

Report No.: MSTLAB250522003

Test Time: 2025-05-22

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: 37.56 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Measurement Flux: 3012.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H150.2,H100.6,H65.9,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V120.3,V75.6,V46.4,V0

Luminous Efficacy (lm/w): 80.22

C0r0 Intensity: 1633.41 cd

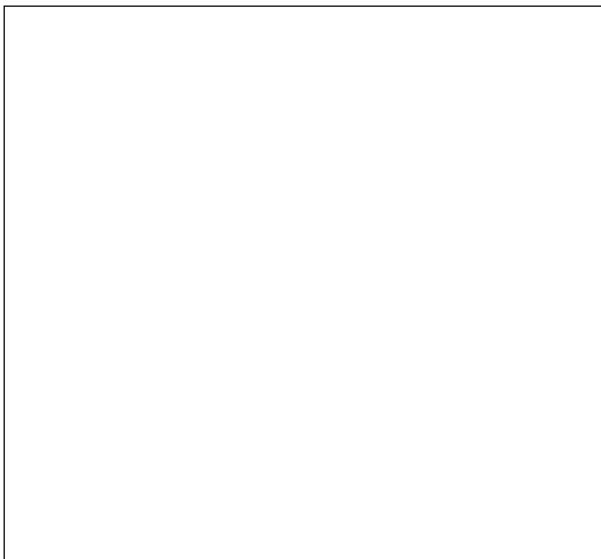
Max. Intensity: 1634.29 cd

Pos of Max. Intensity: H90 V1

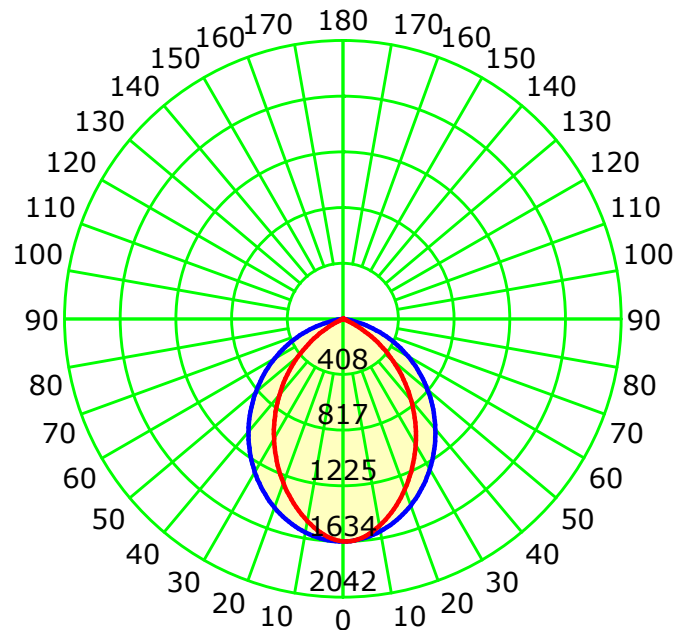
S/MH(C0/C180): 1.18

S/MH(C90/C270): 1.00

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 88.1°

— 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

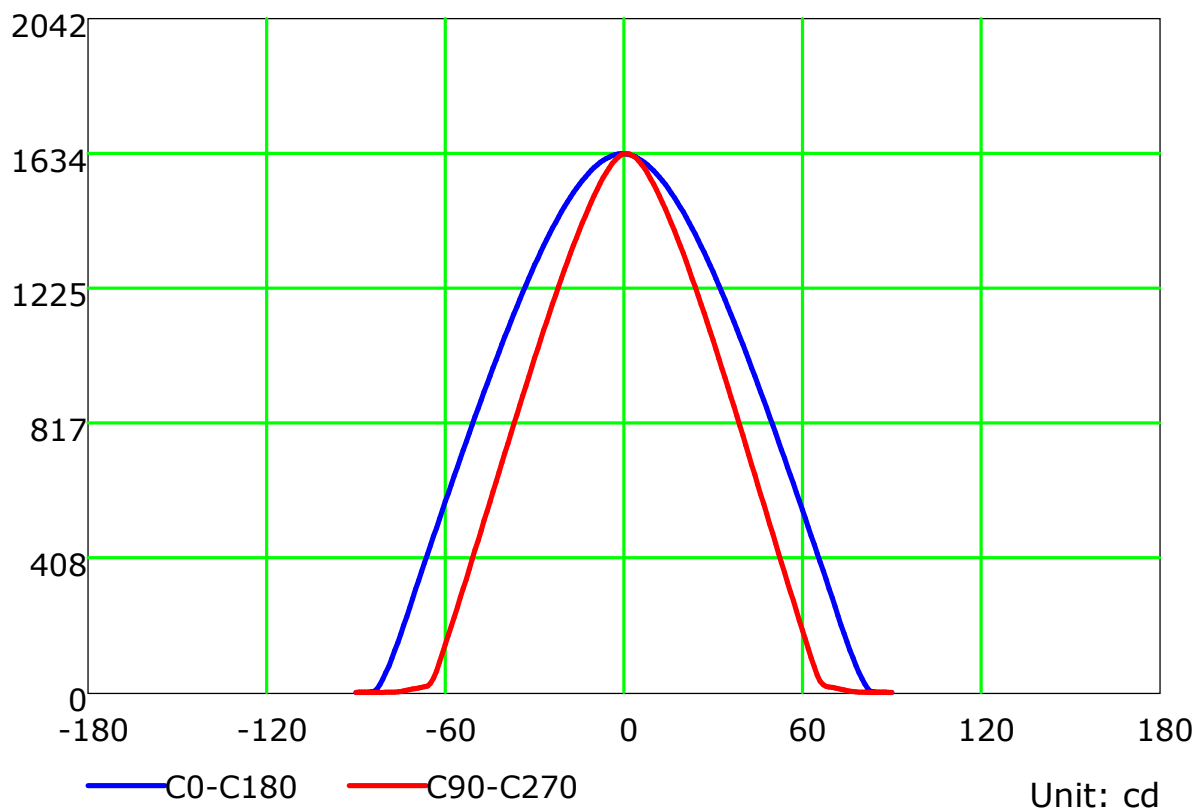
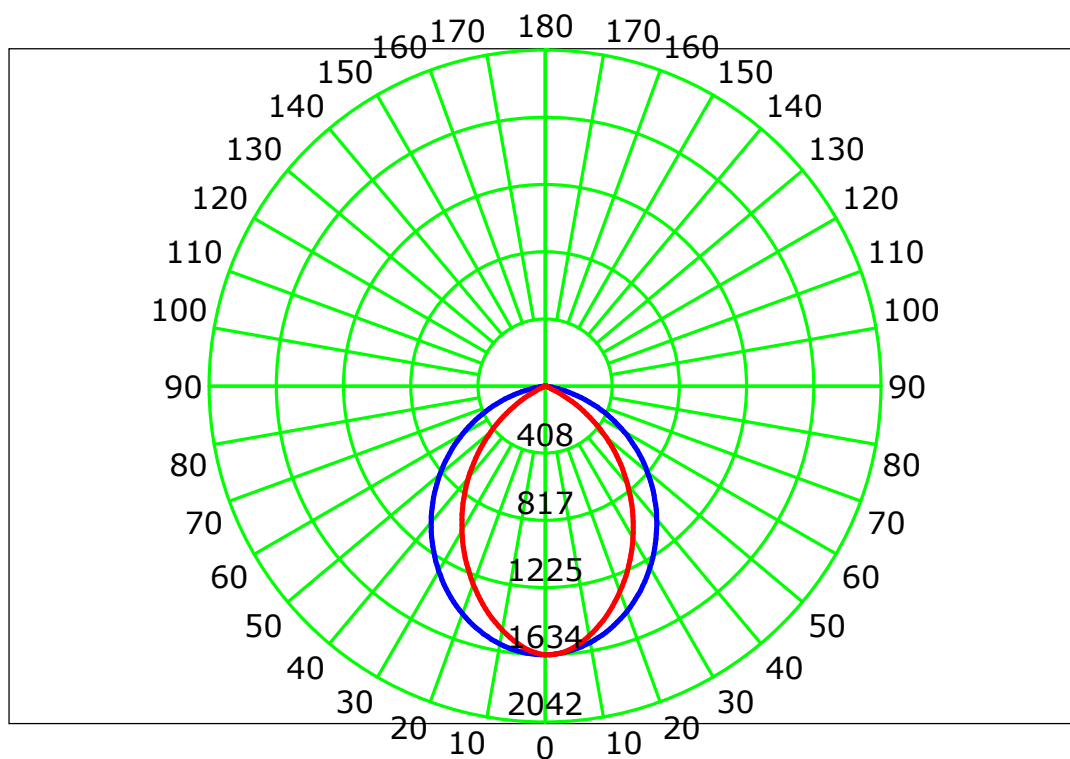
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

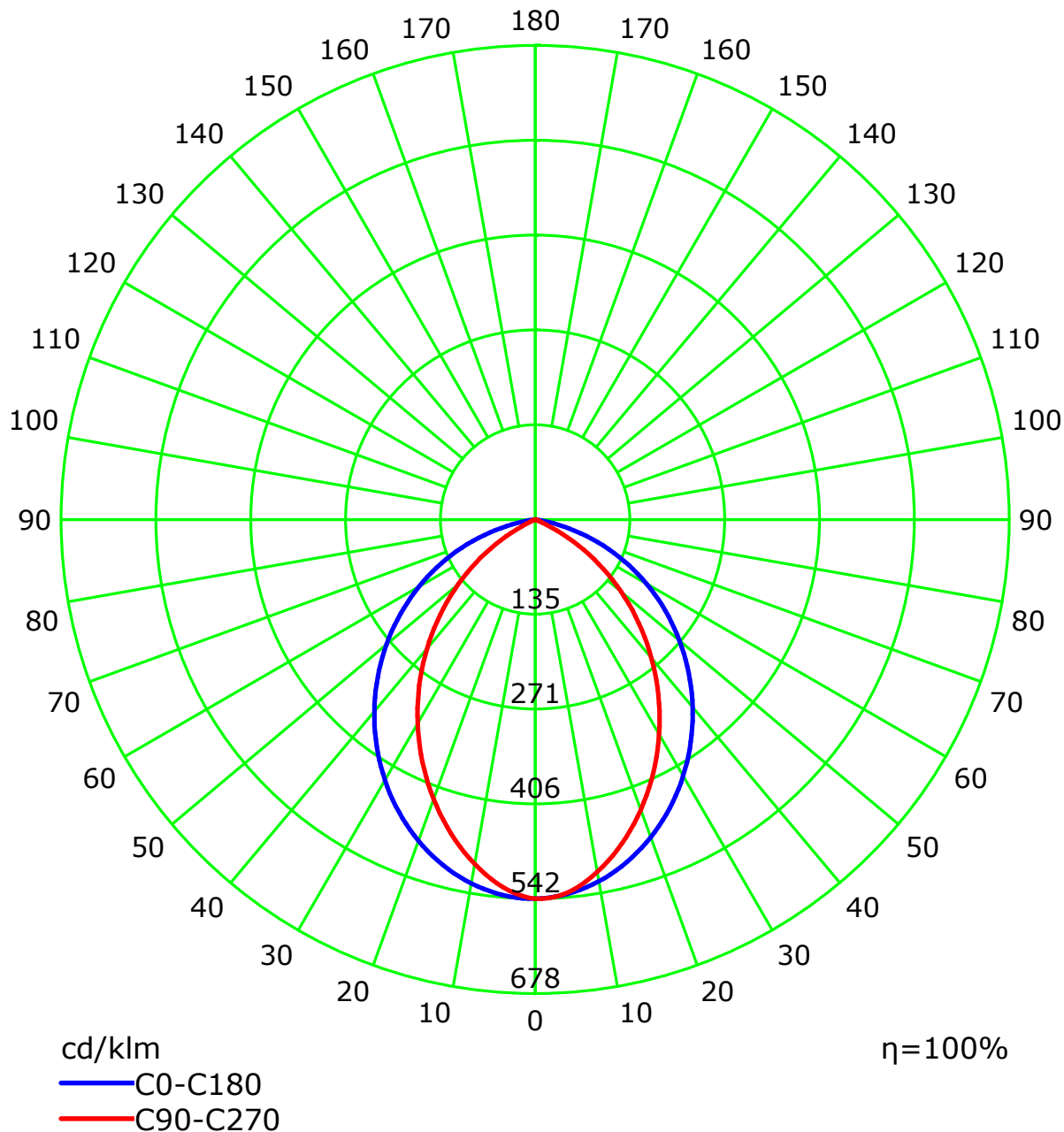
Luminous Intensity Distribution Curve



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)



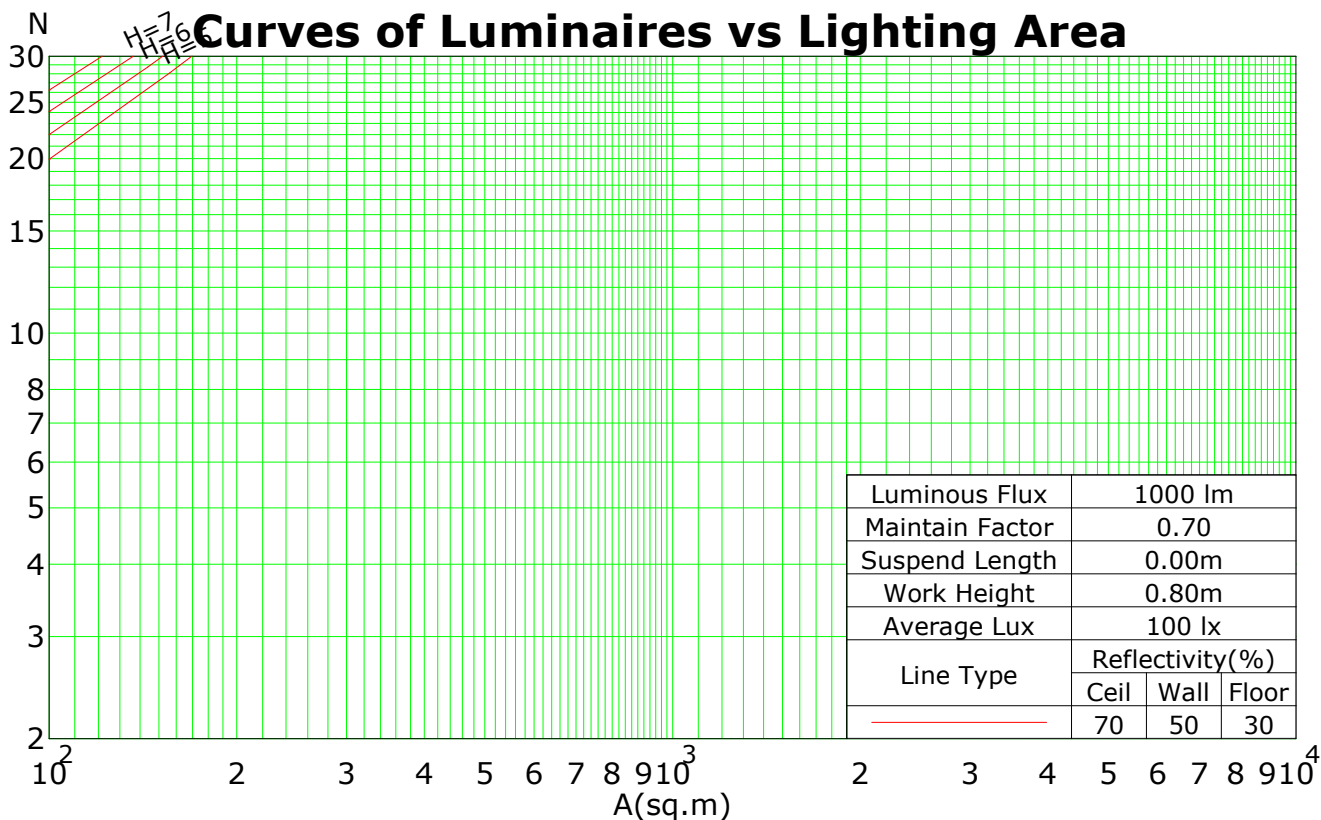
Coefficients Of Utilization - Zonal Cavity Method

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	1.11	1.07	1.04	1.01	1.09	1.05	1.02	0.99	1.01	0.99	0.96	0.97	0.95	0.93	0.94	0.92	0.91	0.89
2	1.03	0.96	0.90	0.86	1.00	0.94	0.89	0.85	0.91	0.87	0.83	0.88	0.84	0.81	0.85	0.82	0.79	0.77
3	0.95	0.86	0.79	0.74	0.93	0.85	0.78	0.73	0.82	0.76	0.72	0.79	0.75	0.71	0.77	0.73	0.70	0.68
4	0.88	0.78	0.70	0.64	0.86	0.76	0.69	0.64	0.74	0.68	0.63	0.72	0.66	0.62	0.70	0.65	0.61	0.59
5	0.82	0.70	0.62	0.56	0.80	0.69	0.62	0.56	0.67	0.61	0.56	0.65	0.60	0.55	0.64	0.59	0.55	0.53
6	0.76	0.64	0.56	0.50	0.74	0.63	0.55	0.50	0.61	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.49	0.47
7	0.71	0.59	0.51	0.45	0.69	0.58	0.50	0.45	0.56	0.50	0.45	0.55	0.49	0.44	0.54	0.48	0.44	0.42
8	0.66	0.54	0.46	0.41	0.65	0.53	0.46	0.41	0.52	0.45	0.40	0.51	0.45	0.40	0.50	0.44	0.40	0.38
9	0.62	0.50	0.42	0.37	0.61	0.49	0.42	0.37	0.48	0.41	0.37	0.47	0.41	0.37	0.46	0.40	0.36	0.35
10	0.58	0.46	0.39	0.34	0.57	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34	0.43	0.37	0.33	0.32

Spacing Criteria (0-180): 1.18

Spacing Criteria (90-270): 1.00

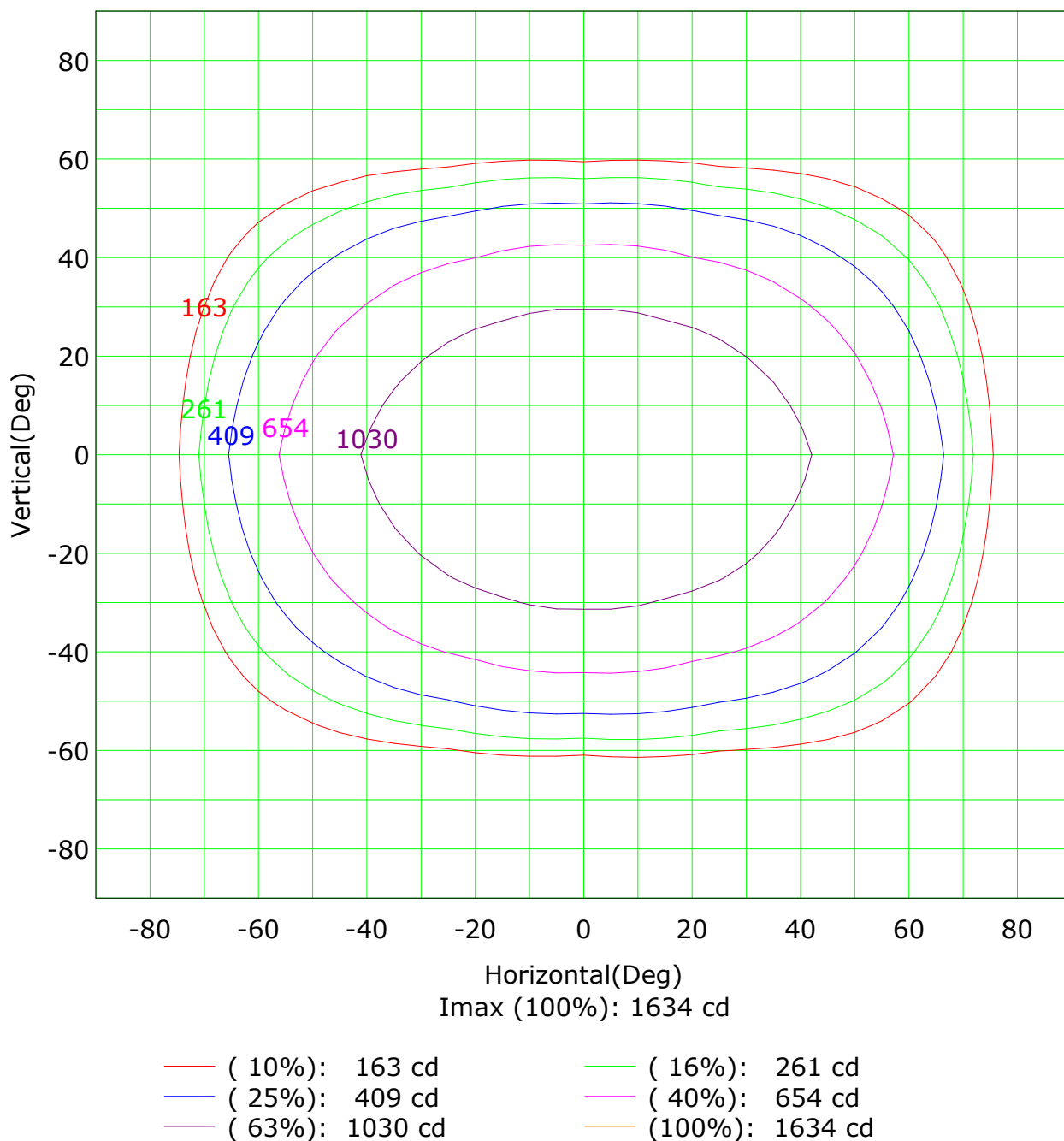
Spacing Criteria (Diagonal): 1.15



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:

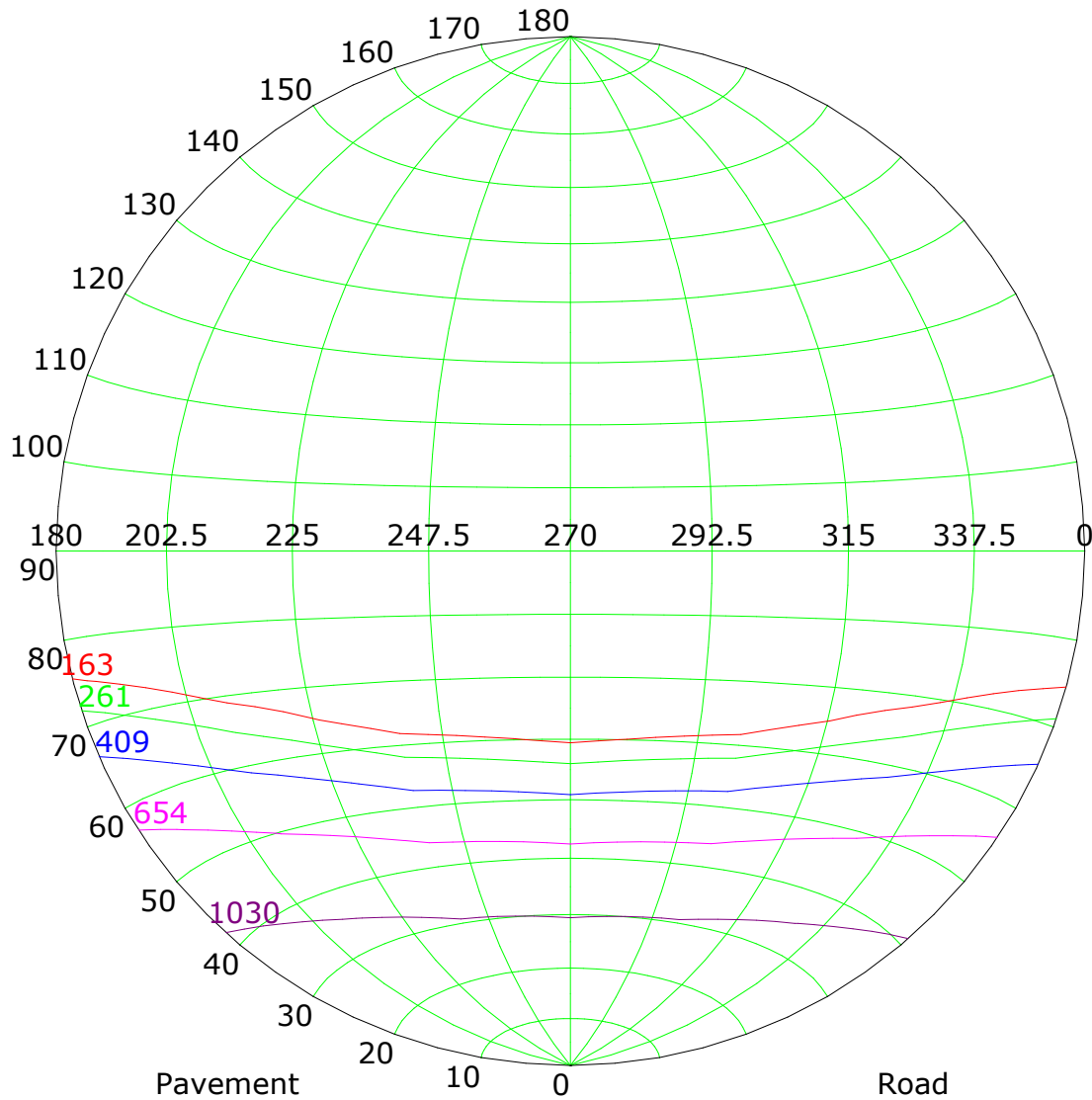
Isocandela (rectangle)



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%): 1634 cd

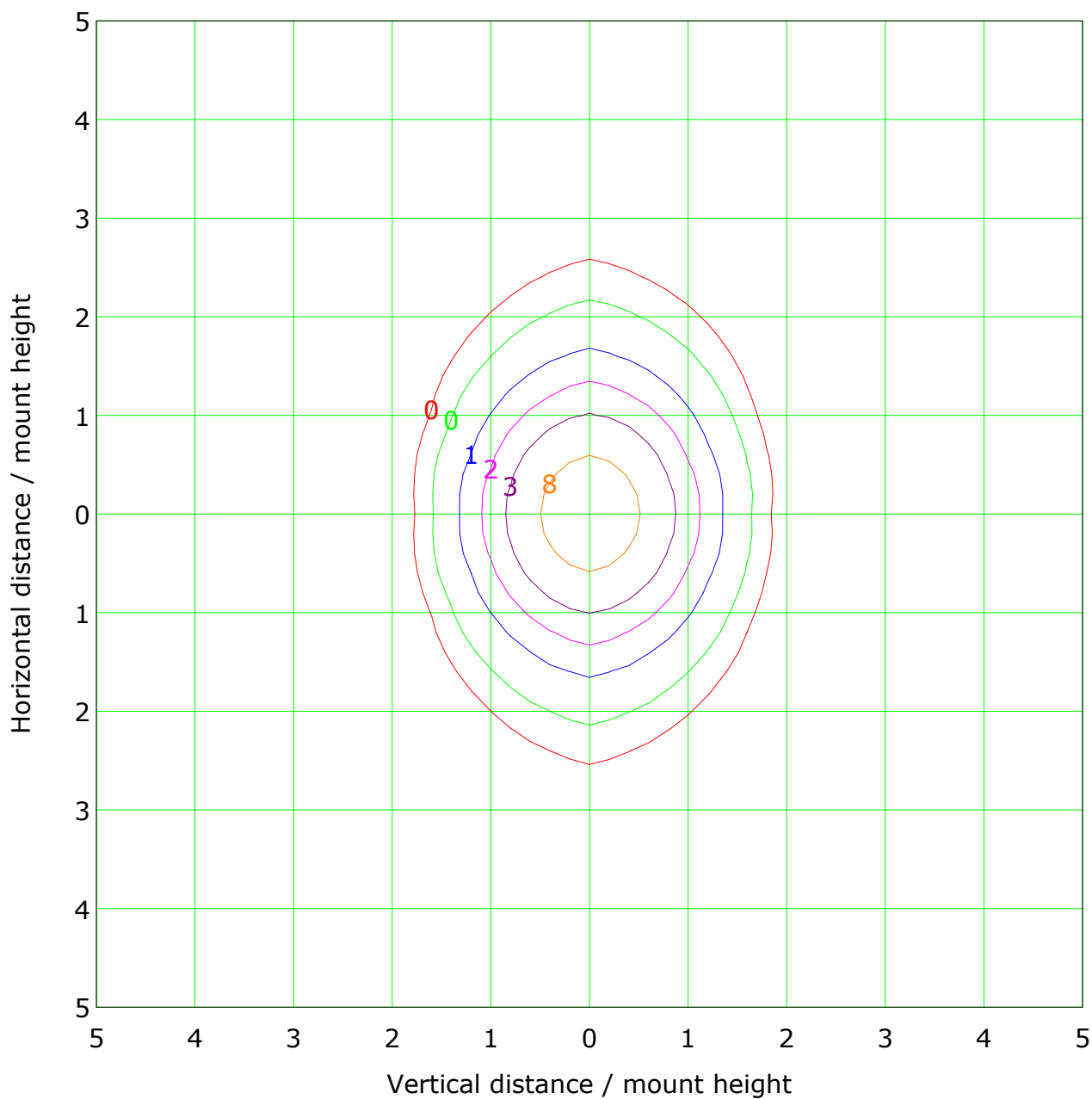
(10%): 163 cd
(25%): 409 cd
(63%): 1030 cd

(16%): 261 cd
(40%): 654 cd
(100%): 1634 cd

CIE: narrow - short
CIE: Full-cut-off luminaire
Max.At90: 0.314 cd/klm

IES: Cut-off
Max.At80: 20.098 cd/klm
Max.80-90: 20.098 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 16.3 lx

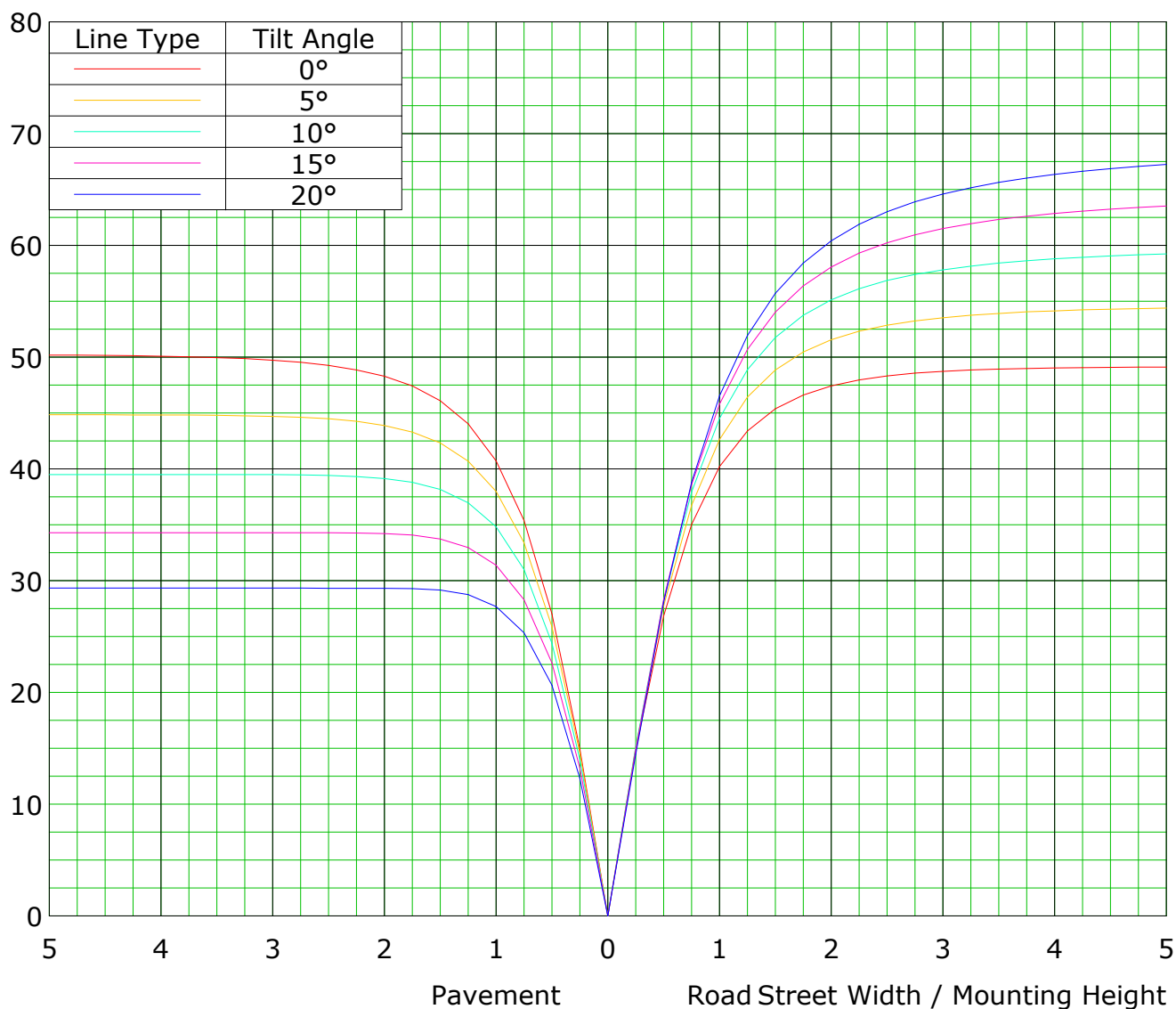
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.6 lx
(20%): 3.3 lx	(50%): 8.2 lx
(100%): 16.3 lx	

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(%)



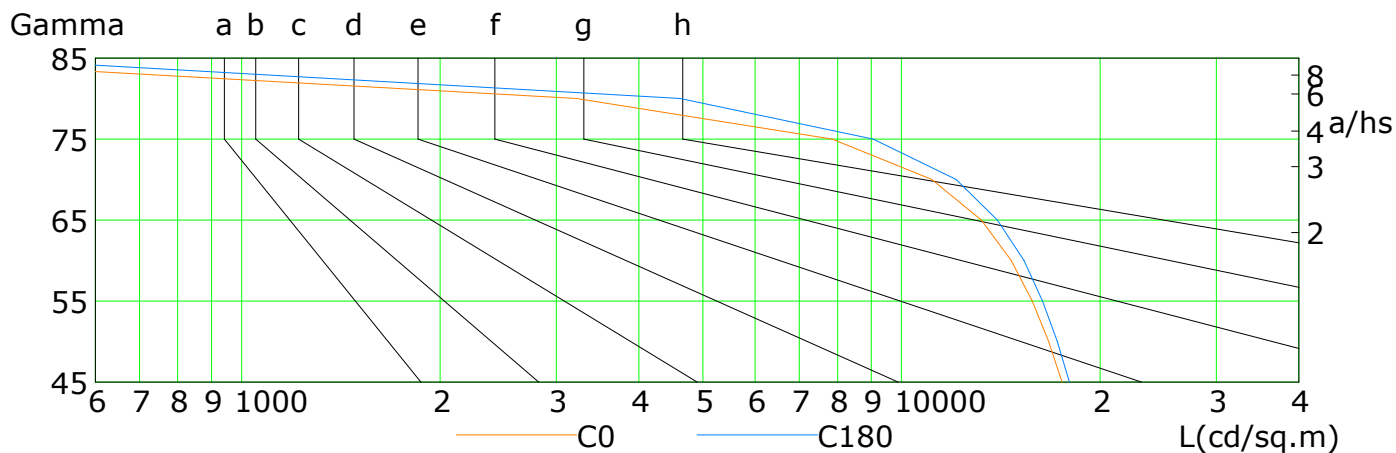
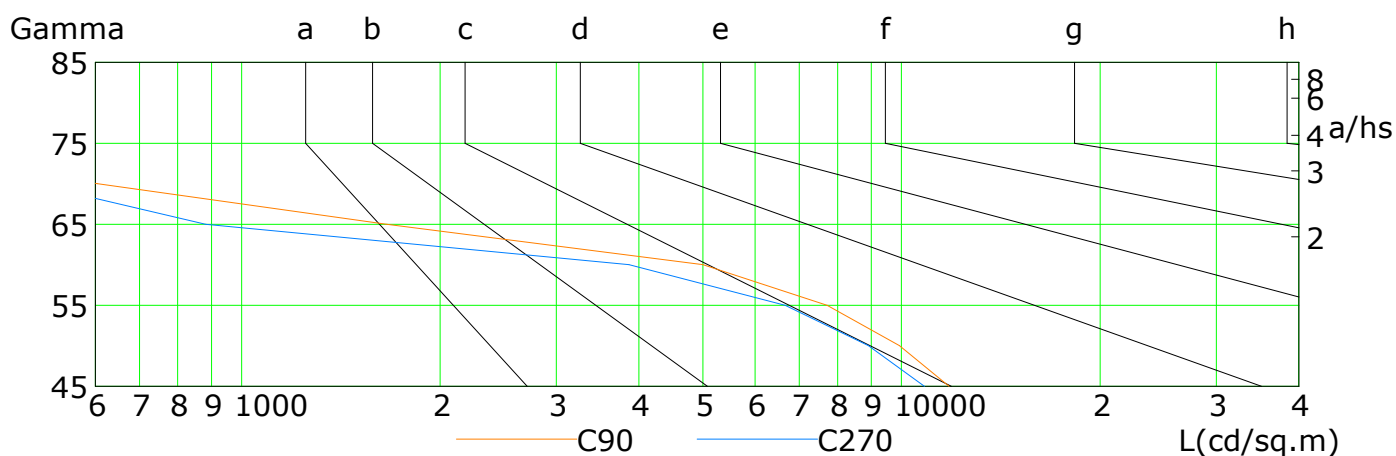
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

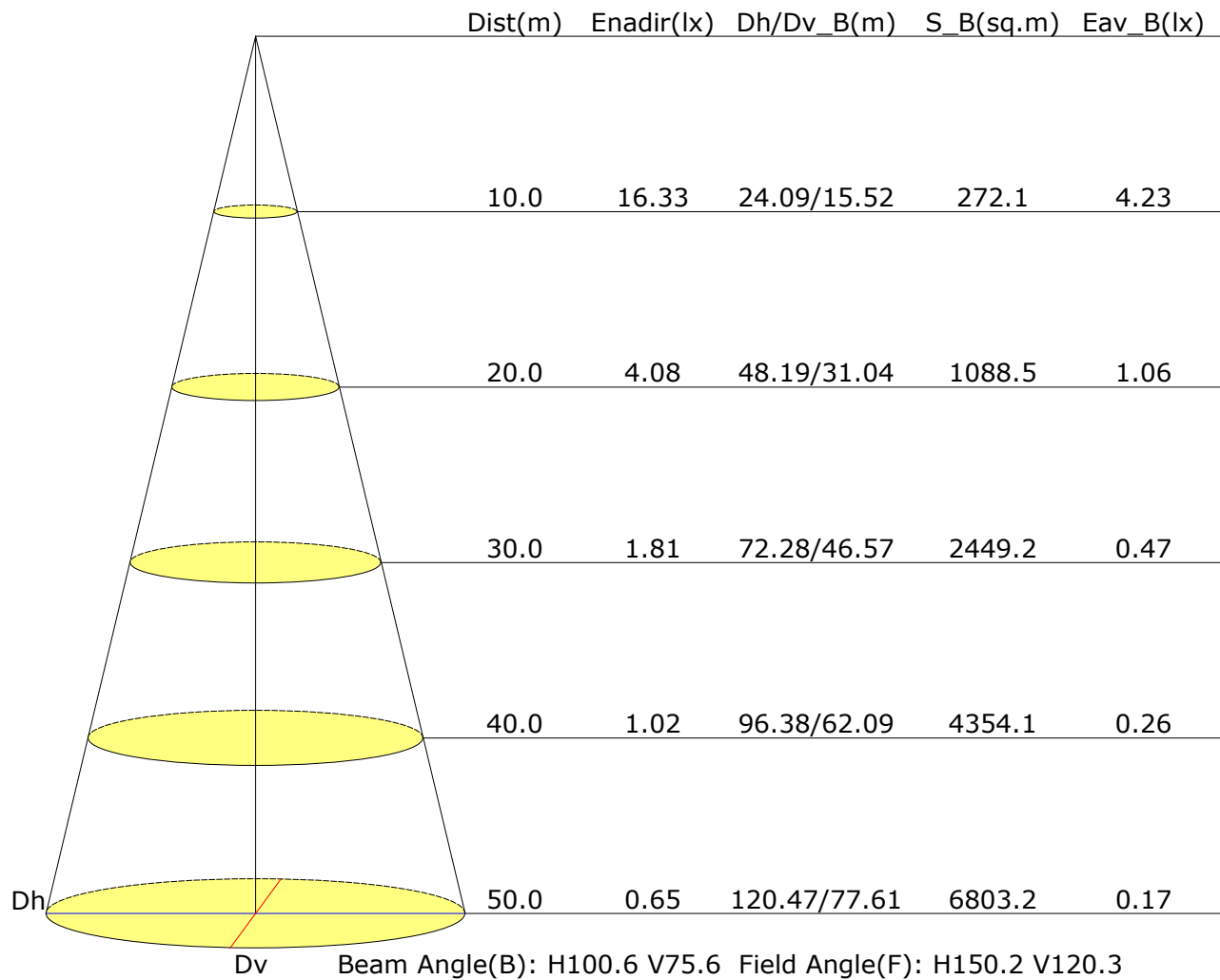


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	17518	16709	15777	14655	13212	11114	7849	3214	265
C90	11800	9932	7715	5004	1660	604	307	110	79
C180	17964	17216	16361	15330	13977	12106	9065	4613	396
C270	10837	8912	6667	3864	883	485	186	81	86

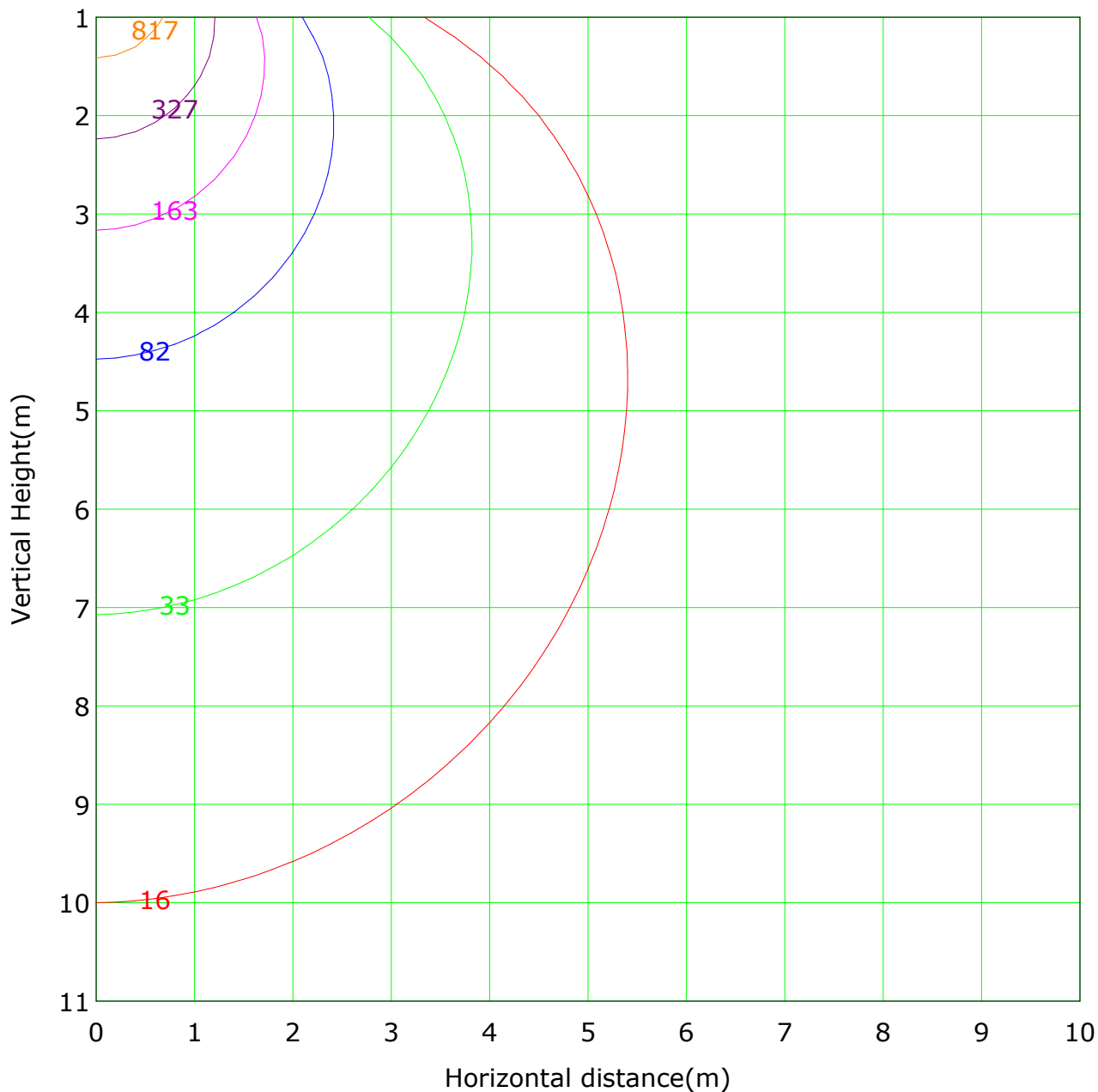
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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



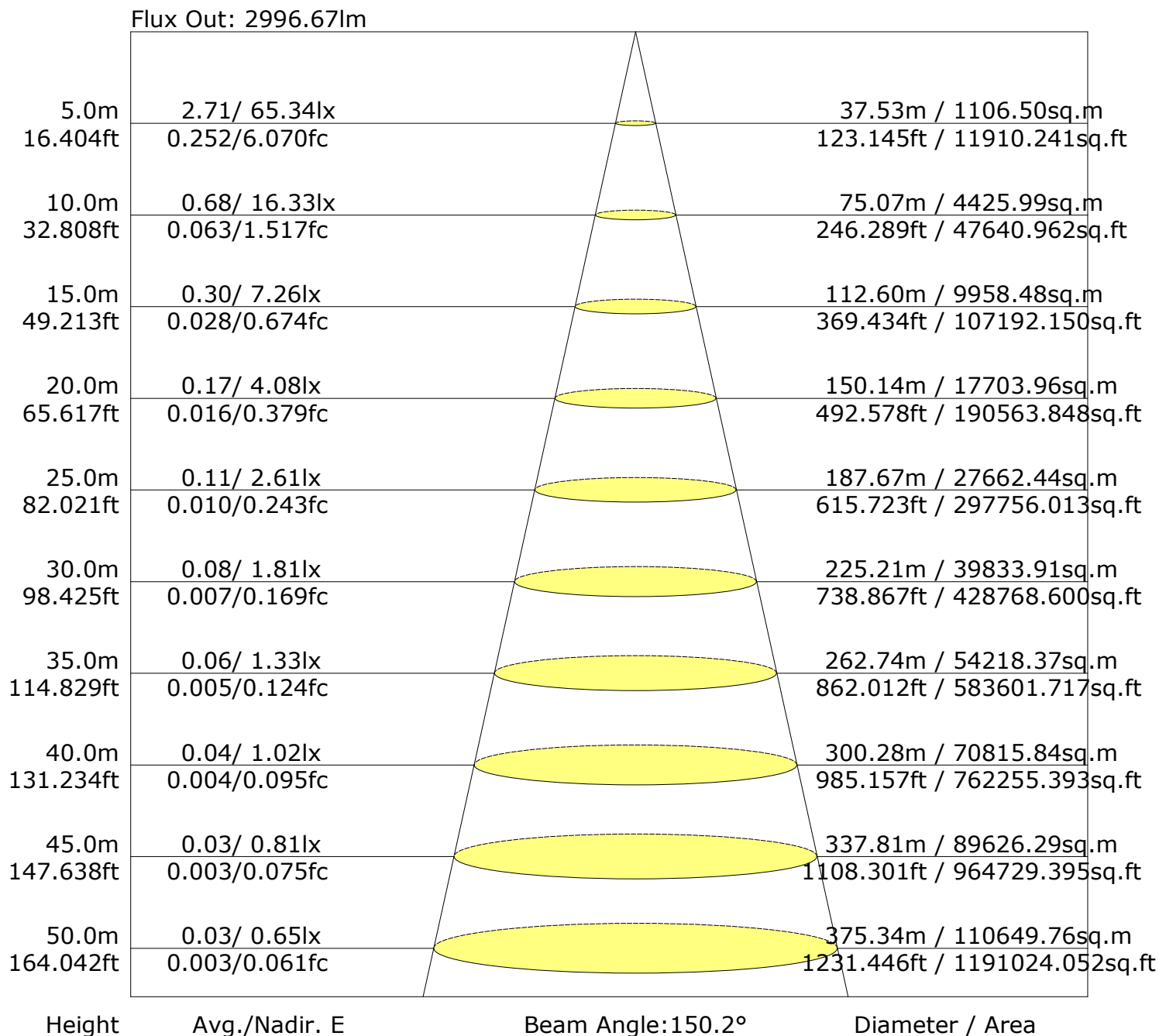
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1633.4 lx
— (1%): 16.3 lx — (2%): 32.7 lx
— (5%): 81.7 lx — (10%): 163.3 lx
— (20%): 326.7 lx — (50%): 816.7 lx
— (100%):1633.4 lx

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:

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



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	21.3	22.7	21.6	23.0	23.3	17.4	18.8	17.8	19.1	19.5
3H	22.6	23.9	23.0	24.2	24.6	17.3	18.6	17.7	18.9	19.3
4H	22.9	24.1	23.3	24.5	24.8	17.3	18.4	17.7	18.8	19.2
6H	23.0	24.1	23.4	24.4	24.8	17.2	18.3	17.6	18.6	19.0
8H	23.0	24.0	23.4	24.4	24.8	17.1	18.2	17.6	18.6	19.0
12H	22.9	23.9	23.3	24.3	24.7	17.1	18.1	17.5	18.5	18.9
X=4H Y=2H	21.3	22.4	21.7	22.8	23.2	17.9	19.1	18.3	19.4	19.8
3H	22.7	23.6	23.1	24.0	24.4	17.8	18.8	18.3	19.2	19.6
4H	23.0	23.8	23.4	24.3	24.7	17.8	18.6	18.2	19.0	19.5
6H	23.1	23.8	23.5	24.3	24.7	17.7	18.4	18.2	18.9	19.4
8H	23.0	23.7	23.5	24.2	24.6	17.6	18.3	18.1	18.8	19.3
12H	23.0	23.6	23.5	24.1	24.6	17.6	18.2	18.1	18.7	19.2
X=8H Y=4H	22.9	23.6	23.3	24.0	24.5	17.8	18.5	18.3	19.0	19.4
6H	22.9	23.5	23.4	24.0	24.5	17.7	18.3	18.2	18.8	19.3
8H	22.9	23.4	23.4	23.9	24.4	17.7	18.2	18.2	18.7	19.2
12H	22.8	23.3	23.4	23.8	24.4	17.6	18.1	18.1	18.6	19.1
X=12H Y=4H	22.8	23.4	23.3	23.9	24.4	17.8	18.4	18.3	18.9	19.4
6H	22.9	23.4	23.4	23.9	24.4	17.7	18.2	18.2	18.7	19.2
8H	22.8	23.3	23.4	23.8	24.4	17.6	18.1	18.2	18.6	19.2

Calculate in accordance with CIE 190:2010 The table is revised with 3013lm ($8\log(F/F_0) = 3.8$).

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

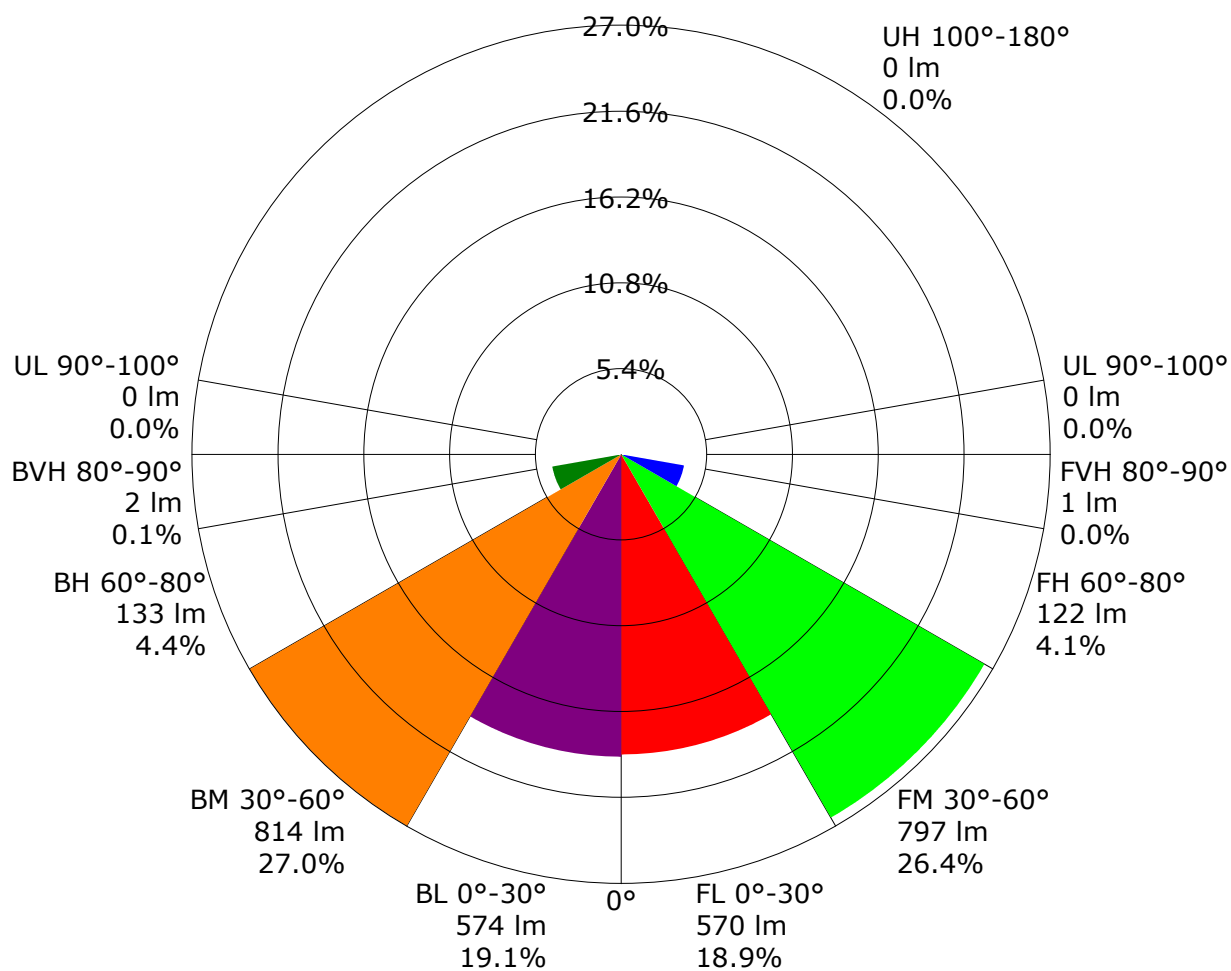
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1490	49.5
	FL (0°-30°)	570	18.9
	FM (30°-60°)	797	26.4
	FH (60°-80°)	122	4.1
	FVH (80°-90°)	1	0.0
	BACK LIGHT	1523	50.5
	BL (0°-30°)	574	19.1
	BM (30°-60°)	814	27.0
	BH (60°-80°)	133	4.4
	BVH (80°-90°)	2	0.1
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	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 U0 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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 = 1.00									
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	0.64	0.75	0.82	0.87	0.93	0.98	1.01	1.04	1.07	
	0.30		0.57	0.68	0.75	0.81	0.88	0.93	0.96	1.01	1.04	
	0.20		0.52	0.63	0.71	0.76	0.84	0.89	0.93	0.98	1.01	
0.50	0.50	0.20	0.63	0.73	0.79	0.84	0.90	0.94	0.97	1.00	1.03	
	0.30		0.56	0.67	0.74	0.79	0.86	0.90	0.94	0.98	1.00	
	0.20		0.52	0.62	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
0.30	0.50	0.20	0.61	0.71	0.77	0.82	0.87	0.91	0.94	0.97	0.99	
	0.30		0.56	0.66	0.73	0.77	0.84	0.88	0.91	0.95	0.97	
	0.20		0.52	0.62	0.69	0.74	0.81	0.85	0.89	0.93	0.95	
0.00	0.00	0.00	0.50	0.60	0.66	0.71	0.78	0.82	0.85	0.88	0.91	
<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 = 1.00									
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	0.88	0.71	0.59	0.51	0.40	0.33	0.28	0.21	0.17	
	0.30		0.74	0.61	0.52	0.45	0.36	0.30	0.26	0.20	0.16	
	0.20		0.63	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.15	
0.50	0.50	0.20	0.85	0.68	0.57	0.49	0.38	0.34	0.26	0.20	0.16	
	0.30		0.72	0.59	0.50	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		0.63	0.52	0.45	0.39	0.32	0.26	0.23	0.18	0.15	
0.30	0.50	0.20	0.83	0.65	0.54	0.46	0.36	0.29	0.25	0.19	0.15	
	0.30		0.70	0.57	0.49	0.42	0.33	0.27	0.23	0.18	0.15	
	0.20		0.62	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
0.00	0.00	0.00	0.51	0.41	0.34	0.29	0.23	0.19	0.16	0.12	0.10	
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 = 1.00									
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	0.15	0.16	0.17	
0.50	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	0.15	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	
0.30	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	
<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	1633.0	1.6	1.6	0.05	0.05
1.0-2.0	1631.1	4.7	6.2	0.16	0.21
2.0-3.0	1627.4	7.8	14.0	0.26	0.47
3.0-4.0	1622.0	10.9	24.9	0.36	0.83
4.0-5.0	1615.0	13.9	38.8	0.46	1.29
5.0-6.0	1606.5	16.9	55.7	0.56	1.85
6.0-7.0	1596.6	19.8	75.5	0.66	2.51
7.0-8.0	1585.6	22.7	98.2	0.75	3.26
8.0-9.0	1573.3	25.5	123.7	0.85	4.11
9.0-10.0	1559.9	28.2	151.9	0.94	5.04
10.0-11.0	1545.6	30.9	182.8	1.03	6.07
11.0-12.0	1530.5	33.5	216.3	1.11	7.18
12.0-13.0	1514.5	35.9	252.2	1.19	8.37
13.0-14.0	1497.6	38.3	290.6	1.27	9.64
14.0-15.0	1480.0	40.6	331.2	1.35	10.99
15.0-16.0	1461.8	42.8	374.0	1.42	12.41
16.0-17.0	1442.9	44.9	419.0	1.49	13.91
17.0-18.0	1423.3	46.9	465.9	1.56	15.46
18.0-19.0	1403.2	48.8	514.7	1.62	17.08
19.0-20.0	1382.5	50.6	565.3	1.68	18.76
20.0-21.0	1361.3	52.3	617.6	1.74	20.50
21.0-22.0	1339.5	53.8	671.4	1.79	22.29
22.0-23.0	1317.2	55.3	726.7	1.83	24.12
23.0-24.0	1294.5	56.6	783.3	1.88	26.00
24.0-25.0	1271.5	57.8	841.1	1.92	27.92
25.0-26.0	1248.0	58.9	900.1	1.96	29.87
26.0-27.0	1224.1	59.9	960.0	1.99	31.86
27.0-28.0	1199.8	60.8	1020.7	2.02	33.88
28.0-29.0	1175.2	61.5	1082.2	2.04	35.92
29.0-30.0	1150.4	62.1	1144.3	2.06	37.98
30.0-31.0	1125.2	62.6	1207.0	2.08	40.06
31.0-32.0	1099.6	63.0	1270.0	2.09	42.15
32.0-33.0	1074.0	63.3	1333.2	2.10	44.25
33.0-34.0	1047.9	63.4	1396.7	2.11	46.36
34.0-35.0	1021.7	63.5	1460.1	2.11	48.46
35.0-36.0	995.4	63.4	1523.5	2.10	50.57

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	968.6	63.2	1586.7	2.10	52.66
37.0-38.0	941.9	62.9	1649.6	2.09	54.75
38.0-39.0	915.3	62.5	1712.1	2.07	56.82
39.0-40.0	888.2	62.0	1774.0	2.06	58.88
40.0-41.0	860.9	61.3	1835.3	2.03	60.92
41.0-42.0	833.7	60.6	1895.9	2.01	62.93
42.0-43.0	806.4	59.7	1955.7	1.98	64.91
43.0-44.0	778.9	58.8	2014.4	1.95	66.86
44.0-45.0	751.3	57.7	2072.2	1.92	68.78
45.0-46.0	723.8	56.6	2128.8	1.88	70.66
46.0-47.0	696.4	55.4	2184.2	1.84	72.49
47.0-48.0	668.8	54.1	2238.3	1.79	74.29
48.0-49.0	640.9	52.6	2290.9	1.75	76.04
49.0-50.0	613.3	51.1	2342.1	1.70	77.73
50.0-51.0	586.1	49.6	2391.6	1.65	79.38
51.0-52.0	558.3	47.9	2439.6	1.59	80.97
52.0-53.0	530.5	46.2	2485.7	1.53	82.50
53.0-54.0	503.2	44.4	2530.1	1.47	83.97
54.0-55.0	476.1	42.5	2572.6	1.41	85.39
55.0-56.0	448.8	40.6	2613.1	1.35	86.73
56.0-57.0	421.4	38.5	2651.7	1.28	88.01
57.0-58.0	394.3	36.5	2688.1	1.21	89.22
58.0-59.0	367.7	34.4	2722.5	1.14	90.36
59.0-60.0	340.7	32.2	2754.7	1.07	91.43
60.0-61.0	313.9	30.0	2784.7	0.99	92.43
61.0-62.0	287.8	27.7	2812.4	0.92	93.35
62.0-63.0	261.6	25.4	2837.9	0.84	94.19
63.0-64.0	236.1	23.2	2861.0	0.77	94.96
64.0-65.0	211.3	20.9	2881.9	0.69	95.65
65.0-66.0	187.7	18.7	2900.7	0.62	96.28
66.0-67.0	165.9	16.7	2917.4	0.55	96.83
67.0-68.0	146.1	14.8	2932.2	0.49	97.32
68.0-69.0	128.7	13.1	2945.3	0.44	97.76
69.0-70.0	113.5	11.7	2956.9	0.39	98.14
70.0-71.0	99.9	10.3	2967.3	0.34	98.49
71.0-72.0	87.2	9.1	2976.3	0.30	98.79

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°): 2072.19 lm

%lum = 68.8%

%lamp = 68.8%

cone flux(120°): 2754.71 lm

%lum = 91.4%

%lamp = 91.4%

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	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4
G1.0	1632.8	1633.9	1634.2	1634.3	1633.9	1633.8	1633.6	1631.8	1629.9
G2.0	1630.9	1631.7	1632.5	1632.6	1632.0	1633.8	1632.9	1629.6	1625.1
G3.0	1627.5	1628.7	1628.4	1628.0	1628.8	1632.0	1630.6	1625.7	1617.5
G4.0	1623.7	1623.6	1622.7	1621.7	1623.0	1628.6	1627.7	1619.9	1608.6
G5.0	1618.5	1617.8	1614.8	1612.8	1615.7	1623.9	1623.6	1613.2	1598.2
G6.0	1612.9	1611.0	1604.7	1601.6	1606.1	1617.8	1619.0	1604.8	1585.0
G7.0	1606.7	1602.5	1593.5	1588.9	1594.9	1610.9	1613.4	1596.0	1570.9
G8.0	1599.5	1593.0	1580.1	1574.6	1582.1	1602.4	1607.2	1586.1	1555.8
G9.0	1591.4	1582.6	1565.3	1558.6	1567.9	1592.9	1599.9	1574.4	1539.3
G10.0	1582.7	1570.8	1549.5	1541.8	1552.3	1582.3	1591.8	1562.2	1522.2
G11.0	1573.1	1557.8	1533.2	1524.3	1536.0	1571.1	1583.2	1548.9	1503.9
G12.0	1562.7	1544.4	1515.4	1505.9	1519.0	1558.2	1573.5	1534.6	1484.7
G13.0	1552.1	1529.5	1497.0	1486.6	1500.8	1544.9	1563.4	1519.4	1465.2
G14.0	1540.2	1513.5	1477.7	1466.0	1481.5	1529.7	1552.5	1503.7	1444.5
G15.0	1527.6	1497.5	1457.6	1444.7	1462.3	1514.4	1540.8	1486.6	1423.3
G16.0	1514.9	1480.1	1437.1	1423.6	1441.8	1498.5	1528.6	1469.8	1402.1
G17.0	1501.0	1462.2	1415.6	1401.2	1421.0	1481.7	1515.8	1451.7	1379.8
G18.0	1486.8	1443.8	1393.2	1378.1	1399.2	1463.7	1502.2	1432.6	1356.8
G19.0	1471.9	1424.6	1370.7	1354.9	1376.8	1445.6	1487.8	1413.6	1333.9
G20.0	1456.9	1404.6	1347.8	1330.8	1354.1	1426.7	1473.0	1394.0	1309.7
G21.0	1440.8	1384.3	1323.8	1306.3	1330.6	1407.4	1457.7	1373.3	1285.5
G22.0	1424.2	1363.7	1299.3	1281.2	1306.3	1387.3	1442.0	1353.0	1260.3
G23.0	1407.5	1342.4	1275.1	1255.7	1282.1	1366.4	1425.2	1331.0	1235.2
G24.0	1390.1	1320.3	1249.6	1229.7	1257.0	1345.0	1408.5	1309.1	1209.8
G25.0	1371.9	1298.3	1224.4	1204.1	1232.2	1324.0	1391.0	1287.0	1183.9
G26.0	1353.6	1275.5	1198.6	1177.5	1206.7	1301.8	1373.3	1264.3	1157.9
G27.0	1334.7	1252.1	1172.4	1150.2	1180.3	1278.9	1354.5	1240.4	1131.5
G28.0	1315.0	1228.6	1145.5	1123.2	1154.5	1255.8	1335.7	1217.1	1104.9
G29.0	1296.1	1204.3	1119.3	1096.2	1127.4	1232.9	1315.9	1193.7	1077.2
G30.0	1275.7	1180.5	1092.1	1068.2	1100.9	1208.8	1296.8	1169.4	1050.8
G31.0	1254.5	1155.5	1064.1	1040.0	1073.6	1184.5	1276.0	1144.8	1023.1
G32.0	1234.0	1130.6	1037.1	1012.1	1046.1	1160.1	1255.8	1120.1	995.7
G33.0	1213.4	1105.4	1009.8	984.0	1018.3	1135.3	1234.8	1095.0	967.7
G34.0	1191.1	1080.0	981.1	954.8	990.7	1110.0	1213.6	1069.5	939.7
G35.0	1169.3	1054.3	953.0	926.7	962.9	1085.5	1191.8	1044.6	911.8

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	1147.3	1028.5	924.9	897.1	934.5	1059.3	1169.9	1018.7	883.2
G37.0	1124.2	1001.9	896.1	867.6	906.1	1033.3	1147.7	992.0	855.1
G38.0	1102.0	975.9	867.9	838.9	877.6	1008.0	1125.3	966.6	826.8
G39.0	1079.2	949.9	839.5	809.9	849.6	982.0	1102.4	940.6	798.4
G40.0	1055.2	922.7	809.6	779.4	820.5	955.0	1079.4	913.6	770.2
G41.0	1032.3	896.2	781.5	750.1	791.7	928.7	1056.0	887.2	741.3
G42.0	1009.0	869.5	753.0	720.4	762.9	902.0	1032.3	861.1	712.6
G43.0	984.6	842.6	723.5	690.4	734.0	875.3	1008.8	834.3	684.3
G44.0	960.3	815.1	694.1	661.1	704.8	848.7	984.6	807.6	655.6
G45.0	936.5	788.0	665.8	630.8	676.1	821.5	960.3	781.0	627.0
G46.0	911.7	761.6	636.4	601.0	646.7	794.4	936.0	753.7	598.3
G47.0	886.8	734.7	607.1	572.0	618.4	767.9	911.5	727.2	570.1
G48.0	863.0	706.4	578.9	542.5	589.1	740.7	886.5	700.8	541.3
G49.0	837.1	678.8	549.1	511.8	560.5	712.7	862.2	673.1	513.4
G50.0	812.0	652.8	520.6	482.6	531.6	686.5	836.6	646.6	484.8
G51.0	787.2	626.3	492.4	453.0	503.0	659.3	811.9	619.7	456.8
G52.0	761.0	597.7	463.0	423.0	474.5	631.6	786.3	592.5	428.4
G53.0	735.9	569.3	435.1	394.1	446.3	605.3	761.2	566.4	400.6
G54.0	710.6	543.8	406.9	364.3	418.0	577.8	735.2	539.7	372.6
G55.0	684.1	518.5	378.0	334.6	389.8	550.4	709.4	512.8	345.1
G56.0	659.1	489.6	351.1	306.4	361.8	524.6	683.5	487.2	317.6
G57.0	632.9	462.0	322.8	277.6	334.1	497.5	657.2	460.8	290.2
G58.0	606.3	437.2	294.8	248.1	306.5	470.1	631.8	433.8	263.5
G59.0	581.6	411.1	268.8	218.5	278.8	444.1	604.8	408.4	236.0
G60.0	553.9	383.6	240.8	189.1	252.2	416.7	579.5	381.6	210.4
G61.0	528.0	358.5	212.8	161.6	224.8	391.2	552.3	356.5	183.5
G62.0	501.7	333.0	186.3	133.5	199.2	365.0	526.7	331.3	158.6
G63.0	474.7	306.9	159.9	105.4	172.1	338.8	499.6	305.9	132.5
G64.0	449.2	282.4	135.0	78.5	147.0	313.6	473.7	281.4	107.6
G65.0	422.1	256.9	109.0	53.0	121.6	288.1	446.6	256.9	82.7
G66.0	396.4	232.3	84.8	34.4	96.3	264.0	421.0	232.4	59.6
G67.0	369.2	209.3	60.2	23.3	71.6	239.0	393.5	208.0	39.1
G68.0	342.7	185.6	40.5	19.2	48.8	214.1	367.1	185.2	25.2
G69.0	315.1	163.1	26.0	17.4	31.6	190.5	340.6	162.7	18.2
G70.0	287.4	140.4	18.6	15.6	21.4	168.0	313.0	141.0	15.6
G71.0	260.2	119.0	16.0	13.7	16.8	145.9	285.2	119.8	13.7

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:

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	1633.4	1633.4	1633.4	1633.4					
G1.0	1629.7	1630.5	1631.5	1632.8					
G2.0	1622.9	1625.0	1627.2	1630.9					
G3.0	1614.0	1617.2	1622.0	1627.5					
G4.0	1603.7	1608.0	1615.3	1623.7					
G5.0	1590.6	1597.2	1607.5	1618.5					
G6.0	1576.4	1584.2	1598.6	1612.9					
G7.0	1560.9	1569.9	1588.5	1606.7					
G8.0	1544.2	1554.6	1577.8	1599.5					
G9.0	1526.1	1538.2	1565.7	1591.4					
G10.0	1507.0	1520.4	1552.5	1582.7					
G11.0	1487.4	1502.2	1538.6	1573.1					
G12.0	1467.3	1483.4	1523.8	1562.7					
G13.0	1445.7	1463.0	1507.6	1552.1					
G14.0	1424.1	1442.0	1491.3	1540.2					
G15.0	1402.0	1421.2	1474.1	1527.6					
G16.0	1378.8	1399.5	1456.3	1514.9					
G17.0	1355.3	1376.7	1437.5	1501.0					
G18.0	1331.5	1354.1	1418.5	1486.8					
G19.0	1306.4	1330.6	1398.6	1471.9					
G20.0	1281.6	1306.3	1378.4	1456.9					
G21.0	1256.6	1282.3	1357.7	1440.8					
G22.0	1230.8	1257.3	1336.3	1424.2					
G23.0	1204.5	1232.0	1314.5	1407.5					
G24.0	1178.3	1206.7	1292.3	1390.1					
G25.0	1151.5	1180.8	1269.7	1371.9					
G26.0	1124.5	1154.1	1246.6	1353.6					
G27.0	1097.7	1127.9	1223.7	1334.7					
G28.0	1069.7	1101.1	1199.7	1315.0					
G29.0	1041.9	1073.9	1175.8	1296.1					
G30.0	1014.4	1046.9	1151.6	1275.7					
G31.0	985.8	1019.4	1126.6	1254.5					
G32.0	957.5	991.3	1101.7	1234.0					
G33.0	929.3	964.0	1076.5	1213.4					
G34.0	900.1	935.7	1050.9	1191.1					
G35.0	871.8	907.3	1025.5	1169.3					

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	842.9	879.3	999.8	1147.3					
G37.0	813.6	850.9	973.4	1124.2					
G38.0	784.8	822.5	947.4	1102.0					
G39.0	755.7	794.3	921.3	1079.2					
G40.0	726.5	765.8	894.8	1055.2					
G41.0	697.4	737.0	868.6	1032.3					
G42.0	668.0	709.2	841.9	1009.0					
G43.0	638.9	680.5	815.3	984.6					
G44.0	608.9	651.6	788.2	960.3					
G45.0	579.3	623.4	761.4	936.5					
G46.0	550.7	594.9	735.2	911.7					
G47.0	521.3	566.2	708.7	886.8					
G48.0	490.8	538.1	680.9	863.0					
G49.0	461.1	509.4	653.6	837.1					
G50.0	433.1	481.2	627.8	812.0					
G51.0	404.5	453.2	602.0	787.2					
G52.0	373.8	424.8	573.9	761.0					
G53.0	343.8	397.2	546.0	735.9					
G54.0	316.0	369.7	521.2	710.6					
G55.0	289.1	341.7	496.1	684.1					
G56.0	258.5	315.0	467.8	659.1					
G57.0	228.7	287.4	440.9	632.9					
G58.0	202.5	260.8	416.8	606.3					
G59.0	175.3	233.5	391.1	581.6					
G60.0	146.1	206.1	364.3	553.9					
G61.0	119.2	181.5	340.0	528.0					
G62.0	92.3	155.0	314.9	501.7					
G63.0	65.3	130.5	289.7	474.7					
G64.0	43.6	106.4	265.9	449.2					
G65.0	28.2	81.2	241.0	422.1					
G66.0	20.3	58.4	217.2	396.4					
G67.0	17.9	38.3	194.7	369.2					
G68.0	16.2	25.5	171.9	342.7					
G69.0	14.4	17.9	150.1	315.1					
G70.0	12.5	15.2	127.9	287.4					
G71.0	10.7	13.4	107.0	260.2					

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 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	13594.60
L 0-180(75) av	8456.99
L 0-180(85) av	330.13
L 90-270(65) av	1271.37
L 90-270(75) av	246.77
L 90-270(85) av	82.36
L 45(65) av	5624.18
L 45(75) av	1355.38
L 45(85) av	134.97

Standard: GB/T 29293-2012