

Report No.: MSTLAB250611003

Test Time: 2025-06-11 15:06:17

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: 0.327 A

Power: 39.09 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Measurement Flux: 4485.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H129.5,H78.9,H55.6,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V160.3,V113,V77.9,V0

Luminous Efficacy (lm/w): 114.76

C0r0 Intensity: 1240.92 cd

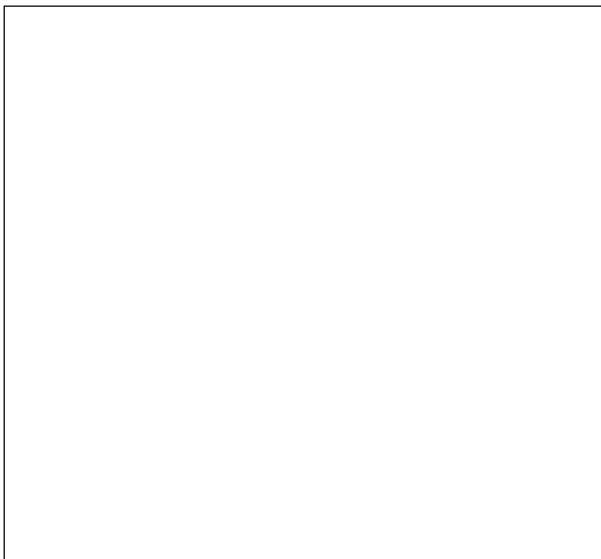
Max. Intensity: 2161.26 cd

Pos of Max. Intensity: H0 V44

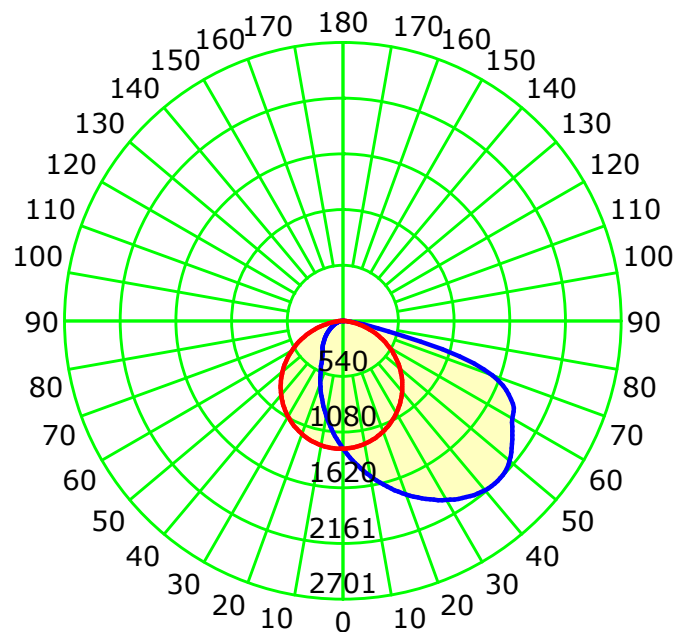
S/MH(C0/C180): 1.51

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 95.9°

— 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

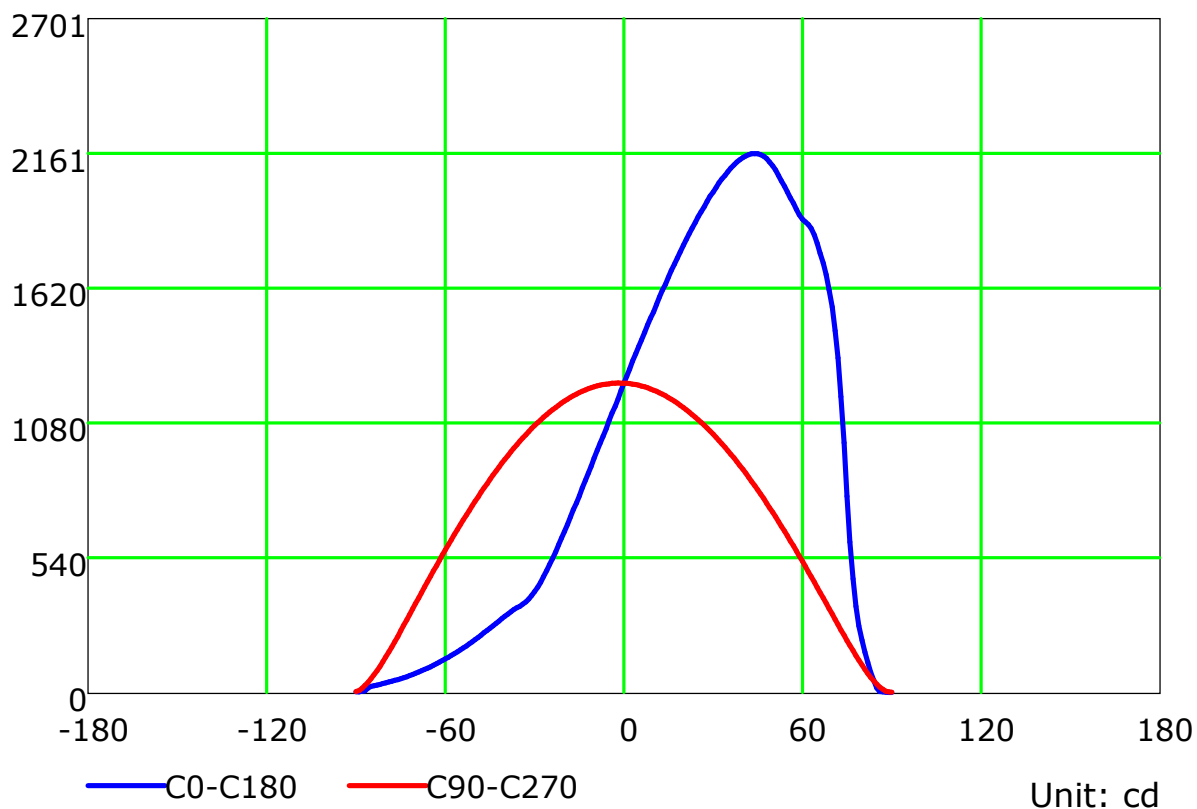
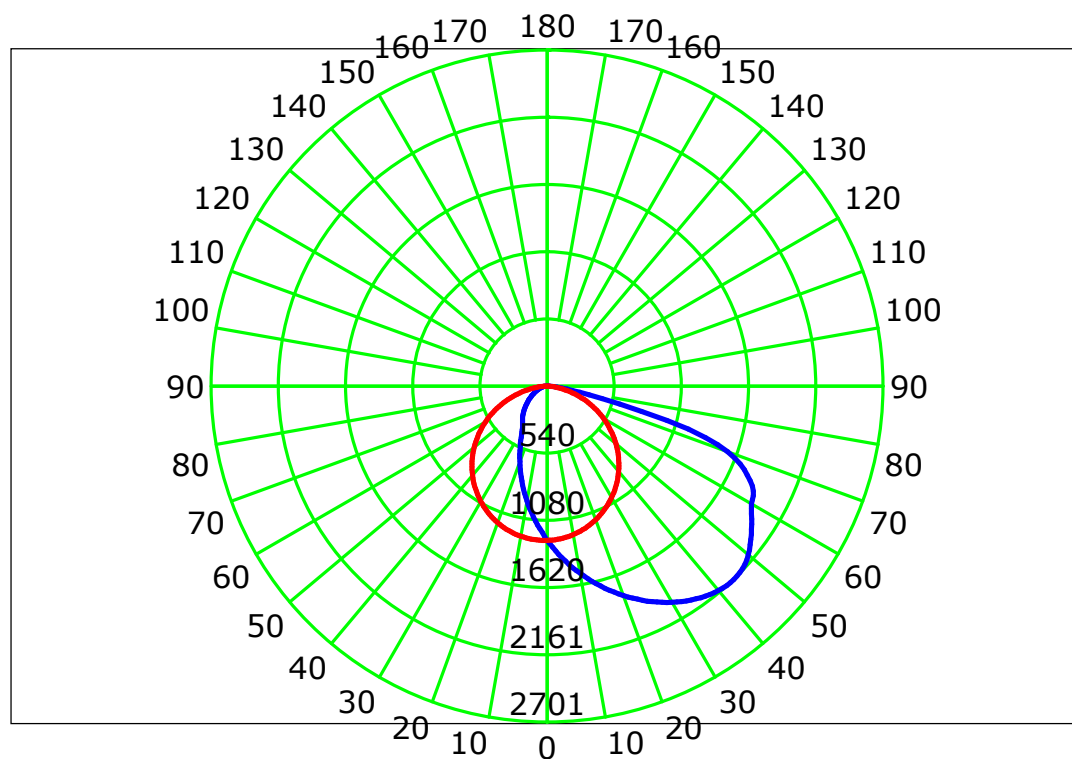
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

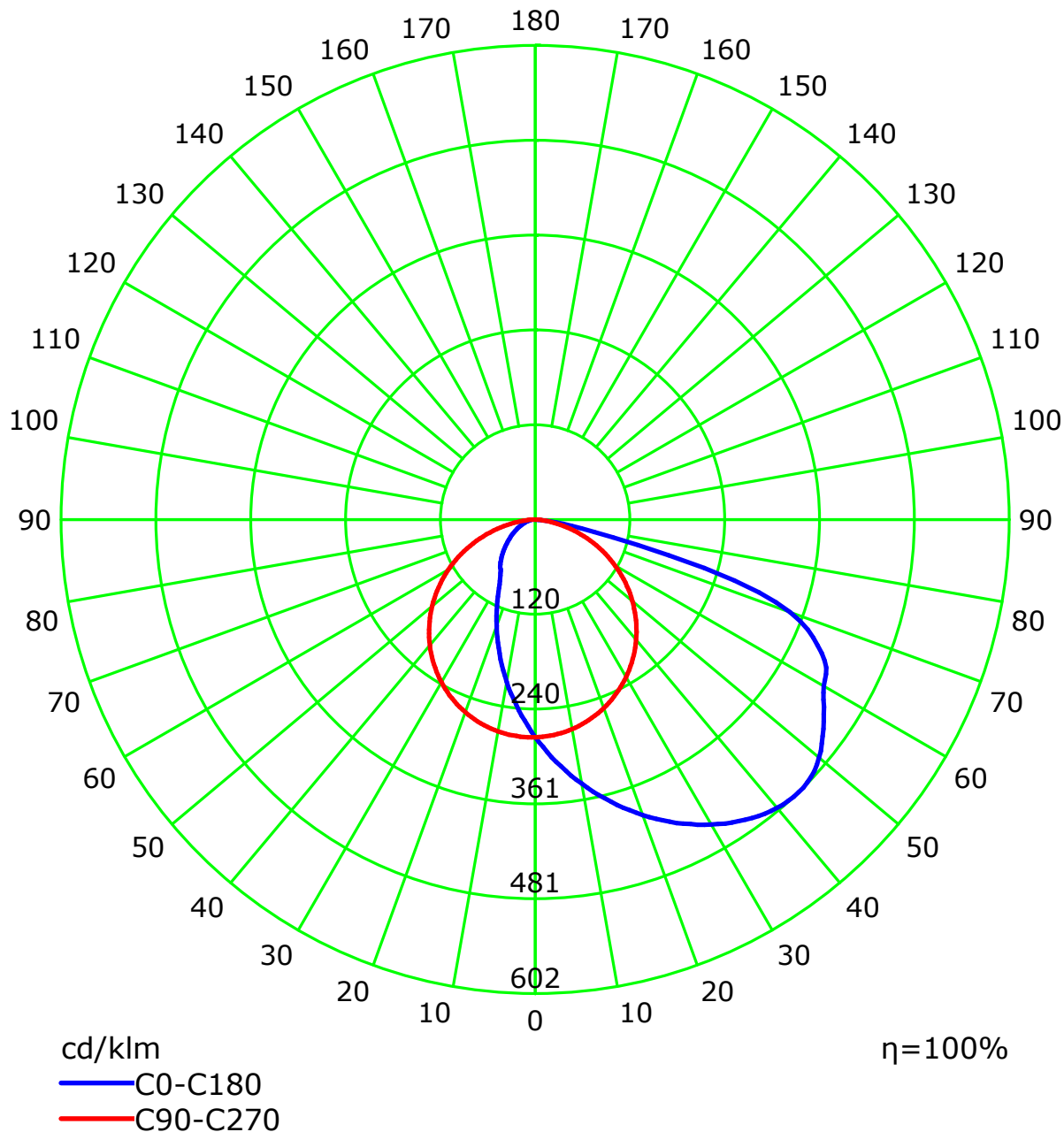
Luminous Intensity Distribution Curve



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:

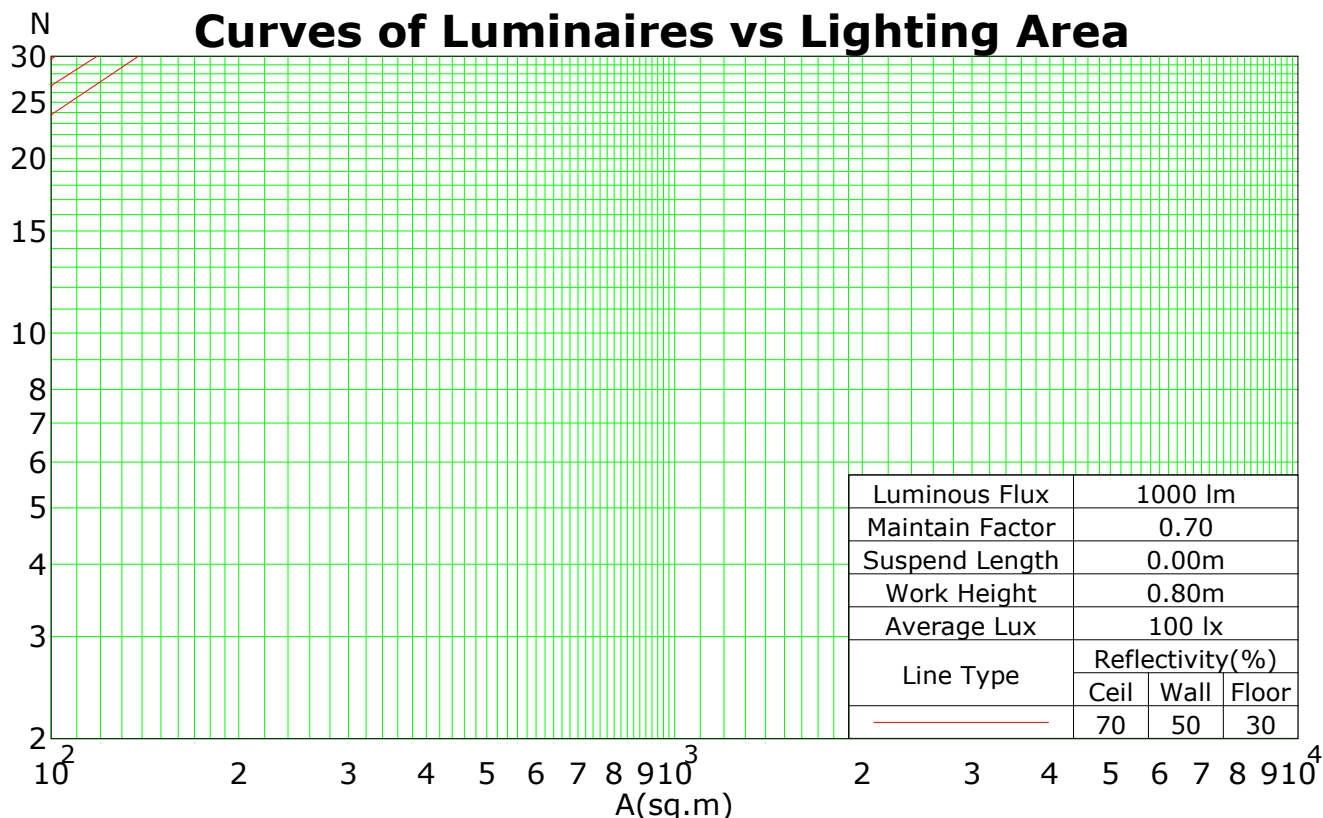
Coefficients Of Utilization - Zonal Cavity Method

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	1.08	1.03	0.98	0.94	1.05	1.00	0.96	0.92	0.96	0.93	0.89	0.92	0.89	0.87	0.88	0.86	0.84	0.82
2	0.97	0.88	0.81	0.74	0.94	0.86	0.79	0.74	0.82	0.77	0.72	0.79	0.74	0.70	0.76	0.72	0.68	0.66
3	0.88	0.76	0.67	0.60	0.85	0.75	0.66	0.60	0.72	0.65	0.59	0.69	0.63	0.58	0.66	0.61	0.57	0.54
4	0.80	0.67	0.57	0.50	0.77	0.65	0.57	0.50	0.63	0.55	0.49	0.60	0.54	0.48	0.58	0.52	0.48	0.45
5	0.73	0.59	0.50	0.42	0.71	0.58	0.49	0.42	0.56	0.48	0.42	0.54	0.47	0.41	0.52	0.46	0.41	0.39
6	0.67	0.53	0.43	0.37	0.65	0.52	0.43	0.36	0.50	0.42	0.36	0.48	0.41	0.36	0.47	0.40	0.35	0.33
7	0.62	0.48	0.38	0.32	0.60	0.47	0.38	0.32	0.45	0.37	0.32	0.44	0.37	0.31	0.42	0.36	0.31	0.29
8	0.58	0.43	0.34	0.28	0.56	0.43	0.34	0.28	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.26
9	0.54	0.40	0.31	0.25	0.52	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.30	0.25	0.36	0.29	0.25	0.23
10	0.50	0.36	0.28	0.23	0.49	0.36	0.28	0.23	0.35	0.28	0.22	0.34	0.27	0.22	0.33	0.27	0.22	0.20

Spacing Criteria (0-180): 1.51

Spacing Criteria (90-270): 1.26

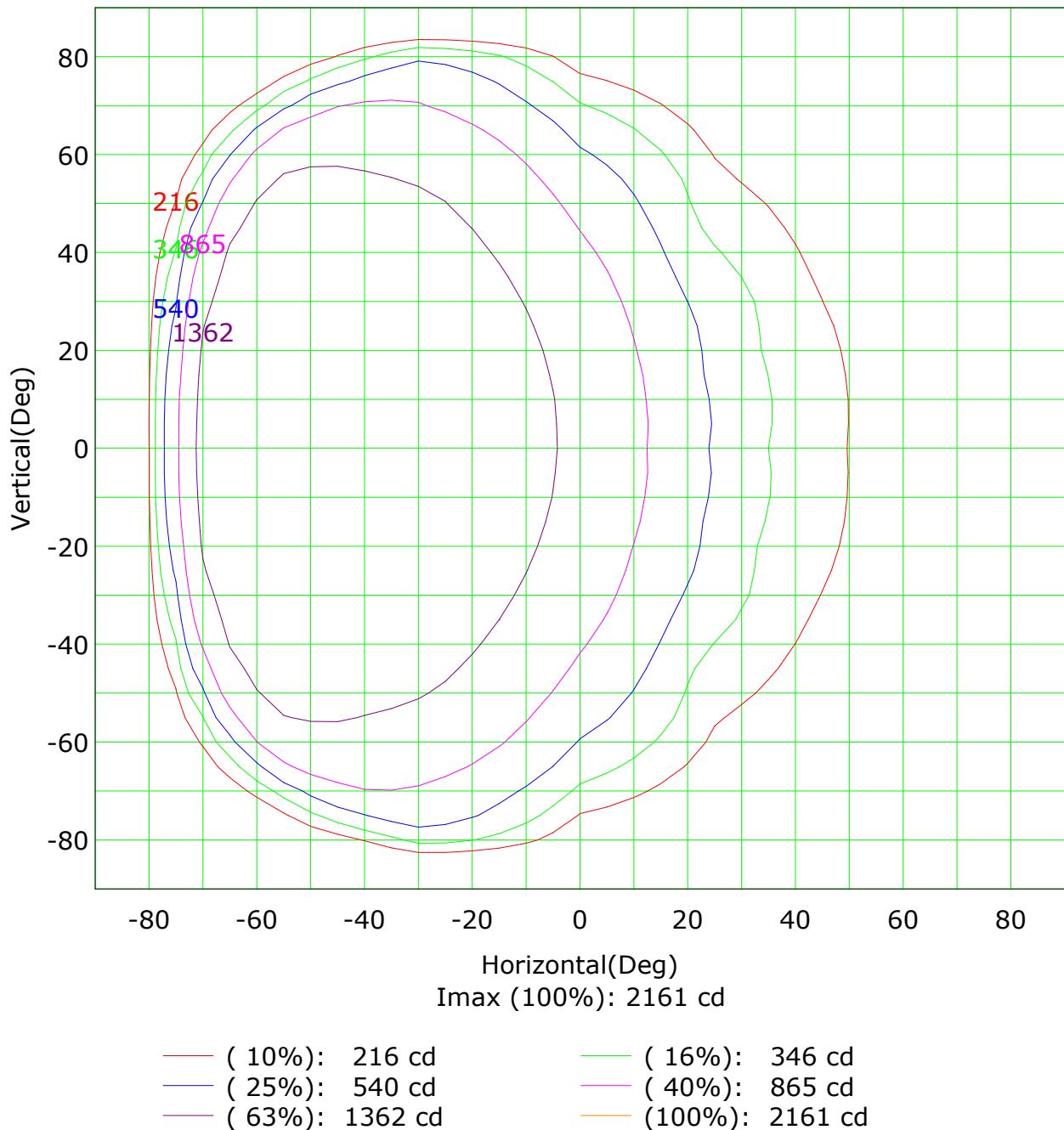
Spacing Criteria (Diagonal): 1.53



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:

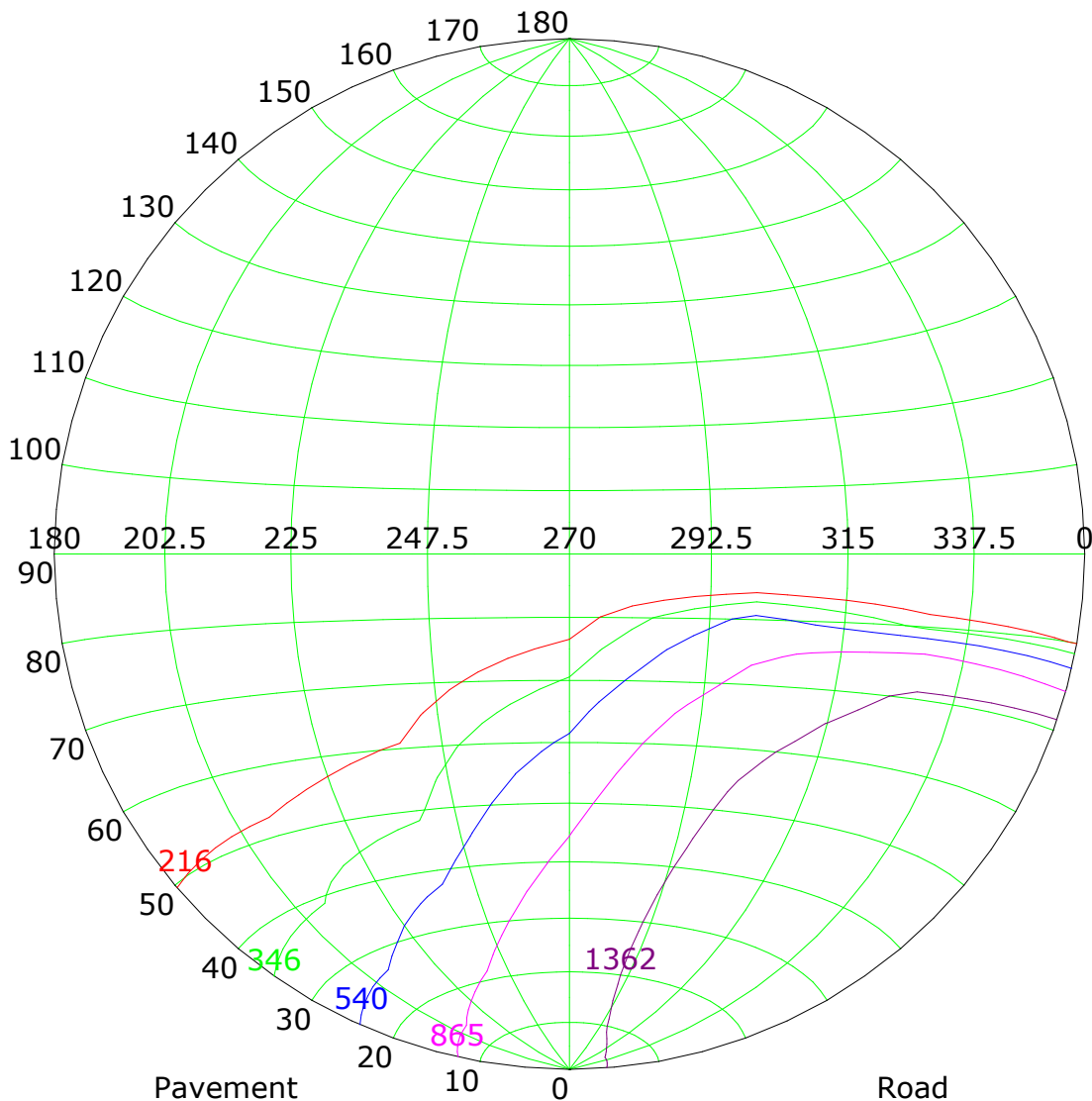
Isocandela (rectangle)



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)



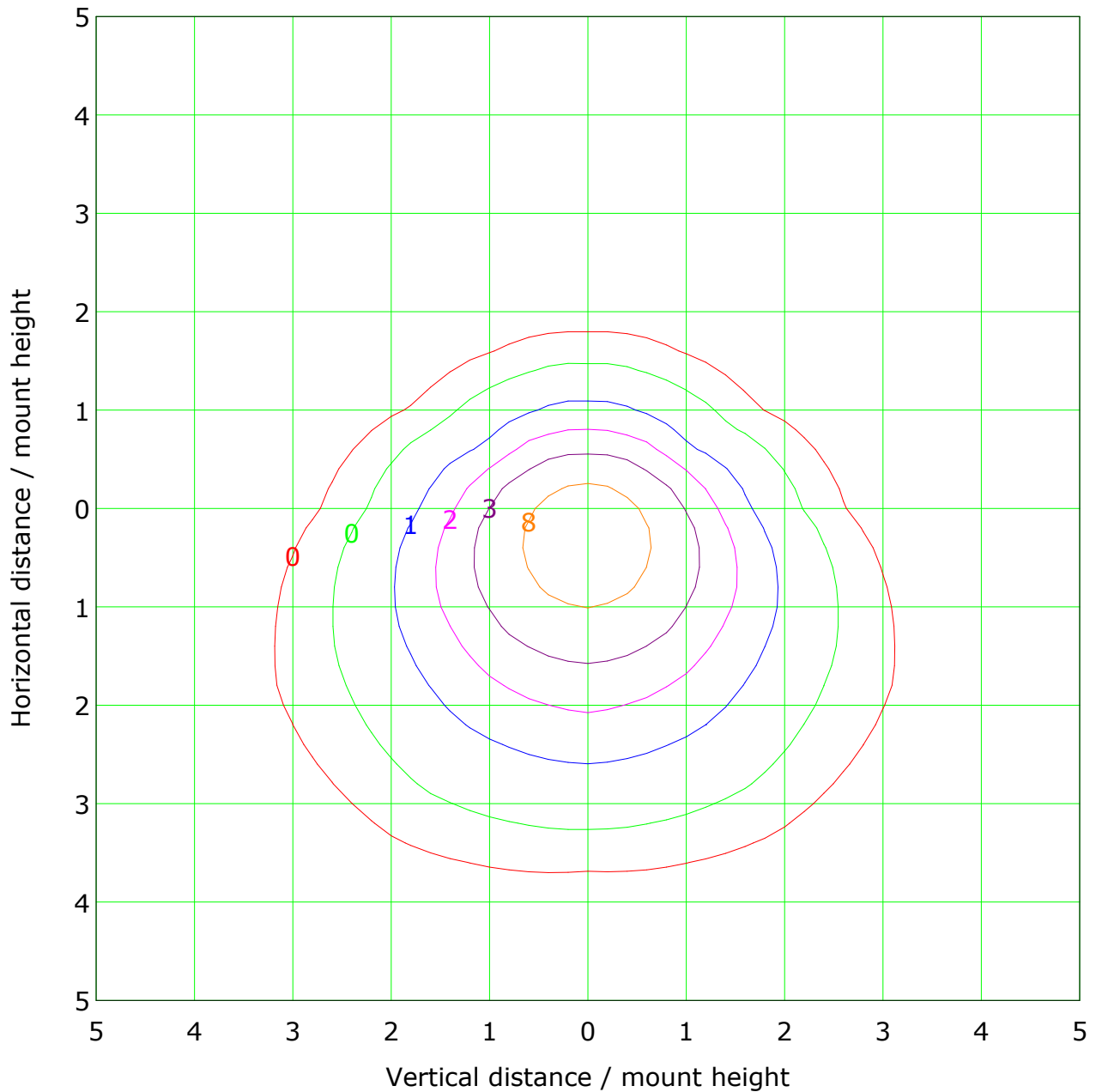
Imax (100%): 2161 cd

(10%): 216 cd	(16%): 346 cd
(25%): 540 cd	(40%): 865 cd
(63%): 1362 cd	(100%): 2161 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 0.959 cd/klm

IES: Semi-cut-off
Max.At80: 133.512 cd/klm
Max.80-90: 133.512 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 15.0 lx

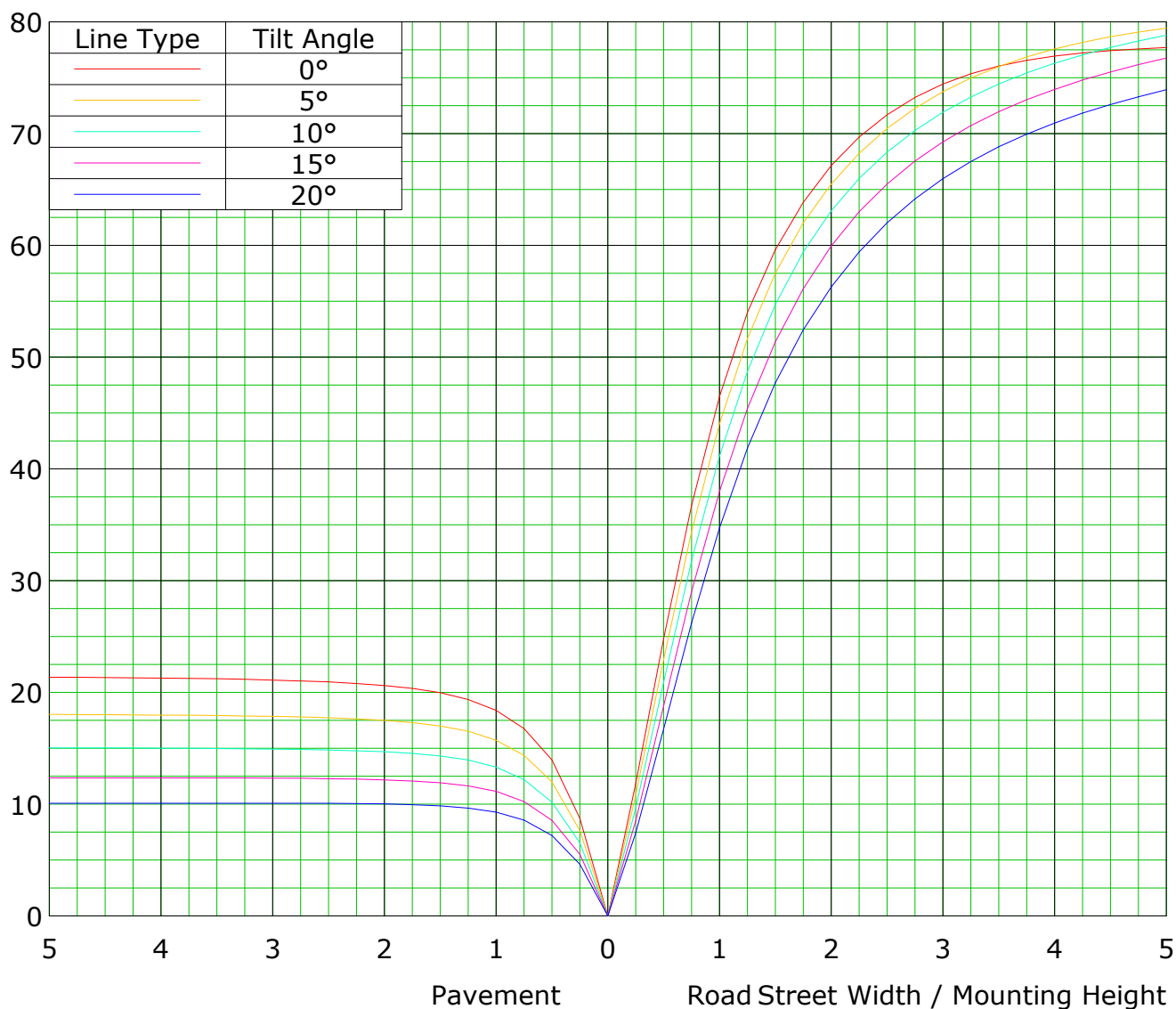
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.0 lx	(50%): 7.5 lx
(100%): 15.0 lx	

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(%)



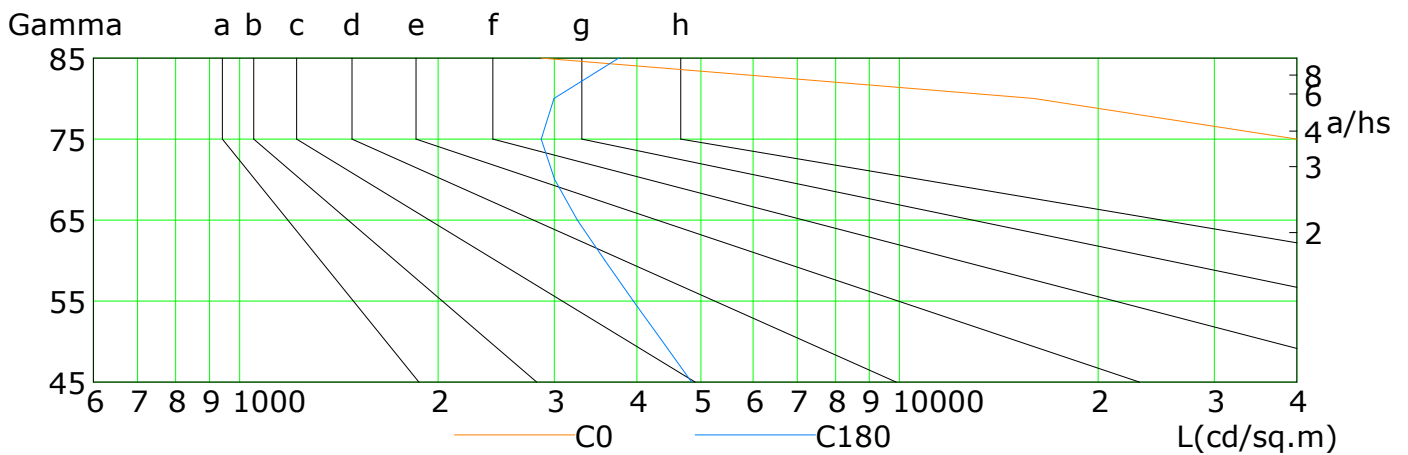
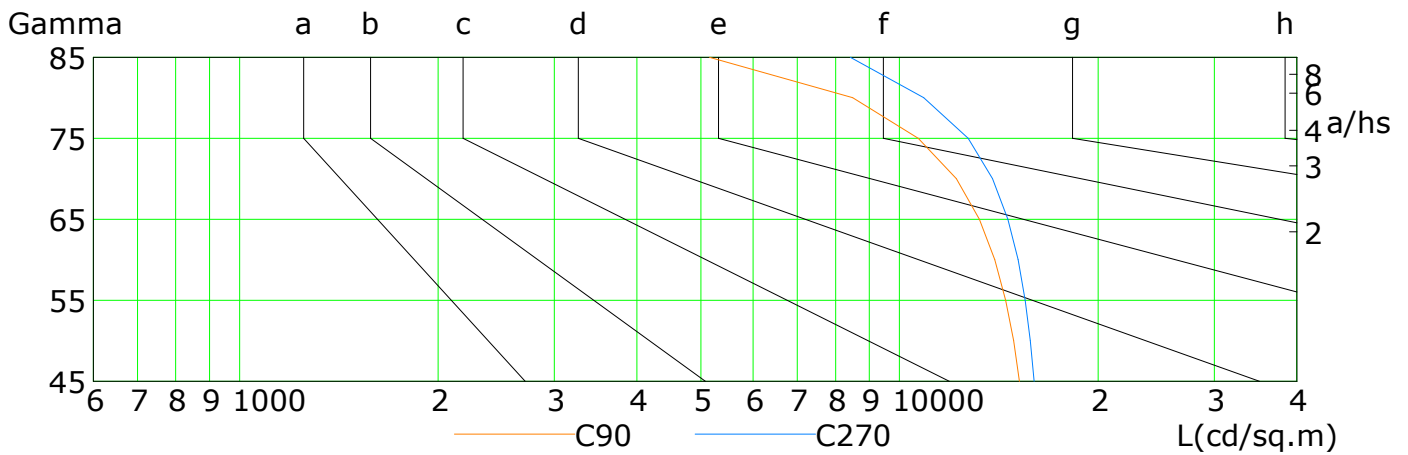
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

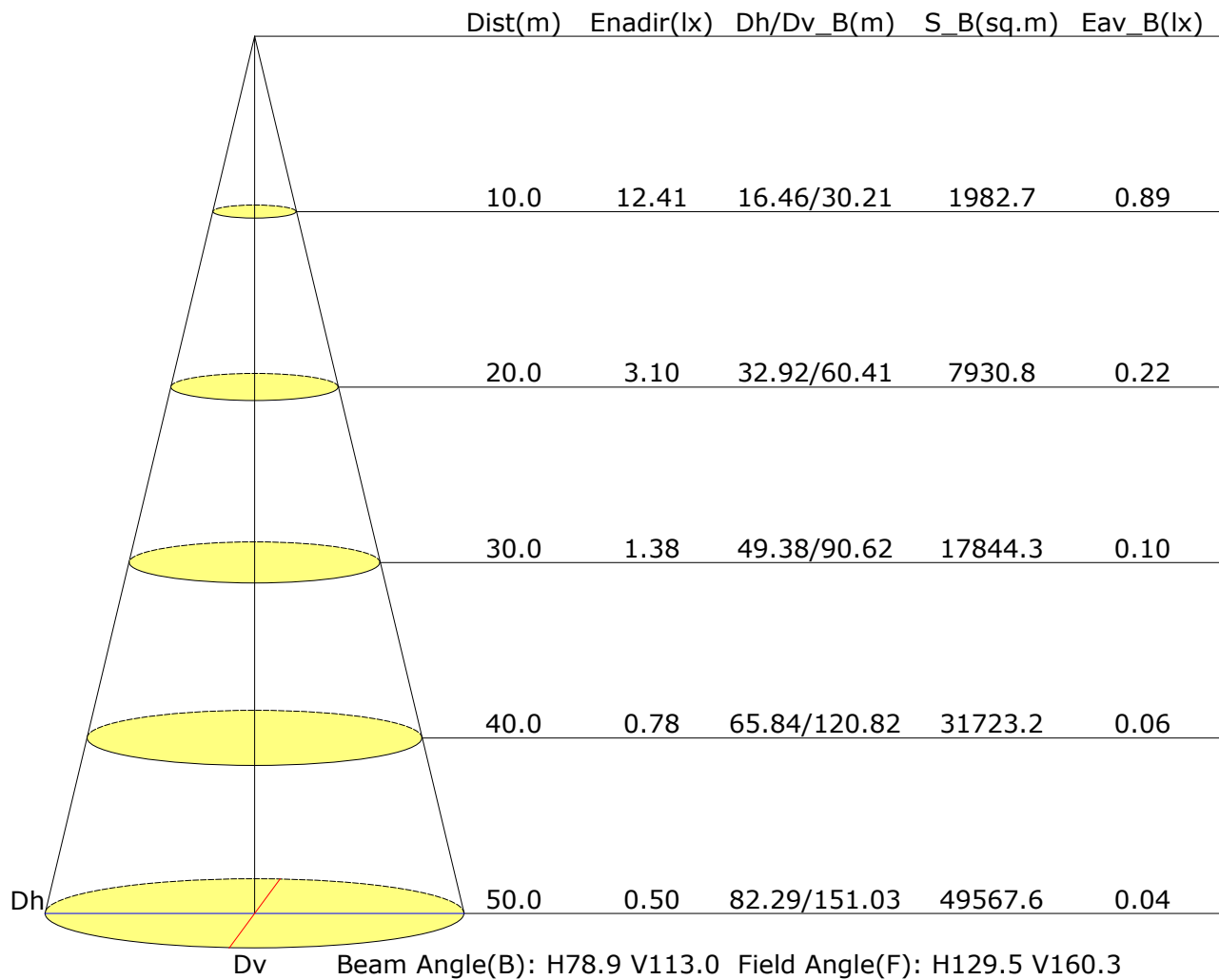


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40411	43456	46284	50206	56388	59809	40240	15978	2868
C90	15200	14891	14487	13940	13213	12190	10681	8493	5154
C180	4842	4373	3953	3576	3251	3001	2865	2997	3753
C270	15997	15793	15512	15127	14601	13832	12706	10884	8427

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:

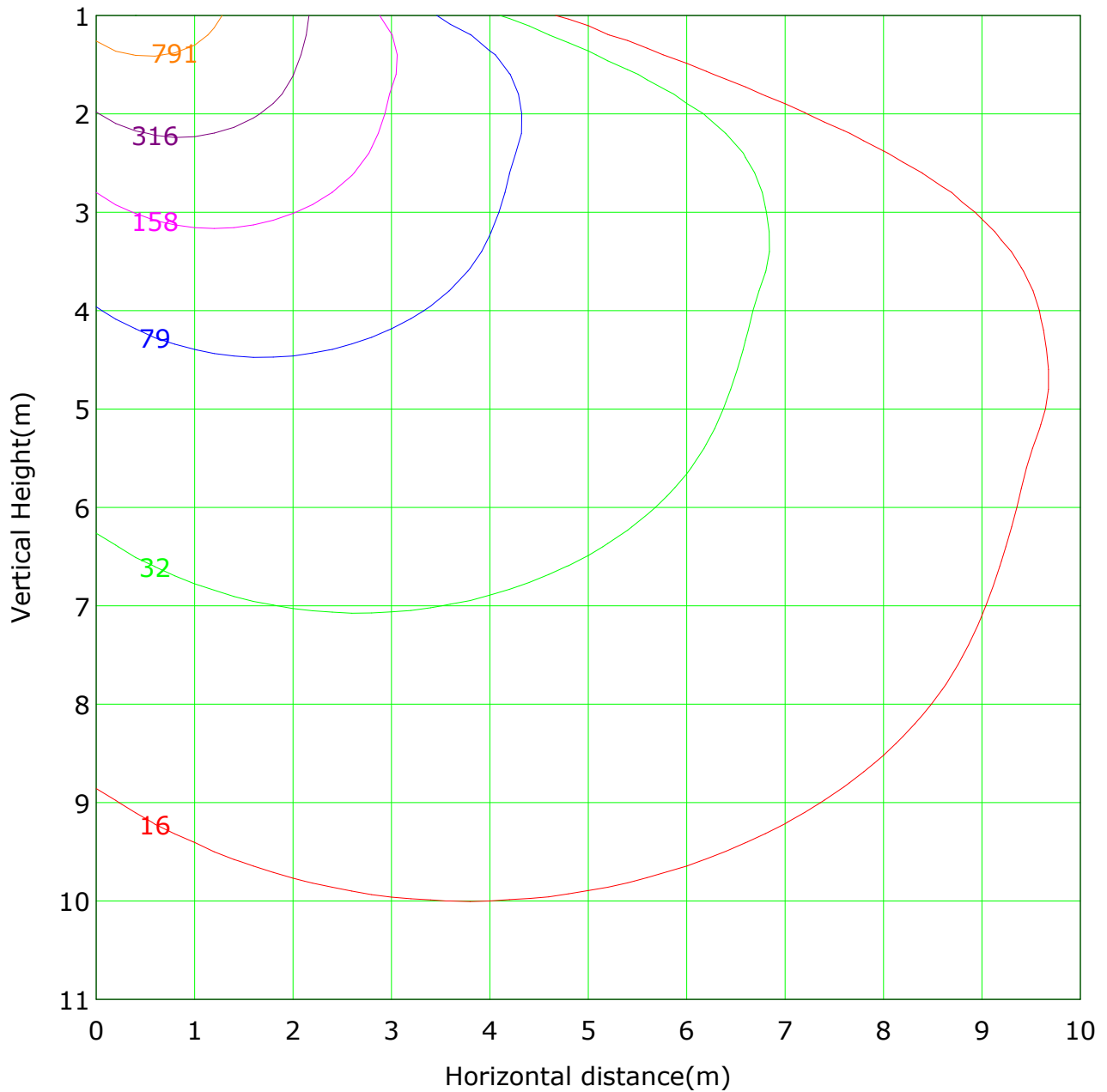
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1581.8 lx

(1%): 15.8 lx	(2%): 31.6 lx
(5%): 79.1 lx	(10%): 158.2 lx
(20%): 316.4 lx	(50%): 790.9 lx
(100%):1581.8 lx	

Area Flux Table

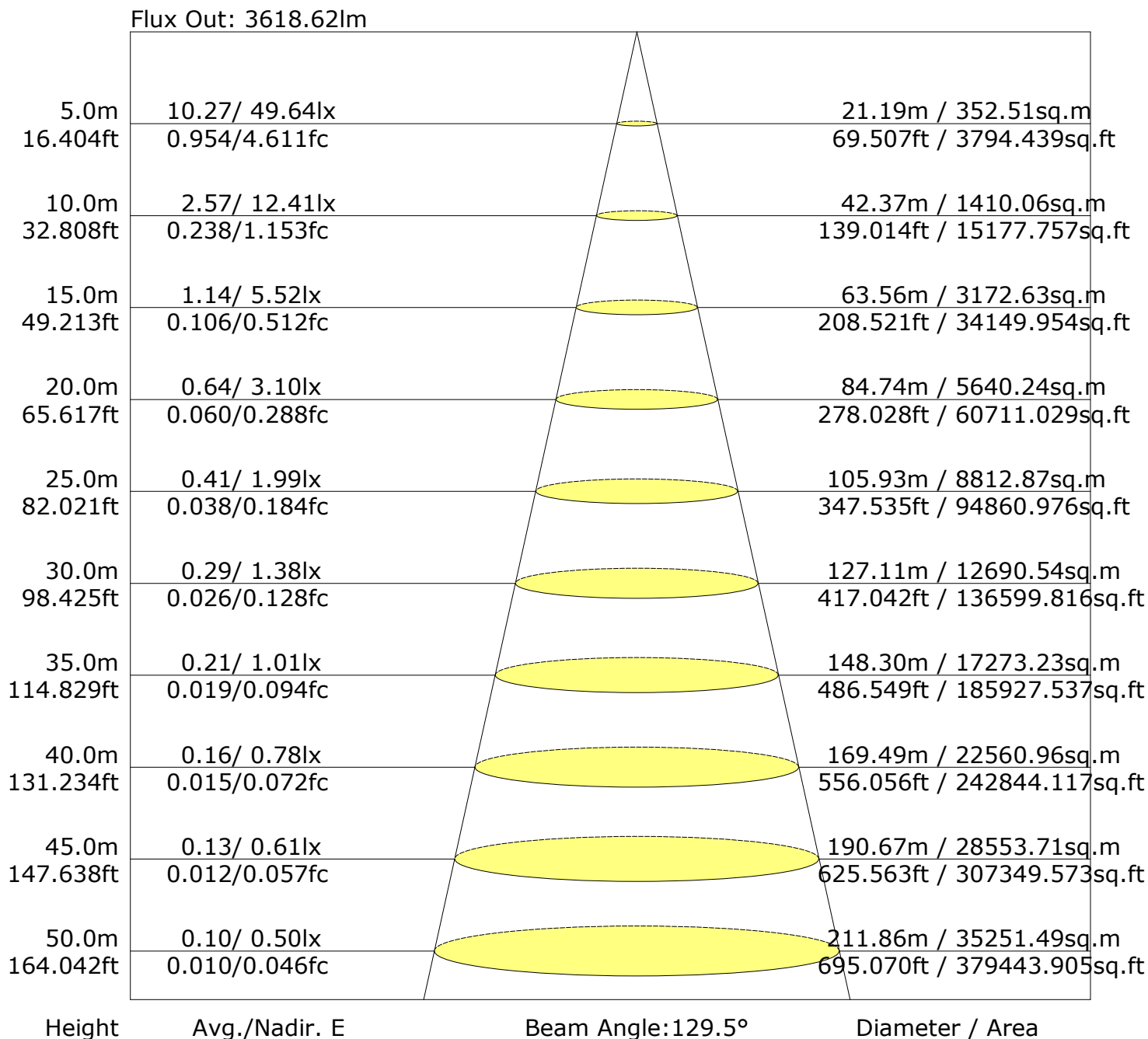
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Vertical plane	-90	0.0	0.0	0.1	0.2	0.4	0.5	0.7	1.2	1.6	2.6	3.7	4.1	3.0	1.3	0.4	0.1	0.0	0.0	0.0	19.9	7.5
	-80	0.0	0.1	0.4	0.6	1.0	1.4	2.5	4.5	6.6	10.3	15.1	18.4	16.9	10.9	4.6	1.2	0.1	0.0	94.7	79.4	
	-70	0.0	0.2	0.5	1.0	1.8	2.9	4.8	8.5	12.4	17.7	23.5	27.1	27.0	23.5	15.1	4.6	0.7	0.0	171.3	159.7	
	-60	0.0	0.3	0.7	1.4	2.7	4.5	7.0	12.1	17.8	24.3	30.8	34.6	34.0	30.6	23.8	10.7	1.6	0.0	237.1	226.4	
	-50	0.1	0.3	0.9	1.9	3.6	6.0	8.8	14.9	22.5	30.0	36.4	40.1	39.6	35.1	27.8	15.9	2.9	0.1	286.8	278.6	
	-40	0.1	0.4	1.1	2.4	4.3	7.3	11.3	18.0	26.7	34.6	41.1	44.6	44.6	39.6	30.1	19.0	4.4	0.1	329.8	322.7	
	-30	0.1	0.4	1.2	2.7	5.1	8.1	13.1	20.7	29.9	38.3	44.8	48.3	48.3	42.5	32.0	20.8	5.8	0.2	362.3	356.3	
	-20	0.1	0.4	1.3	3.0	5.5	8.6	13.8	22.6	32.0	40.7	47.2	50.9	49.9	44.2	33.6	22.0	6.7	0.2	382.8	377.5	
	-10	0.1	0.5	1.4	3.1	5.7	8.9	14.5	23.4	33.0	41.8	48.4	51.7	51.1	45.6	34.7	22.7	7.1	0.2	393.9	388.7	
	0	0.1	0.5	1.4	3.0	5.6	8.8	14.5	23.3	32.9	41.6	48.2	51.6	51.0	45.5	34.6	22.7	7.1	0.2	392.5	387.3	
Horizontal plane	10	0.1	0.4	1.3	3.0	5.5	8.5	13.6	22.3	31.5	40.1	46.6	50.3	49.4	43.8	33.3	21.9	6.6	0.2	378.5	373.1	
	20	0.1	0.4	1.2	2.7	5.0	7.9	12.7	20.2	29.1	37.3	43.8	47.4	47.6	41.9	31.7	20.6	5.7	0.2	355.4	349.2	
	30	0.1	0.4	1.1	2.3	4.2	7.0	10.9	17.2	25.7	33.5	39.9	43.5	43.6	38.8	29.6	18.7	4.2	0.1	320.8	313.6	
	40	0.1	0.3	0.9	1.9	3.5	5.7	8.3	14.1	21.4	28.6	35.0	38.8	38.5	34.2	27.1	15.4	2.7	0.1	276.6	267.9	
	50	0.0	0.3	0.7	1.4	2.6	4.3	6.6	11.3	16.6	22.9	29.3	33.2	32.8	29.5	22.9	9.9	1.4	0.0	225.8	214.5	
	60	0.0	0.2	0.5	1.0	1.7	2.7	4.4	7.8	11.3	16.3	22.1	25.6	25.7	22.2	13.6	4.0	0.6	0.0	159.5	147.3	
	70	0.0	0.1	0.4	0.6	0.9	1.3	2.2	3.9	5.6	9.1	13.7	16.8	15.2	9.4	3.8	1.0	0.1	0.0	84.1	67.8	
	80	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.9	1.1	1.8	2.6	2.8	1.9	0.8	0.2	0.0	0.0	0.0	13.8	3.6	
	90	0.8	5.4	15.1	32.3	59.2	94.8	150.3	246.9	357.9	471.3	572.4	629.6	620.3	539.5	398.8	231.2	57.9	1.8	4486		
	Flux(E)	0.0	0.0	0.0	0.0	31.7	75.0	134.1	235.7	349.4	446.0	569.5	627.2	618.0	537.0	395.8	227.9	53.8	0.0		4321	

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:

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	28.5	30.2	28.8	30.5	30.8	22.2	23.9	22.6	24.2	24.6
3H	31.4	33.0	31.8	33.3	33.7	23.9	25.5	24.3	25.8	26.2
4H	32.2	33.7	32.6	34.0	34.4	24.5	26.0	24.9	26.3	26.7
6H	32.3	33.7	32.7	34.1	34.5	24.9	26.3	25.3	26.6	27.0
8H	32.3	33.7	32.8	34.0	34.4	25.0	26.3	25.4	26.7	27.1
12H	32.3	33.6	32.7	34.0	34.4	25.0	26.3	25.4	26.6	27.1
X=4H Y=2H	29.1	30.6	29.5	30.9	31.3	24.0	25.5	24.4	25.8	26.2
3H	32.3	33.6	32.7	34.0	34.4	26.0	27.3	26.4	27.7	28.1
4H	33.3	34.4	33.7	34.8	35.2	26.9	28.0	27.3	28.4	28.8
6H	33.5	34.5	33.9	34.9	35.3	27.4	28.4	27.9	28.9	29.3
8H	33.5	34.4	33.9	34.8	35.3	27.5	28.5	28.0	28.9	29.4
12H	33.4	34.3	33.9	34.8	35.2	27.5	28.4	28.0	28.9	29.3
X=8H Y=4H	33.5	34.5	34.0	34.9	35.4	27.8	28.8	28.3	29.2	29.7
6H	33.7	34.5	34.3	35.0	35.5	28.6	29.4	29.2	29.9	30.4
8H	33.8	34.5	34.3	35.0	35.5	28.8	29.5	29.3	30.0	30.5
12H	33.8	34.4	34.3	34.9	35.4	28.9	29.5	29.4	30.0	30.5
X=12H Y=4H	33.6	34.4	34.0	34.9	35.3	27.9	28.7	28.4	29.2	29.7
6H	33.8	34.5	34.3	35.0	35.5	28.7	29.4	29.3	29.9	30.4
8H	33.9	34.5	34.4	34.9	35.5	28.9	29.5	29.4	30.0	30.6

Calculate in accordance with CIE 190:2010 The table is revised with 4486lm ($8\log(F/F_0) = 5.2$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

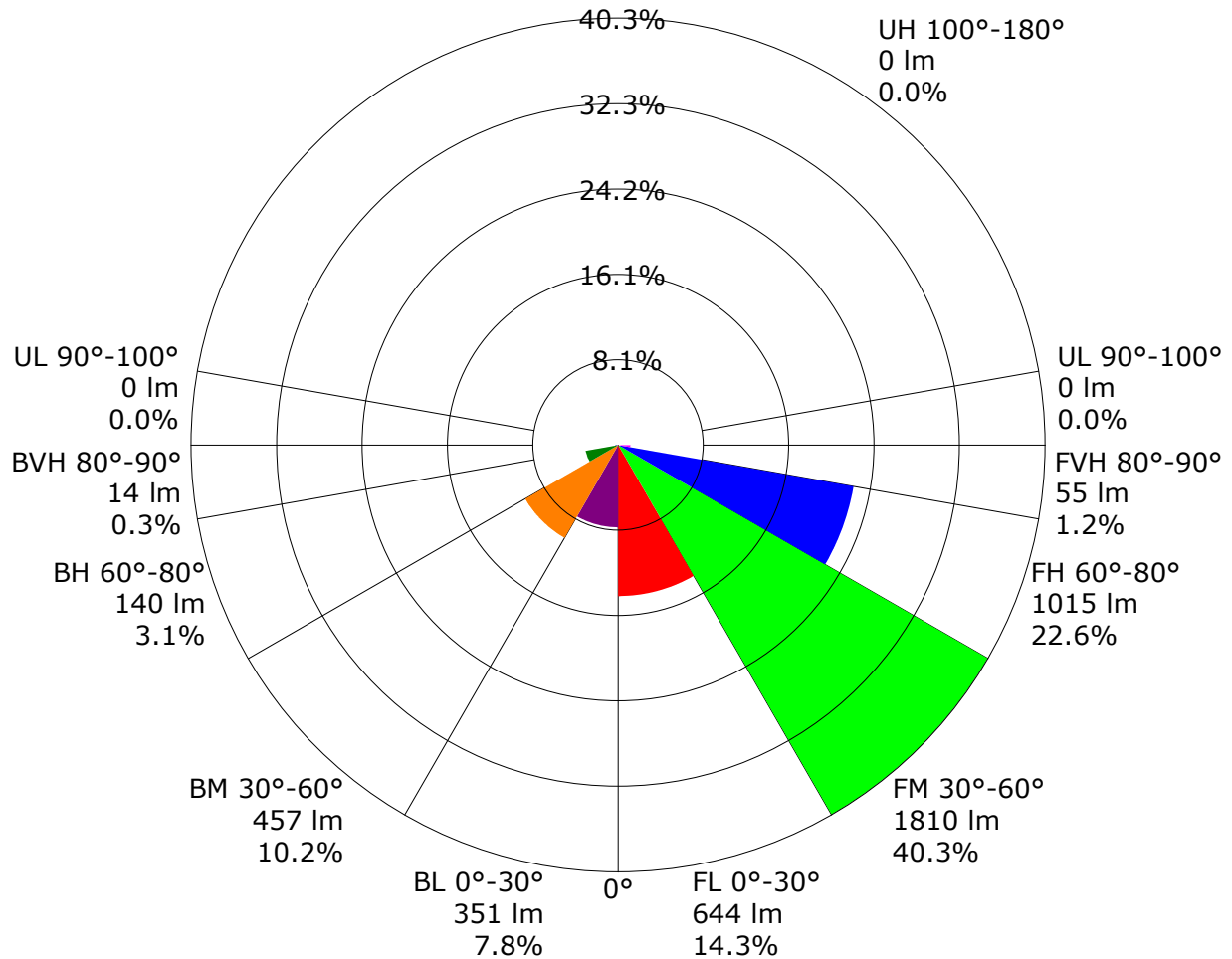
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	3523	78.5
	FL (0°-30°)	644	14.3
	FM (30°-60°)	1810	40.3
	FH (60°-80°)	1015	22.6
	FVH (80°-90°)	55	1.2
	BACK LIGHT	963	21.5
	BL (0°-30°)	351	7.8
	BM (30°-60°)	457	10.2
	BH (60°-80°)	140	3.1
	BVH (80°-90°)	14	0.3
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	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)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

C Plane (°):0.0-360.0: 30.0
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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	0.54	0.63	0.71	0.77	0.85	0.90	0.94	0.99	1.02	
	0.30		0.46	0.55	0.63	0.69	0.78	0.84	0.89	0.95	0.99	
	0.20		0.40	0.48	0.57	0.63	0.73	0.79	0.84	0.91	0.95	
0.50	0.50	0.20	0.53	0.61	0.69	0.74	0.82	0.87	0.90	0.95	0.98	
	0.30		0.45	0.54	0.62	0.68	0.76	0.82	0.86	0.91	0.95	
	0.20		0.40	0.48	0.56	0.62	0.71	0.77	0.82	0.88	0.92	
0.30	0.50	0.20	0.51	0.59	0.66	0.71	0.79	0.83	0.87	0.91	0.94	
	0.30		0.45	0.52	0.60	0.66	0.74	0.79	0.83	0.88	0.92	
	0.20		0.40	0.47	0.56	0.61	0.70	0.75	0.80	0.86	0.89	
0.00	0.00	0.00	0.37	0.45	0.53	0.58	0.66	0.72	0.76	0.81	0.85	
<p>Rating:39W 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 = 1.50									
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	1.03	0.88	0.75	0.66	0.52	0.43	0.37	0.29	0.23	
	0.30		0.86	0.76	0.65	0.58	0.47	0.40	0.34	0.27	0.22	
	0.20		0.74	0.66	0.58	0.52	0.43	0.37	0.32	0.25	0.21	
0.50	0.50	0.20	1.00	0.85	0.72	0.63	0.50	0.45	0.35	0.27	0.22	
	0.30		0.84	0.74	0.64	0.56	0.46	0.38	0.33	0.26	0.21	
	0.20		0.73	0.65	0.57	0.51	0.42	0.36	0.31	0.25	0.20	
0.30	0.50	0.20	0.97	0.82	0.69	0.61	0.48	0.40	0.34	0.26	0.21	
	0.30		0.83	0.72	0.62	0.55	0.44	0.37	0.32	0.25	0.20	
	0.20		0.72	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
0.00	0.00	0.00	0.63	0.55	0.47	0.42	0.34	0.28	0.24	0.19	0.15	
Rating:39W 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	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.14	0.15	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	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		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	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		0.04	0.06	0.07	0.08	0.10	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:39W 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	1240.6	1.2	1.2	0.03	0.03
1.0-2.0	1239.9	3.6	4.7	0.08	0.11
2.0-3.0	1239.3	5.9	10.7	0.13	0.24
3.0-4.0	1239.0	8.3	19.0	0.18	0.42
4.0-5.0	1238.1	10.7	29.6	0.24	0.66
5.0-6.0	1236.3	13.0	42.6	0.29	0.95
6.0-7.0	1234.5	15.3	57.9	0.34	1.29
7.0-8.0	1233.0	17.6	75.6	0.39	1.69
8.0-9.0	1231.0	20.0	95.5	0.44	2.13
9.0-10.0	1228.4	22.2	117.8	0.50	2.63
10.0-11.0	1225.4	24.5	142.3	0.55	3.17
11.0-12.0	1222.6	26.7	169.0	0.60	3.77
12.0-13.0	1219.7	28.9	197.9	0.65	4.41
13.0-14.0	1216.2	31.1	229.1	0.69	5.11
14.0-15.0	1212.2	33.3	262.4	0.74	5.85
15.0-16.0	1208.1	35.4	297.8	0.79	6.64
16.0-17.0	1204.2	37.5	335.3	0.84	7.47
17.0-18.0	1199.7	39.6	374.8	0.88	8.36
18.0-19.0	1194.6	41.6	416.4	0.93	9.28
19.0-20.0	1189.6	43.5	460.0	0.97	10.25
20.0-21.0	1184.6	45.5	505.4	1.01	11.27
21.0-22.0	1179.2	47.4	552.8	1.06	12.32
22.0-23.0	1173.2	49.2	602.1	1.10	13.42
23.0-24.0	1167.2	51.0	653.1	1.14	14.56
24.0-25.0	1161.2	52.8	705.9	1.18	15.74
25.0-26.0	1155.0	54.5	760.4	1.22	16.95
26.0-27.0	1148.5	56.2	816.6	1.25	18.20
27.0-28.0	1141.8	57.8	874.5	1.29	19.49
28.0-29.0	1135.1	59.4	933.8	1.32	20.82
29.0-30.0	1128.5	60.9	994.8	1.36	22.18
30.0-31.0	1121.7	62.4	1057.2	1.39	23.57
31.0-32.0	1115.2	63.9	1121.1	1.42	24.99
32.0-33.0	1109.0	65.3	1186.5	1.46	26.45
33.0-34.0	1102.6	66.7	1253.2	1.49	27.94
34.0-35.0	1096.3	68.1	1321.3	1.52	29.45
35.0-36.0	1090.2	69.4	1390.7	1.55	31.00

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	1084.1	70.7	1461.4	1.58	32.58
37.0-38.0	1077.7	71.9	1533.4	1.60	34.18
38.0-39.0	1071.0	73.1	1606.5	1.63	35.81
39.0-40.0	1064.1	74.2	1680.7	1.65	37.47
40.0-41.0	1056.8	75.3	1756.0	1.68	39.14
41.0-42.0	1049.0	76.2	1832.2	1.70	40.84
42.0-43.0	1040.5	77.1	1909.3	1.72	42.56
43.0-44.0	1031.4	77.9	1987.1	1.74	44.30
44.0-45.0	1021.9	78.5	2065.7	1.75	46.05
45.0-46.0	1011.9	79.1	2144.8	1.76	47.81
46.0-47.0	1001.4	79.7	2224.5	1.78	49.59
47.0-48.0	990.4	80.1	2304.6	1.79	51.37
48.0-49.0	978.8	80.4	2385.0	1.79	53.17
49.0-50.0	966.8	80.6	2465.6	1.80	54.96
50.0-51.0	954.3	80.7	2546.3	1.80	56.76
51.0-52.0	940.9	80.8	2627.1	1.80	58.56
52.0-53.0	927.0	80.7	2707.7	1.80	60.36
53.0-54.0	912.8	80.5	2788.2	1.79	62.15
54.0-55.0	897.9	80.2	2868.4	1.79	63.94
55.0-56.0	882.6	79.8	2948.1	1.78	65.72
56.0-57.0	867.0	79.3	3027.4	1.77	67.49
57.0-58.0	850.8	78.7	3106.1	1.75	69.24
58.0-59.0	834.3	78.0	3184.1	1.74	70.98
59.0-60.0	817.7	77.3	3261.4	1.72	72.70
60.0-61.0	801.5	76.5	3337.9	1.71	74.41
61.0-62.0	785.5	75.7	3413.6	1.69	76.10
62.0-63.0	769.0	74.8	3488.4	1.67	77.76
63.0-64.0	752.5	73.8	3562.2	1.65	79.41
64.0-65.0	735.6	72.8	3635.0	1.62	81.03
65.0-66.0	718.0	71.6	3706.7	1.60	82.63
66.0-67.0	698.6	70.3	3776.9	1.57	84.20
67.0-68.0	676.9	68.6	3845.5	1.53	85.72
68.0-69.0	653.3	66.7	3912.2	1.49	87.21
69.0-70.0	628.2	64.5	3976.7	1.44	88.65
70.0-71.0	601.3	62.2	4038.8	1.39	90.03
71.0-72.0	571.2	59.4	4098.2	1.32	91.36

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°): 2065.69 lm

%lum = 46.0%

%lamp = 46.0%

cone flux(120°): 3261.37 lm

%lum = 72.7%

%lamp = 72.7%

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	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9
G1.0	1268.2	1266.2	1253.6	1240.0	1225.1	1214.1	1211.0	1214.3	1226.8
G2.0	1296.8	1290.8	1267.6	1238.8	1209.8	1188.0	1178.1	1188.1	1210.9
G3.0	1328.9	1315.8	1281.8	1237.0	1193.3	1162.1	1148.2	1163.0	1194.9
G4.0	1358.9	1341.4	1295.2	1235.0	1176.9	1135.4	1120.8	1137.7	1180.8
G5.0	1386.3	1366.1	1306.7	1232.1	1160.2	1108.3	1091.5	1110.2	1165.7
G6.0	1413.0	1390.1	1318.4	1229.3	1142.7	1081.5	1058.6	1083.2	1148.6
G7.0	1444.2	1414.0	1330.7	1226.0	1125.5	1054.7	1027.7	1057.5	1130.9
G8.0	1474.0	1437.1	1342.5	1221.9	1108.2	1027.6	1000.2	1031.6	1115.7
G9.0	1500.9	1460.3	1353.1	1217.5	1089.8	1000.7	971.7	1004.3	1099.9
G10.0	1527.2	1484.1	1362.9	1212.8	1071.8	973.4	939.5	976.8	1081.6
G11.0	1556.7	1506.1	1373.1	1207.7	1053.8	946.4	907.6	950.9	1062.9
G12.0	1585.5	1528.0	1382.7	1202.1	1035.2	919.7	879.8	923.9	1046.4
G13.0	1612.0	1550.6	1391.7	1196.3	1016.4	892.3	851.4	896.7	1029.4
G14.0	1637.2	1572.7	1399.8	1189.8	997.6	865.1	821.0	869.9	1010.7
G15.0	1664.7	1593.2	1407.5	1183.2	978.1	838.1	789.1	843.0	990.6
G16.0	1692.6	1614.0	1415.4	1175.9	959.0	811.0	760.5	815.7	972.8
G17.0	1718.3	1634.8	1422.5	1168.3	939.4	784.2	733.4	789.7	955.5
G18.0	1741.6	1654.2	1428.8	1160.5	919.5	757.4	704.2	762.5	936.2
G19.0	1767.1	1674.0	1434.6	1151.9	899.7	730.5	673.8	735.5	915.8
G20.0	1793.0	1692.7	1440.6	1143.5	880.0	704.4	645.3	709.4	896.4
G21.0	1817.0	1711.0	1445.5	1134.4	859.6	678.1	619.2	683.5	878.0
G22.0	1839.3	1728.8	1449.6	1124.8	839.8	652.2	591.7	657.0	858.7
G23.0	1861.4	1746.0	1453.2	1115.1	819.7	626.2	563.7	631.3	837.7
G24.0	1885.1	1762.4	1457.2	1104.8	798.8	601.0	537.5	605.9	817.3
G25.0	1907.9	1778.5	1460.2	1094.3	778.2	576.0	513.7	580.6	798.5
G26.0	1927.4	1793.4	1462.3	1083.5	758.2	551.4	489.2	556.4	779.0
G27.0	1947.6	1808.5	1463.9	1072.2	737.5	527.9	464.7	532.4	757.8
G28.0	1969.6	1822.9	1465.3	1060.4	716.4	504.1	441.8	508.6	736.7
G29.0	1989.5	1836.0	1465.9	1048.8	695.5	481.3	422.3	485.6	716.7
G30.0	2006.5	1849.1	1466.2	1036.3	675.2	459.5	404.6	463.8	696.5
G31.0	2024.1	1861.0	1465.8	1023.9	654.0	438.8	388.9	443.0	675.2
G32.0	2043.2	1872.6	1464.7	1010.9	633.2	419.6	375.8	425.1	654.7
G33.0	2059.5	1883.4	1462.6	997.6	613.1	402.3	364.5	408.6	635.0
G34.0	2073.8	1893.3	1460.7	983.9	592.1	387.8	354.3	393.4	613.8
G35.0	2088.3	1902.6	1457.9	969.8	571.0	374.1	345.8	379.8	592.9

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 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	2103.0	1911.4	1454.2	955.5	550.6	362.0	340.4	368.2	572.6
G37.0	2116.0	1919.1	1450.2	940.7	530.0	351.8	332.7	359.3	551.9
G38.0	2126.9	1926.3	1446.0	926.1	509.9	342.1	324.1	350.9	531.8
G39.0	2136.0	1932.3	1440.9	910.6	489.7	334.4	315.3	342.7	511.9
G40.0	2145.1	1937.1	1435.0	894.6	469.9	328.2	305.9	336.8	491.4
G41.0	2152.2	1941.2	1428.5	879.2	450.4	320.5	296.5	329.1	472.0
G42.0	2157.2	1944.1	1421.9	863.1	431.6	311.9	287.3	320.3	452.8
G43.0	2160.2	1945.5	1415.1	846.4	412.6	302.7	277.5	310.8	433.4
G44.0	2161.3	1946.0	1407.1	829.5	394.2	293.5	268.2	300.8	414.5
G45.0	2160.2	1945.0	1398.6	812.6	376.7	284.1	258.9	291.2	396.5
G46.0	2156.3	1941.8	1390.0	795.9	359.9	275.1	249.6	281.8	378.8
G47.0	2150.2	1937.0	1380.8	777.8	343.9	265.3	240.0	272.1	362.9
G48.0	2140.9	1930.8	1370.4	759.5	329.7	255.6	230.5	261.5	348.6
G49.0	2127.4	1922.3	1359.9	741.6	316.8	246.2	221.0	251.4	334.6
G50.0	2111.7	1911.3	1349.5	723.6	304.9	237.0	212.5	242.3	321.7
G51.0	2094.6	1897.9	1337.7	704.7	293.8	227.4	203.9	233.0	309.4
G52.0	2072.8	1881.6	1325.4	685.7	283.5	218.1	195.4	222.6	298.7
G53.0	2051.0	1862.3	1313.0	666.6	273.8	208.9	187.3	213.0	290.0
G54.0	2029.6	1840.4	1299.2	647.8	264.8	200.2	179.2	204.7	281.1
G55.0	2007.0	1814.8	1284.8	628.2	258.0	191.4	171.4	195.3	272.3
G56.0	1983.7	1788.7	1270.4	607.8	250.0	182.5	163.7	185.8	265.1
G57.0	1961.9	1761.1	1253.7	588.0	239.9	174.1	156.3	177.4	256.6
G58.0	1937.9	1731.7	1237.3	568.4	229.8	166.0	149.1	169.5	247.2
G59.0	1915.5	1704.0	1219.0	547.4	220.6	157.7	142.0	160.6	236.3
G60.0	1897.8	1675.1	1199.1	526.9	210.2	149.9	135.2	152.5	225.3
G61.0	1887.0	1647.2	1178.4	506.6	200.7	142.2	128.8	145.1	215.2
G62.0	1877.2	1620.0	1155.2	485.1	189.9	134.6	122.0	137.1	203.9
G63.0	1861.1	1594.0	1131.2	464.7	179.9	127.5	116.1	129.5	193.8
G64.0	1835.1	1575.9	1105.2	443.7	169.8	119.8	110.0	122.1	182.9
G65.0	1801.6	1561.2	1075.8	422.1	159.2	113.1	103.9	114.8	171.7
G66.0	1761.7	1543.4	1045.4	401.0	149.5	106.5	98.4	107.9	161.6
G67.0	1721.9	1514.5	1009.1	379.6	139.2	100.2	92.7	101.9	150.6
G68.0	1675.7	1477.0	974.2	358.4	129.8	94.1	87.7	95.3	140.9
G69.0	1615.7	1434.5	937.2	336.7	120.3	88.2	82.5	89.5	130.5
G70.0	1546.5	1392.6	901.8	315.2	111.1	82.5	77.6	83.4	120.7
G71.0	1450.8	1339.8	867.1	293.9	102.2	77.1	72.9	77.9	111.3

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:

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	1240.9	1240.9	1240.9	1240.9					
G1.0	1241.0	1256.1	1267.2	1268.2					
G2.0	1241.6	1271.2	1292.3	1296.8					
G3.0	1241.0	1285.7	1317.9	1328.9					
G4.0	1240.2	1299.7	1344.1	1358.9					
G5.0	1238.4	1313.7	1369.5	1386.3					
G6.0	1237.2	1326.9	1394.2	1413.0					
G7.0	1235.1	1339.9	1418.1	1444.2					
G8.0	1232.5	1352.4	1442.7	1474.0					
G9.0	1229.5	1364.4	1466.2	1500.9					
G10.0	1226.2	1375.7	1490.4	1527.2					
G11.0	1222.2	1386.7	1513.8	1556.7					
G12.0	1218.2	1397.8	1536.4	1585.5					
G13.0	1213.3	1408.0	1558.9	1612.0					
G14.0	1208.2	1417.9	1582.3	1637.2					
G15.0	1202.7	1426.8	1603.4	1664.7					
G16.0	1196.8	1435.8	1624.9	1692.6					
G17.0	1190.1	1444.0	1646.2	1718.3					
G18.0	1183.5	1451.8	1666.8	1741.6					
G19.0	1176.2	1458.7	1686.7	1767.1					
G20.0	1168.7	1465.7	1706.6	1793.0					
G21.0	1160.3	1472.0	1725.5	1817.0					
G22.0	1152.2	1477.6	1744.1	1839.3					
G23.0	1143.4	1482.5	1761.5	1861.4					
G24.0	1134.0	1487.0	1779.2	1885.1					
G25.0	1124.7	1490.6	1795.9	1907.9					
G26.0	1114.8	1494.3	1812.2	1927.4					
G27.0	1104.0	1497.3	1828.0	1947.6					
G28.0	1093.2	1499.2	1842.6	1969.6					
G29.0	1082.3	1500.6	1856.8	1989.5					
G30.0	1070.8	1501.8	1871.2	2006.5					
G31.0	1059.0	1502.4	1884.3	2024.1					
G32.0	1046.6	1502.1	1896.6	2043.2					
G33.0	1033.9	1501.4	1908.1	2059.5					
G34.0	1020.7	1500.2	1919.4	2073.8					
G35.0	1007.8	1498.5	1929.5	2088.3					

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	994.0	1495.9	1939.1	2103.0					
G37.0	979.6	1492.5	1948.0	2116.0					
G38.0	965.6	1488.7	1955.5	2126.9					
G39.0	950.9	1484.3	1962.1	2136.0					
G40.0	935.4	1479.5	1968.0	2145.1					
G41.0	920.2	1474.1	1972.9	2152.2					
G42.0	904.2	1468.0	1976.3	2157.2					
G43.0	888.2	1461.3	1978.5	2160.2					
G44.0	872.2	1454.0	1979.5	2161.3					
G45.0	855.2	1446.5	1978.6	2160.2					
G46.0	838.1	1438.3	1976.2	2156.3					
G47.0	821.3	1429.4	1972.1	2150.2					
G48.0	803.9	1419.9	1966.1	2140.9					
G49.0	785.4	1410.1	1957.3	2127.4					
G50.0	767.5	1399.8	1947.0	2111.7					
G51.0	749.2	1388.7	1933.7	2094.6					
G52.0	730.2	1377.0	1917.2	2072.8					
G53.0	711.6	1365.0	1897.8	2051.0					
G54.0	692.3	1351.8	1875.2	2029.6					
G55.0	672.6	1337.9	1850.0	2007.0					
G56.0	653.6	1323.3	1824.5	1983.7					
G57.0	633.6	1307.8	1798.0	1961.9					
G58.0	613.0	1291.3	1770.2	1937.9					
G59.0	593.2	1272.5	1743.6	1915.5					
G60.0	571.8	1253.7	1715.2	1897.8					
G61.0	551.9	1232.5	1688.6	1887.0					
G62.0	530.6	1210.9	1661.1	1877.2					
G63.0	509.3	1186.1	1635.5	1861.1					
G64.0	488.3	1160.3	1617.3	1835.1					
G65.0	466.5	1130.6	1602.8	1801.6					
G66.0	445.5	1099.9	1587.3	1761.7					
G67.0	423.1	1064.4	1561.3	1721.9					
G68.0	401.6	1028.6	1524.8	1675.7					
G69.0	379.5	992.5	1483.7	1615.7					
G70.0	357.6	956.8	1440.9	1546.5					
G71.0	335.9	921.2	1393.4	1450.8					

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 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	29819.26
L 0-180(75) av	21552.65
L 0-180(85) av	3310.46
L 90-270(65) av	13906.62
L 90-270(75) av	11693.89
L 90-270(85) av	6790.58
L 45(65) av	23196.71
L 45(75) av	24578.04
L 45(85) av	7035.00

Standard: GB/T 29293-2012