

Report No.: MSTLAB250610003

Test Time: 2025-06-10 11:30:36

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: ALL054F40W27V35K DOWN100%

Lamp Catalog: L128-ETSP2-YKCIE-SC(2790)+L128-ETSP2-YHCIE-SC(5090)

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: 0.314 A

Power: 37.55 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Measurement Flux: 663.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 663.9 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,50%,75%,100%): H153.9,H96.8,H62.5,H1

Vertical Diffuse Angle(10%,50%,75%,100%): V155,V98.3,V63.9,V0

Luminous Efficacy (lm/w): 17.68

C0r0 Intensity: 276.77 cd

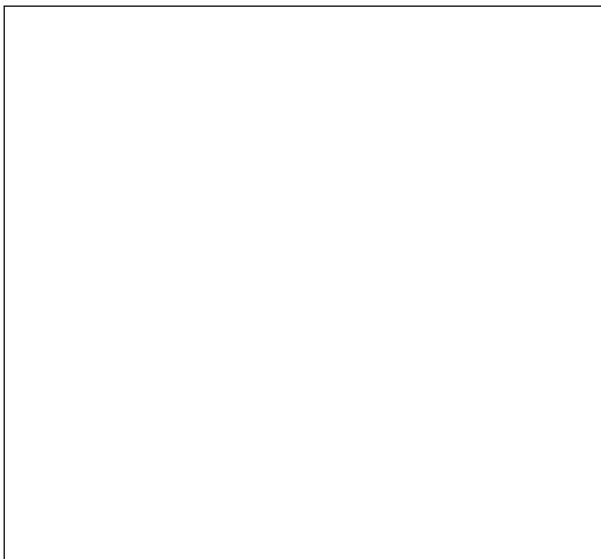
Max. Intensity: 276.87 cd

Pos of Max. Intensity: H120 V1

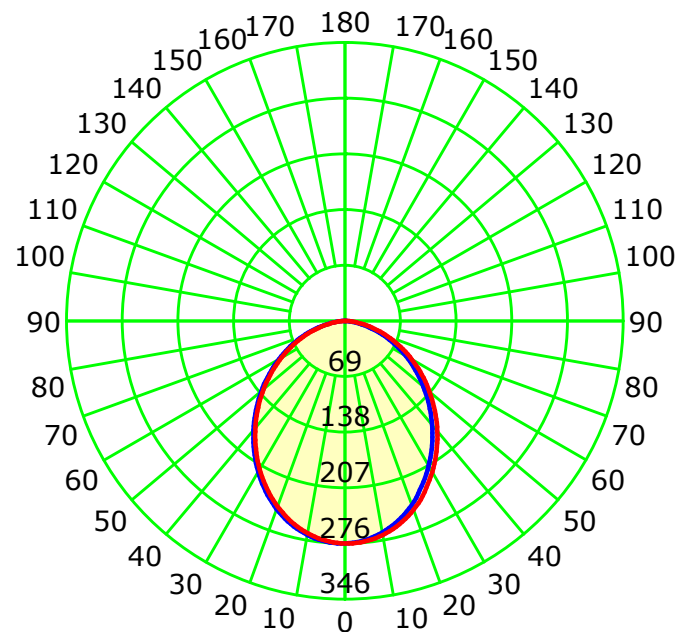
S/MH(C0/C180): 1.15

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 97.5°

— 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

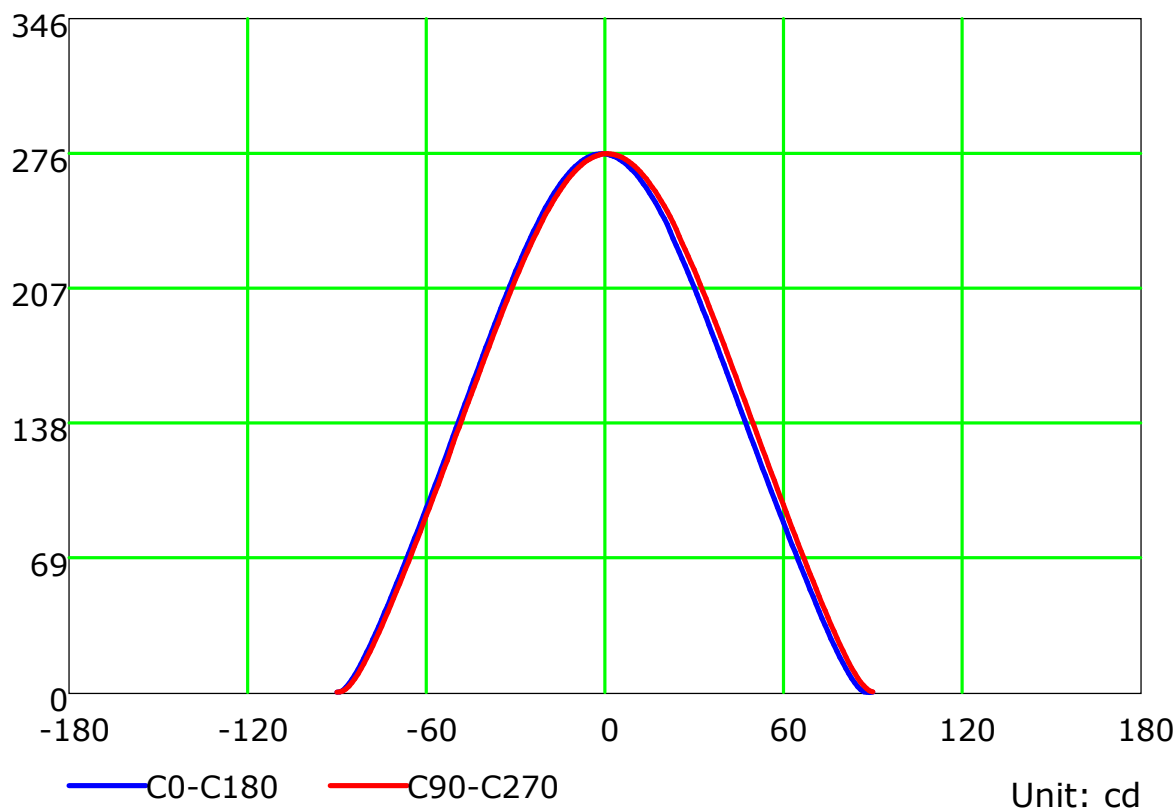
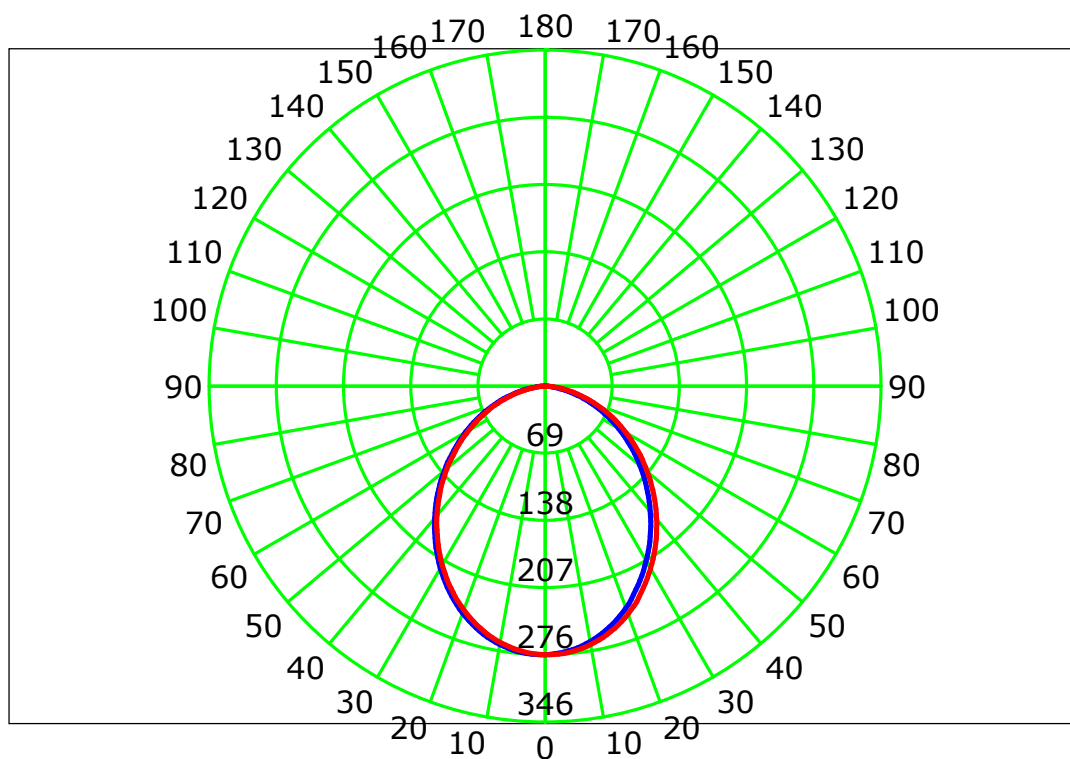
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

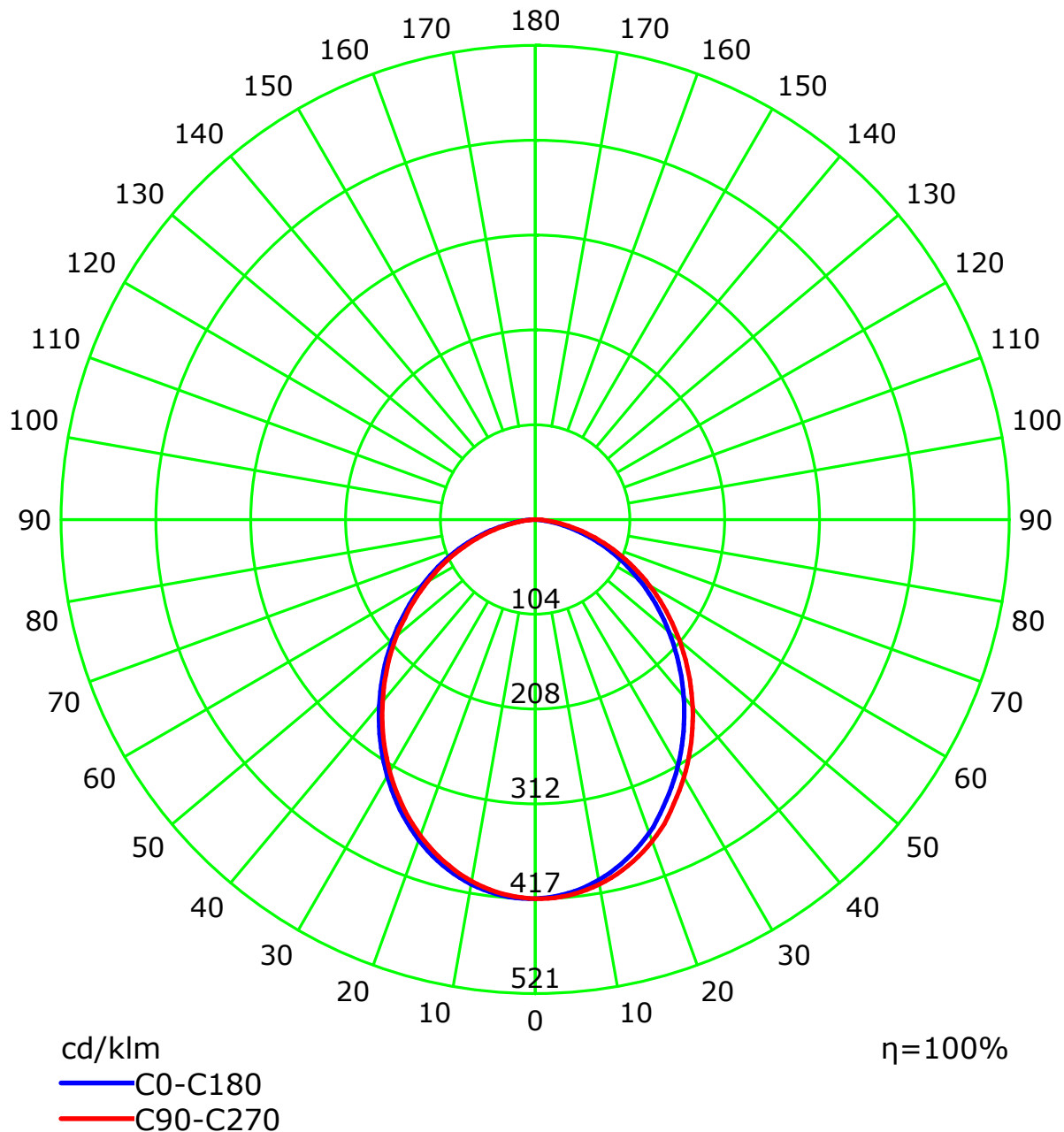
Luminous Intensity Distribution Curve



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)



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:

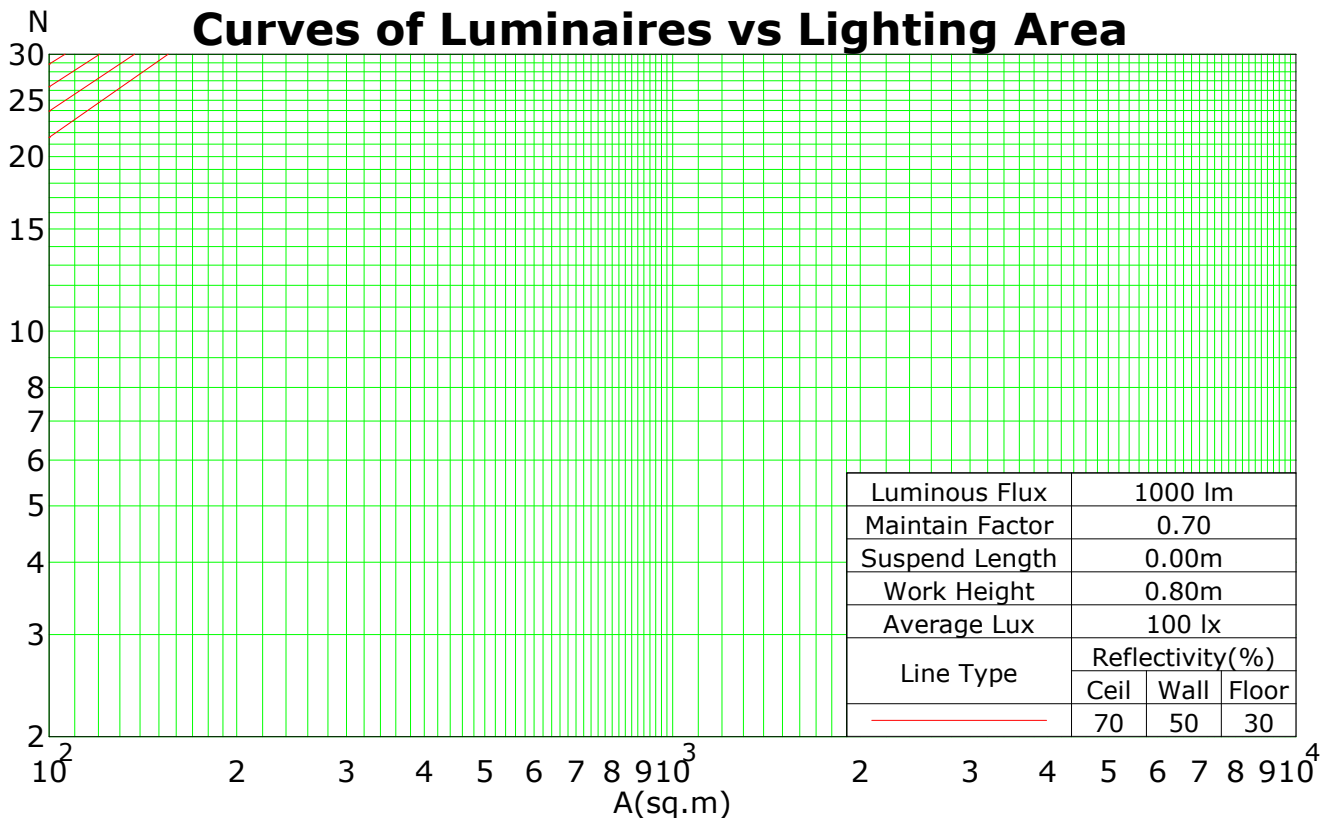
Coefficients Of Utilization - Zonal Cavity Method

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	1.09	1.05	1.01	0.97	1.07	1.03	0.99	0.96	0.99	0.96	0.93	0.95	0.92	0.90	0.91	0.89	0.87	0.85
2	1.00	0.92	0.86	0.80	0.97	0.90	0.84	0.79	0.87	0.82	0.77	0.84	0.79	0.76	0.81	0.77	0.74	0.72
3	0.92	0.81	0.74	0.67	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.64	0.72	0.67	0.63	0.61
4	0.84	0.73	0.64	0.58	0.82	0.71	0.63	0.57	0.69	0.62	0.56	0.66	0.60	0.56	0.64	0.59	0.55	0.53
5	0.78	0.65	0.56	0.50	0.75	0.64	0.56	0.50	0.62	0.55	0.49	0.60	0.54	0.49	0.58	0.53	0.48	0.46
6	0.72	0.59	0.50	0.44	0.70	0.58	0.50	0.44	0.56	0.49	0.43	0.54	0.48	0.43	0.53	0.47	0.43	0.41
7	0.67	0.54	0.45	0.39	0.65	0.53	0.45	0.39	0.51	0.44	0.39	0.50	0.43	0.38	0.48	0.43	0.38	0.36
8	0.62	0.49	0.41	0.35	0.61	0.48	0.40	0.35	0.47	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
9	0.58	0.45	0.37	0.32	0.57	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.29
10	0.55	0.42	0.34	0.29	0.53	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.38	0.33	0.28	0.27

Spacing Criteria (0-180): 1.15

Spacing Criteria (90-270): 1.16

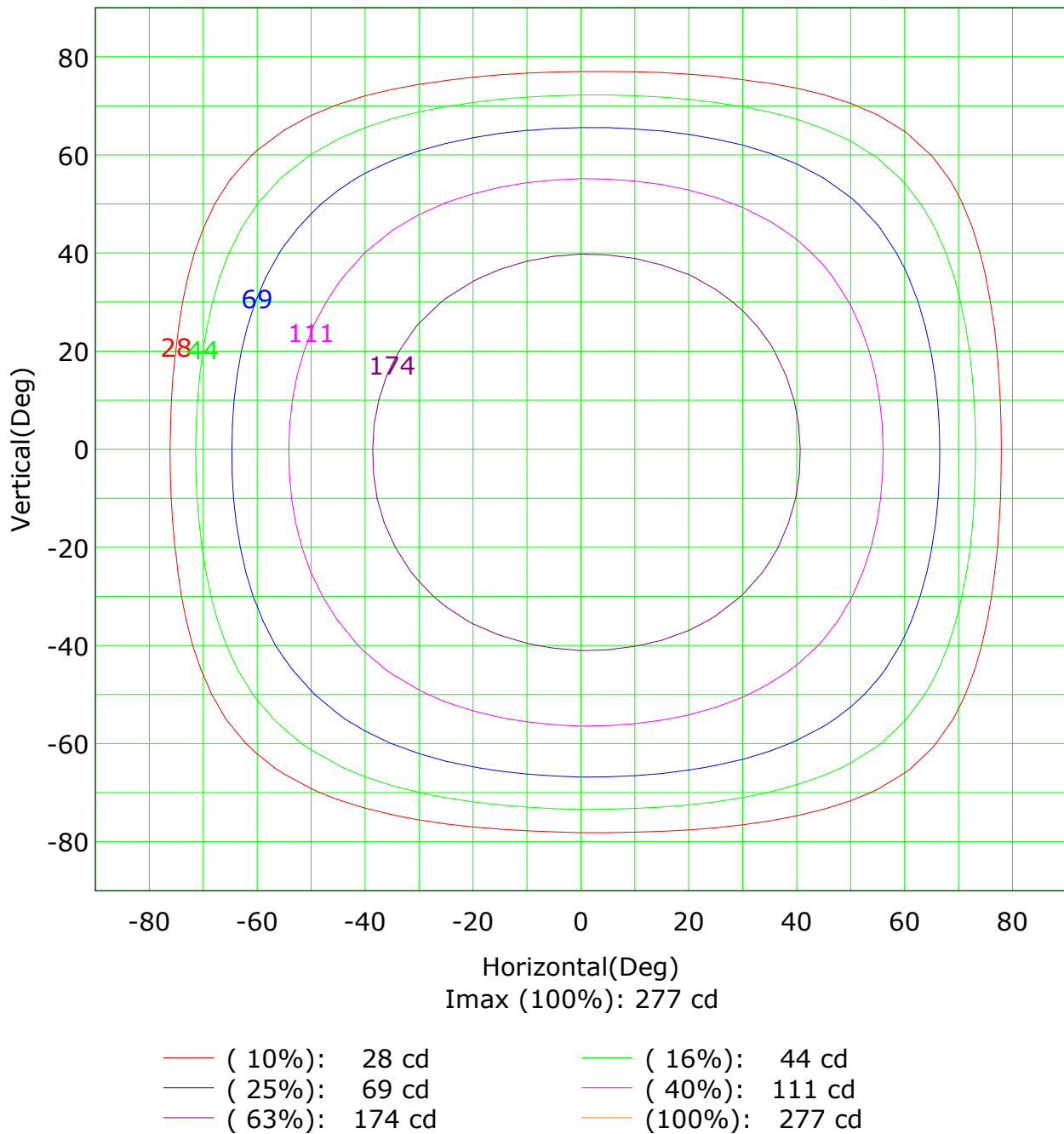
Spacing Criteria (Diagonal): 1.27



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:

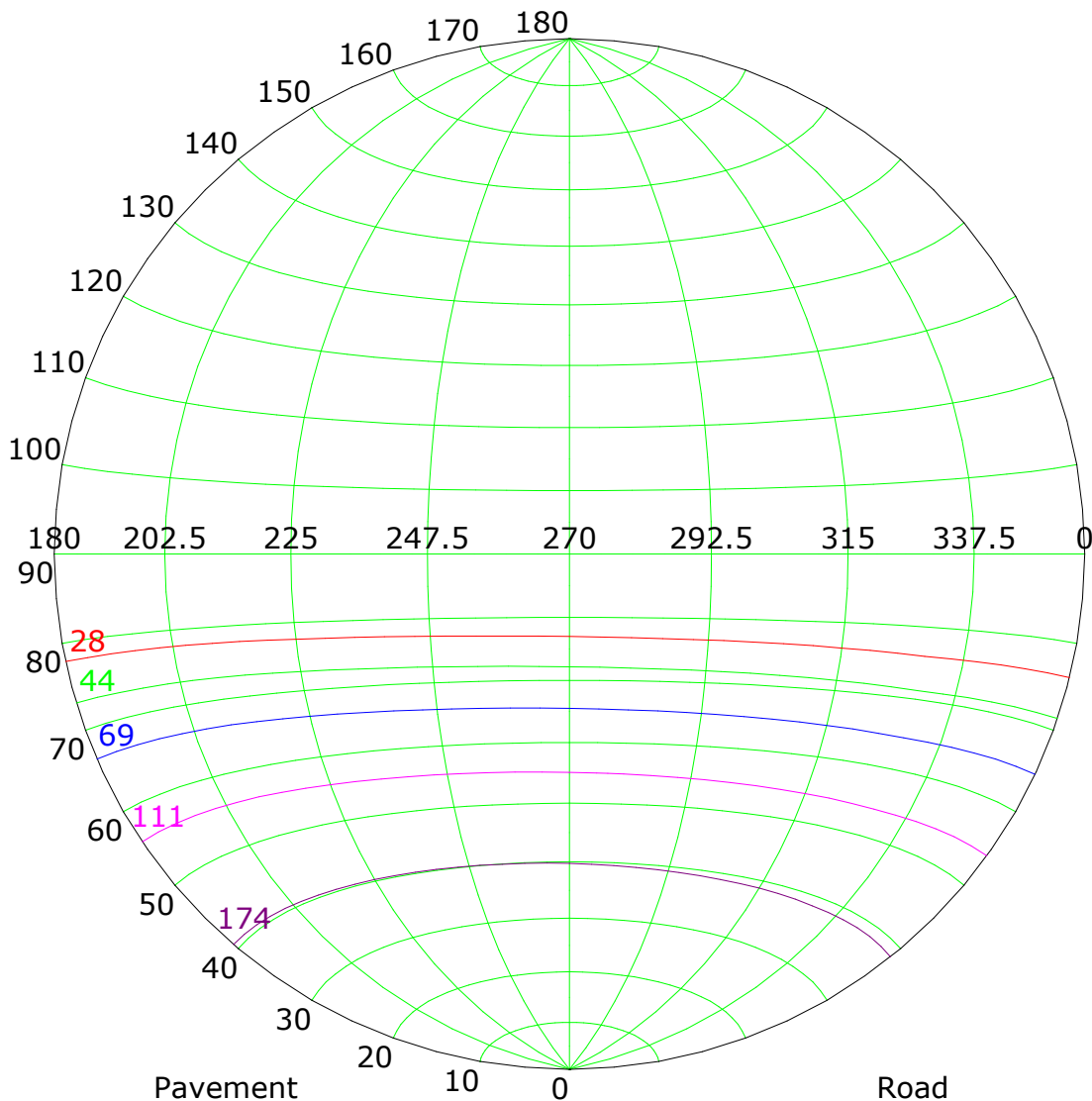
Isocandela (rectangle)



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%): 277 cd

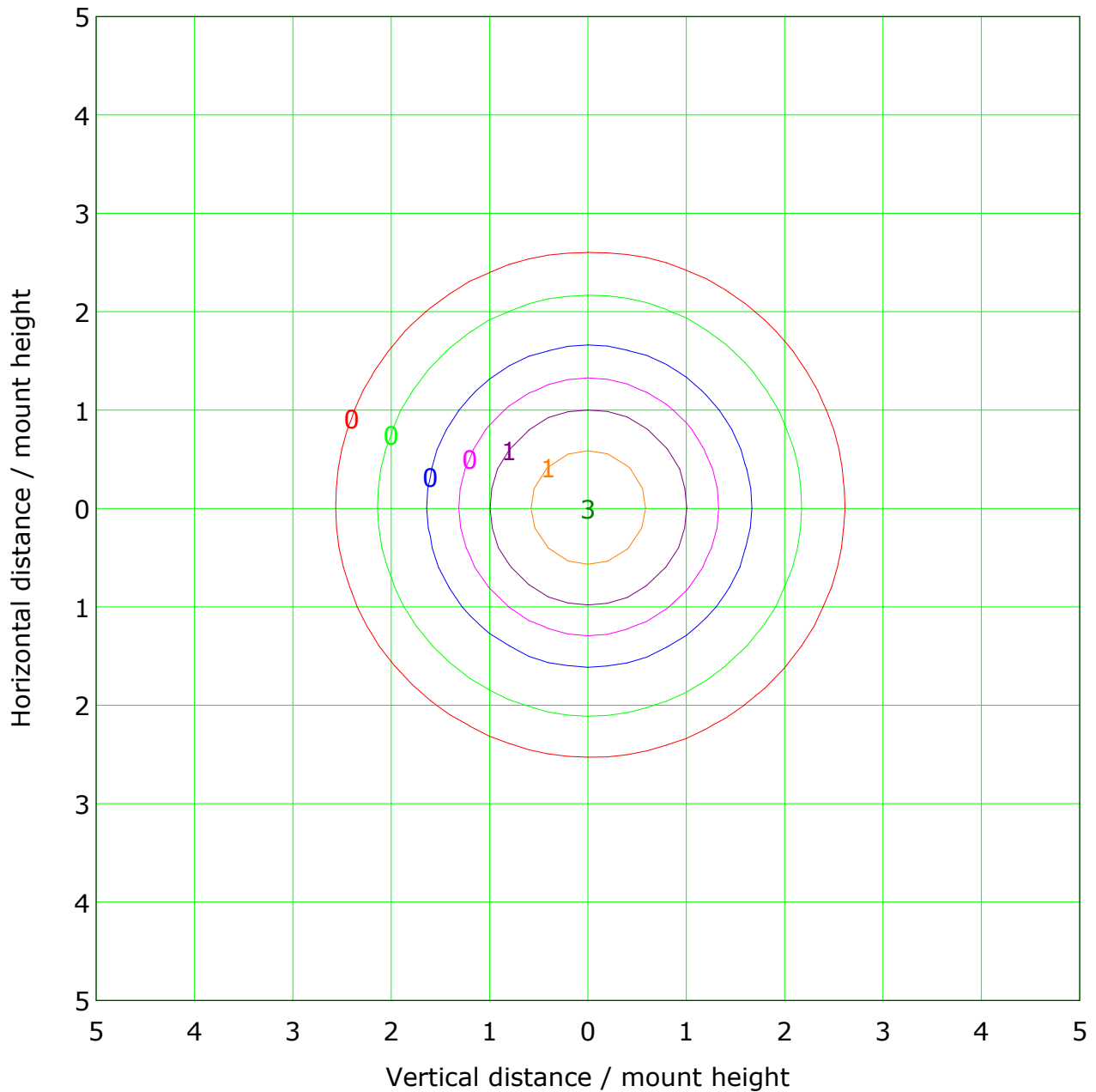
(10%): 28 cd
(25%): 69 cd
(63%): 174 cd

(16%): 44 cd
(40%): 111 cd
(100%): 277 cd

CIE: narrow - short
CIE: Semi-cut-off luminaire
Max.At90: 0.615 cd/klm

IES: Cut-off
Max.At80: 33.866 cd/klm
Max.80-90: 33.866 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.8 lx

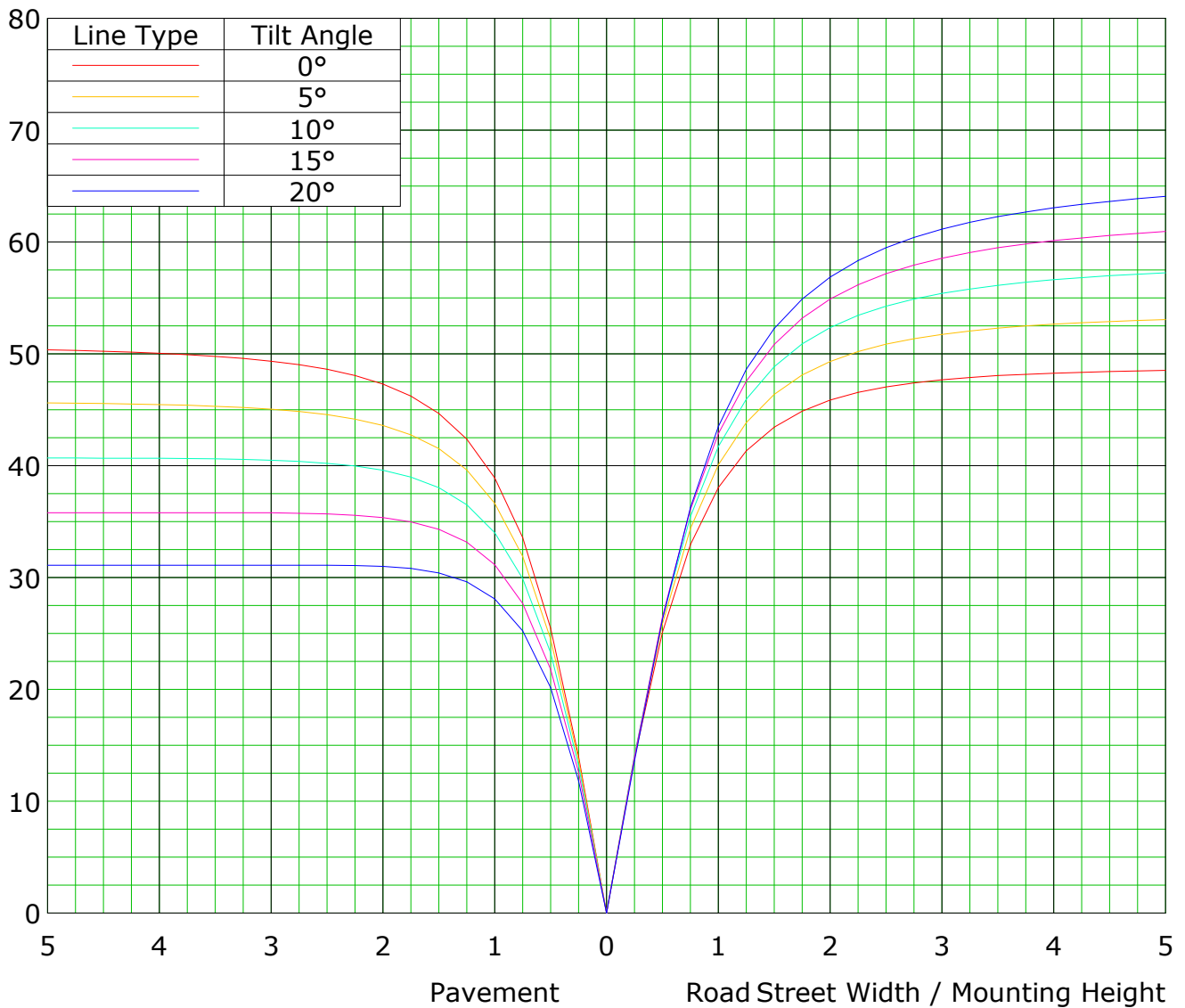
(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.1 lx	(10%): 0.3 lx
(20%): 0.6 lx	(50%): 1.4 lx
(100%): 2.8 lx	

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(%)



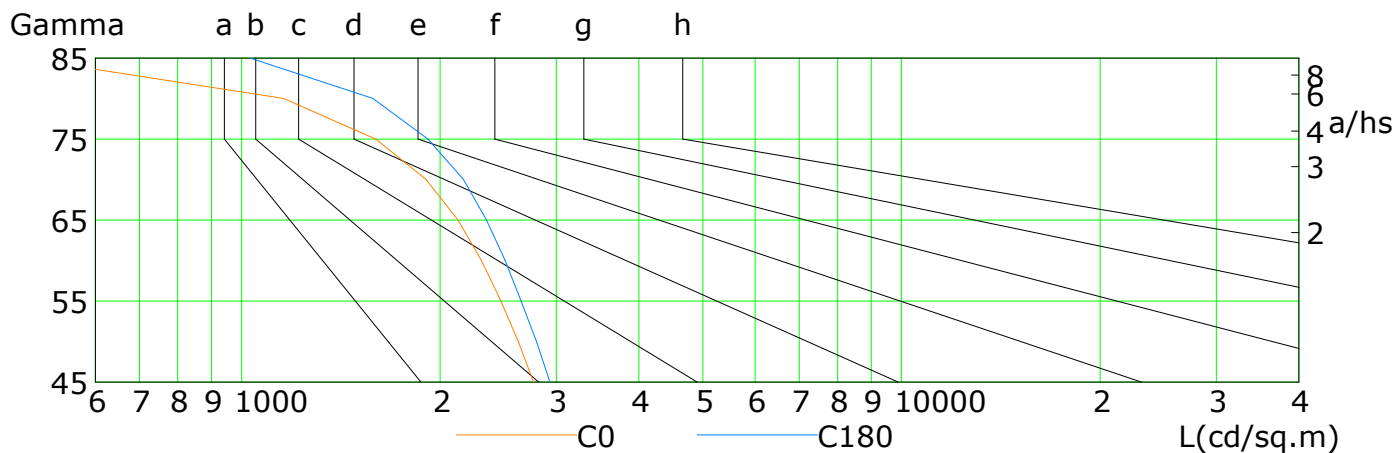
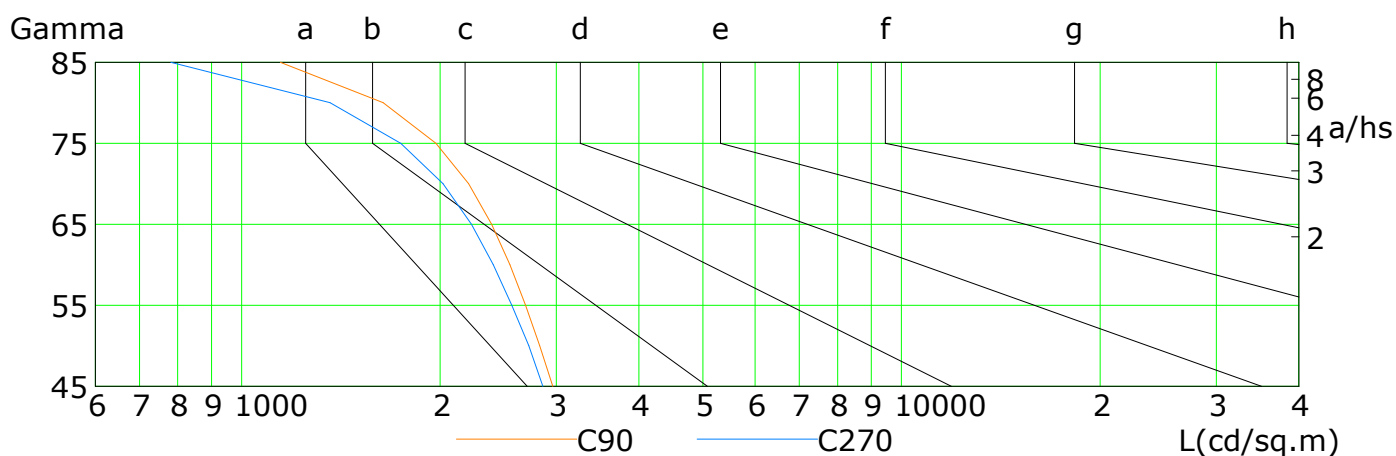
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

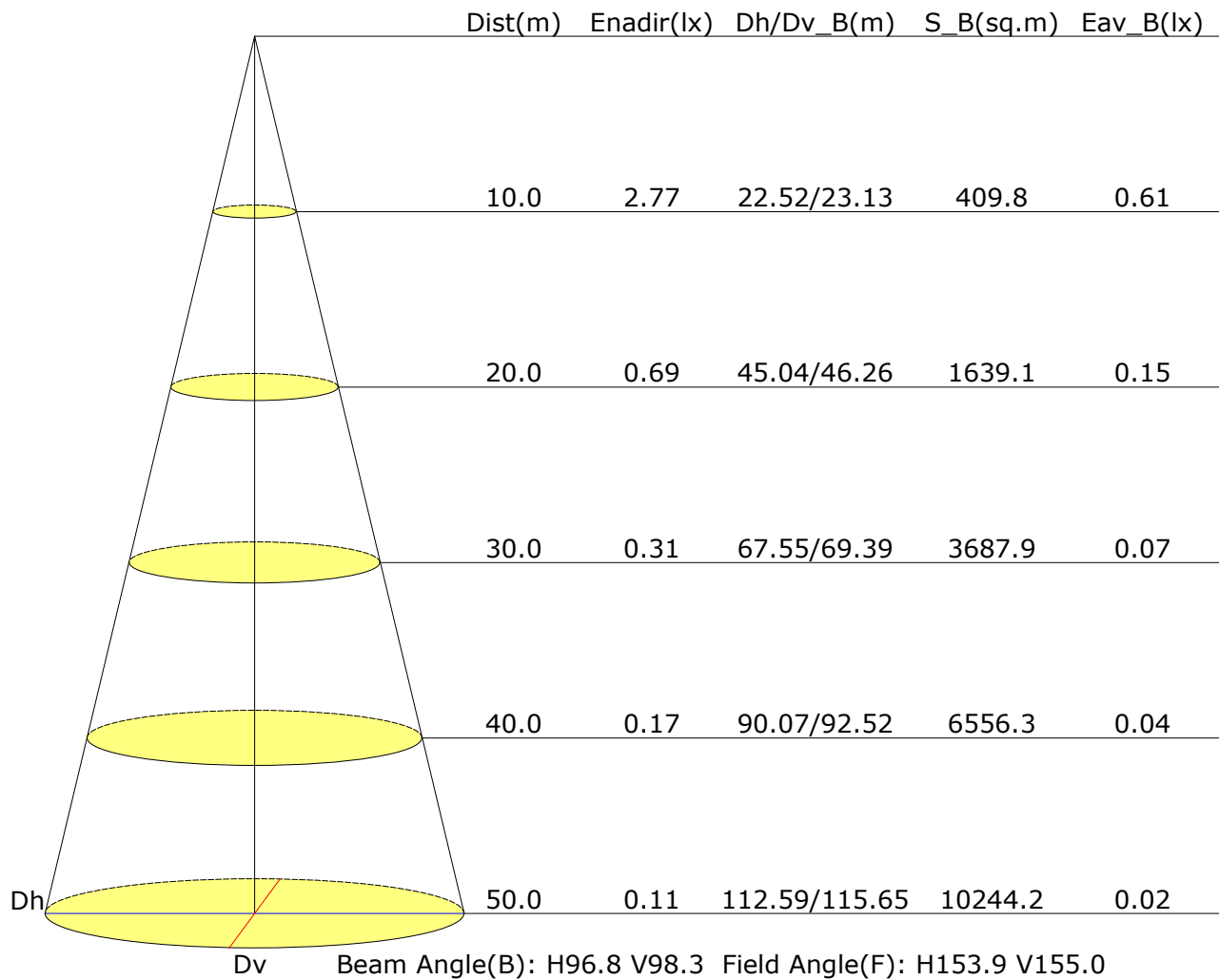


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2771	2625	2473	2310	2128	1903	1598	1157	469
C90	2962	2831	2694	2550	2392	2208	1971	1639	1144
C180	2932	2798	2651	2509	2352	2168	1917	1581	1030
C270	2861	2724	2566	2406	2229	2019	1743	1361	781

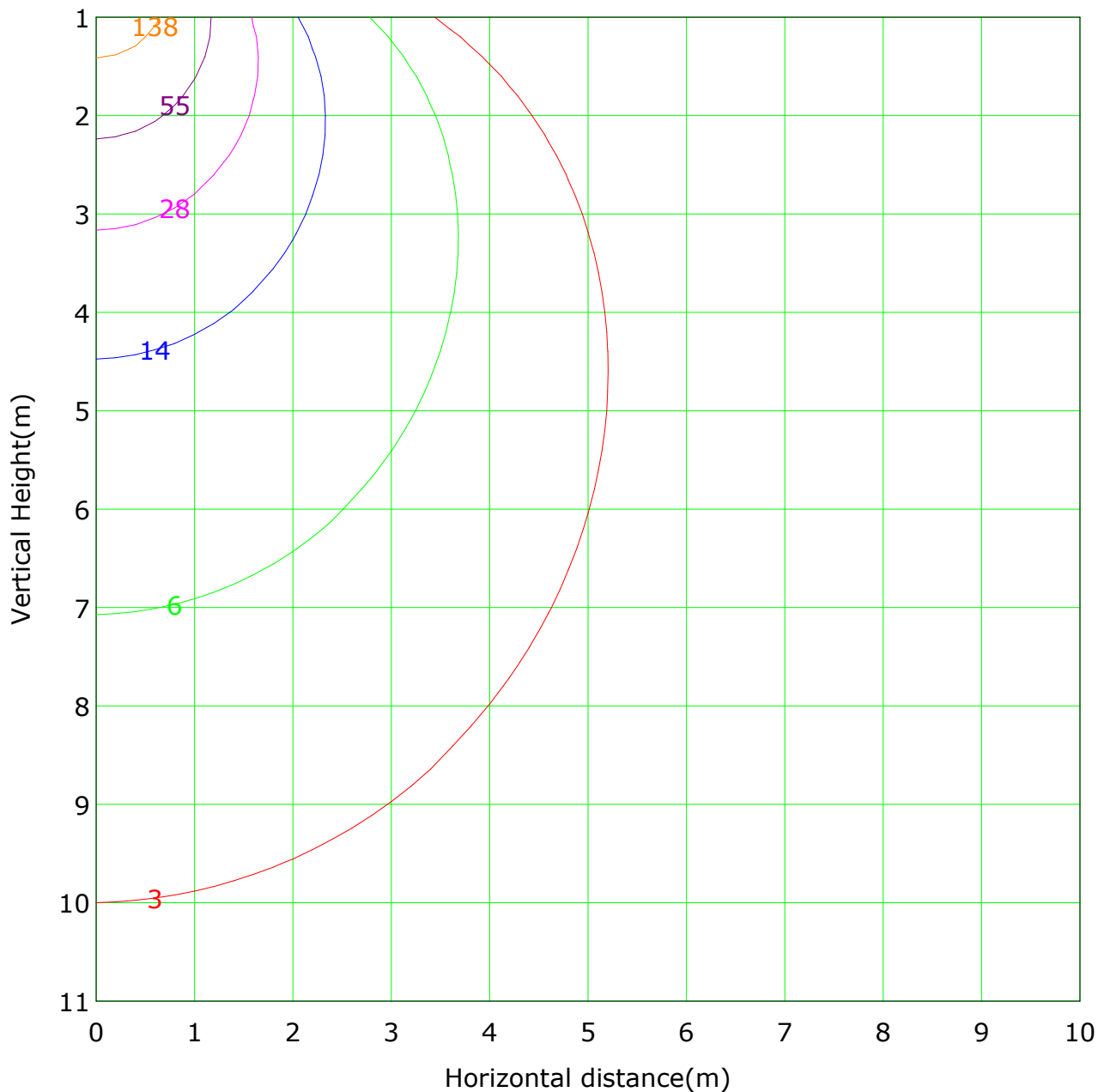
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

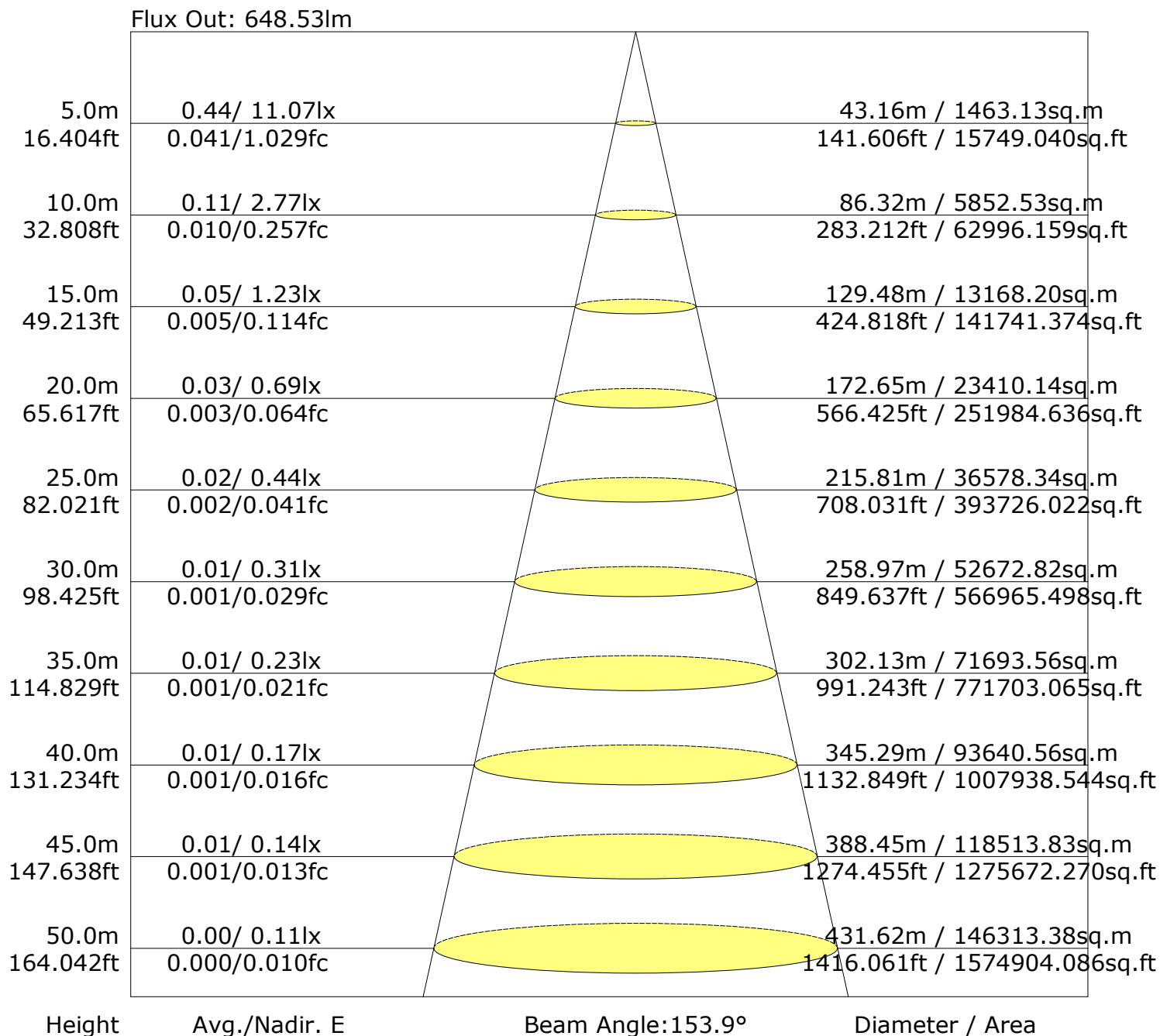


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 276.8 lx

— (1%): 2.8 lx	— (2%): 5.5 lx
— (5%): 13.8 lx	— (10%): 27.7 lx
— (20%): 55.4 lx	— (50%): 138.4 lx
— (100%): 276.8 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	14.9	16.5	15.2	16.8	17.1	15.4	17.0	15.8	17.3	17.7
3H	16.4	17.8	16.8	18.2	18.5	17.1	18.5	17.5	18.9	19.2
4H	16.9	18.2	17.3	18.6	19.0	17.7	19.0	18.1	19.4	19.8
6H	17.2	18.4	17.6	18.8	19.2	18.1	19.3	18.5	19.7	20.1
8H	17.2	18.4	17.6	18.8	19.2	18.2	19.4	18.6	19.8	20.2
12H	17.2	18.3	17.6	18.7	19.1	18.2	19.4	18.7	19.7	20.2
X=4H Y=2H	15.5	16.8	15.9	17.1	17.5	16.0	17.3	16.4	17.7	18.1
3H	17.2	18.3	17.6	18.7	19.1	17.9	19.0	18.3	19.4	19.8
4H	17.8	18.8	18.2	19.2	19.6	18.6	19.6	19.0	20.0	20.4
6H	18.1	19.0	18.6	19.5	19.9	19.1	20.0	19.5	20.4	20.9
8H	18.2	19.0	18.7	19.5	19.9	19.2	20.0	19.7	20.5	21.0
12H	18.2	18.9	18.7	19.4	19.9	19.3	20.0	19.8	20.5	21.0
X=8H Y=4H	18.0	18.8	18.5	19.3	19.8	18.8	19.6	19.3	20.1	20.6
6H	18.4	19.1	18.9	19.6	20.1	19.4	20.1	19.9	20.6	21.1
8H	18.5	19.1	19.1	19.7	20.1	19.6	20.2	20.1	20.7	21.2
12H	18.6	19.1	19.1	19.6	20.2	19.7	20.3	20.3	20.8	21.3
X=12H Y=4H	18.0	18.8	18.5	19.2	19.7	18.8	19.6	19.3	20.0	20.5
6H	18.5	19.1	19.0	19.5	20.1	19.5	20.1	20.0	20.5	21.1
8H	18.6	19.1	19.1	19.6	20.2	19.7	20.2	20.2	20.7	21.3

Calculate in accordance with CIE 190:2010 The table is revised with 664lm ($8\log(F/F_0) = -1.4$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

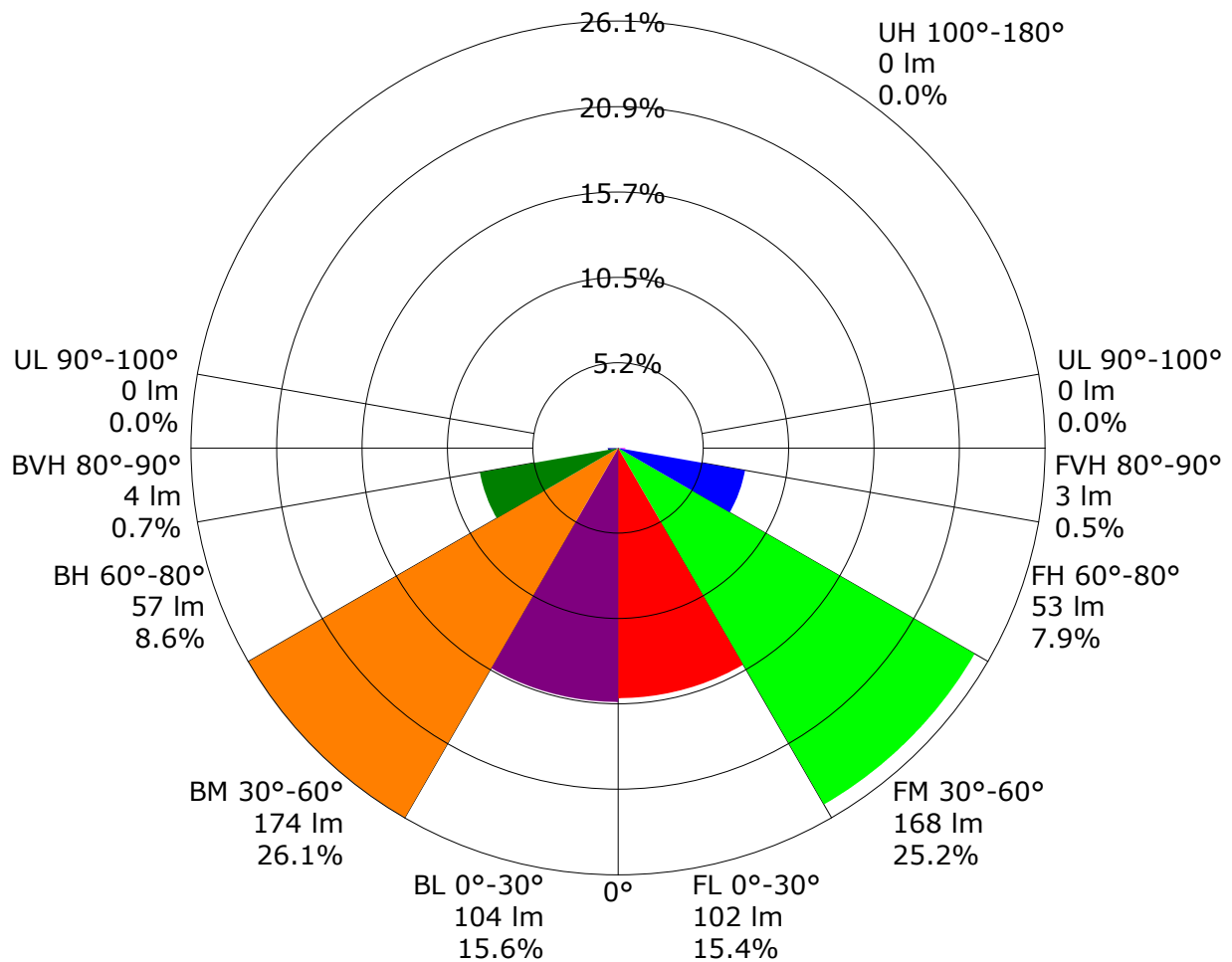
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	325	49.0
	FL (0°-30°)	102	15.4
	FM (30°-60°)	168	25.2
	FH (60°-80°)	53	7.9
	FVH (80°-90°)	3	0.5
	BACK LIGHT	339	51.0
	BL (0°-30°)	104	15.6
	BM (30°-60°)	174	26.1
	BH (60°-80°)	57	8.6
	BVH (80°-90°)	4	0.7
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

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 = 1.25									
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	0.60	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.05	
	0.30		0.52	0.63	0.70	0.76	0.84	0.89	0.93	0.98	1.01	
	0.20		0.47	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.91	0.94	0.98	1.00	
	0.30		0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.20		0.47	0.57	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.57	0.66	0.73	0.77	0.83	0.88	0.90	0.94	0.96	
	0.30		0.51	0.61	0.67	0.72	0.79	0.84	0.87	0.92	0.94	
	0.20		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.44	0.54	0.60	0.65	0.72	0.77	0.80	0.85	0.88	
<p>Rating:38W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
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	0.95	0.78	0.66	0.57	0.45	0.38	0.32	0.25	0.20	
	0.30		0.79	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.77	0.65	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.89	0.72	0.61	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.63	0.54	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.66	0.56	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.46	0.40	0.35	0.28	0.23	0.20	0.15	0.13	
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 = 1.25									
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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.19	0.20	0.20	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	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<p>Rating:38W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	276.7	0.3	0.3	0.04	0.04
1.0-2.0	276.6	0.8	1.1	0.12	0.16
2.0-3.0	276.2	1.3	2.4	0.20	0.36
3.0-4.0	275.8	1.8	4.2	0.28	0.64
4.0-5.0	275.1	2.4	6.6	0.36	0.99
5.0-6.0	274.3	2.9	9.5	0.43	1.43
6.0-7.0	273.4	3.4	12.9	0.51	1.94
7.0-8.0	272.3	3.9	16.8	0.59	2.53
8.0-9.0	271.1	4.4	21.2	0.66	3.19
9.0-10.0	269.7	4.9	26.0	0.74	3.92
10.0-11.0	268.1	5.4	31.4	0.81	4.73
11.0-12.0	266.5	5.8	37.2	0.88	5.61
12.0-13.0	264.7	6.3	43.5	0.95	6.55
13.0-14.0	262.7	6.7	50.2	1.01	7.57
14.0-15.0	260.6	7.2	57.4	1.08	8.64
15.0-16.0	258.4	7.6	65.0	1.14	9.78
16.0-17.0	256.0	8.0	72.9	1.20	10.99
17.0-18.0	253.6	8.4	81.3	1.26	12.25
18.0-19.0	251.0	8.7	90.0	1.32	13.56
19.0-20.0	248.3	9.1	99.1	1.37	14.93
20.0-21.0	245.5	9.4	108.5	1.42	16.35
21.0-22.0	242.5	9.7	118.3	1.47	17.82
22.0-23.0	239.5	10.0	128.3	1.51	19.33
23.0-24.0	236.2	10.3	138.7	1.56	20.89
24.0-25.0	232.8	10.6	149.3	1.59	22.48
25.0-26.0	229.4	10.8	160.1	1.63	24.11
26.0-27.0	226.0	11.1	171.1	1.67	25.78
27.0-28.0	222.5	11.3	182.4	1.70	27.48
28.0-29.0	218.9	11.5	193.9	1.73	29.20
29.0-30.0	215.4	11.6	205.5	1.75	30.95
30.0-31.0	211.7	11.8	217.3	1.77	32.73
31.0-32.0	208.0	11.9	229.2	1.79	34.52
32.0-33.0	204.2	12.0	241.2	1.81	36.34
33.0-34.0	200.4	12.1	253.4	1.83	38.16
34.0-35.0	196.5	12.2	265.6	1.84	40.00
35.0-36.0	192.6	12.3	277.8	1.85	41.85

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	188.6	12.3	290.1	1.85	43.70
37.0-38.0	184.6	12.3	302.5	1.86	45.56
38.0-39.0	180.6	12.3	314.8	1.86	47.41
39.0-40.0	176.6	12.3	327.1	1.86	49.27
40.0-41.0	172.5	12.3	339.4	1.85	51.12
41.0-42.0	168.4	12.2	351.6	1.84	52.96
42.0-43.0	164.3	12.2	363.8	1.83	54.80
43.0-44.0	160.2	12.1	375.9	1.82	56.62
44.0-45.0	156.1	12.0	387.9	1.81	58.42
45.0-46.0	151.9	11.9	399.8	1.79	60.21
46.0-47.0	147.8	11.8	411.5	1.77	61.99
47.0-48.0	143.7	11.6	423.1	1.75	63.74
48.0-49.0	139.5	11.5	434.6	1.73	65.46
49.0-50.0	135.4	11.3	445.9	1.70	67.16
50.0-51.0	131.2	11.1	457.0	1.67	68.83
51.0-52.0	127.0	10.9	467.9	1.64	70.48
52.0-53.0	122.8	10.7	478.6	1.61	72.09
53.0-54.0	118.7	10.5	489.0	1.58	73.66
54.0-55.0	114.6	10.2	499.3	1.54	75.20
55.0-56.0	110.5	10.0	509.3	1.50	76.71
56.0-57.0	106.4	9.7	519.0	1.47	78.17
57.0-58.0	102.4	9.5	528.5	1.43	79.60
58.0-59.0	98.4	9.2	537.7	1.39	80.98
59.0-60.0	94.4	8.9	546.6	1.34	82.33
60.0-61.0	90.4	8.6	555.2	1.30	83.63
61.0-62.0	86.5	8.3	563.5	1.26	84.88
62.0-63.0	82.5	8.0	571.6	1.21	86.09
63.0-64.0	78.6	7.7	579.3	1.16	87.25
64.0-65.0	74.7	7.4	586.7	1.11	88.37
65.0-66.0	70.8	7.1	593.7	1.06	89.43
66.0-67.0	67.0	6.7	600.5	1.01	90.45
67.0-68.0	63.1	6.4	606.9	0.96	91.41
68.0-69.0	59.3	6.1	612.9	0.91	92.32
69.0-70.0	55.6	5.7	618.6	0.86	93.18
70.0-71.0	51.8	5.4	624.0	0.81	93.99
71.0-72.0	48.1	5.0	629.0	0.75	94.74

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°): 387.88 lm

%lum = 58.4%

%lamp = 58.4%

cone flux(120°): 546.58 lm

%lum = 82.3%

%lamp = 82.3%

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	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8
G1.0	276.5	276.6	276.7	276.8	276.9	276.9	276.8	276.8	276.7
G2.0	276.0	276.3	276.6	276.7	276.9	276.9	276.7	276.7	276.4
G3.0	275.5	275.7	276.1	276.4	276.7	276.7	276.4	276.4	276.0
G4.0	274.8	275.1	275.7	276.0	276.2	276.3	276.1	275.9	275.4
G5.0	273.9	274.2	275.0	275.4	275.7	275.8	275.4	275.3	274.7
G6.0	272.8	273.2	274.1	274.7	275.0	275.2	274.8	274.6	273.9
G7.0	271.7	272.1	273.1	273.8	274.2	274.4	273.9	273.6	272.8
G8.0	270.3	270.8	272.1	272.8	273.2	273.4	272.8	272.6	271.6
G9.0	268.8	269.4	270.9	271.7	272.0	272.3	271.6	271.3	270.3
G10.0	267.2	267.7	269.4	270.4	270.8	271.0	270.3	269.9	268.9
G11.0	265.4	266.1	267.7	268.9	269.4	269.5	268.7	268.4	267.2
G12.0	263.5	264.2	266.1	267.3	267.8	268.0	267.1	266.8	265.3
G13.0	261.4	262.1	264.3	265.6	266.1	266.3	265.3	264.9	263.5
G14.0	259.2	260.0	262.3	263.7	264.2	264.4	263.4	262.9	261.6
G15.0	256.8	257.8	260.0	261.7	262.2	262.4	261.3	260.8	259.4
G16.0	254.5	255.3	257.8	259.6	260.0	260.3	259.1	258.7	257.0
G17.0	251.8	252.9	255.6	257.3	257.9	258.0	256.7	256.3	254.6
G18.0	249.1	250.1	253.2	254.9	255.5	255.6	254.2	253.8	252.2
G19.0	246.3	247.4	250.4	252.5	253.0	253.1	251.6	251.2	249.6
G20.0	243.4	244.6	247.6	249.8	250.4	250.5	248.9	248.5	246.7
G21.0	240.4	241.6	245.1	247.1	247.7	247.7	246.1	245.7	243.8
G22.0	236.8	238.5	242.2	244.3	244.8	244.9	243.1	242.8	240.9
G23.0	233.2	235.3	239.2	241.4	241.9	241.9	240.0	239.8	238.0
G24.0	229.6	232.1	235.4	237.9	238.8	239.0	236.9	235.9	234.7
G25.0	226.3	228.7	231.6	234.4	235.7	235.2	233.7	231.9	231.3
G26.0	222.8	225.3	228.4	230.9	232.5	231.4	230.4	229.0	228.2
G27.0	219.3	221.8	224.9	227.5	229.2	228.0	227.0	225.5	224.9
G28.0	215.6	218.2	221.3	224.1	225.7	224.6	223.5	222.1	221.1
G29.0	212.0	214.6	217.9	220.7	222.3	221.1	219.9	218.5	217.4
G30.0	208.3	210.8	214.3	217.2	218.7	217.5	216.4	215.0	214.1
G31.0	204.5	207.1	210.6	213.6	215.0	213.9	212.5	211.3	210.5
G32.0	200.6	203.3	206.9	209.9	211.4	210.2	208.8	207.5	206.5
G33.0	196.8	199.4	203.2	206.2	207.7	206.4	205.0	203.8	202.6
G34.0	192.9	195.5	199.3	202.4	203.8	202.6	201.2	199.9	199.0
G35.0	188.9	191.6	195.4	198.6	200.1	198.8	197.4	196.0	195.2

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	184.8	187.5	191.5	194.7	196.1	194.9	193.4	192.1	191.0
G37.0	180.8	183.5	187.5	190.7	192.1	190.9	189.4	188.1	186.8
G38.0	176.8	179.5	183.6	186.8	188.2	186.9	185.4	184.1	183.0
G39.0	172.8	175.4	179.6	182.9	184.2	183.0	181.3	180.1	179.3
G40.0	168.6	171.3	175.5	178.8	180.1	178.8	177.2	176.0	175.1
G41.0	164.6	167.2	171.5	174.7	176.0	174.8	173.2	171.9	170.8
G42.0	160.5	163.2	167.5	170.7	172.0	170.7	169.0	167.9	166.7
G43.0	156.4	159.0	163.3	166.6	168.0	166.6	165.0	163.8	162.8
G44.0	152.2	154.8	159.2	162.5	163.7	162.5	160.9	159.7	158.9
G45.0	148.1	150.6	155.1	158.3	159.6	158.3	156.7	155.5	154.4
G46.0	144.1	146.6	150.9	154.1	155.5	154.2	152.6	151.4	150.1
G47.0	139.8	142.6	146.8	150.0	151.3	150.1	148.4	147.2	146.2
G48.0	135.8	138.2	142.7	146.0	147.1	146.0	144.2	143.2	142.2
G49.0	131.6	133.9	138.5	141.7	143.1	141.7	140.2	139.0	137.8
G50.0	127.5	130.1	134.4	137.6	138.8	137.6	136.0	134.8	133.7
G51.0	123.5	125.6	130.3	133.4	134.7	133.5	131.8	130.7	129.8
G52.0	119.4	121.0	126.1	129.2	130.5	129.3	127.7	126.6	125.3
G53.0	115.3	117.0	122.0	125.1	126.0	125.3	123.3	122.5	120.7
G54.0	111.3	113.3	117.9	121.0	121.5	121.2	118.9	118.5	116.8
G55.0	107.2	109.1	113.8	116.8	117.5	117.0	114.9	114.3	112.8
G56.0	103.3	104.9	109.7	112.8	113.4	113.0	110.8	110.3	108.5
G57.0	99.2	101.0	105.7	108.8	109.4	109.0	106.9	106.3	104.6
G58.0	95.3	97.3	101.6	104.6	105.2	104.8	102.8	102.1	100.6
G59.0	91.4	93.0	97.6	100.6	101.2	100.9	98.7	98.2	96.3
G60.0	87.3	89.0	93.5	96.4	97.2	96.7	94.8	94.1	92.5
G61.0	83.6	85.3	89.7	92.5	93.1	92.8	90.8	90.2	88.6
G62.0	79.6	81.3	85.5	88.4	89.2	88.8	86.9	86.2	84.5
G63.0	75.7	77.3	81.8	84.4	85.1	84.8	82.9	82.3	80.7
G64.0	72.0	73.7	77.9	80.4	81.2	81.0	79.1	78.4	76.7
G65.0	68.0	69.6	73.7	76.4	77.2	77.0	75.1	74.5	72.7
G66.0	64.3	65.8	70.1	72.6	73.4	73.2	71.4	70.7	69.0
G67.0	60.4	62.2	66.1	68.6	69.4	69.3	67.4	66.8	64.9
G68.0	56.7	58.3	62.4	64.7	65.5	65.6	63.6	63.0	61.2
G69.0	52.9	54.7	58.5	60.9	61.7	61.6	59.8	59.2	57.5
G70.0	49.2	50.8	54.7	57.1	57.9	57.8	56.1	55.4	53.7
G71.0	45.5	47.3	51.0	53.3	54.1	54.1	52.2	51.7	50.0

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	276.8	276.8	276.8	276.8					
G1.0	276.6	276.5	276.4	276.5					
G2.0	276.2	276.1	276.0	276.0					
G3.0	275.7	275.6	275.3	275.5					
G4.0	275.0	274.9	274.5	274.8					
G5.0	274.2	274.0	273.6	273.9					
G6.0	273.3	272.9	272.5	272.8					
G7.0	272.2	271.7	271.3	271.7					
G8.0	270.9	270.6	270.0	270.3					
G9.0	269.5	269.1	268.4	268.8					
G10.0	267.9	267.4	266.6	267.2					
G11.0	266.3	265.6	264.8	265.4					
G12.0	264.5	263.9	262.9	263.5					
G13.0	262.6	261.9	260.8	261.4					
G14.0	260.4	259.7	258.5	259.2					
G15.0	258.2	257.3	256.2	256.8					
G16.0	255.9	255.0	253.7	254.5					
G17.0	253.5	252.6	251.1	251.8					
G18.0	250.9	249.9	248.3	249.1					
G19.0	248.2	247.1	245.5	246.3					
G20.0	245.5	244.2	242.6	243.4					
G21.0	242.5	241.5	239.5	240.4					
G22.0	239.5	237.9	236.4	236.8					
G23.0	236.4	234.3	233.2	233.2					
G24.0	233.2	230.8	229.8	229.6					
G25.0	229.9	227.6	226.4	226.3					
G26.0	226.6	224.3	222.9	222.8					
G27.0	223.3	220.6	219.4	219.3					
G28.0	219.7	217.0	215.8	215.6					
G29.0	216.1	213.6	212.1	212.0					
G30.0	212.5	209.9	208.3	208.3					
G31.0	208.8	206.0	204.5	204.5					
G32.0	205.0	202.4	200.7	200.6					
G33.0	201.2	198.6	196.7	196.8					
G34.0	197.4	194.7	192.8	192.9					
G35.0	193.5	190.7	188.9	188.9					

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	189.5	186.8	184.9	184.8					
G37.0	185.5	182.7	180.8	180.8					
G38.0	181.6	178.7	176.8	176.8					
G39.0	177.6	174.7	172.7	172.8					
G40.0	173.4	170.6	168.6	168.6					
G41.0	169.4	166.5	164.6	164.6					
G42.0	165.3	162.6	160.5	160.5					
G43.0	161.2	158.4	156.3	156.4					
G44.0	157.0	154.3	152.1	152.2					
G45.0	152.9	150.2	148.0	148.1					
G46.0	149.0	146.1	144.0	144.1					
G47.0	144.7	141.9	139.8	139.8					
G48.0	140.5	137.8	135.6	135.8					
G49.0	136.4	133.6	131.4	131.6					
G50.0	132.4	129.5	127.6	127.5					
G51.0	128.2	125.5	123.1	123.5					
G52.0	123.7	121.3	118.6	119.4					
G53.0	119.2	117.3	114.4	115.3					
G54.0	115.3	113.2	110.5	111.3					
G55.0	111.3	109.1	106.7	107.2					
G56.0	107.0	105.2	102.5	103.3					
G57.0	103.0	101.1	98.4	99.2					
G58.0	99.1	97.0	94.5	95.3					
G59.0	95.0	93.2	90.7	91.4					
G60.0	91.0	89.0	86.6	87.3					
G61.0	87.0	85.2	82.8	83.6					
G62.0	83.0	81.2	78.9	79.6					
G63.0	79.1	77.2	75.0	75.7					
G64.0	75.2	73.5	71.2	72.0					
G65.0	71.2	69.4	67.3	68.0					
G66.0	67.4	65.7	63.5	64.3					
G67.0	63.6	61.8	59.8	60.4					
G68.0	59.8	58.1	56.1	56.7					
G69.0	56.0	54.3	52.4	52.9					
G70.0	52.2	50.6	48.6	49.2					
G71.0	48.5	46.9	45.0	45.5					

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	2239.78
L 0-180(75) av	1757.29
L 0-180(85) av	749.61
L 90-270(65) av	2310.60
L 90-270(75) av	1856.85
L 90-270(85) av	962.91
L 45(65) av	2274.86
L 45(75) av	1815.90
L 45(85) av	862.04

Standard: GB/T 29293-2012