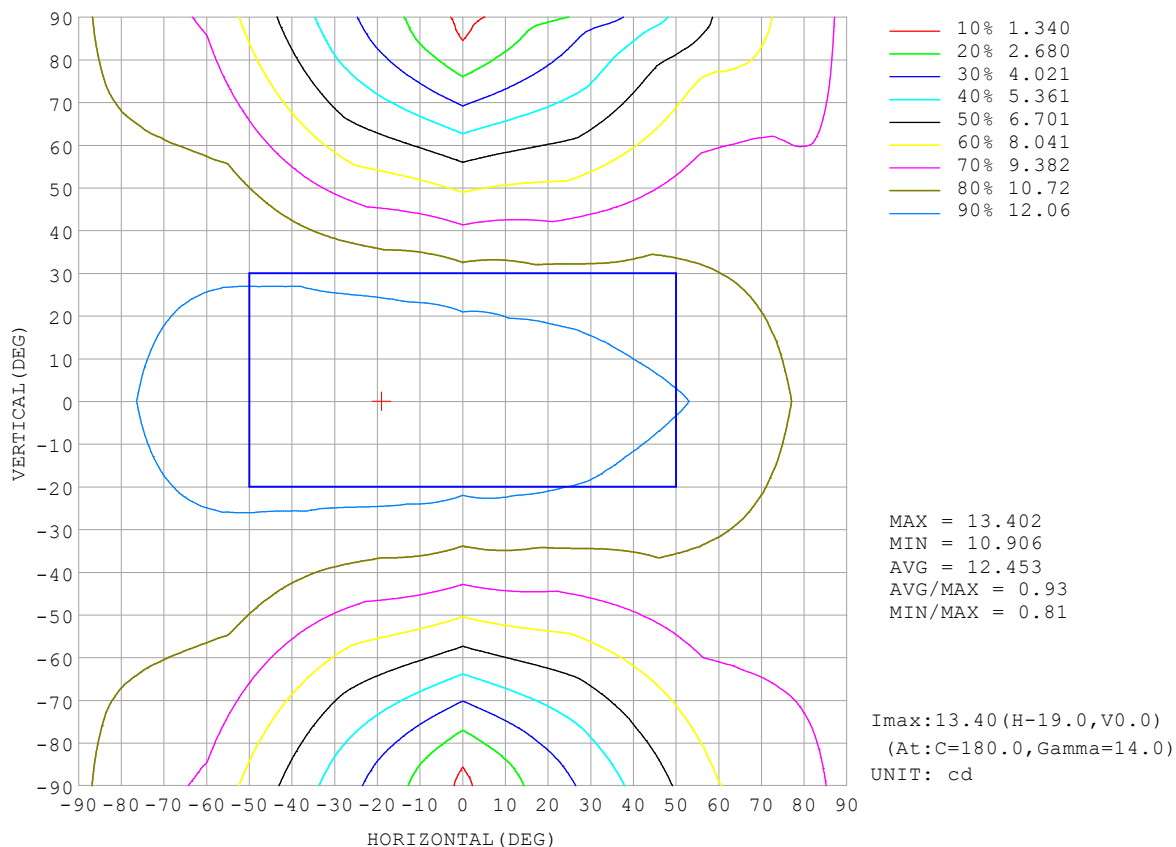
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	44	31	24	42	31	23	40	29	23	16
0.80	53	39	31	51	38	30	48	36	29	21
1.00	60	46	38	58	45	37	54	45	36	26
1.25	67	54	45	64	52	43	59	49	41	31
1.50	72	59	50	69	57	49	63	53	46	34
2.00	80	68	59	76	65	57	69	60	53	40
2.50	84	73	65	80	70	62	73	65	58	44
3.00	88	78	70	84	75	67	76	69	63	47
4.00	93	84	77	89	81	74	80	74	68	52
5.00	96	89	82	92	85	79	83	77	72	55
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: WHL
Test Date: 2025-05-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

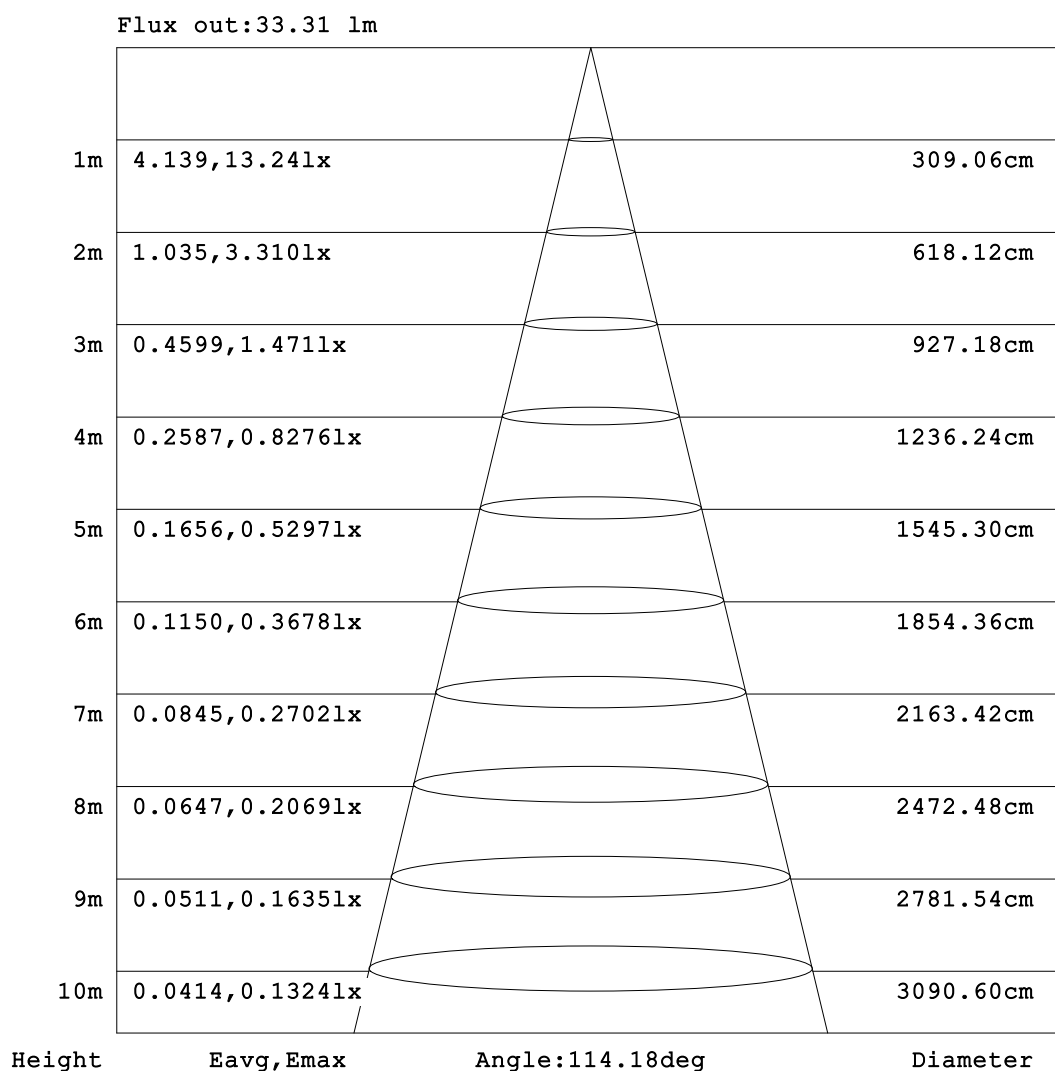


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:



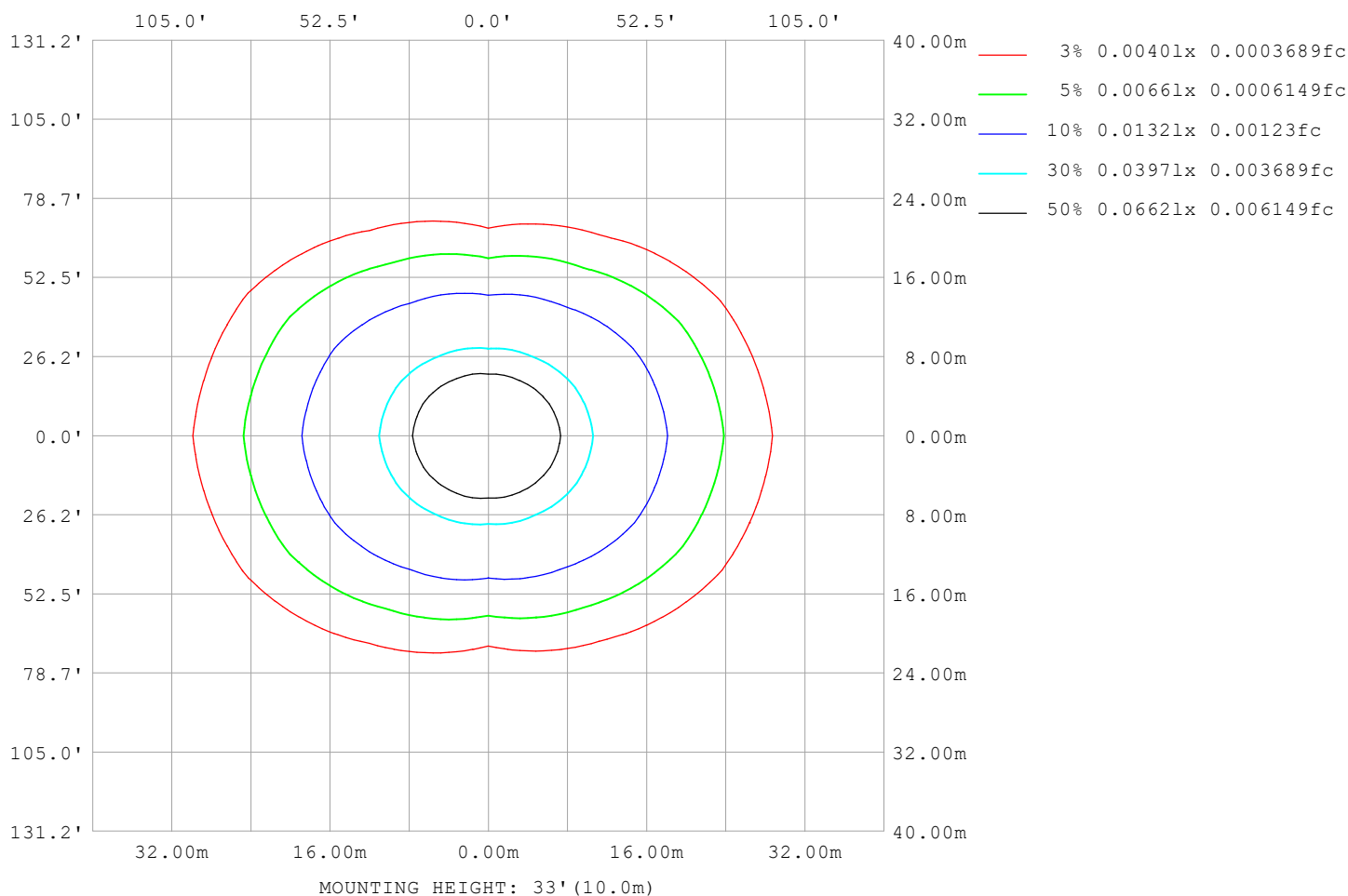
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:WHL
 Test Date:2025-05-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.820m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

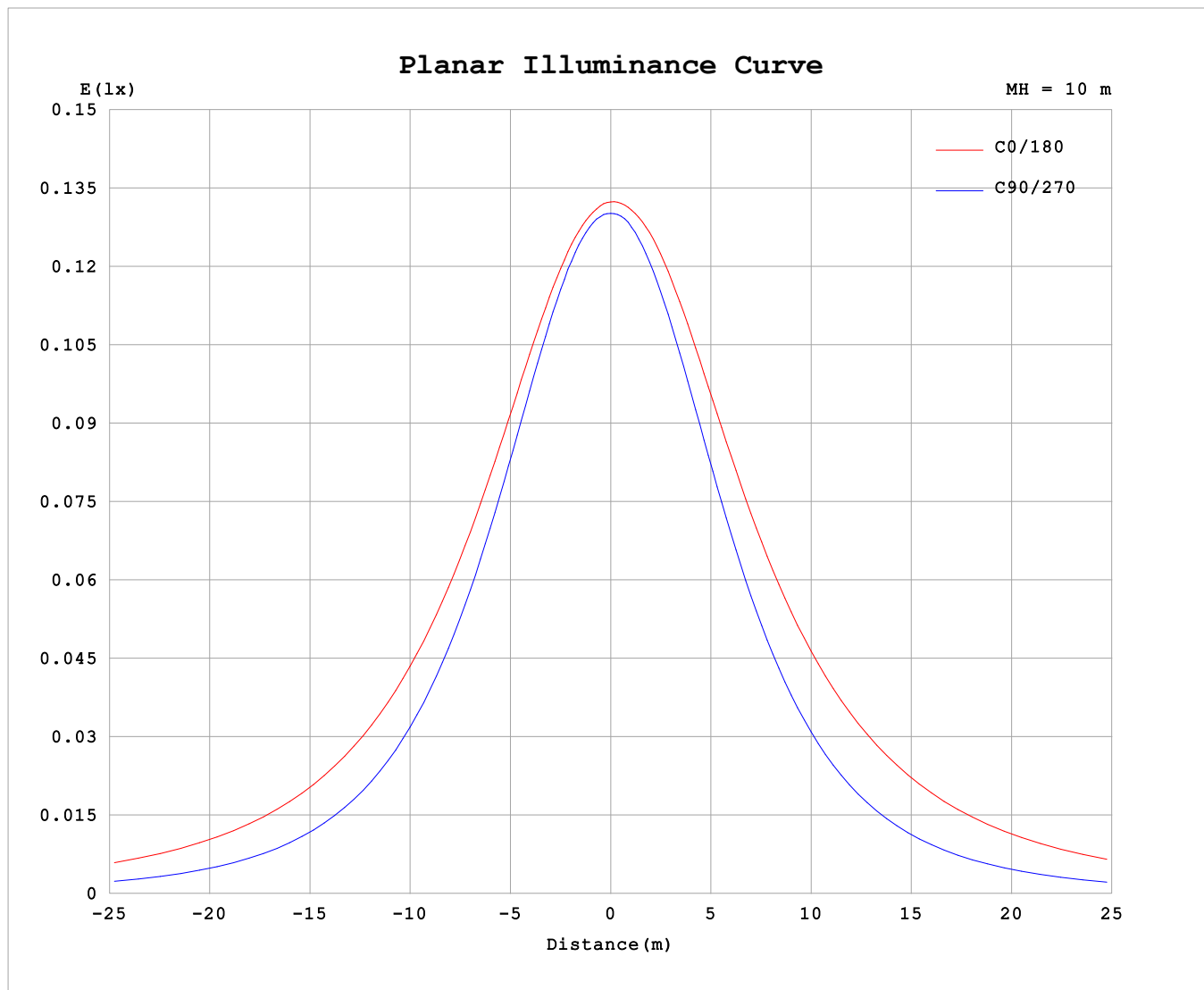
AvgL	cd/m2
L_0~180 (65) av	2359
L_0~180 (75) av	3662
L_0~180 (85) av	10131
L_90~270 (65) av	990
L_90~270 (75) av	960
L_90~270 (85) av	1294
L_45 (65) av	1757
L_45 (75) av	2567
L_45 (85) av	6665

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: WHL
 Test Date: 2025-05-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 6.820m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.4711A P:11.305W PF:1.0000 Freq:0Hz Lamp Flux:80.313x1 lm		
NAME: N012060CC3SF Mixed	TYPE: LED	WEIGHT:
SPEC.: 1000x12MM	DIM.: 1000x12MM	SERIAL No.:
MFR.: iPixel LED	SUR.: 1000x12MM	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1							
5	13.0	13.0	13.1	13.0	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0							
10	13.0	13.0	12.9	12.9	13.0	13.1	13.2	13.1	12.9	12.9	12.9	12.9							
15	12.9	12.9	12.7	12.6	12.9	13.1	13.2	13.1	12.8	12.6	12.6	12.8							
20	12.8	12.7	12.4	12.3	12.6	13.1	13.2	13.0	12.5	12.2	12.3	12.7							
25	12.7	12.5	12.1	11.8	12.3	12.9	13.2	12.9	12.2	11.7	11.9	12.5							
30	12.6	12.2	11.6	11.3	11.9	12.8	13.1	12.7	11.7	11.1	11.4	12.2							
35	12.4	12.0	11.1	10.6	11.5	12.6	13.1	12.5	11.2	10.4	10.9	11.9							
40	12.3	11.7	10.5	9.88	10.9	12.3	13.0	12.3	10.7	9.64	10.3	11.6							
45	12.2	11.4	9.87	9.05	10.3	12.1	13.0	12.0	10.0	8.78	9.61	11.3							
50	12.0	11.1	9.19	8.16	9.59	11.9	12.9	11.8	9.33	7.87	8.90	11.0							
55	11.8	10.7	8.49	7.20	8.89	11.7	12.9	11.6	8.62	6.91	8.18	10.7							
60	11.6	10.4	7.79	6.19	8.19	11.4	12.7	11.3	7.92	5.92	7.44	10.4							
65	11.4	10.0	7.11	5.14	7.52	11.1	12.6	11.1	7.25	4.90	6.75	10.04							
70	11.1	9.66	6.47	4.08	6.90	10.8	12.3	10.7	6.64	3.87	6.08	9.67							
75	10.7	9.25	5.85	3.08	6.32	10.5	12.0	10.4	6.06	2.88	5.46	9.26							
80	10.4	8.84	5.33	2.18	5.78	10.1	11.6	10.0	5.53	2.00	4.90	8.80							
85	9.96	8.40	4.83	1.42	5.29	9.65	11.2	9.59	5.07	1.29	4.39	7.67							
90	9.52	7.97	4.41	1.09	4.87	9.19	10.8	9.15	4.66	1.01	3.05	6.93							
95	9.07	7.53	4.06	0.98	4.51	8.72	10.3	8.69	4.30	0.72	3.34	6.97							
100	8.58	7.01	3.73	0.81	4.18	8.23	9.74	8.20	3.99	0.60	3.13	6.70							
105	8.07	6.58	3.27	0.71	3.85	7.72	9.17	7.70	3.69	0.55	2.94	6.45							
110	7.54	5.79	2.86	0.62	3.51	7.17	8.56	7.18	3.39	0.50	2.66	5.74							
115	6.98	5.11	2.40	0.52	3.14	6.59	7.92	6.63	3.07	0.45	2.31	5.25							
120	6.40	4.53	1.95	0.42	2.74	5.99	7.25	6.04	2.73	0.40	1.93	4.73							
125	5.76	3.94	1.52	0.31	2.24	5.34	6.54	5.40	2.30	0.35	1.50	4.19							
130	4.99	3.19	1.03	0.23	1.38	4.65	5.76	4.71	1.51	0.31	0.97	3.35							
135	4.18	2.54	0.51	0.17	0.58	3.93	4.94	3.98	0.73	0.29	0.50	2.66							
140	3.42	1.87	0.21	0.14	0.26	3.15	4.08	3.19	0.36	0.26	0.24	1.99							
145	2.47	1.23	0.14	0.14	0.16	1.90	3.10	1.94	0.24	0.25	0.19	1.29							
150	1.37	0.53	0.14	0.14	0.15	0.70	1.65	0.76	0.22	0.23	0.18	0.58							
155	0.45	0.16	0.14	0.15	0.15	0.22	0.51	0.31	0.20	0.22	0.18	0.22							
160	0.17	0.16	0.14	0.16	0.15	0.16	0.21	0.22	0.18	0.21	0.18	0.19							
165	0.16	0.16	0.14	0.16	0.15	0.16	0.16	0.19	0.17	0.20	0.18	0.19							
170	0.16	0.16	0.14	0.16	0.15	0.16	0.16	0.18	0.17	0.20	0.18	0.18							
175	0.16	0.16	0.14	0.16	0.15	0.16	0.16	0.18	0.17	0.18	0.18	0.18							
180	0.16	0.16	0.15	0.16	0.16	0.16	0.16	0.18	0.17	0.18	0.18	0.18							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-05-12

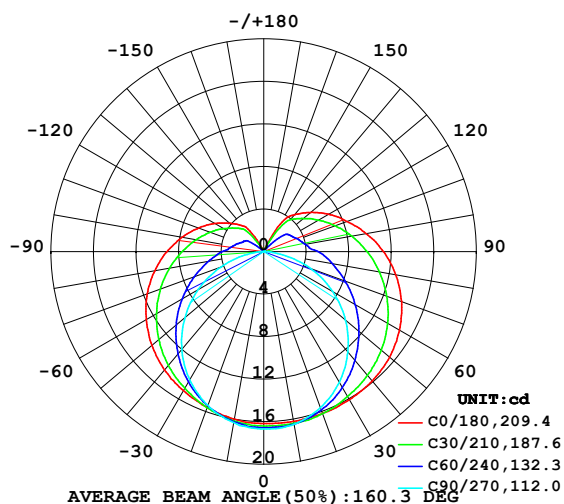
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

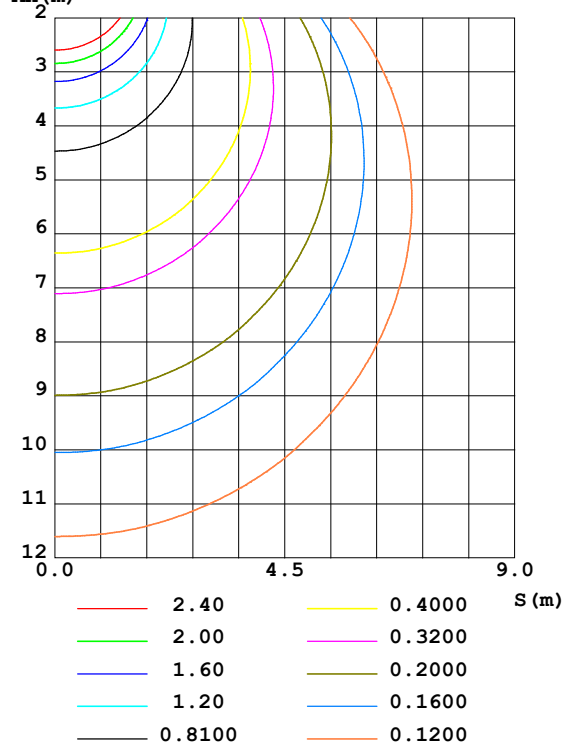
Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0 (N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 13.46 lm/W			
MODEL N012060CC4DC0 (N1222)		I _{max} (cd)	16.91	S/MH (C0/180)	1.42
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)		TOTAL FLUX (lm)	89.832	η UP, DN (C0-180)	11.8, 39.3
NOMINAL FLUX (lm)	89.832	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.7, 38.1
LAMPS INSIDE	1	η up (%)	22.6	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	77.4	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

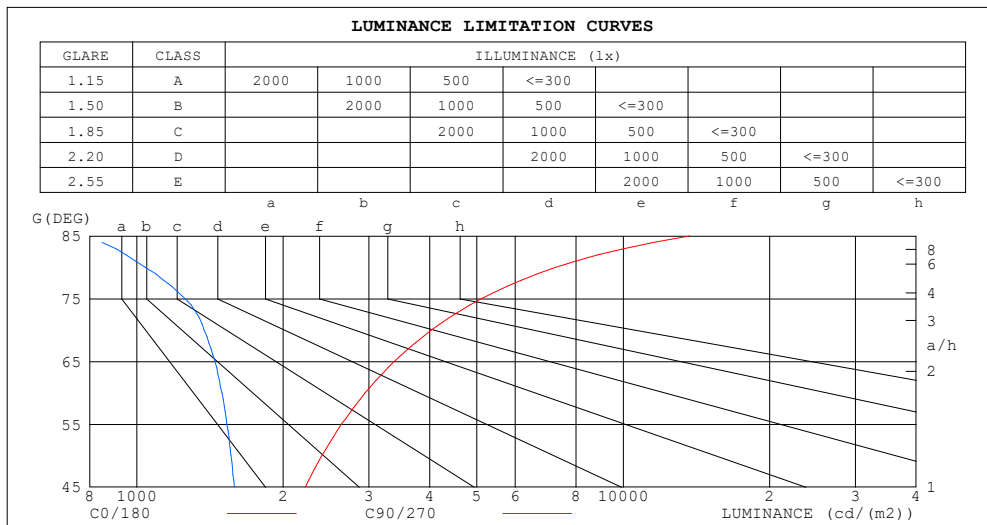
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	16.21	16.41	16.47	16.63	16.00	16.27	16.32	16.75	0- 10	1.579	1.579	1.76,1.76
20	16.19	16.02	15.62	15.98	15.58	15.59	15.39	16.27	10- 20	4.586	6.165	6.86,6.86
30	16.08	15.25	14.21	14.96	15.10	14.55	13.93	15.46	20- 30	7.151	13.32	14.8,14.8
40	15.87	14.26	12.31	13.80	14.54	13.34	11.98	14.42	30- 40	9.071	22.39	24.9,24.9
50	15.44	13.13	10.04	12.39	13.74	11.94	9.695	13.25	40- 50	10.21	32.60	36.3,36.3
60	14.74	11.82	7.482	10.85	12.76	10.42	7.092	11.93	50- 60	10.51	43.11	48,48
70	13.80	10.44	4.705	9.282	11.65	8.870	4.314	10.51	60- 70	10.03	53.13	59.1,59.1
80	12.60	9.041	1.807	7.796	10.41	7.405	1.567	8.930	70- 80	8.926	62.06	69.1,69.1
90	11.26	7.720	0.0760	6.422	9.108	6.099	0.0377	7.337	80- 90	7.509	69.57	77.4,77.4
100	9.791	6.588	0.0528	5.305	7.803	5.020	0.0377	5.359	90-100	6.076	75.65	84.2,84.2
110	8.349	5.532	0.0528	4.294	6.520	4.144	0.0377	5.064	100-110	4.921	80.57	89.7,89.7
120	7.044	4.588	0.0528	3.275	5.320	3.322	0.0377	4.371	110-120	3.837	84.40	94,94
130	5.753	3.796	0.0528	2.694	4.180	2.740	0.0377	3.239	120-130	2.766	87.17	97,97
140	4.553	2.745	0.0528	0.9713	3.214	0.8476	0.0377	2.432	130-140	1.757	88.93	99,99
150	2.645	0.2330	0.0528	0.0453	0.9247	0.0906	0.0528	0.2498	140-150	0.7869	89.71	99.9,99.9
160	0.0758	0.0679	0.0528	0.0453	0.0226	0.0679	0.0528	0.0679	150-160	0.0972	89.81	100,100
170	0.0754	0.0753	0.0528	0.0453	0.0227	0.0604	0.0453	0.0528	160-170	0.0161	89.83	100,100
180	0.0528	0.0528	0.0528	0.0453	0.0528	0.0528	0.0453	0.0604	170-180	0.0050	89.83	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0 (N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13702	782
80	7255	1041
75	5107	1258
70	4034	1376
65	3383	1447
60	2948	1496
55	2636	1532
50	2403	1562
45	2219	1588

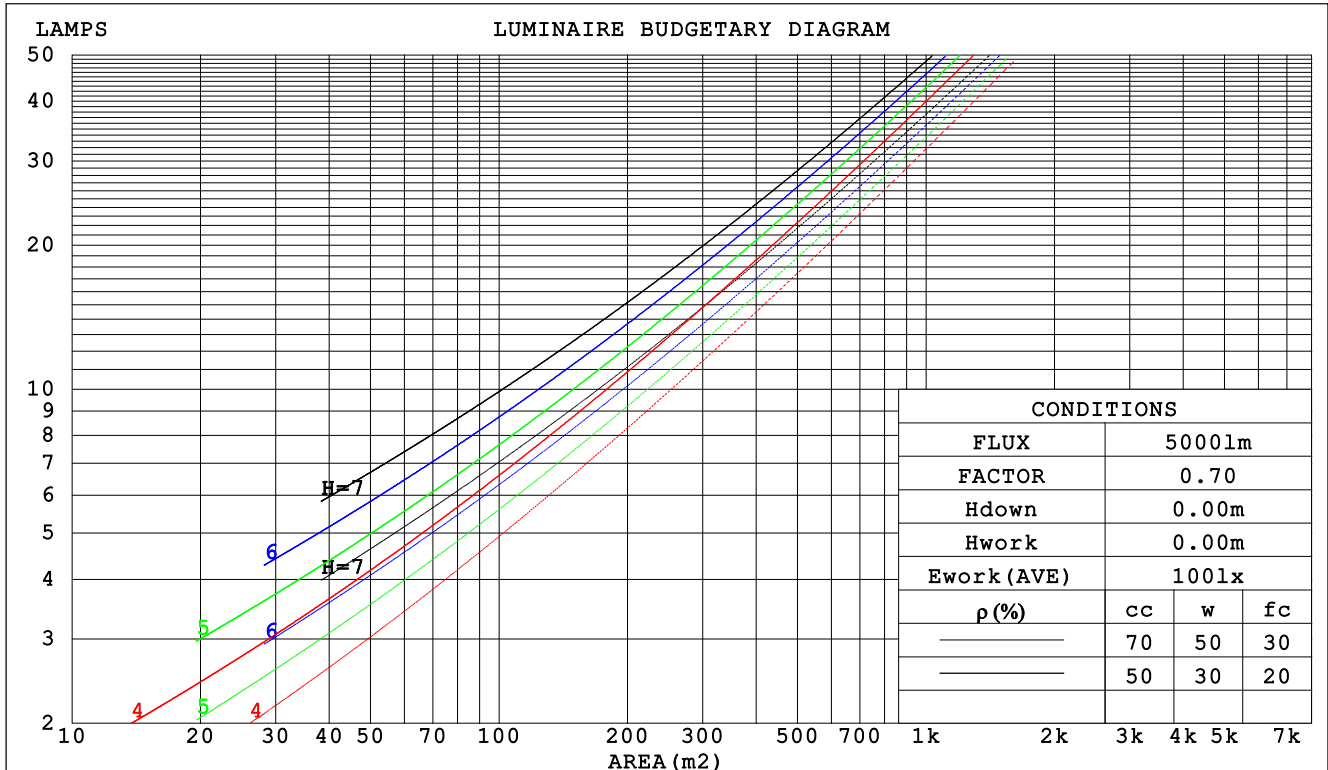
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0(N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.08	1.08	1.08	.99	.99	.99	.90	.90	.90	.81	.81	.81	.77
1.0	.94	.88	.83	.89	.84	.80	.81	.77	.73	.73	.70	.67	.66	.63	.61	.57
2.0	.80	.72	.65	.76	.69	.63	.69	.63	.58	.62	.57	.53	.56	.52	.49	.45
3.0	.69	.60	.53	.66	.57	.51	.59	.53	.47	.54	.48	.43	.48	.44	.40	.36
4.0	.61	.51	.44	.58	.49	.42	.52	.45	.39	.47	.41	.36	.42	.37	.33	.30
5.0	.54	.44	.37	.51	.42	.36	.46	.39	.33	.42	.36	.31	.38	.33	.28	.26
6.0	.48	.38	.32	.46	.37	.31	.42	.34	.29	.38	.31	.27	.34	.29	.25	.22
7.0	.43	.34	.28	.41	.33	.27	.38	.30	.25	.34	.28	.23	.31	.26	.22	.19
8.0	.39	.30	.24	.37	.29	.24	.34	.27	.22	.31	.25	.21	.28	.23	.19	.17
9.0	.36	.27	.22	.34	.26	.21	.31	.25	.20	.29	.23	.18	.26	.21	.17	.15
10.0	.33	.25	.19	.31	.24	.19	.29	.22	.18	.27	.21	.17	.24	.19	.16	.14



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm					
NAME: N012060CC4DC0(N1222)			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.398	.226	.072	.384	.219	.070	.357	.205	.065	.333	.192	.062	.311	.180	.058		
2.0	.341	.187	.057	.328	.181	.056	.304	.169	.052	.282	.158	.049	.261	.148	.047		
3.0	.301	.160	.048	.289	.155	.047	.267	.145	.044	.247	.135	.042	.229	.127	.039		
4.0	.270	.140	.041	.259	.136	.040	.239	.127	.038	.221	.119	.036	.204	.111	.034		
5.0	.244	.125	.036	.235	.121	.035	.217	.113	.033	.200	.106	.031	.184	.099	.030		
6.0	.223	.112	.032	.215	.108	.031	.198	.102	.030	.183	.095	.028	.168	.089	.026		
7.0	.206	.102	.029	.198	.099	.028	.183	.092	.027	.168	.086	.025	.155	.081	.024		
8.0	.191	.093	.026	.183	.090	.025	.169	.085	.024	.156	.079	.023	.144	.074	.022		
9.0	.177	.086	.024	.171	.083	.023	.158	.078	.022	.146	.073	.021	.134	.068	.020		
10.0	.166	.080	.022	.160	.077	.022	.148	.072	.020	.136	.068	.019	.126	.063	.018		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.362	.362	.362	.310	.310	.310	.211	.211	.211	.121	.121	.121	.039	.039	.039	
1.0	.360	.329	.301	.308	.282	.259	.211	.194	.179	.121	.112	.104	.039	.036	.034	
2.0	.353	.306	.267	.303	.264	.230	.207	.182	.161	.120	.106	.094	.038	.034	.031	
3.0	.346	.290	.245	.296	.250	.213	.204	.174	.149	.118	.101	.088	.038	.033	.029	
4.0	.338	.278	.231	.290	.240	.201	.199	.167	.142	.115	.098	.084	.037	.032	.028	
5.0	.330	.268	.222	.284	.232	.193	.195	.162	.136	.113	.095	.081	.036	.031	.027	
6.0	.323	.260	.215	.277	.225	.187	.191	.158	.132	.111	.093	.079	.036	.030	.026	
7.0	.316	.254	.210	.272	.220	.183	.188	.154	.130	.109	.091	.077	.035	.030	.026	
8.0	.309	.248	.206	.266	.215	.180	.184	.151	.128	.107	.089	.076	.035	.029	.025	
9.0	.303	.243	.203	.261	.211	.177	.181	.148	.126	.105	.088	.075	.034	.029	.025	
10.0	.297	.239	.201	.256	.208	.175	.178	.146	.124	.104	.086	.074	.034	.028	.025	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm										
NAME: N 012060CC4DC0 (N1222)					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.6	16.9	16.2	17.5	18.2	12.7	14.1	13.3	14.6	15.3
3H	18.6	19.8	19.2	20.4	21.1	14.3	15.5	14.9	16.1	16.8
4H	20.3	21.4	20.9	22.1	22.8	14.9	16.1	15.5	16.7	17.4
6H	22.1	23.2	22.7	23.8	24.6	15.4	16.5	16.0	17.1	17.9
8H	23.1	24.2	23.7	24.8	25.6	15.5	16.6	16.2	17.2	18.0
12H	24.3	25.3	24.9	25.9	26.7	15.6	16.6	16.2	17.3	18.0
4H 2H	16.2	17.3	16.8	18.0	18.7	14.2	15.4	14.8	16.0	16.7
3H	19.4	20.5	20.1	21.1	21.9	16.0	17.1	16.7	17.7	18.5
4H	21.3	22.2	22.0	22.9	23.7	16.9	17.8	17.6	18.5	19.3
6H	23.3	24.2	24.0	24.9	25.7	17.6	18.4	18.3	19.1	20.0
8H	24.5	25.3	25.2	26.0	26.8	17.8	18.6	18.5	19.3	20.2
12H	25.8	26.5	26.5	27.3	28.1	18.0	18.7	18.7	19.4	20.3
8H 4H	21.6	22.4	22.4	23.2	24.0	18.3	19.1	19.1	19.8	20.7
6H	24.0	24.7	24.8	25.5	26.3	19.5	20.2	20.2	20.9	21.8
8H	25.4	26.0	26.2	26.8	27.7	20.0	20.6	20.8	21.4	22.3
12H	27.0	27.5	27.7	28.3	29.2	20.4	20.9	21.2	21.7	22.6
12H 4H	21.7	22.4	22.4	23.1	24.0	18.8	19.6	19.5	20.3	21.1
6H	24.2	24.8	24.9	25.5	26.4	20.3	20.9	21.0	21.6	22.5
8H	25.6	26.2	26.4	27.0	27.9	21.0	21.5	21.8	22.3	23.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 89.83 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -8.4$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0(N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

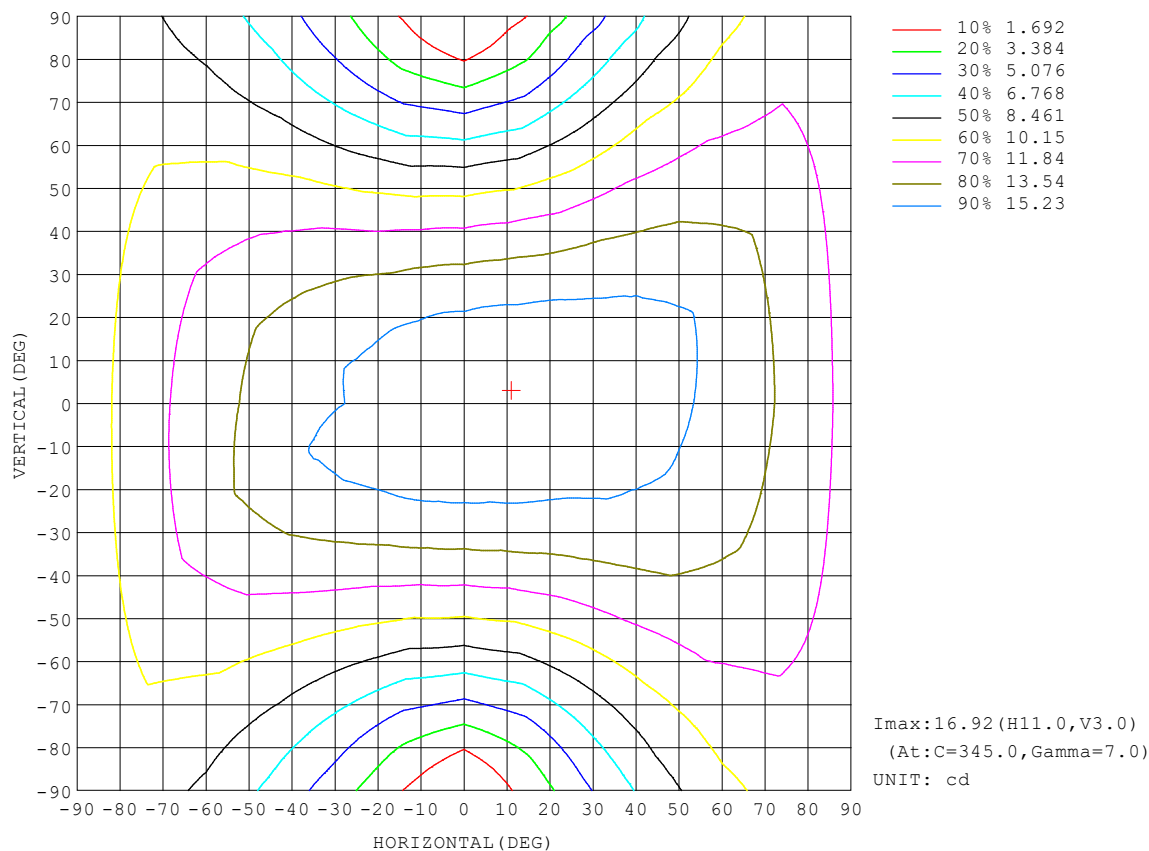
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	45	33	26	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	50	39	32	23
1.00	62	49	40	60	48	39	56	48	38	29
1.25	69	56	47	66	54	46	62	51	44	34
1.50	74	61	52	71	60	51	66	56	49	38
2.00	81	70	61	78	68	60	72	63	56	44
2.50	86	75	67	82	73	65	76	68	61	48
3.00	90	80	72	86	77	70	79	72	66	51
4.00	95	86	79	91	83	77	83	77	71	56
5.00	98	91	84	93	87	81	85	80	75	59
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0 (N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

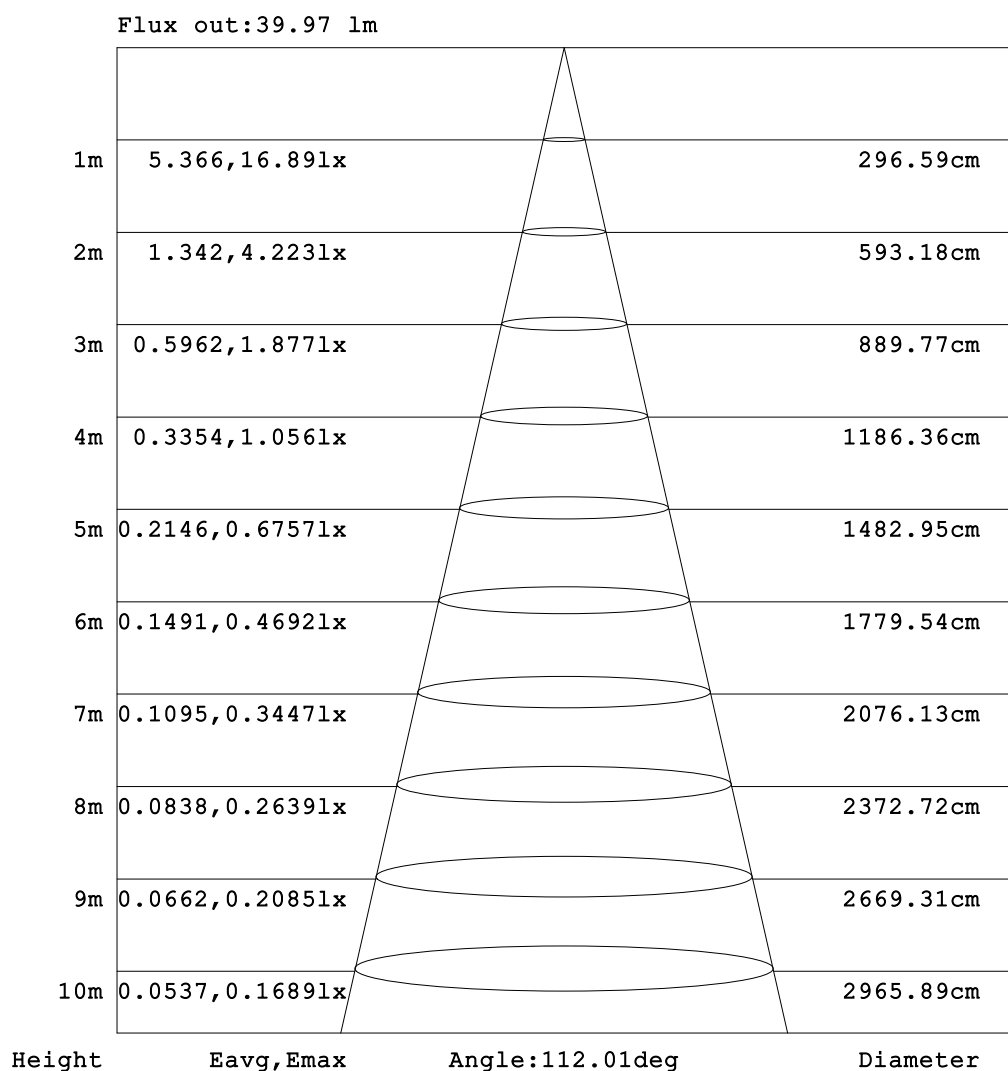


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENGPU
Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0(N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



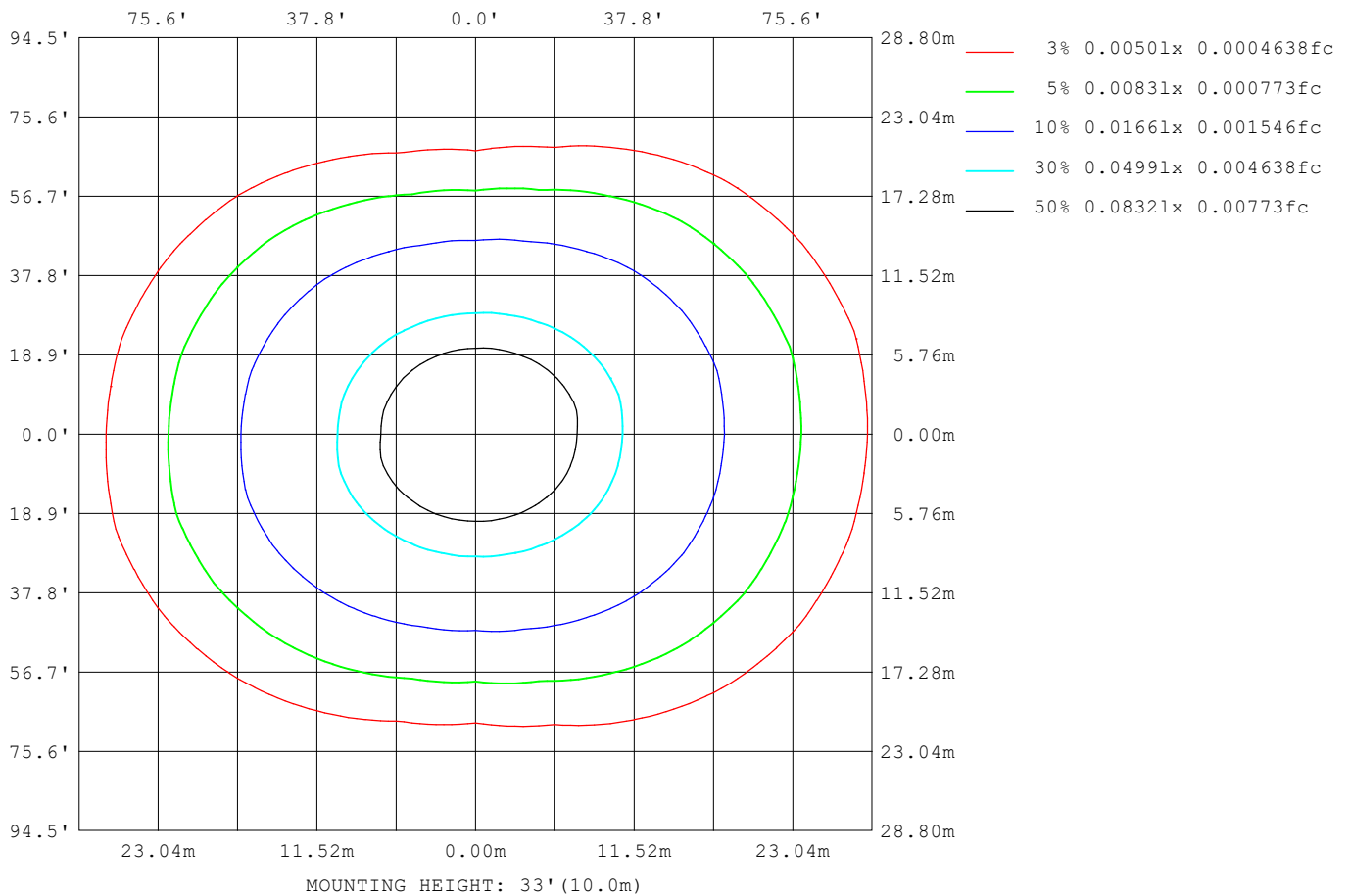
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0 (N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0 (N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

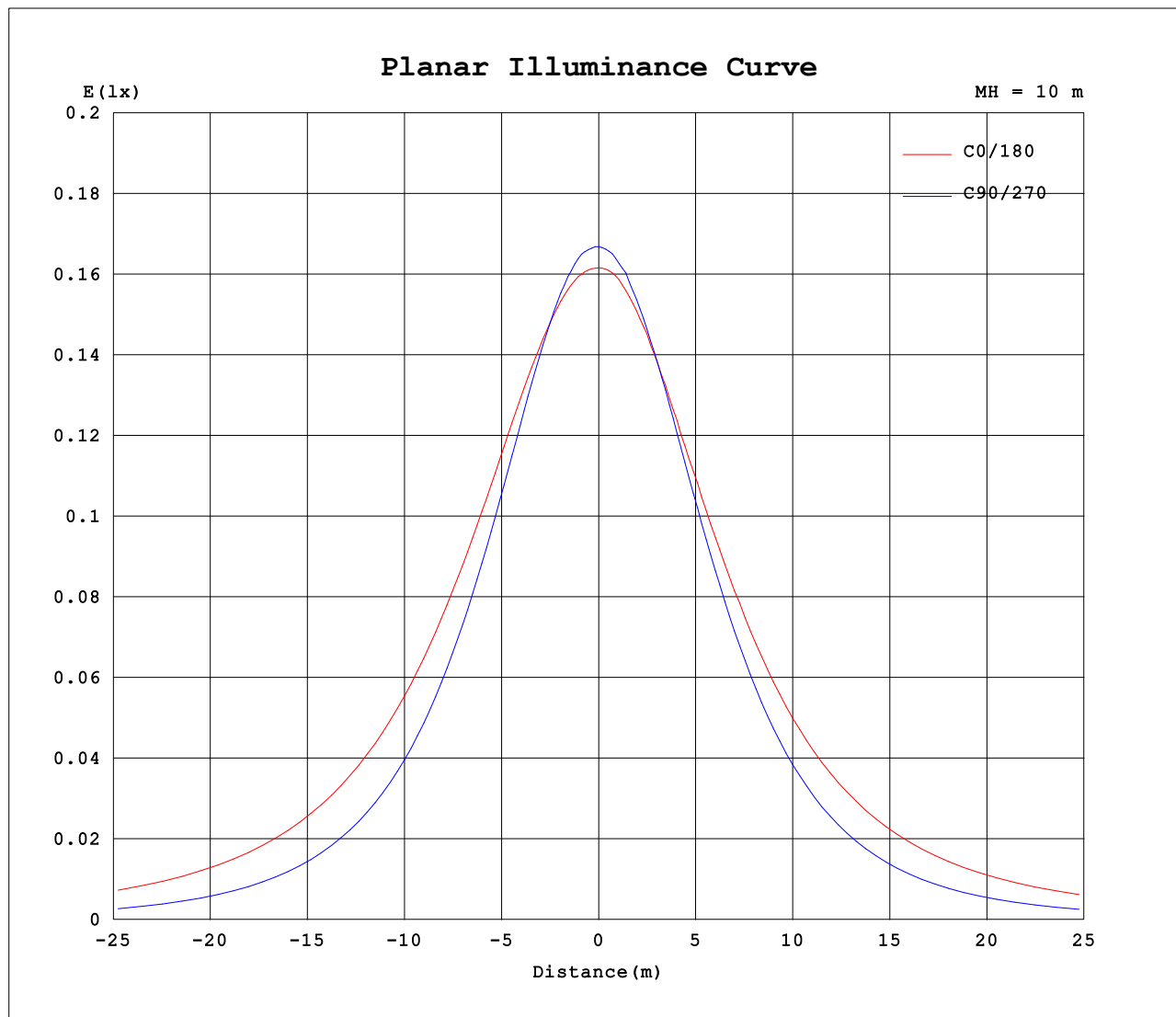
AvgL	cd/m2
L_0~180 (65) av	3137
L_0~180 (75) av	4688
L_0~180 (85) av	12449
L_90~270 (65) av	1399
L_90~270 (75) av	1196
L_90~270 (85) av	671
L_45 (65) av	2487
L_45 (75) av	3489
L_45 (85) av	8703

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENGPU
Test Date:2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0(N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	16.2	16.3	16.4	16.5	16.6	16.6	16.7	16.7	16.8	16.8	16.9	16.9	16.2	16.3	16.4	16.5	16.6	16.6	16.7
5	16.2	16.3	16.4	16.5	16.5	16.6	16.7	16.7	16.8	16.7	16.9	16.9	16.1	16.3	16.3	16.5	16.5	16.6	16.6
10	16.2	16.3	16.4	16.4	16.5	16.4	16.5	16.5	16.6	16.6	16.7	16.8	16.0	16.2	16.2	16.3	16.2	16.4	16.3
15	16.2	16.3	16.4	16.2	16.2	16.1	16.1	16.1	16.3	16.4	16.5	16.5	15.8	16.0	15.9	16.0	15.9	16.0	15.9
20	16.2	16.2	16.2	16.0	15.9	15.6	15.6	15.7	15.8	16.0	16.2	16.3	15.6	15.7	15.6	15.6	15.4	15.4	15.4
25	16.2	16.1	16.0	15.7	15.4	15.1	15.0	15.0	15.3	15.5	15.8	16.0	15.3	15.4	15.2	15.1	14.8	14.8	14.7
30	16.1	16.0	15.7	15.2	14.8	14.4	14.2	14.3	14.6	15.0	15.5	15.7	15.1	15.2	14.9	14.5	14.2	14.0	13.9
35	16.0	15.8	15.5	14.8	14.1	13.6	13.3	13.4	13.8	14.4	15.0	15.4	14.8	14.9	14.4	14.0	13.4	13.1	13.0
40	15.9	15.7	15.2	14.3	13.3	12.6	12.3	12.5	13.0	13.8	14.6	15.0	14.5	14.5	14.0	13.3	12.5	12.1	12.0
45	15.7	15.4	14.8	13.7	12.5	11.6	11.2	11.4	12.2	13.1	14.1	14.6	14.1	14.1	13.4	12.7	11.7	11.0	10.9
50	15.4	15.2	14.4	13.1	11.7	10.5	10.0	10.3	11.2	12.4	13.5	14.1	13.7	13.6	12.9	11.9	10.8	9.90	9.70
55	15.1	14.8	14.0	12.5	10.8	9.39	8.79	9.15	10.3	11.6	12.9	13.6	13.3	13.1	12.3	11.2	9.82	8.70	8.41
60	14.7	14.4	13.5	11.8	9.93	8.20	7.48	7.95	9.32	10.9	12.2	13.1	12.8	12.6	11.7	10.4	8.84	7.50	7.09
65	14.3	13.9	12.9	11.1	9.04	7.00	6.12	6.74	8.36	10.1	11.6	12.5	12.2	12.0	11.0	9.62	7.89	6.30	5.71
70	13.8	13.4	12.3	10.4	8.16	5.83	4.71	5.55	7.41	9.28	10.9	11.9	11.7	11.4	10.3	8.87	6.95	5.13	4.31
75	13.2	12.8	11.7	9.74	7.32	4.72	3.26	4.41	6.52	8.54	10.2	11.3	11.0	10.8	9.67	8.13	6.07	4.02	2.93
80	12.6	12.2	11.0	9.04	6.55	3.72	1.81	3.39	5.70	7.80	9.53	10.6	10.4	10.1	8.99	7.41	5.27	3.04	1.57
85	11.9	11.5	10.4	8.39	5.85	2.92	0.68	2.53	4.95	7.08	8.84	9.91	9.76	9.47	8.33	6.73	4.55	2.27	0.49
90	11.3	10.8	9.72	7.72	5.13	2.23	0.08	1.77	4.18	6.42	8.17	9.23	9.11	8.82	7.68	6.10	3.93	1.65	0.04
95	10.6	10.2	9.07	7.12	4.31	1.34	0.05	0.98	3.42	5.83	7.53	8.55	8.44	8.15	7.06	5.53	3.34	1.13	0.04
100	9.79	9.46	8.43	6.59	3.99	1.30	0.05	0.91	3.08	5.31	6.92	7.87	7.80	7.53	6.47	5.02	2.98	1.01	0.04
105	9.07	8.77	7.78	6.08	3.68	1.33	0.05	0.87	2.79	4.81	6.32	7.23	7.15	6.90	5.89	4.56	2.69	0.93	0.04
110	8.35	8.05	7.14	5.53	3.46	1.35	0.05	0.75	2.42	4.29	5.75	6.60	6.52	6.29	5.37	4.14	2.41	0.79	0.04
115	7.71	7.37	6.54	5.03	3.19	1.16	0.05	0.16	2.21	3.82	5.18	5.99	5.92	5.73	4.87	3.71	2.17	0.20	0.04
120	7.04	6.72	5.95	4.59	3.00	0.40	0.05	0.04	2.06	3.28	4.61	5.37	5.32	5.13	4.33	3.32	2.02	0.09	0.04
125	6.39	6.10	5.41	4.13	2.82	0.07	0.05	0.04	1.78	2.97	4.05	4.73	4.70	4.54	3.86	3.03	1.66	0.08	0.04
130	5.75	5.49	4.86	3.80	2.36	0.05	0.05	0.04	0.75	2.69	3.62	4.18	4.18	4.04	3.46	2.74	0.64	0.07	0.04
135	5.13	4.90	4.40	3.47	1.26	0.05	0.05	0.04	0.17	2.26	3.23	3.70	3.66	3.57	3.08	2.15	0.09	0.07	0.04
140	4.55	4.35	3.94	2.75	0.37	0.05	0.05	0.04	0.08	0.97	2.76	3.26	3.21	3.14	2.59	0.85	0.04	0.07	0.04
145	3.97	3.78	3.06	1.28	0.11	0.05	0.05	0.04	0.08	0.14	1.29	2.50	2.62	2.25	1.14	0.19	0.04	0.07	0.05
150	2.65	2.42	1.35	0.23	0.07	0.05	0.05	0.04	0.08	0.05	0.26	0.78	0.92	0.61	0.15	0.09	0.04	0.06	0.05
155	0.67	0.56	0.21	0.07	0.07	0.05	0.05	0.04	0.07	0.05	0.08	0.08	0.08	0.11	0.05	0.07	0.04	0.06	0.05
160	0.08	0.05	0.08	0.07	0.08	0.05	0.05	0.04	0.07	0.05	0.08	0.02	0.02	0.07	0.05	0.07	0.04	0.06	0.05
165	0.07	0.05	0.09	0.07	0.08	0.06	0.05	0.04	0.06	0.05	0.07	0.02	0.02	0.06	0.03	0.07	0.04	0.05	0.05
170	0.08	0.05	0.06	0.08	0.07	0.06	0.05	0.04	0.06	0.05	0.06	0.02	0.02	0.06	0.02	0.06	0.04	0.05	0.05
175	0.07	0.05	0.09	0.05	0.07	0.06	0.05	0.04	0.06	0.05	0.06	0.02	0.05	0.05	0.02	0.06	0.04	0.05	0.05
180	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.06	0.03	0.05	0.05	0.02	0.05	0.06	0.06	0.05

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENGPU
Test Date:2022-11-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.2780A P:6.6720W PF:1.0000 Freq:0Hz Lamp Flux:89.832x1 lm		
NAME: N012060CC4DC0(N1222)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	16.7	16.8	16.8	16.9	16.9														
5	16.7	16.7	16.8	16.9	16.9														
10	16.5	16.5	16.7	16.8	16.9														
15	16.1	16.3	16.6	16.7	16.9														
20	15.6	15.9	16.3	16.5	16.9														
25	15.0	15.4	15.9	16.3	16.7														
30	14.3	14.7	15.5	16.0	16.6														
35	13.4	14.0	15.0	15.8	16.4														
40	12.4	13.3	14.4	15.4	16.3														
45	11.4	12.4	13.8	15.1	16.0														
50	10.3	11.6	13.2	14.6	15.7														
55	9.13	10.7	12.6	14.2	15.3														
60	7.93	9.78	11.9	13.6	14.9														
65	6.70	8.89	11.2	13.1	14.4														
70	5.54	7.99	10.5	12.5	13.8														
75	4.44	7.11	9.72	11.8	13.2														
80	3.43	6.27	8.93	11.1	12.5														
85	2.63	5.51	8.15	10.4	11.8														
90	1.73	4.54	7.34	9.64	11.1														
95	0.79	3.49	6.82	9.00	10.4														
100	1.01	2.91	5.36	7.57	9.35														
105	0.62	3.11	4.92	7.45	8.64														
110	1.03	3.03	5.06	6.08	7.22														
115	0.89	2.75	4.77	6.34	7.26														
120	0.33	2.24	4.37	5.80	6.71														
125	0.11	2.37	3.89	5.23	6.08														
130	0.07	2.05	3.24	4.66	5.37														
135	0.06	1.04	3.14	3.95	4.82														
140	0.06	0.26	2.43	3.42	4.31														
145	0.06	0.08	1.12	2.72	3.42														
150	0.06	0.08	0.25	1.17	1.87														
155	0.06	0.07	0.07	0.14	0.44														
160	0.06	0.06	0.07	0.08	0.08														
165	0.08	0.06	0.07	0.08	0.08														
170	0.07	0.05	0.05	0.08	0.06														
175	0.05	0.05	0.05	0.06	0.05														
180	0.05	0.05	0.06	0.06	0.05														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-12

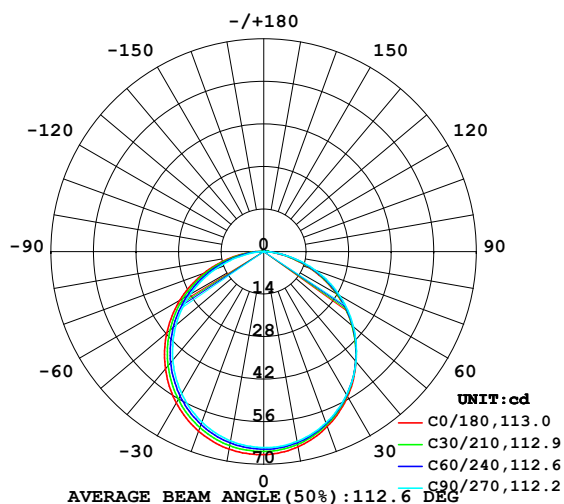
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

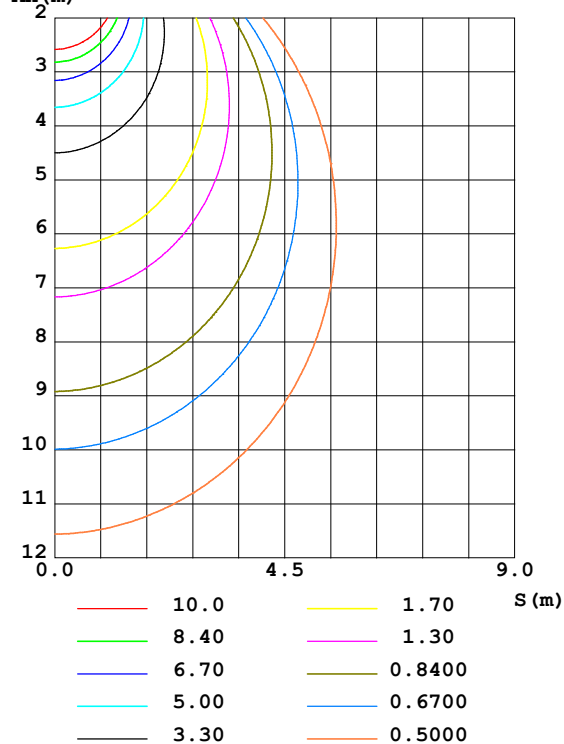
Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 9.32 lm/W
MODEL		Imax(cd)	66.80	S/MH(C0/180)	1.28	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)		TOTAL FLUX(lm)	187.04	η UP,DN(C0-180)	0.2,50.2	
NOMINAL FLUX(lm)	187.042	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,49.4	
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)		η down(%)	99.6	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENGPU
Test Date:2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

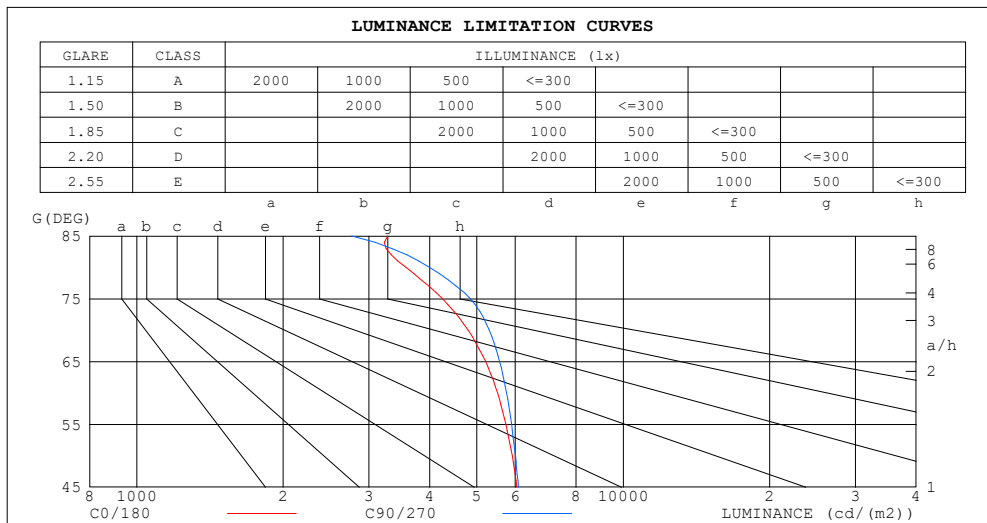
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	65.23	64.15	63.41	63.06	65.98	64.35	63.24	62.47	0- 10	6.134	6.134	3.28,3.28
20	61.24	60.60	59.99	60.05	62.85	60.94	59.68	58.73	10- 20	17.56	23.69	12.7,12.7
30	55.15	54.91	54.49	54.92	57.54	55.43	54.01	52.92	20- 30	26.59	50.28	26.9,26.9
40	47.26	47.40	47.26	47.99	50.36	48.08	46.54	45.38	30- 40	32.02	82.30	44,44
50	38.02	38.46	38.59	39.66	41.66	39.33	37.70	36.49	40- 50	33.23	115.5	61.8,61.8
60	27.57	28.35	28.79	30.17	31.78	29.53	27.75	26.53	50- 60	30.13	145.7	77.9,77.9
70	16.40	17.47	18.14	19.81	21.04	18.88	17.01	15.86	60- 70	23.13	168.8	90.2,90.2
80	6.213	7.011	6.940	9.335	10.18	8.303	6.201	5.743	70- 80	13.35	182.1	97.4,97.4
90	1.473	1.418	0.0468	1.718	2.177	1.565	0.0151	0.9818	80- 90	4.087	186.2	99.6,99.6
100	1.170	1.117	0.0453	0.7321	0.6868	0.7018	0.0151	0.8227	90-100	0.7877	187.0	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0317	187.0	100,100
120	0	0	0	0	0	0	0	0	110-120	0	187.0	100,100
130	0	0	0	0	0	0	0	0	120-130	0	187.0	100,100
140	0	0	0	0	0	0	0	0	130-140	0	187.0	100,100
150	0	0	0	0	0	0	0	0	140-150	0	187.0	100,100
160	0	0	0	0	0	0	0	0	150-160	0	187.0	100,100
170	0	0	0	0	0	0	0	0	160-170	0	187.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0	187.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



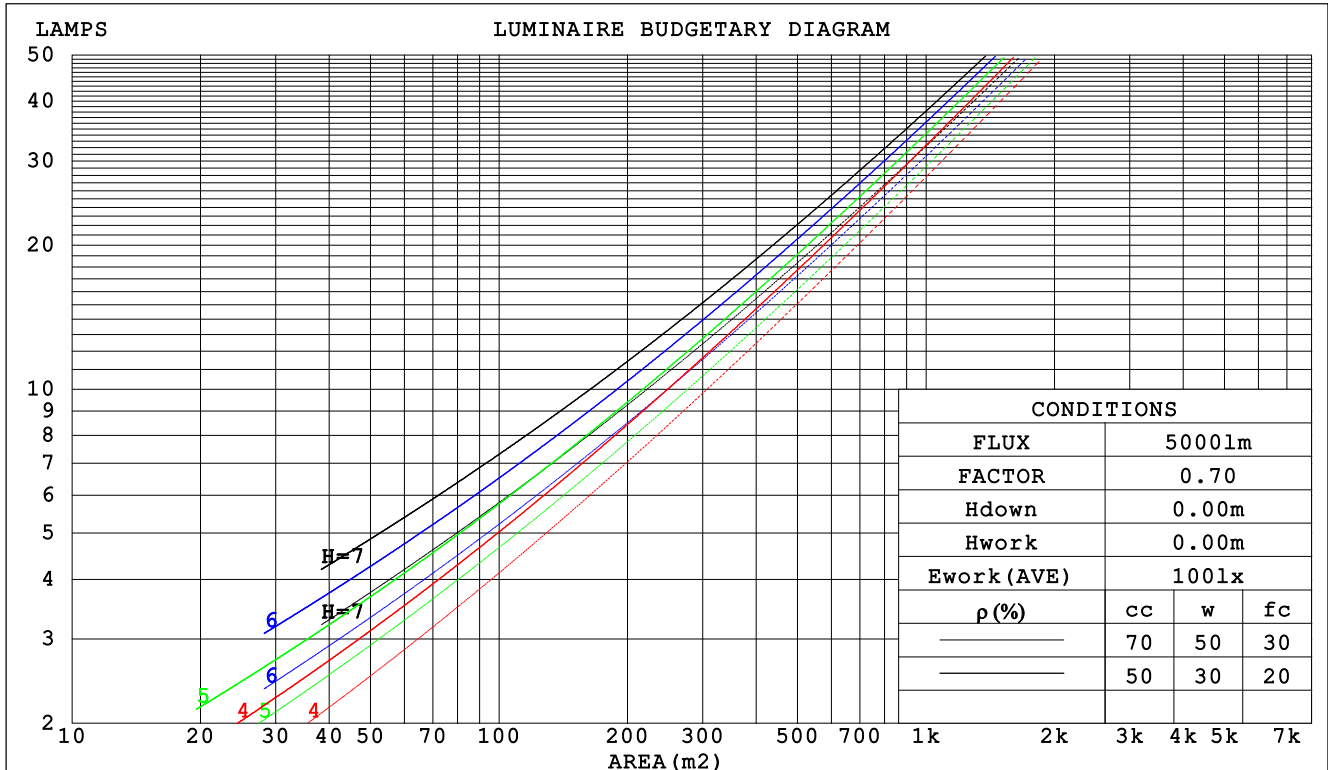
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm					
NAME: N012120BC1LZ			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.314	.179	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.269	.156	.050		
2.0	.294	.161	.049	.288	.158	.049	.276	.153	.048	.265	.149	.046	.255	.144	.045		
3.0	.272	.145	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041		
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.111	.033	.203	.109	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030		
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.075	.021	.148	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.184	.159	.137	.157	.137	.118	.108	.094	.082	.062	.054	.048	.020	.018	.015	
2.0	.176	.135	.101	.151	.116	.087	.103	.081	.061	.060	.047	.036	.019	.015	.012	
3.0	.168	.118	.077	.144	.102	.067	.099	.071	.047	.057	.041	.028	.018	.013	.009	
4.0	.161	.104	.062	.138	.090	.053	.095	.063	.038	.055	.037	.022	.018	.012	.007	
5.0	.153	.094	.050	.131	.081	.044	.091	.057	.031	.052	.033	.018	.017	.011	.006	
6.0	.146	.086	.042	.125	.074	.037	.087	.052	.026	.050	.031	.016	.016	.010	.005	
7.0	.139	.079	.037	.120	.068	.032	.083	.048	.023	.048	.028	.013	.016	.009	.004	
8.0	.133	.073	.032	.114	.063	.028	.079	.044	.020	.046	.026	.012	.015	.009	.004	
9.0	.126	.068	.029	.109	.059	.025	.075	.042	.018	.044	.025	.011	.014	.008	.004	
10.0	.121	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm											
NAME: N012120BC1LZ					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	18.9	20.4	19.1	20.6	20.8	19.0	20.5	19.3	20.7	21.0	
	3H	20.3	21.7	20.6	21.9	22.2	20.6	22.0	20.9	22.2	22.5
	4H	20.8	22.1	21.1	22.4	22.7	21.2	22.5	21.5	22.8	23.0
	6H	21.1	22.4	21.5	22.7	23.0	21.6	22.8	21.9	23.1	23.4
	8H	21.2	22.5	21.6	22.7	23.0	21.7	22.9	22.0	23.2	23.5
	12H	21.3	22.5	21.6	22.8	23.1	21.7	22.9	22.1	23.2	23.5
4H	2H	19.5	20.8	19.8	21.1	21.3	19.6	20.9	19.9	21.2	21.5
	3H	21.1	22.2	21.4	22.6	22.9	21.3	22.5	21.7	22.8	23.1
	4H	21.7	22.8	22.1	23.1	23.5	22.0	23.1	22.4	23.5	23.8
	6H	22.2	23.1	22.6	23.5	23.9	22.6	23.5	23.0	23.9	24.3
	8H	22.3	23.2	22.7	23.6	24.0	22.7	23.6	23.2	24.0	24.4
	12H	22.4	23.2	22.8	23.6	24.0	22.8	23.6	23.3	24.0	24.5
8H	4H	22.0	22.9	22.4	23.2	23.6	22.3	23.2	22.7	23.5	23.9
	6H	22.6	23.3	23.0	23.7	24.2	22.9	23.7	23.4	24.1	24.5
	8H	22.8	23.4	23.2	23.9	24.3	23.2	23.8	23.7	24.3	24.7
	12H	23.0	23.5	23.4	24.0	24.5	23.4	23.9	23.8	24.4	24.9
12H	4H	22.0	22.8	22.4	23.2	23.6	22.3	23.1	22.7	23.5	23.9
	6H	22.6	23.3	23.1	23.7	24.2	23.0	23.6	23.5	24.1	24.5
	8H	22.9	23.4	23.4	23.9	24.4	23.3	23.8	23.8	24.3	24.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 187.0 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -5.8$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

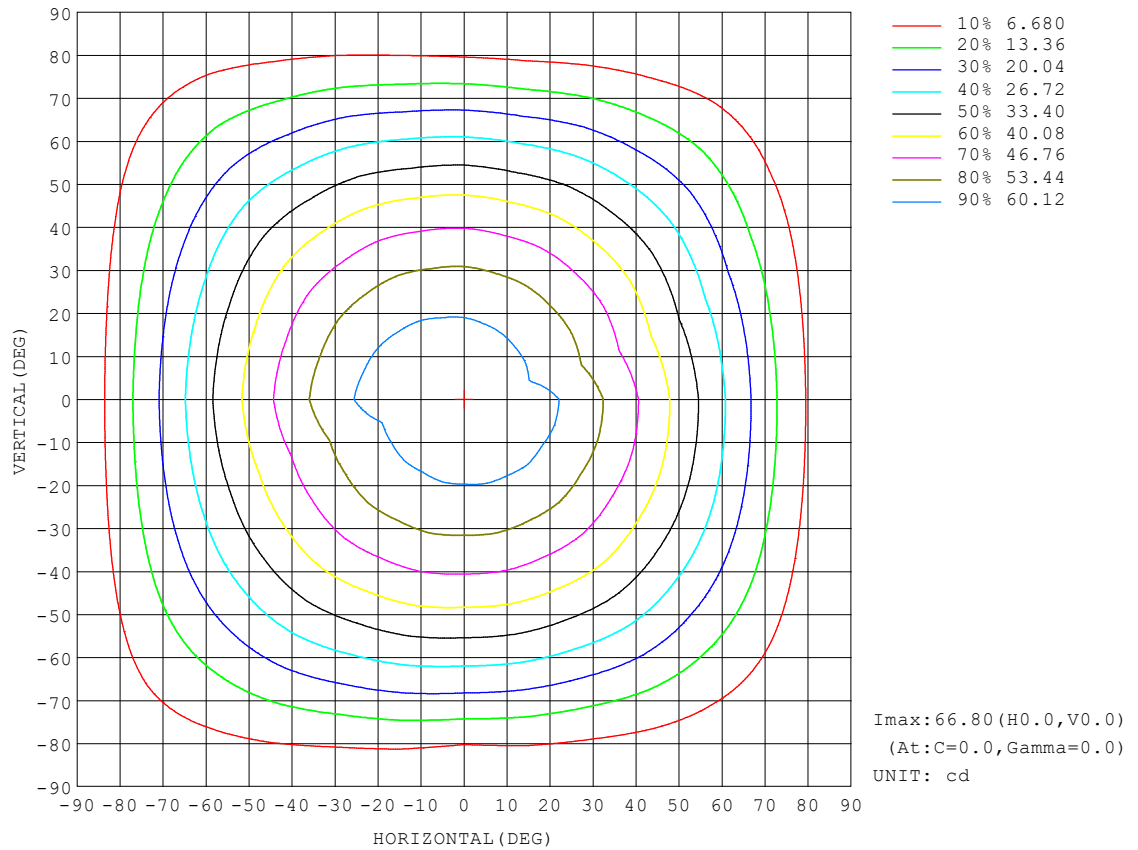
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

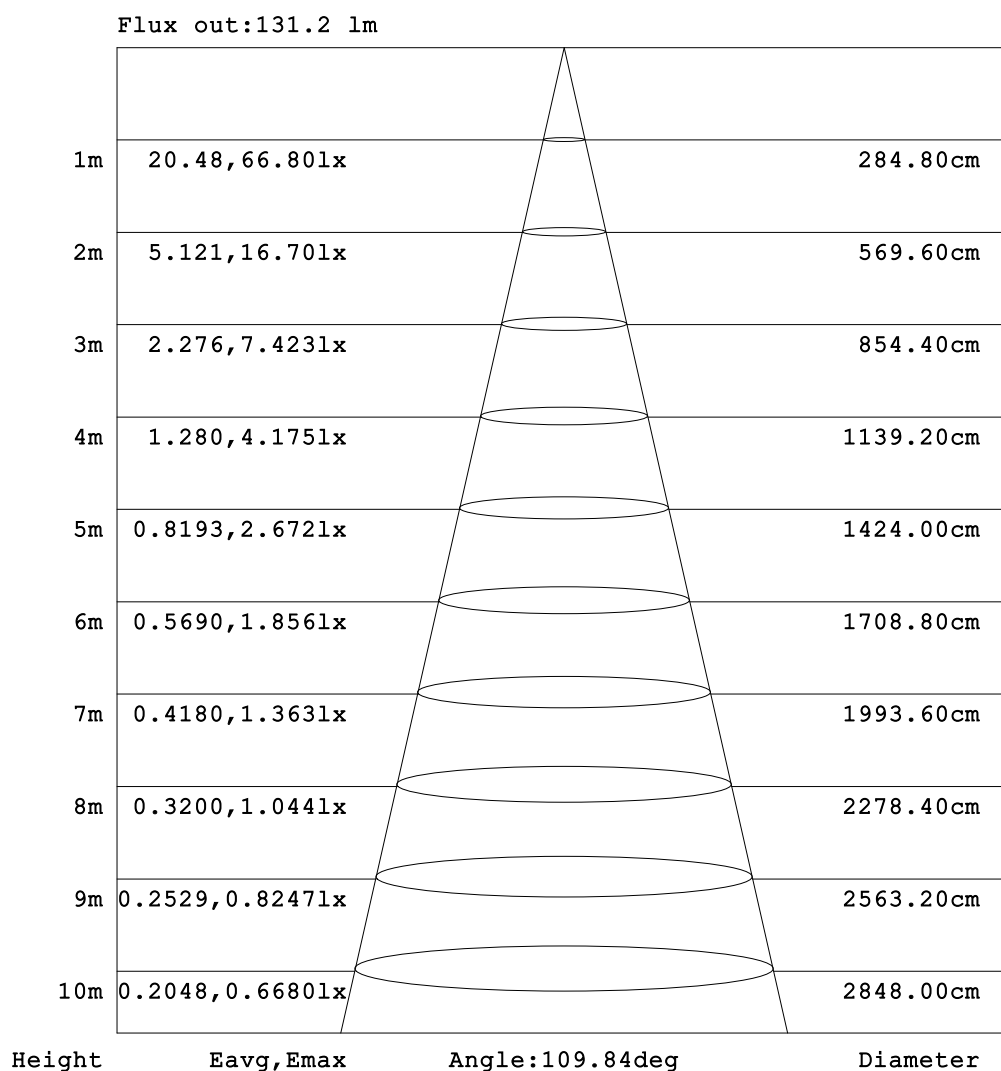


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



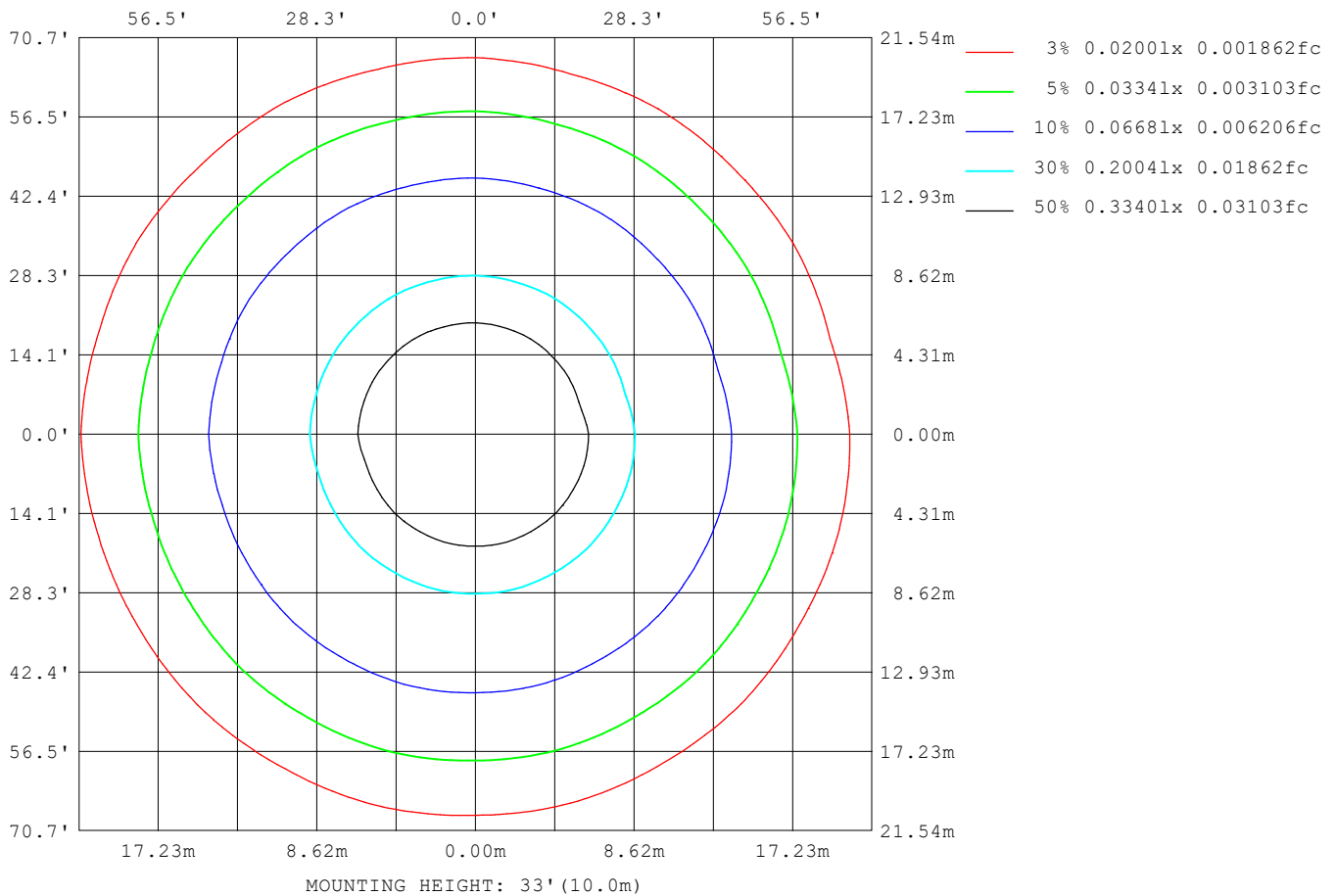
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

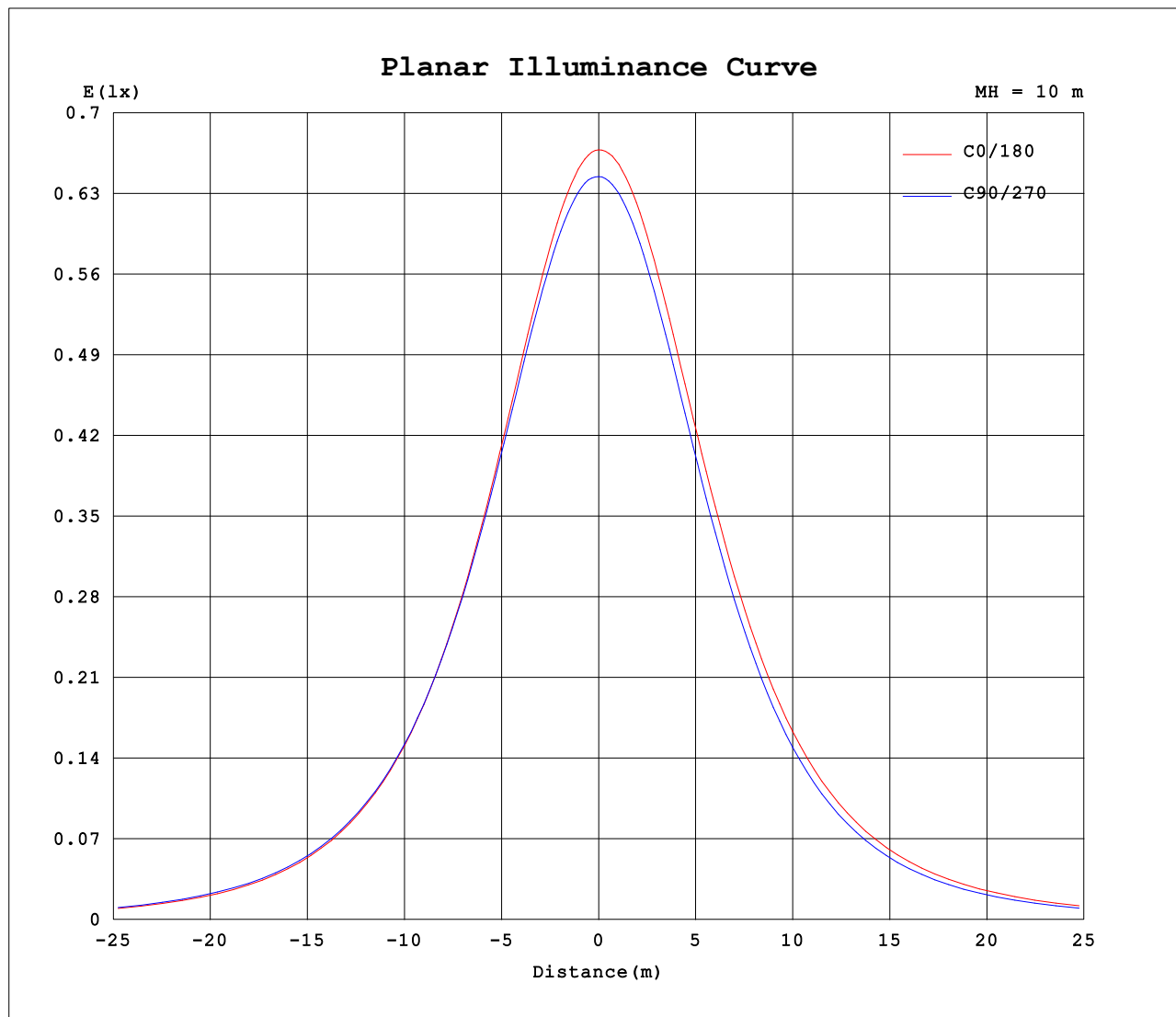
AvgL	cd/m2
L_0~180 (65) av	5742
L_0~180 (75) av	5127
L_0~180 (85) av	4757
L_90~270 (65) av	5442
L_90~270 (75) av	4653
L_90~270 (85) av	2435
L_45 (65) av	5520
L_45 (75) av	4879
L_45 (85) av	4090

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENGPU
Test Date:2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENGPU
Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	66.8	66.2	65.7	65.4	65.0	64.7	64.5	64.3	64.0	63.9	63.7	63.6	66.8	66.2	65.7	65.4	65.0	64.7	64.5
5	66.3	65.8	65.4	65.0	64.7	64.4	64.3	64.1	63.9	63.7	63.7	63.5	66.7	66.1	65.5	65.2	64.8	64.4	64.2
10	65.2	64.8	64.4	64.1	63.8	63.6	63.4	63.3	63.1	63.1	63.0	62.9	66.0	65.4	64.8	64.4	63.9	63.5	63.2
15	63.5	63.2	62.8	62.7	62.3	62.2	62.0	61.9	61.7	61.8	61.7	61.7	64.7	64.0	63.5	62.9	62.5	62.0	61.7
20	61.2	61.0	60.6	60.6	60.3	60.2	60.0	60.1	59.9	60.0	60.0	60.0	62.9	62.1	61.6	60.9	60.5	59.9	59.7
25	58.4	58.4	57.9	58.0	57.7	57.7	57.5	57.6	57.5	57.8	57.6	57.8	60.5	59.6	59.2	58.4	58.0	57.3	57.1
30	55.2	55.1	54.8	54.9	54.6	54.7	54.5	54.7	54.6	54.9	54.8	55.0	57.5	56.7	56.2	55.4	55.0	54.3	54.0
35	51.4	51.5	51.1	51.4	51.1	51.2	51.1	51.4	51.3	51.6	51.6	51.9	54.2	53.3	52.8	51.9	51.5	50.7	50.5
40	47.3	47.4	47.1	47.4	47.2	47.4	47.3	47.6	47.6	48.0	47.9	48.2	50.4	49.4	49.0	48.1	47.7	46.8	46.5
45	42.8	42.9	42.7	43.1	42.9	43.2	43.1	43.5	43.5	44.0	44.0	44.3	46.2	45.2	44.8	43.9	43.5	42.5	42.3
50	38.0	38.2	38.0	38.5	38.3	38.7	38.6	39.1	39.1	39.7	39.6	40.0	41.7	40.7	40.3	39.3	38.9	38.0	37.7
55	32.9	33.1	33.1	33.5	33.5	33.9	33.8	34.4	34.4	35.0	35.0	35.5	36.8	35.8	35.6	34.4	34.1	33.0	32.8
60	27.6	27.9	27.8	28.4	28.3	28.8	28.8	29.4	29.5	30.2	30.2	30.6	31.8	30.9	30.5	29.5	29.1	28.1	27.7
65	22.0	22.4	22.4	23.0	23.0	23.5	23.5	24.2	24.4	25.1	25.1	25.6	26.5	25.5	25.3	24.1	23.8	22.7	22.5
70	16.4	16.9	16.9	17.5	17.6	18.1	18.1	18.9	19.1	19.8	19.9	20.4	21.0	20.2	19.9	18.9	18.4	17.4	17.0
75	11.0	11.4	11.5	12.0	12.1	12.7	12.5	13.5	13.8	14.5	14.7	15.2	15.5	14.7	14.5	13.4	13.0	12.0	11.5
80	6.21	6.51	6.63	7.01	7.08	7.49	6.94	8.29	8.61	9.34	9.56	10.0	10.2	9.55	9.24	8.30	7.85	6.90	6.20
85	2.86	2.99	3.09	3.18	3.14	3.22	2.41	3.74	4.16	4.77	5.07	5.45	5.43	5.04	4.72	4.06	3.49	2.77	1.83
90	1.47	1.46	1.54	1.42	0.95	0.59	0.05	0.62	1.02	1.72	2.03	2.21	2.18	2.09	1.88	1.57	0.72	0.44	0.02
95	1.24	1.19	1.25	1.13	0.46	0.16	0.04	0.12	0.23	0.79	0.89	0.84	0.86	0.95	0.88	0.88	0.15	0.11	0.02
100	1.17	1.18	1.18	1.12	0.44	0.16	0.05	0.09	0.20	0.73	0.72	0.65	0.69	0.75	0.77	0.70	0.15	0.07	0.02
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENGPU
 Test Date: 2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.8360A P:20.060W PF:1.0000 Freq:0Hz Lamp Flux:187.042x1 lm		
NAME: N012120BC1LZ	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	64.3	64.0	63.9	63.7	63.6														
5	63.9	63.6	63.5	63.3	63.2														
10	62.9	62.7	62.5	62.3	62.1														
15	61.4	61.1	60.9	60.7	60.4														
20	59.3	59.0	58.7	58.6	58.2														
25	56.6	56.4	56.1	56.0	55.5														
30	53.5	53.3	52.9	52.8	52.3														
35	49.9	49.8	49.4	49.3	48.8														
40	46.0	45.9	45.4	45.3	44.8														
45	41.7	41.6	41.1	41.1	40.4														
50	37.1	37.0	36.5	36.5	35.9														
55	32.0	32.1	31.5	31.6	30.9														
60	27.1	27.0	26.5	26.5	25.9														
65	21.6	21.7	21.1	21.2	20.5														
70	16.3	16.3	15.9	15.9	15.3														
75	10.8	10.9	10.5	10.6	10.0														
80	5.78	5.93	5.74	5.89	5.58														
85	1.84	2.05	2.25	2.48	2.48														
90	0.23	0.48	0.98	1.14	1.27														
95	0.15	0.36	0.86	0.98	1.08														
100	0.11	0.35	0.82	0.98	1.02														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENGPU
 Test Date:2022-11-23

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks: