

Report No.: MSTLAB250528031

Test Time: 2025-05-28 09:32:58

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: ALL054F40W27V35K DOWN100%

Lamp Catalog: L128_28TAF-0931Q5-50W909(5090)+L128_28TAF-0931Q5-27W909(2790)

Lamp Description: BQ-40-0820-47-AD

Number of Lamps: 1

Lumens per Lamp:

Luminous Length (mm): 1200

Luminous Width (mm): 63

Luminous Height (mm):

Voltage: 120.0 V

Current: 0.320 A

Power: 38.22 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Measurement Flux: 5209.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H141.3,H85.3,H64.9,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V155.1,V105.8,V72.6,V0

Luminous Efficacy (lm/w): 136.29

C0r0 Intensity: 1732.05 cd

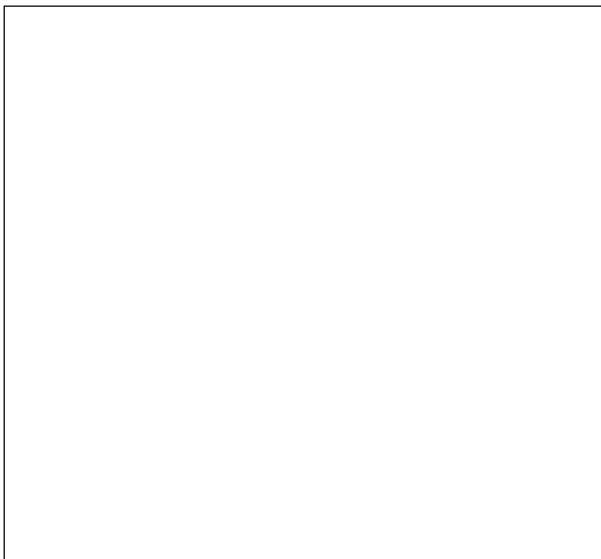
Max. Intensity: 2411.04 cd

Pos of Max. Intensity: H0 V19

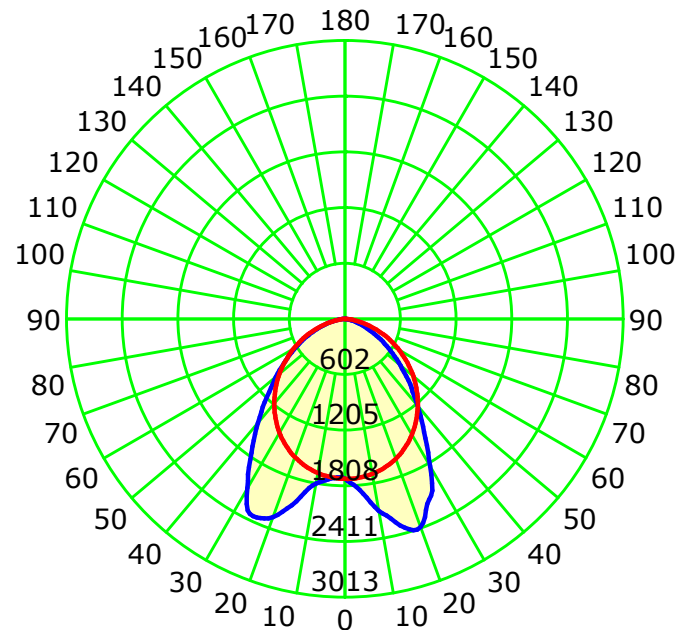
S/MH(C0/C180): 1.43

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 95.6°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: EVERFINE

Test Type: TYPE C

Temperature: 25.3℃

Operator:

Gamma Plane (°):0.0-90.0:1.0

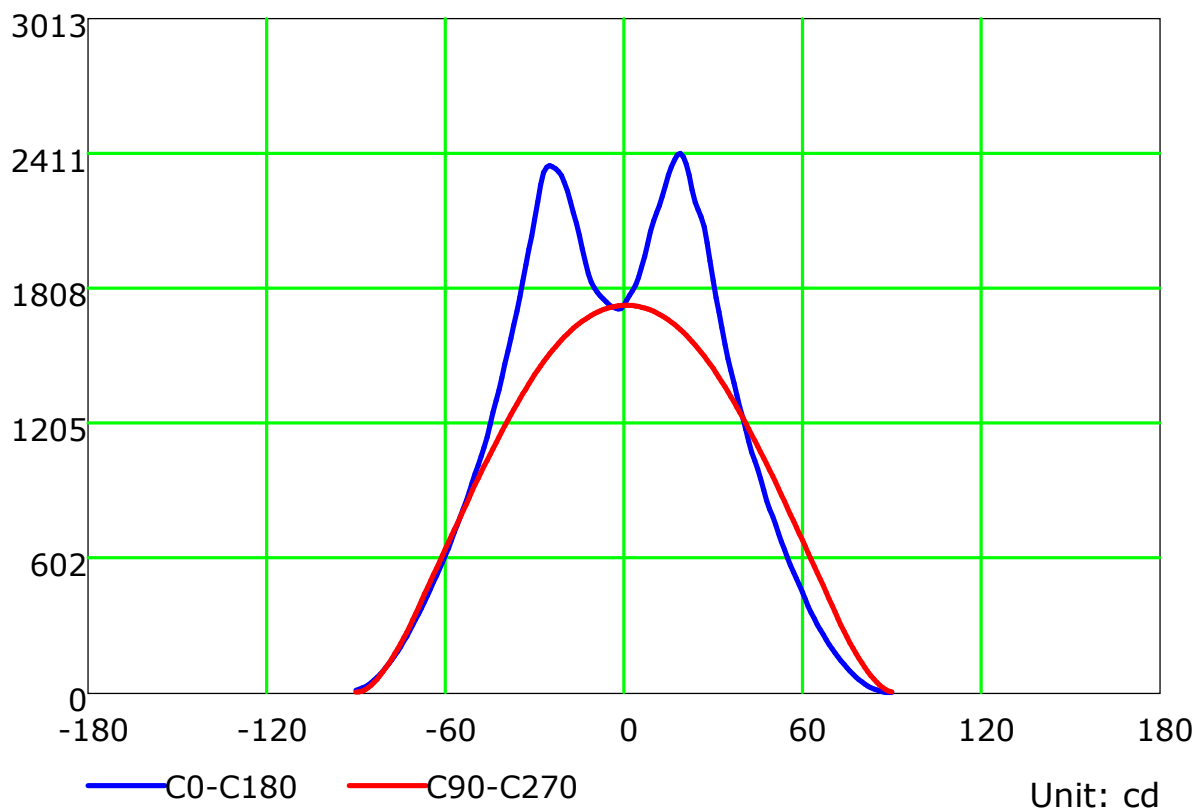
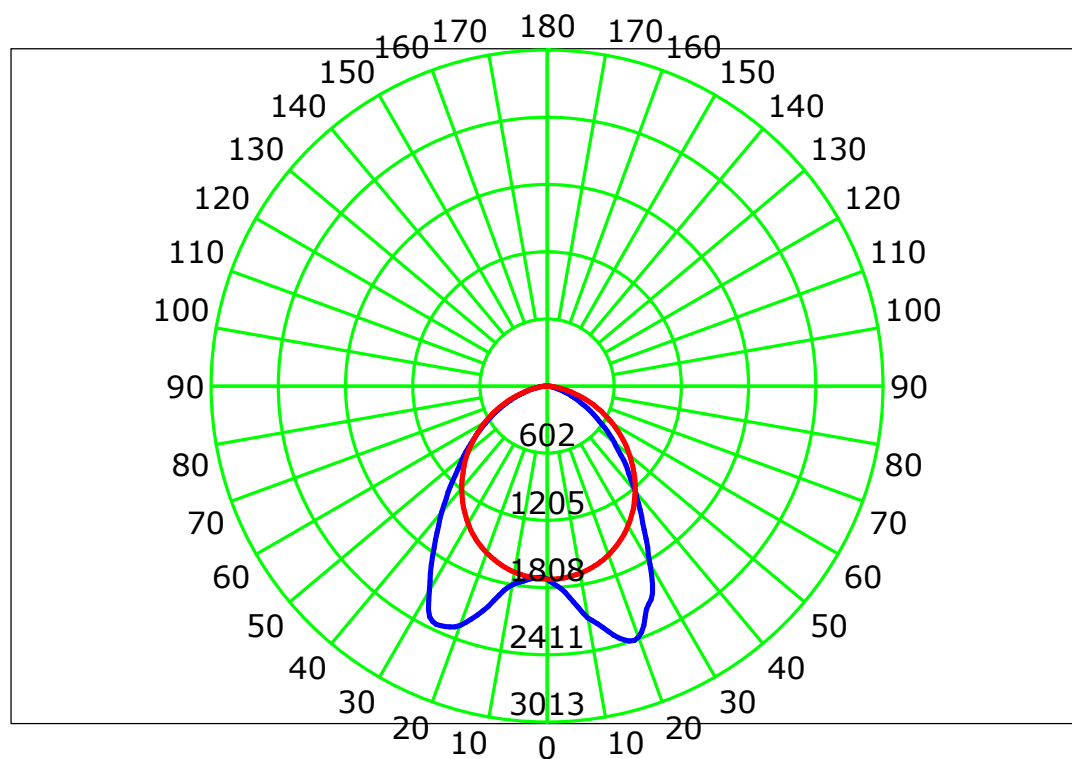
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

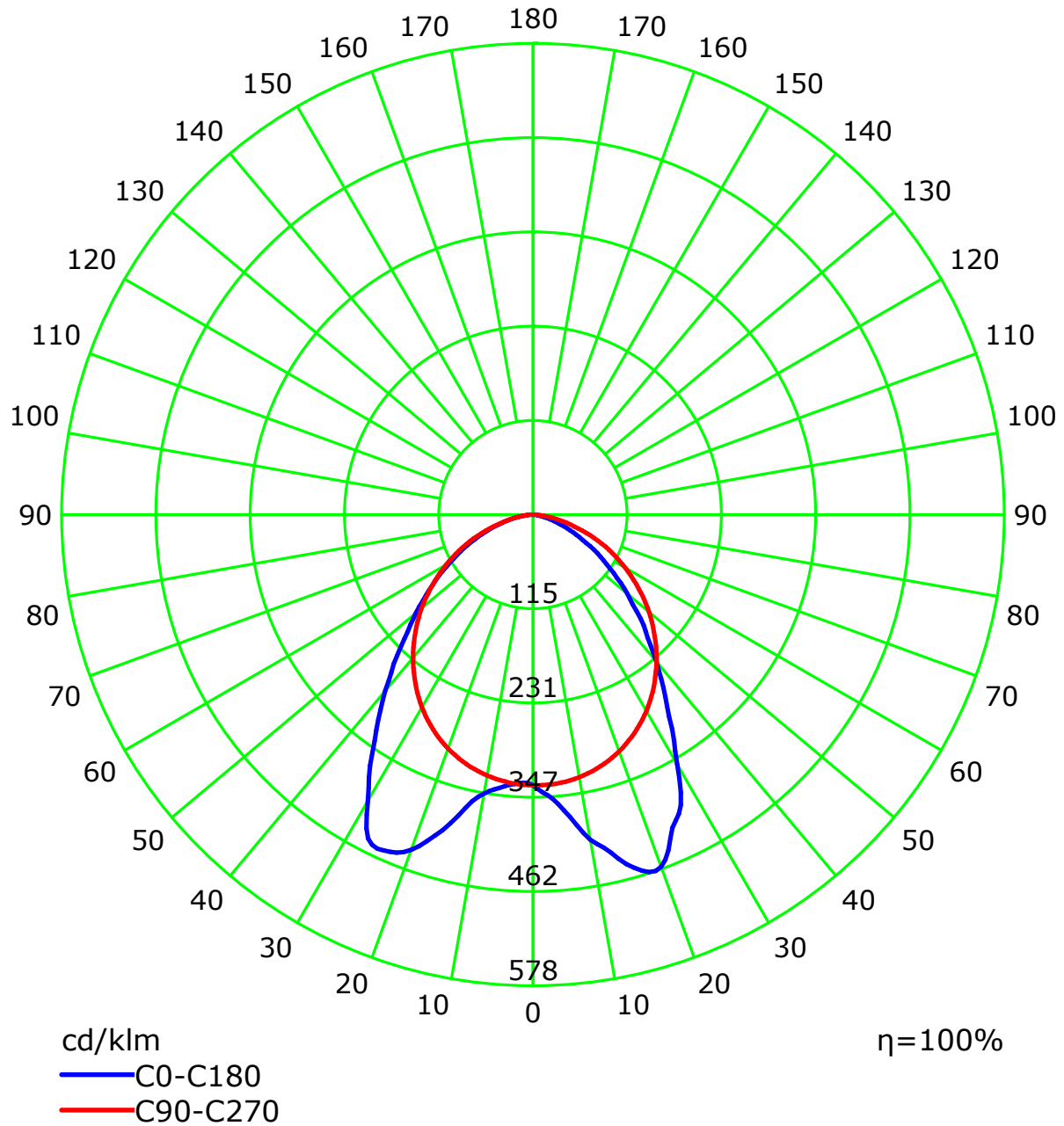
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



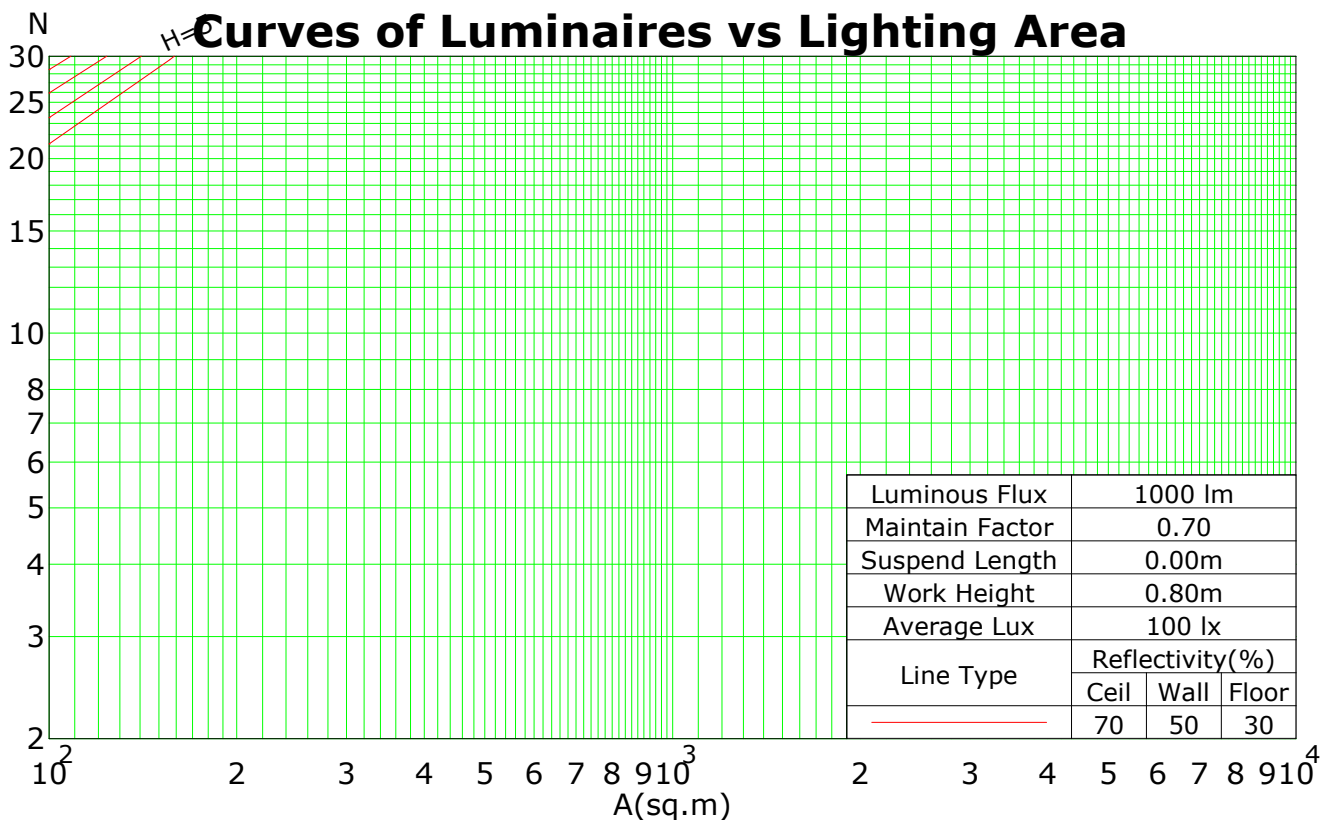
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.06	1.02	0.98	1.07	1.03	1.00	0.97	0.99	0.96	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	1.01	0.93	0.87	0.82	0.98	0.91	0.86	0.81	0.88	0.83	0.79	0.85	0.81	0.77	0.82	0.78	0.75	0.73
3	0.92	0.83	0.75	0.69	0.90	0.81	0.74	0.68	0.78	0.72	0.67	0.75	0.70	0.66	0.73	0.69	0.65	0.63
4	0.85	0.74	0.65	0.59	0.83	0.72	0.65	0.59	0.70	0.63	0.58	0.68	0.62	0.57	0.66	0.61	0.56	0.54
5	0.78	0.66	0.58	0.51	0.76	0.65	0.57	0.51	0.63	0.56	0.51	0.61	0.55	0.50	0.59	0.54	0.50	0.47
6	0.73	0.60	0.51	0.45	0.71	0.59	0.51	0.45	0.57	0.50	0.45	0.55	0.49	0.44	0.54	0.48	0.44	0.42
7	0.67	0.54	0.46	0.40	0.66	0.54	0.46	0.40	0.52	0.45	0.40	0.51	0.44	0.39	0.49	0.44	0.39	0.37
8	0.63	0.50	0.41	0.36	0.61	0.49	0.41	0.36	0.48	0.41	0.36	0.47	0.40	0.35	0.45	0.39	0.35	0.33
9	0.59	0.46	0.38	0.32	0.57	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.32	0.30
10	0.55	0.42	0.34	0.29	0.54	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27

Spacing Criteria (0-180): 1.43

Spacing Criteria (90-270): 1.23

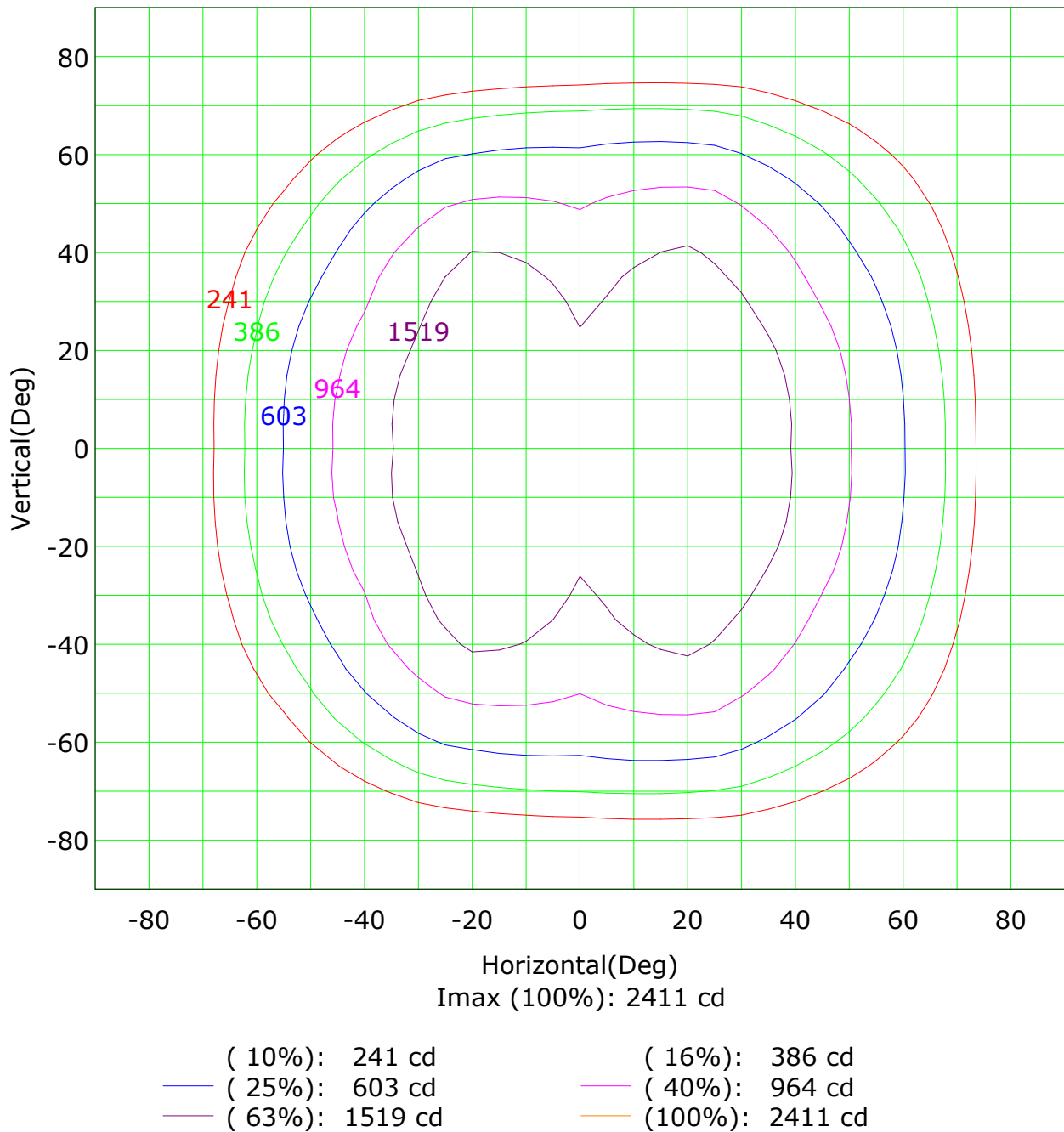
Spacing Criteria (Diagonal): 1.48



C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

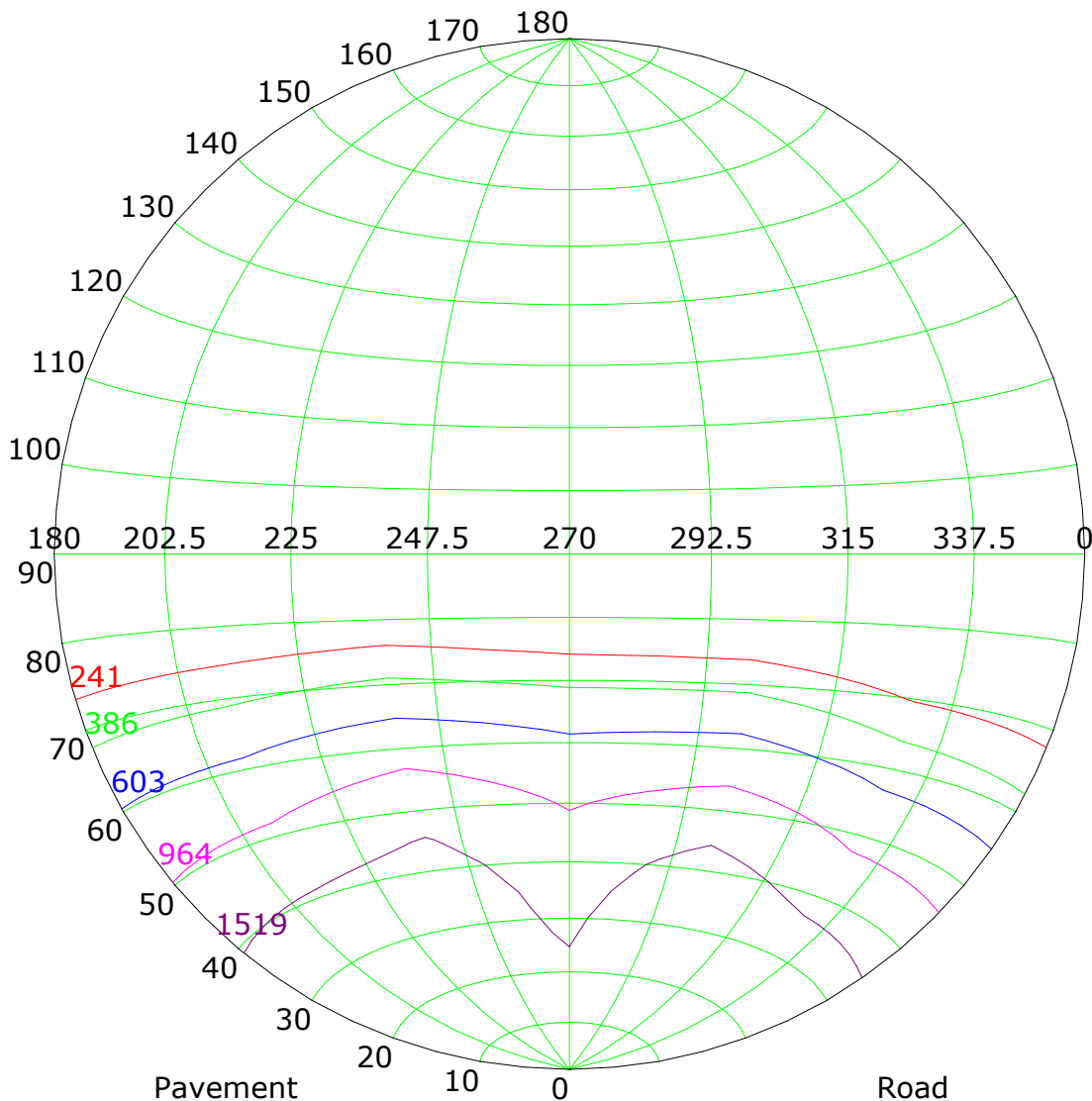
Isocandela (rectangle)



C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Isocandela (sphere)



Imax (100%): 2411 cd

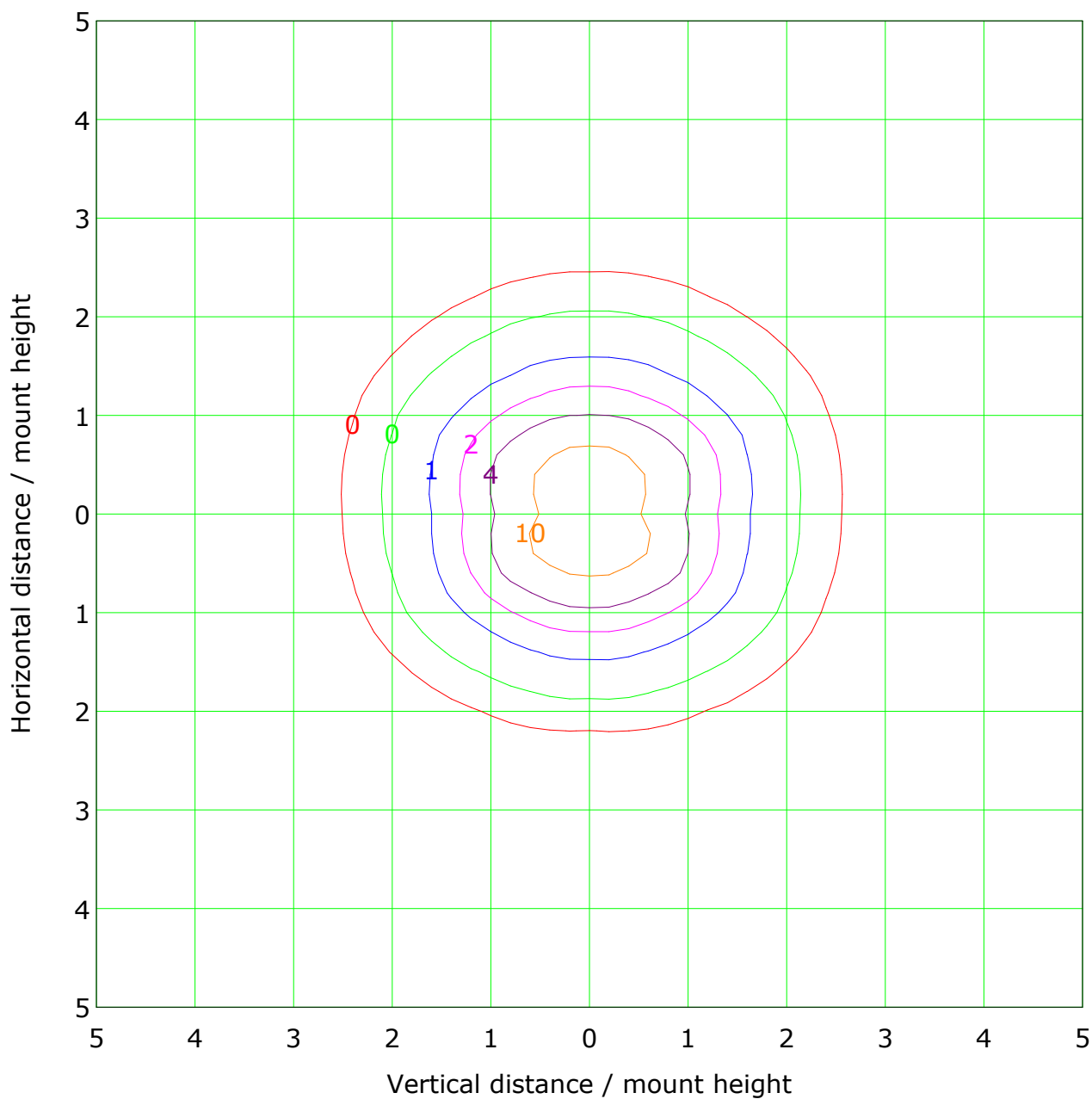
(10%): 241 cd
(25%): 603 cd
(63%): 1519 cd

(16%): 386 cd
(40%): 964 cd
(100%): 2411 cd

CIE: narrow - short
CIE: Semi-cut-off luminaire
Max.At90: 2.119 cd/klm

IES: Cut-off
Max.At80: 31.639 cd/klm
Max.80-90: 31.639 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 20.9 lx

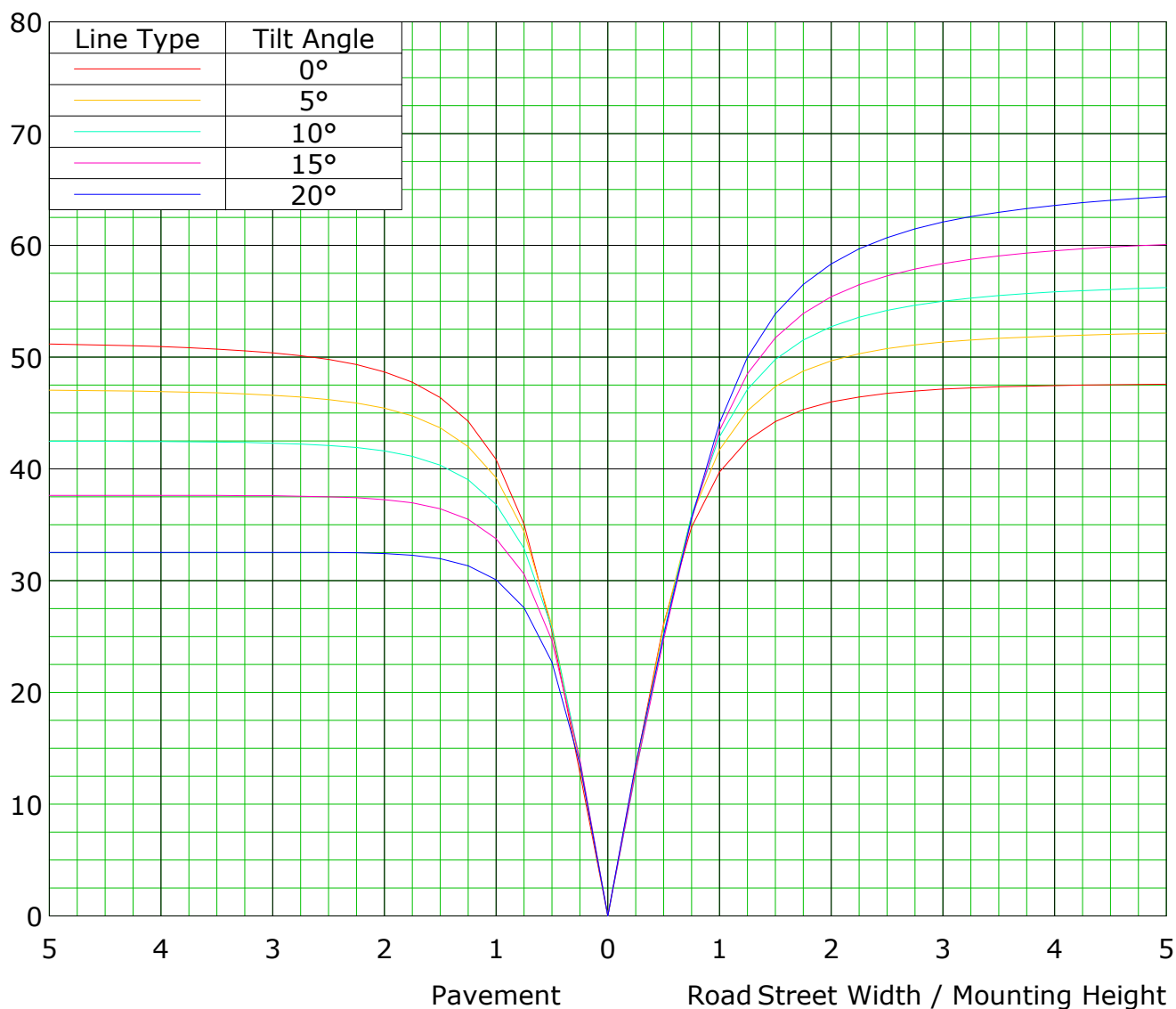
(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 2.1 lx
(20%): 4.2 lx	(50%): 10.4 lx
(100%): 20.9 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Roadway CU Curve

Efficiency(%)



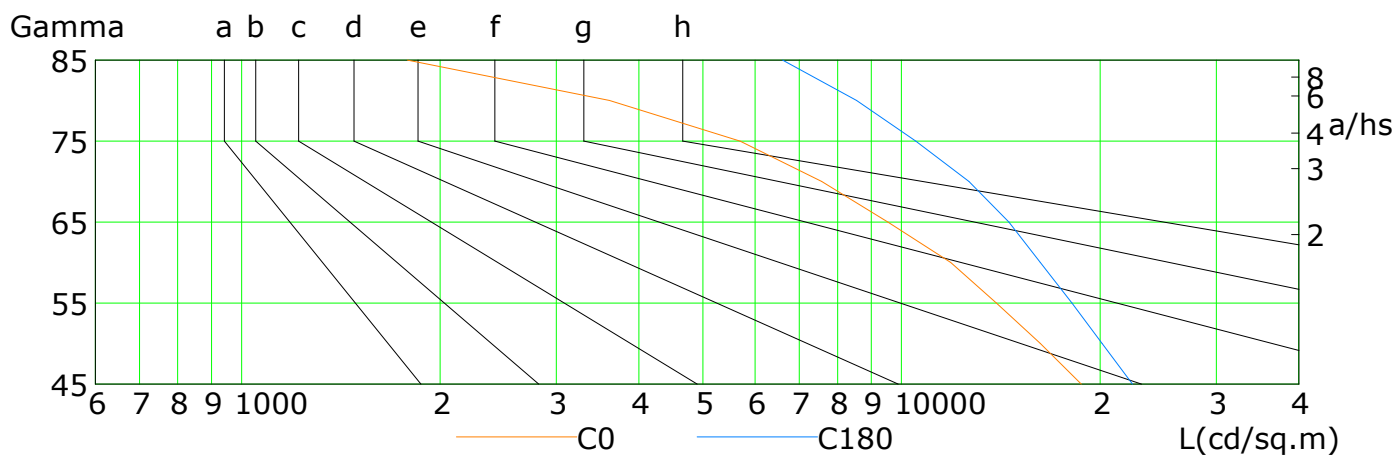
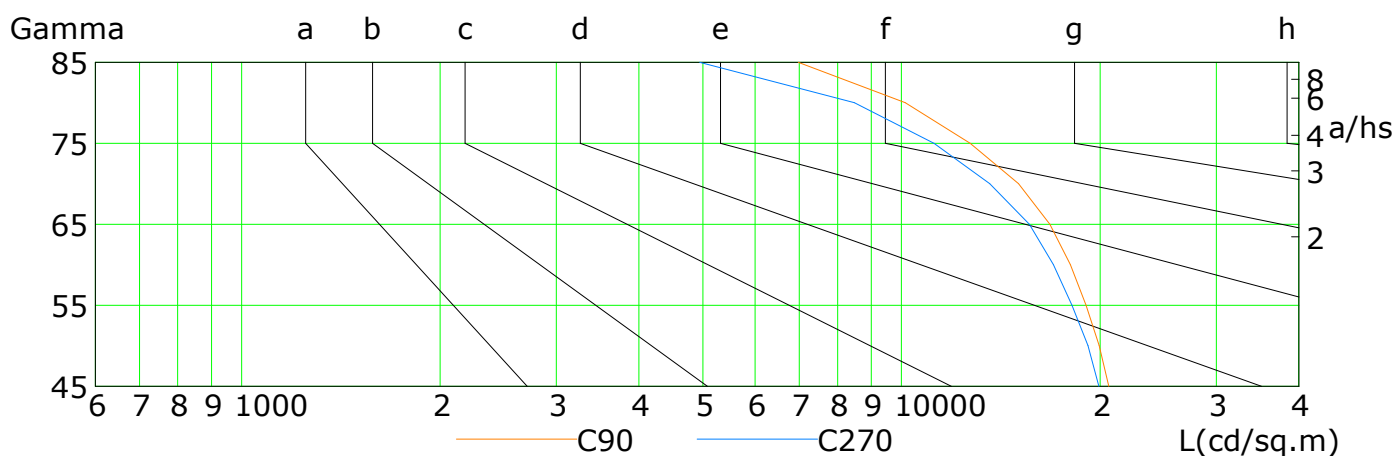
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

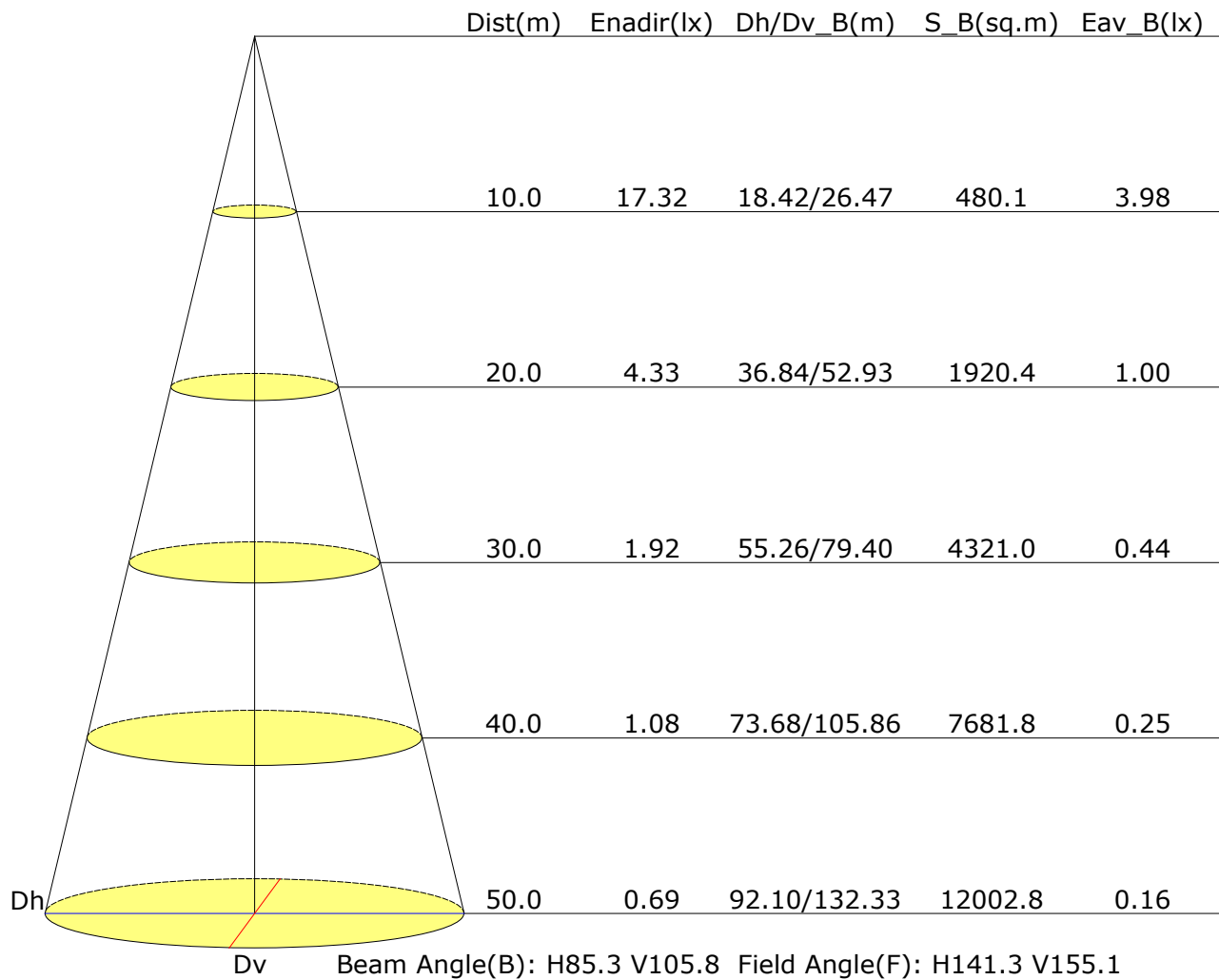


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18719	16231	13925	11874	9538	7571	5691	3611	1784
C90	20610	19941	19038	18030	16788	15043	12709	10131	6978
C180	22402	20130	18128	16226	14544	12646	10510	8553	6602
C270	19916	19168	18120	16986	15621	13613	11205	8484	4945

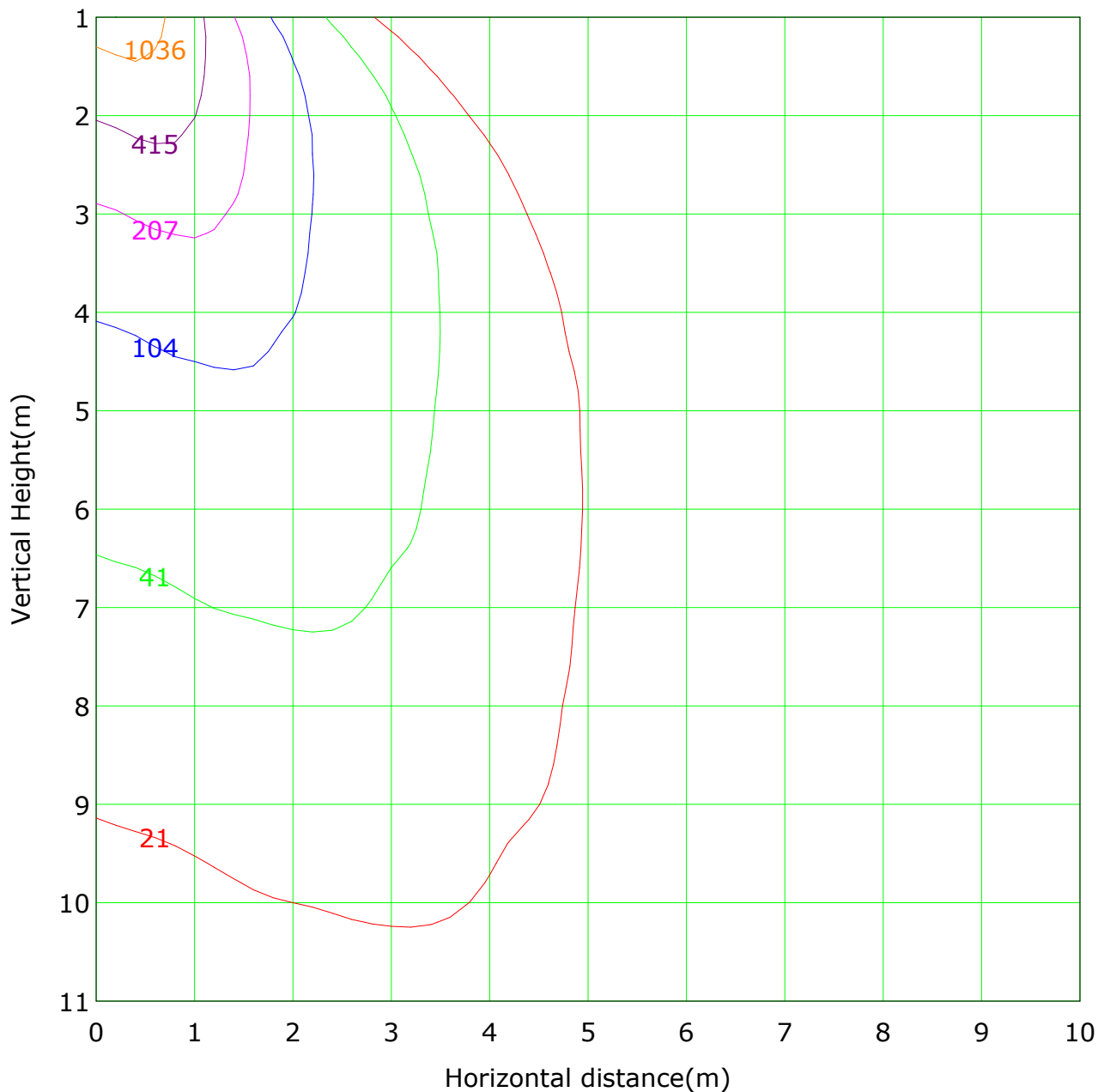
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Illuminance at a Distance



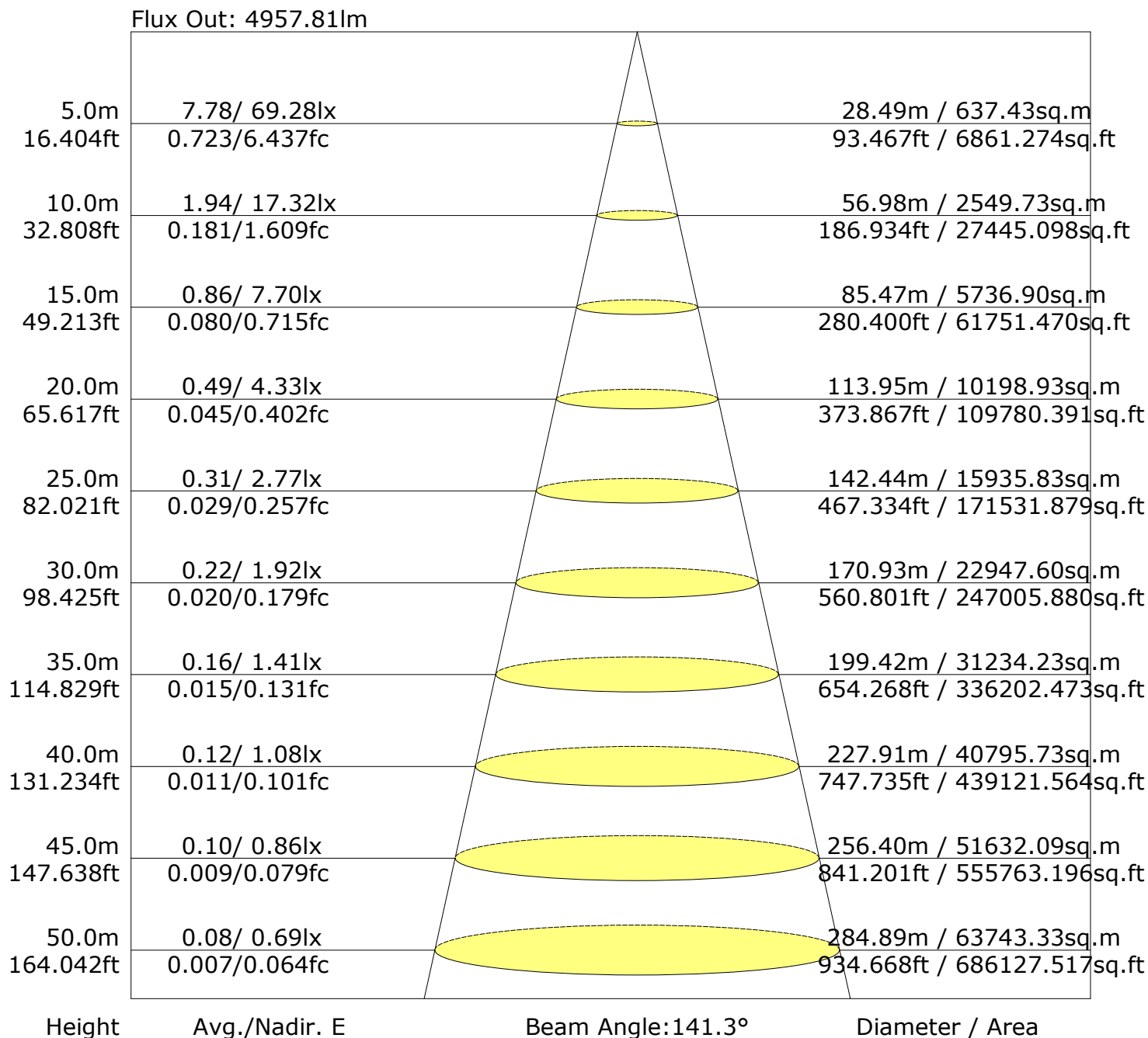
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2072.9 lx
— (1%): 20.7 lx — (2%): 41.5 lx
— (5%): 103.6 lx — (10%): 207.3 lx
— (20%): 414.6 lx — (50%): 1036.4 lx
— (100%): 2072.9 lx

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	20.0	21.5	20.3	21.8	22.1	22.8	24.4	23.2	24.7	25.0
3H	20.9	22.3	21.3	22.6	23.0	24.2	25.6	24.6	25.9	26.2
4H	21.2	22.5	21.6	22.8	23.2	24.6	25.9	25.0	26.3	26.6
6H	21.2	22.4	21.7	22.8	23.2	24.9	26.1	25.3	26.4	26.8
8H	21.2	22.4	21.7	22.8	23.2	24.9	26.1	25.4	26.5	26.9
12H	21.2	22.3	21.6	22.7	23.1	25.0	26.1	25.4	26.4	26.9
X=4H Y=2H	20.7	22.0	21.1	22.4	22.7	23.2	24.5	23.6	24.9	25.2
3H	21.8	22.9	22.2	23.3	23.7	24.8	25.9	25.3	26.3	26.7
4H	22.1	23.1	22.5	23.5	23.9	25.4	26.4	25.8	26.8	27.2
6H	22.2	23.1	22.7	23.5	24.0	25.8	26.6	26.2	27.1	27.5
8H	22.2	23.0	22.7	23.4	23.9	25.9	26.6	26.3	27.1	27.6
12H	22.2	22.9	22.7	23.4	23.9	25.9	26.6	26.4	27.1	27.6
X=8H Y=4H	22.4	23.2	22.9	23.6	24.1	25.5	26.3	26.0	26.8	27.2
6H	22.5	23.2	23.0	23.7	24.2	26.0	26.6	26.5	27.1	27.6
8H	22.6	23.1	23.1	23.6	24.1	26.1	26.7	26.7	27.2	27.7
12H	22.5	23.1	23.1	23.5	24.1	26.2	26.7	26.7	27.2	27.8
X=12H Y=4H	22.4	23.1	22.9	23.6	24.1	25.5	26.2	26.0	26.7	27.2
6H	22.6	23.2	23.1	23.6	24.2	26.0	26.6	26.5	27.1	27.6
8H	22.6	23.1	23.1	23.6	24.2	26.2	26.7	26.7	27.2	27.7

Calculate in accordance with CIE 190:2010 The table is revised with 5209lm ($8\log(F/F_0) = 5.7$).

C Plane (°):0.0-360.0: 30.0
 Test Lab: EVERFINE
 Test Type: TYPE C
 Temperature: 25.3℃
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device:
 Distance: 11.655m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

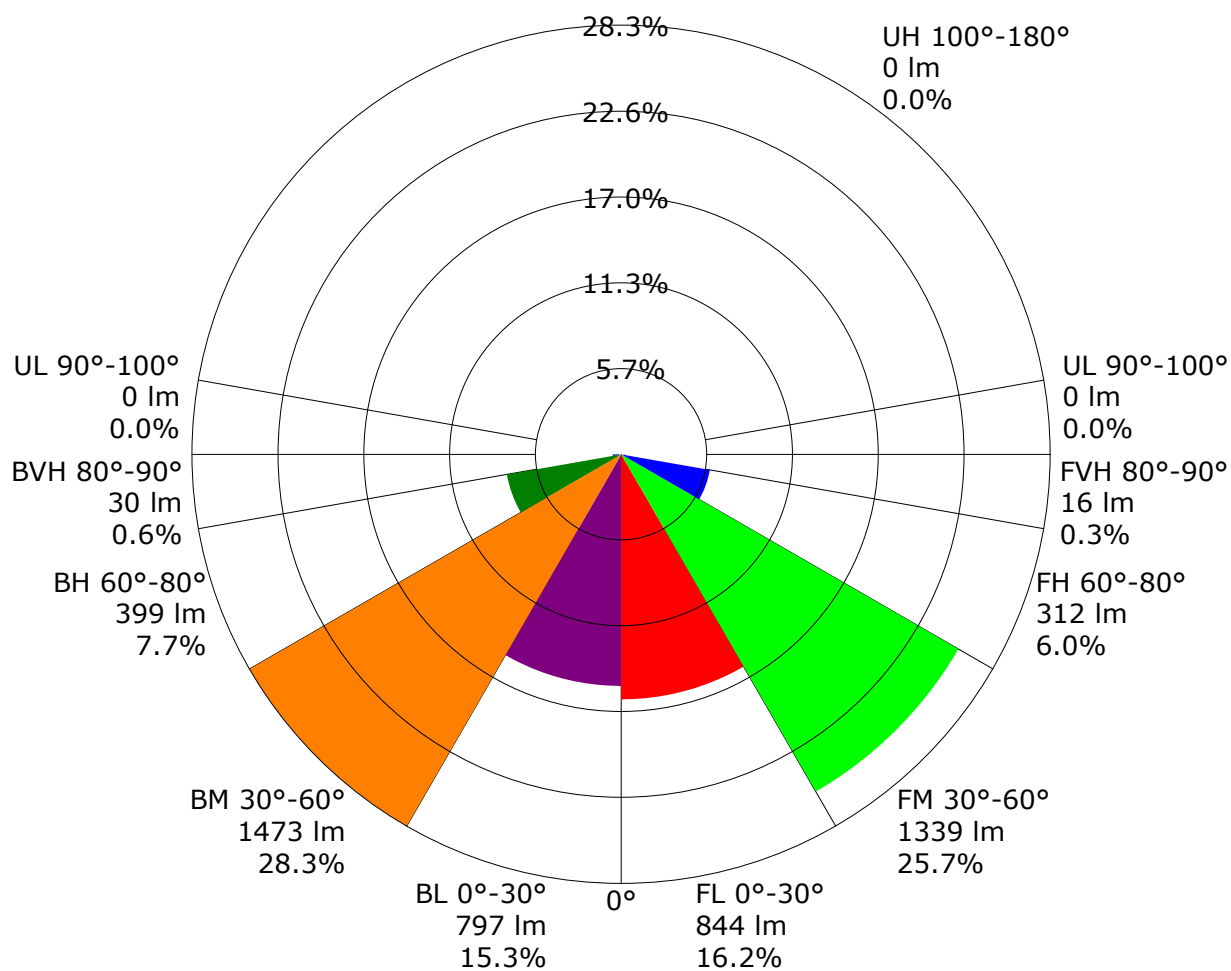
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2510	48.2
	FL (0°-30°)	844	16.2
	FM (30°-60°)	1339	25.7
	FH (60°-80°)	312	6.0
	FVH (80°-90°)	16	0.3
	BACK LIGHT	2699	51.8
	BL (0°-30°)	797	15.3
	BM (30°-60°)	1473	28.3
	BH (60°-80°)	399	7.7
	BVH (80°-90°)	30	0.6
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U1 G1

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.66	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
	0.30		0.59	0.67	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.62	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.58	0.66	0.73	0.78	0.85	0.89	0.92	0.96	0.99	
	0.20		0.54	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.63	0.70	0.77	0.81	0.86	0.90	0.92	0.96	0.98	
	0.30		0.58	0.65	0.72	0.76	0.83	0.87	0.90	0.93	0.96	
	0.20		0.54	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.52	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.85	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.71	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.61	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.82	0.69	0.57	0.49	0.39	0.36	0.27	0.21	0.17	
	0.30		0.70	0.59	0.51	0.44	0.36	0.30	0.25	0.20	0.16	
	0.20		0.60	0.53	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.66	0.55	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.68	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.52	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.48	0.41	0.35	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1733.0	1.7	1.7	0.03	0.03
1.0-2.0	1736.3	5.0	6.6	0.10	0.13
2.0-3.0	1741.5	8.3	15.0	0.16	0.29
3.0-4.0	1747.9	11.7	26.7	0.22	0.51
4.0-5.0	1756.4	15.1	41.8	0.29	0.80
5.0-6.0	1767.1	18.6	60.4	0.36	1.16
6.0-7.0	1779.7	22.1	82.5	0.42	1.58
7.0-8.0	1794.2	25.7	108.1	0.49	2.08
8.0-9.0	1810.2	29.3	137.5	0.56	2.64
9.0-10.0	1826.9	33.1	170.5	0.63	3.27
10.0-11.0	1842.9	36.8	207.4	0.71	3.98
11.0-12.0	1858.0	40.6	248.0	0.78	4.76
12.0-13.0	1874.2	44.5	292.5	0.85	5.61
13.0-14.0	1893.3	48.5	340.9	0.93	6.55
14.0-15.0	1915.6	52.6	393.5	1.01	7.55
15.0-16.0	1938.7	56.8	450.4	1.09	8.65
16.0-17.0	1960.9	61.1	511.4	1.17	9.82
17.0-18.0	1981.3	65.3	576.8	1.25	11.07
18.0-19.0	1998.7	69.5	646.3	1.34	12.41
19.0-20.0	2012.3	73.7	720.0	1.41	13.82
20.0-21.0	2021.0	77.6	797.6	1.49	15.31
21.0-22.0	2024.4	81.4	879.0	1.56	16.87
22.0-23.0	2022.3	84.9	963.8	1.63	18.50
23.0-24.0	2016.3	88.2	1052.0	1.69	20.20
24.0-25.0	2008.6	91.3	1143.3	1.75	21.95
25.0-26.0	1998.3	94.3	1237.7	1.81	23.76
26.0-27.0	1984.6	97.1	1334.8	1.86	25.62
27.0-28.0	1967.7	99.6	1434.4	1.91	27.54
28.0-29.0	1947.2	101.9	1536.3	1.96	29.49
29.0-30.0	1923.7	103.9	1640.2	1.99	31.49
30.0-31.0	1896.5	105.6	1745.7	2.03	33.51
31.0-32.0	1864.9	106.9	1852.6	2.05	35.56
32.0-33.0	1826.9	107.6	1960.2	2.07	37.63
33.0-34.0	1783.3	107.9	2068.2	2.07	39.70
34.0-35.0	1738.9	108.0	2176.2	2.07	41.78
35.0-36.0	1695.9	108.0	2284.2	2.07	43.85

C Plane (°):0.0-360.0: 30.0
 Test Lab: EVERFINE
 Test Type: TYPE C
 Temperature: 25.3℃
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device:
 Distance: 11.655m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1652.7	107.8	2392.0	2.07	45.92
37.0-38.0	1609.2	107.4	2499.4	2.06	47.98
38.0-39.0	1566.7	107.0	2606.3	2.05	50.03
39.0-40.0	1524.6	106.3	2712.7	2.04	52.08
40.0-41.0	1481.1	105.5	2818.2	2.02	54.10
41.0-42.0	1436.2	104.4	2922.5	2.00	56.10
42.0-43.0	1391.7	103.1	3025.6	1.98	58.08
43.0-44.0	1347.4	101.7	3127.3	1.95	60.04
44.0-45.0	1301.4	100.0	3227.4	1.92	61.96
45.0-46.0	1254.2	98.1	3325.5	1.88	63.84
46.0-47.0	1207.8	96.1	3421.5	1.84	65.68
47.0-48.0	1163.0	94.0	3515.6	1.81	67.49
48.0-49.0	1119.4	91.9	3607.5	1.76	69.25
49.0-50.0	1076.3	89.7	3697.3	1.72	70.98
50.0-51.0	1032.7	87.4	3784.6	1.68	72.65
51.0-52.0	988.5	84.8	3869.5	1.63	74.28
52.0-53.0	944.9	82.2	3951.7	1.58	75.86
53.0-54.0	902.2	79.5	4031.2	1.53	77.39
54.0-55.0	861.1	76.9	4108.1	1.48	78.86
55.0-56.0	821.4	74.2	4182.3	1.43	80.29
56.0-57.0	782.7	71.6	4253.9	1.37	81.66
57.0-58.0	745.0	68.9	4322.8	1.32	82.99
58.0-59.0	707.3	66.1	4388.9	1.27	84.26
59.0-60.0	670.0	63.3	4452.2	1.22	85.47
60.0-61.0	634.5	60.6	4512.8	1.16	86.63
61.0-62.0	600.2	57.8	4570.6	1.11	87.74
62.0-63.0	566.7	55.1	4625.8	1.06	88.80
63.0-64.0	534.3	52.4	4678.2	1.01	89.81
64.0-65.0	502.0	49.7	4727.9	0.95	90.76
65.0-66.0	470.6	47.0	4774.8	0.90	91.66
66.0-67.0	440.1	44.3	4819.1	0.85	92.51
67.0-68.0	410.2	41.6	4860.7	0.80	93.31
68.0-69.0	381.0	38.9	4899.5	0.75	94.06
69.0-70.0	352.6	36.2	4935.8	0.70	94.75
70.0-71.0	325.3	33.6	4969.4	0.65	95.40
71.0-72.0	298.8	31.1	5000.5	0.60	95.99

C Plane (°):0.0-360.0: 30.0
 Test Lab: EVERFINE
 Test Type: TYPE C
 Temperature: 25.3℃
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device:
 Distance: 11.655m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 3227.37 lm

%lum = 62.0%

%lamp = 62.0%

cone flux(120°): 4452.24 lm

%lum = 85.5%

%lamp = 85.5%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G0.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0
G1.0	1755.5	1752.4	1743.2	1732.4	1722.4	1717.2	1717.8	1718.3	1723.0
G2.0	1777.1	1771.6	1755.2	1731.9	1715.7	1711.5	1716.4	1713.9	1717.0
G3.0	1797.3	1788.9	1765.1	1731.1	1711.5	1712.9	1720.1	1715.0	1713.2
G4.0	1823.4	1808.4	1774.0	1729.4	1709.1	1716.4	1726.2	1718.3	1711.6
G5.0	1857.7	1834.3	1782.9	1726.8	1708.9	1722.1	1735.0	1723.5	1710.7
G6.0	1902.0	1865.3	1791.0	1723.8	1708.9	1729.5	1747.5	1730.8	1709.8
G7.0	1950.3	1902.1	1799.3	1720.3	1708.8	1738.6	1761.3	1740.0	1708.6
G8.0	2004.9	1944.6	1809.5	1715.8	1708.9	1749.8	1774.7	1750.5	1708.0
G9.0	2061.7	1991.7	1820.6	1711.1	1708.7	1760.0	1790.1	1760.5	1707.6
G10.0	2110.3	2040.0	1833.5	1705.2	1709.1	1771.7	1811.2	1771.9	1707.5
G11.0	2145.8	2081.6	1847.0	1699.0	1709.6	1784.9	1836.7	1785.5	1707.7
G12.0	2177.9	2113.8	1861.5	1692.2	1710.1	1802.1	1873.2	1803.0	1707.4
G13.0	2219.3	2140.5	1878.6	1684.4	1710.6	1823.3	1925.5	1824.9	1707.4
G14.0	2268.0	2169.3	1898.1	1675.9	1710.9	1853.8	1984.4	1857.1	1707.0
G15.0	2314.7	2204.6	1919.7	1666.7	1710.8	1894.4	2044.9	1898.4	1706.7
G16.0	2350.5	2241.3	1939.9	1657.3	1711.2	1939.0	2098.5	1943.5	1706.7
G17.0	2381.7	2275.9	1957.9	1647.2	1711.5	1989.7	2146.3	1994.0	1707.0
G18.0	2404.2	2307.3	1973.9	1635.8	1712.4	2036.4	2195.4	2038.3	1707.5
G19.0	2411.0	2335.7	1986.1	1624.0	1713.0	2077.3	2242.4	2079.9	1707.8
G20.0	2396.2	2358.4	1993.5	1611.4	1714.6	2117.0	2282.1	2119.8	1709.0
G21.0	2363.8	2366.8	1998.1	1598.2	1716.7	2156.3	2312.4	2158.3	1711.1
G22.0	2314.4	2360.4	2002.2	1584.6	1720.4	2191.5	2330.8	2190.8	1716.0
G23.0	2248.3	2336.8	2006.9	1569.4	1726.6	2219.8	2342.9	2217.0	1722.8
G24.0	2192.6	2300.5	2012.0	1554.6	1736.1	2240.4	2351.6	2234.8	1733.2
G25.0	2159.1	2257.9	2017.5	1539.0	1747.4	2250.1	2357.1	2242.2	1743.3
G26.0	2128.0	2203.8	2021.5	1522.4	1757.7	2253.9	2349.9	2245.9	1752.9
G27.0	2084.2	2151.2	2023.0	1505.1	1767.3	2256.3	2325.2	2247.0	1760.7
G28.0	2013.0	2109.4	2022.9	1487.2	1775.7	2257.1	2271.1	2247.0	1768.6
G29.0	1931.1	2068.1	2024.3	1469.4	1783.9	2255.0	2196.0	2244.7	1777.5
G30.0	1843.2	2023.6	2026.7	1450.5	1792.8	2243.5	2115.4	2229.1	1787.2
G31.0	1765.9	1969.1	2029.1	1430.1	1803.9	2212.2	2041.1	2190.8	1798.3
G32.0	1703.8	1899.3	2028.5	1410.0	1815.3	2157.7	1982.3	2133.5	1807.7
G33.0	1632.8	1815.2	2021.5	1389.4	1824.2	2088.5	1912.9	2059.5	1812.8
G34.0	1556.9	1739.9	2003.3	1367.7	1826.9	2007.7	1838.6	1980.9	1812.1
G35.0	1493.9	1671.6	1973.4	1346.1	1824.5	1939.5	1769.0	1914.3	1805.4

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G36.0	1441.0	1604.2	1938.4	1323.4	1816.7	1879.0	1705.7	1852.9	1793.9
G37.0	1384.9	1534.3	1905.6	1300.0	1804.5	1812.3	1644.5	1784.1	1777.7
G38.0	1330.2	1467.4	1879.7	1277.0	1787.0	1743.6	1584.7	1717.0	1757.5
G39.0	1276.9	1404.0	1856.4	1253.7	1766.6	1679.1	1528.0	1654.8	1734.8
G40.0	1228.1	1348.7	1827.1	1228.8	1744.4	1617.3	1470.0	1590.4	1711.8
G41.0	1176.0	1299.6	1783.5	1204.1	1721.5	1553.4	1409.1	1526.2	1686.5
G42.0	1123.2	1249.3	1730.8	1179.6	1694.8	1491.6	1353.9	1466.2	1656.1
G43.0	1075.4	1203.2	1674.2	1153.7	1664.2	1435.3	1306.2	1410.8	1623.2
G44.0	1038.0	1159.3	1614.7	1128.2	1630.3	1381.1	1253.6	1355.4	1586.5
G45.0	1000.6	1106.4	1551.2	1101.7	1592.2	1324.4	1197.5	1300.2	1547.6
G46.0	956.5	1051.9	1488.5	1075.2	1552.1	1271.3	1143.2	1248.8	1506.7
G47.0	905.6	1001.9	1427.1	1049.1	1510.6	1222.7	1096.1	1200.9	1463.0
G48.0	858.5	958.0	1370.0	1022.8	1464.7	1175.7	1056.3	1152.7	1412.5
G49.0	821.2	921.8	1315.4	995.4	1413.4	1124.1	1017.8	1099.9	1361.6
G50.0	788.8	887.3	1261.6	969.0	1362.3	1071.5	978.2	1046.9	1310.3
G51.0	751.8	848.4	1203.3	941.4	1311.0	1019.8	938.8	996.4	1260.9
G52.0	712.6	805.0	1145.9	913.1	1261.8	974.9	897.3	953.9	1209.5
G53.0	675.7	761.5	1087.5	884.8	1210.4	934.9	857.8	914.2	1157.7
G54.0	638.9	722.0	1029.7	855.2	1157.1	894.4	821.1	873.7	1105.9
G55.0	603.8	687.8	975.1	825.5	1105.9	855.8	786.1	835.3	1054.3
G56.0	569.8	654.0	921.9	796.8	1052.3	819.0	751.7	799.4	1003.5
G57.0	539.2	621.4	873.9	767.7	1003.6	781.7	716.7	762.7	952.7
G58.0	510.6	588.5	828.9	739.3	952.0	745.5	681.1	726.2	901.5
G59.0	481.3	553.1	784.8	710.4	899.4	709.0	645.5	689.1	851.3
G60.0	448.9	520.5	740.4	681.5	853.0	672.1	613.3	652.5	805.7
G61.0	418.0	489.2	702.0	653.7	805.4	640.1	581.6	622.0	760.1
G62.0	384.8	457.7	660.4	623.2	762.0	608.4	552.8	590.8	719.1
G63.0	357.3	428.9	623.9	594.5	718.9	577.3	522.9	560.1	676.4
G64.0	330.9	401.4	586.2	565.0	678.2	545.7	494.7	527.7	635.1
G65.0	304.7	374.3	548.3	536.4	635.3	513.4	464.7	495.8	594.2
G66.0	282.2	348.3	514.4	508.3	596.0	483.4	435.7	466.2	556.4
G67.0	259.6	322.6	479.5	478.5	556.2	453.1	406.5	436.2	518.8
G68.0	237.7	297.5	446.6	449.2	520.1	425.1	379.3	408.7	483.7
G69.0	215.8	271.4	412.9	418.9	484.3	397.2	352.7	381.3	449.8
G70.0	195.8	246.5	381.3	389.0	450.9	371.1	327.0	355.5	417.6
G71.0	176.9	223.1	351.3	359.7	418.7	345.2	301.4	330.4	386.4

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 2)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3°C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 3)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G0.0	1732.0	1732.0	1732.0	1732.0					
G1.0	1731.0	1743.4	1751.9	1755.5					
G2.0	1729.7	1753.7	1769.9	1777.1					
G3.0	1727.1	1762.2	1787.2	1797.3					
G4.0	1724.7	1770.2	1807.2	1823.4					
G5.0	1721.3	1778.2	1833.1	1857.7					
G6.0	1716.8	1785.8	1864.9	1902.0					
G7.0	1712.5	1794.4	1901.2	1950.3					
G8.0	1707.1	1804.7	1944.1	2004.9					
G9.0	1701.3	1816.1	1992.1	2061.7					
G10.0	1694.8	1829.1	2038.7	2110.3					
G11.0	1687.4	1843.3	2078.1	2145.8					
G12.0	1679.2	1858.4	2107.6	2177.9					
G13.0	1670.8	1875.7	2133.1	2219.3					
G14.0	1661.7	1896.0	2162.7	2268.0					
G15.0	1651.5	1917.6	2199.8	2314.7					
G16.0	1640.9	1936.3	2234.8	2350.5					
G17.0	1629.5	1952.4	2268.4	2381.7					
G18.0	1617.2	1964.3	2297.5	2404.2					
G19.0	1604.5	1972.4	2324.9	2411.0					
G20.0	1591.4	1977.3	2344.7	2396.2					
G21.0	1577.2	1981.1	2349.2	2363.8					
G22.0	1563.1	1985.3	2337.5	2314.4					
G23.0	1547.4	1991.3	2307.8	2248.3					
G24.0	1531.5	1997.4	2268.8	2192.6					
G25.0	1515.0	2001.9	2222.9	2159.1					
G26.0	1497.8	2003.3	2169.1	2128.0					
G27.0	1480.0	2003.8	2121.3	2084.2					
G28.0	1461.6	2004.2	2080.8	2013.0					
G29.0	1441.8	2006.8	2036.6	1931.1					
G30.0	1422.3	2009.8	1989.2	1843.2					
G31.0	1401.6	2010.0	1930.3	1765.9					
G32.0	1380.4	2003.4	1852.8	1703.8					
G33.0	1358.4	1986.3	1770.8	1632.8					
G34.0	1336.3	1956.9	1700.2	1556.9					
G35.0	1313.6	1920.6	1633.5	1493.9					

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 4)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G36.0	1290.4	1887.0	1563.2	1441.0					
G37.0	1267.0	1858.4	1495.2	1384.9					
G38.0	1243.3	1835.0	1429.5	1330.2					
G39.0	1218.8	1807.4	1369.1	1276.9					
G40.0	1193.9	1762.9	1316.8	1228.1					
G41.0	1168.9	1709.8	1267.2	1176.0					
G42.0	1143.1	1657.0	1218.5	1123.2					
G43.0	1117.2	1597.5	1174.8	1075.4					
G44.0	1090.7	1535.4	1127.9	1038.0					
G45.0	1064.7	1474.3	1072.2	1000.6					
G46.0	1039.2	1413.7	1020.8	956.5					
G47.0	1012.6	1355.9	973.5	905.6					
G48.0	985.4	1303.0	933.2	858.5					
G49.0	958.5	1246.8	897.2	821.2					
G50.0	931.5	1188.6	861.8	788.8					
G51.0	902.2	1131.8	821.2	751.8					
G52.0	872.7	1073.5	777.6	712.6					
G53.0	842.4	1017.2	735.2	675.7					
G54.0	814.2	963.5	699.0	638.9					
G55.0	785.7	911.5	665.6	603.8					
G56.0	756.0	864.1	631.7	569.8					
G57.0	727.7	819.3	598.6	539.2					
G58.0	700.6	774.6	565.7	510.6					
G59.0	671.6	732.7	531.4	481.3					
G60.0	642.1	690.9	499.5	448.9					
G61.0	613.5	653.6	469.3	418.0					
G62.0	583.8	613.6	438.9	384.8					
G63.0	555.6	577.3	411.1	357.3					
G64.0	527.9	541.7	384.2	330.9					
G65.0	499.1	505.6	357.2	304.7					
G66.0	470.5	472.9	331.2	282.2					
G67.0	441.2	439.0	306.1	259.6					
G68.0	411.6	407.1	280.9	237.7					
G69.0	381.8	375.7	255.7	215.8					
G70.0	352.0	346.0	231.7	195.8					
G71.0	323.9	317.5	209.1	176.9					

C Plane (°):0.0-360.0: 30.0
 Test Lab: EVERFINE
 Test Type: TYPE C
 Temperature: 25.3℃
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device:
 Distance: 11.655m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

Candlepower Table(Continue 5)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3°C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device:
Distance: 11.655m [K=1.0000]
Humidity: 45% R.H
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	12041.36
L 0-180(75) av	8100.75
L 0-180(85) av	4192.78
L 90-270(65) av	16204.07
L 90-270(75) av	11957.35
L 90-270(85) av	5961.51
L 45(65) av	15743.37
L 45(75) av	11231.30
L 45(85) av	5378.38

Standard: GB/T 29293-2012