

Report No.: MSTLAB250527003

Test Time: 2025-05-29

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: 0.319 A

Power: 38.21 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Measurement Flux: 5068 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H146.9,H82.4,H46.4,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V151,V92.7,V61.3,V0

Luminous Efficacy (lm/w): 132.64

C0r0 Intensity: 2104.57 cd

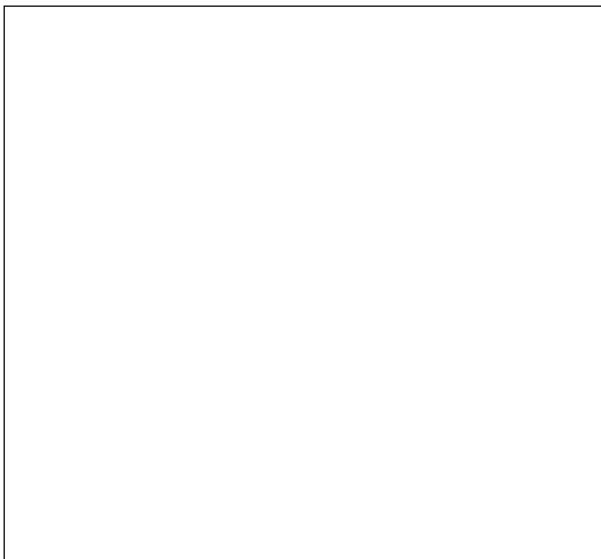
Max. Intensity: 2344.58 cd

Pos of Max. Intensity: H180 V28

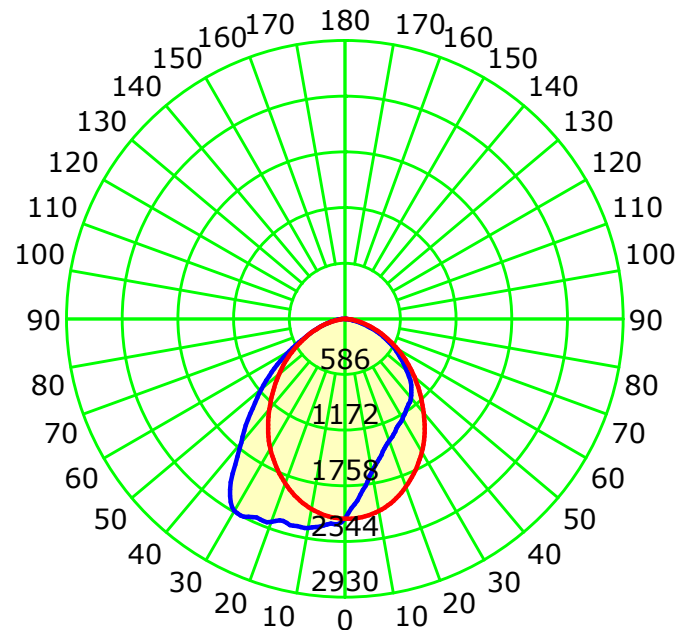
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.14

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 87.6°

— 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

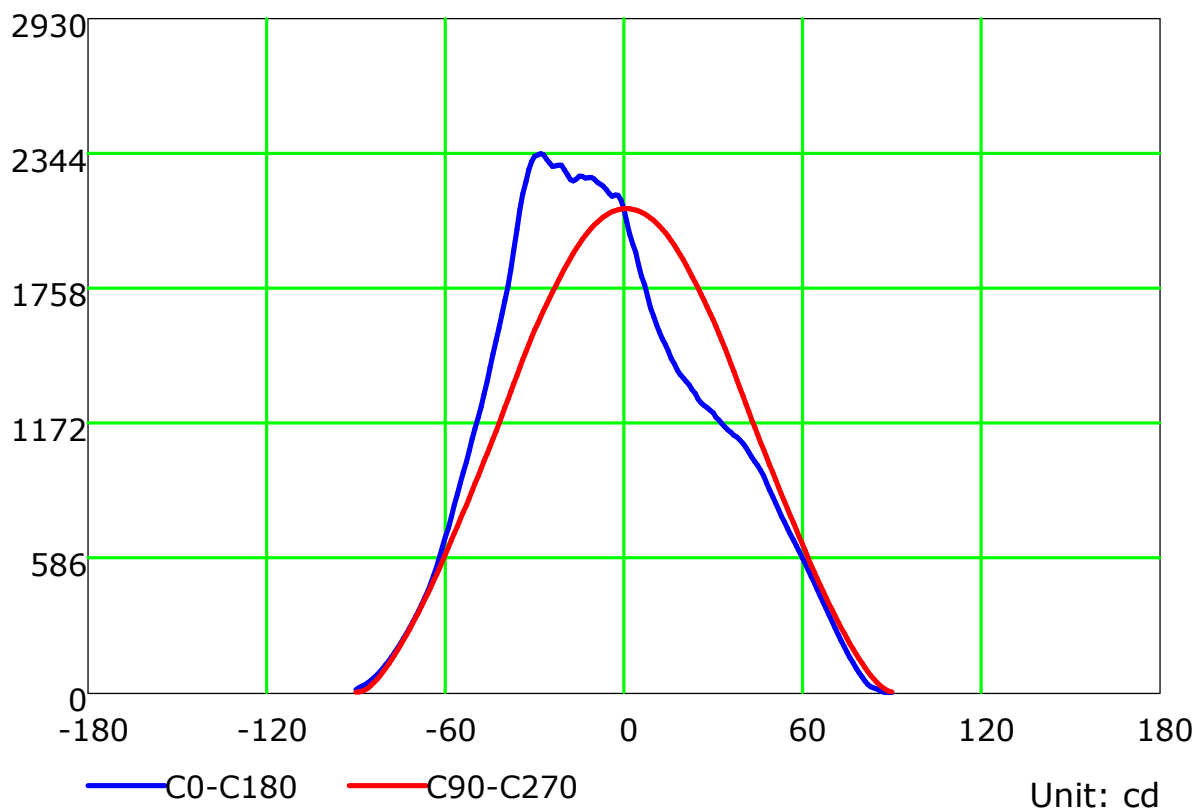
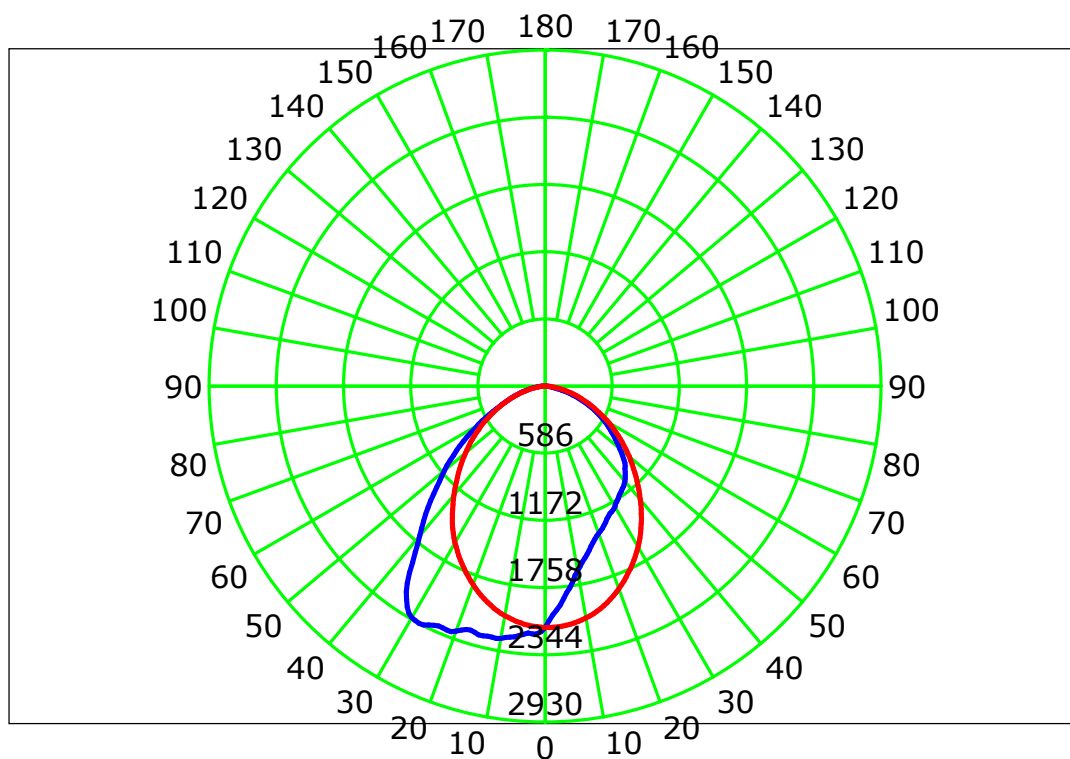
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

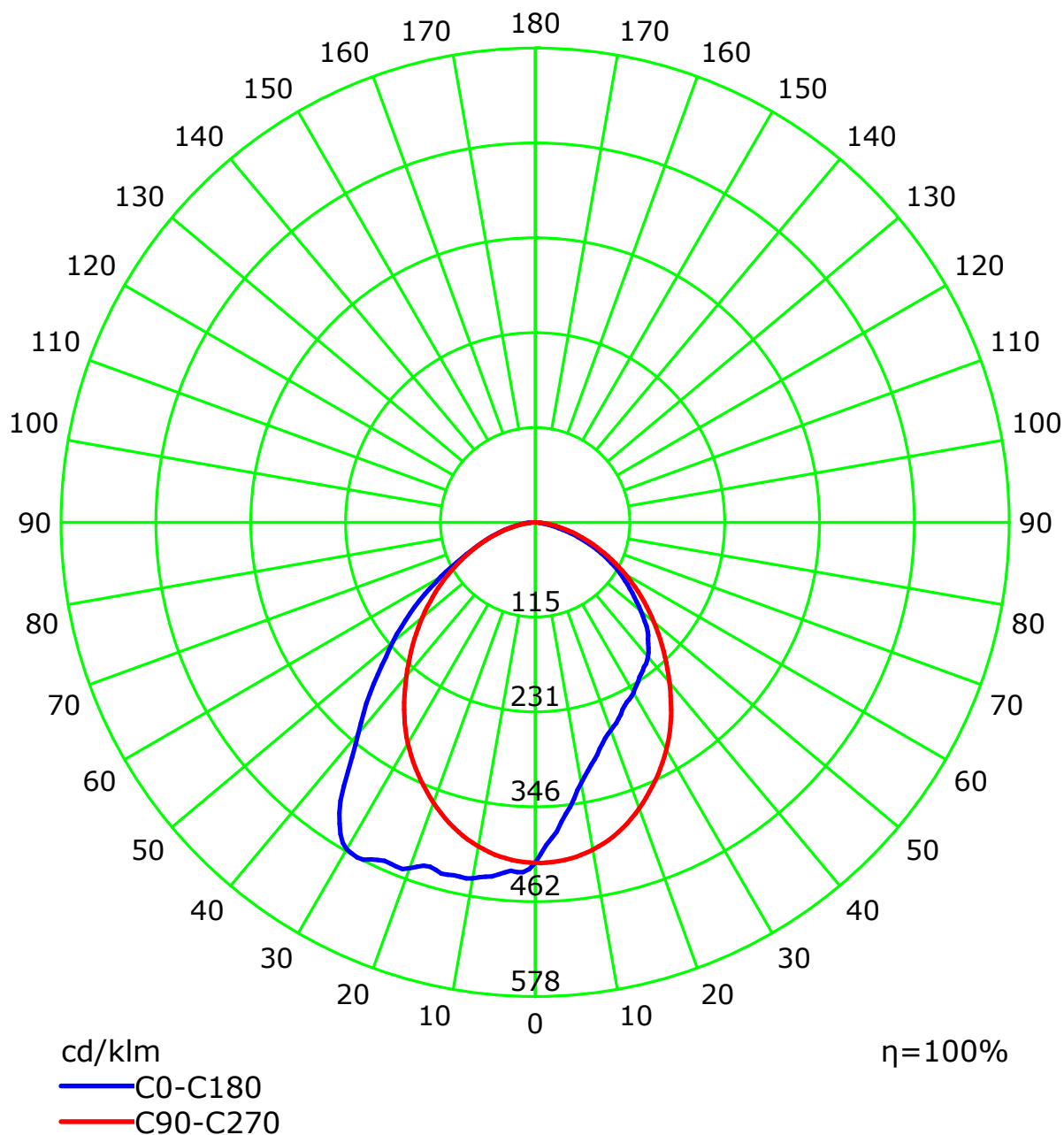
Luminous Intensity Distribution Curve



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)



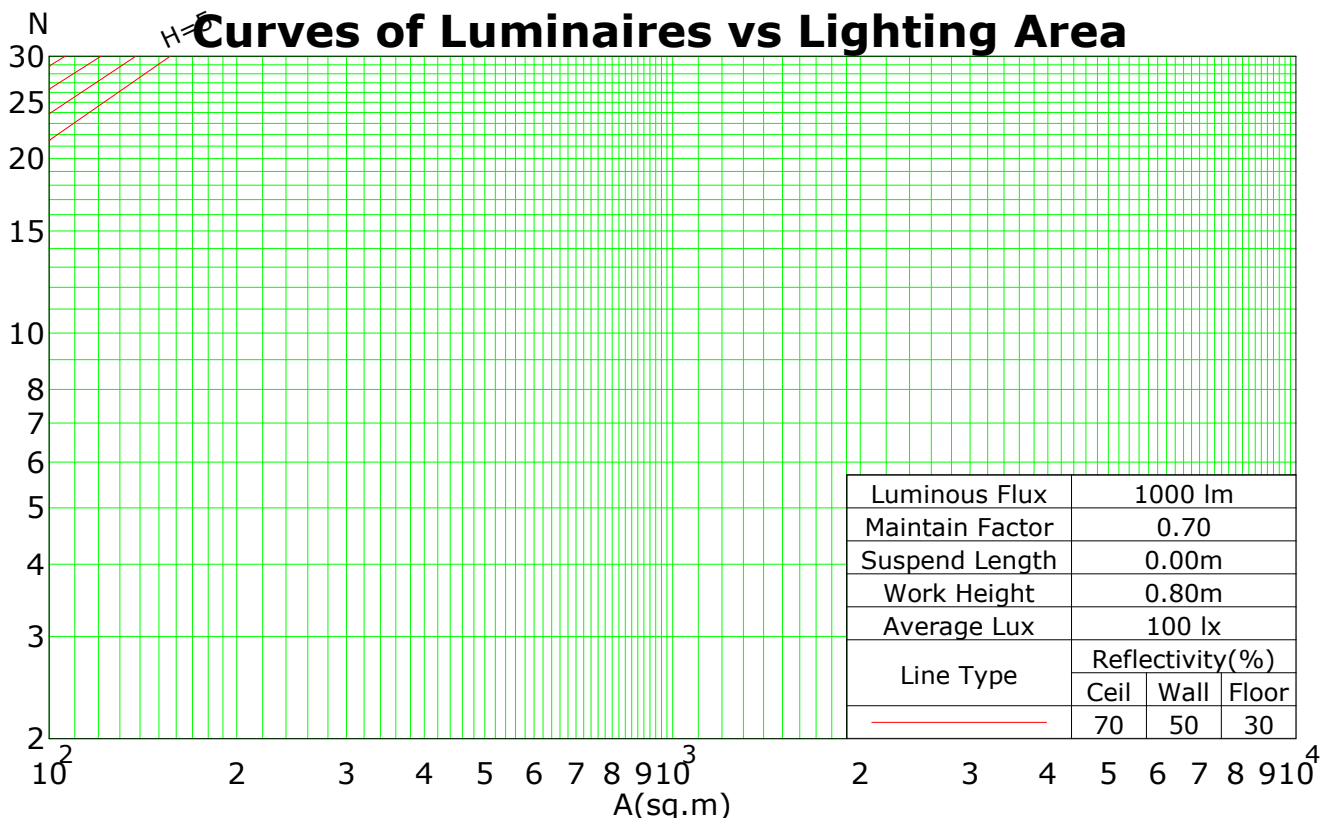
Coefficients Of Utilization - Zonal Cavity Method

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	1.05	1.01	0.98	1.07	1.03	0.99	0.96	0.99	0.96	0.93	0.95	0.93	0.90	0.91	0.89	0.88	0.86
2	1.00	0.93	0.86	0.81	0.98	0.91	0.85	0.80	0.87	0.82	0.78	0.84	0.80	0.76	0.81	0.78	0.75	0.72
3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.75	0.69	0.65	0.72	0.68	0.64	0.62
4	0.84	0.73	0.64	0.58	0.82	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.60	0.55	0.53
5	0.78	0.65	0.57	0.50	0.76	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	0.44	0.55	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	0.49	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	0.32	0.28	0.27

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.14

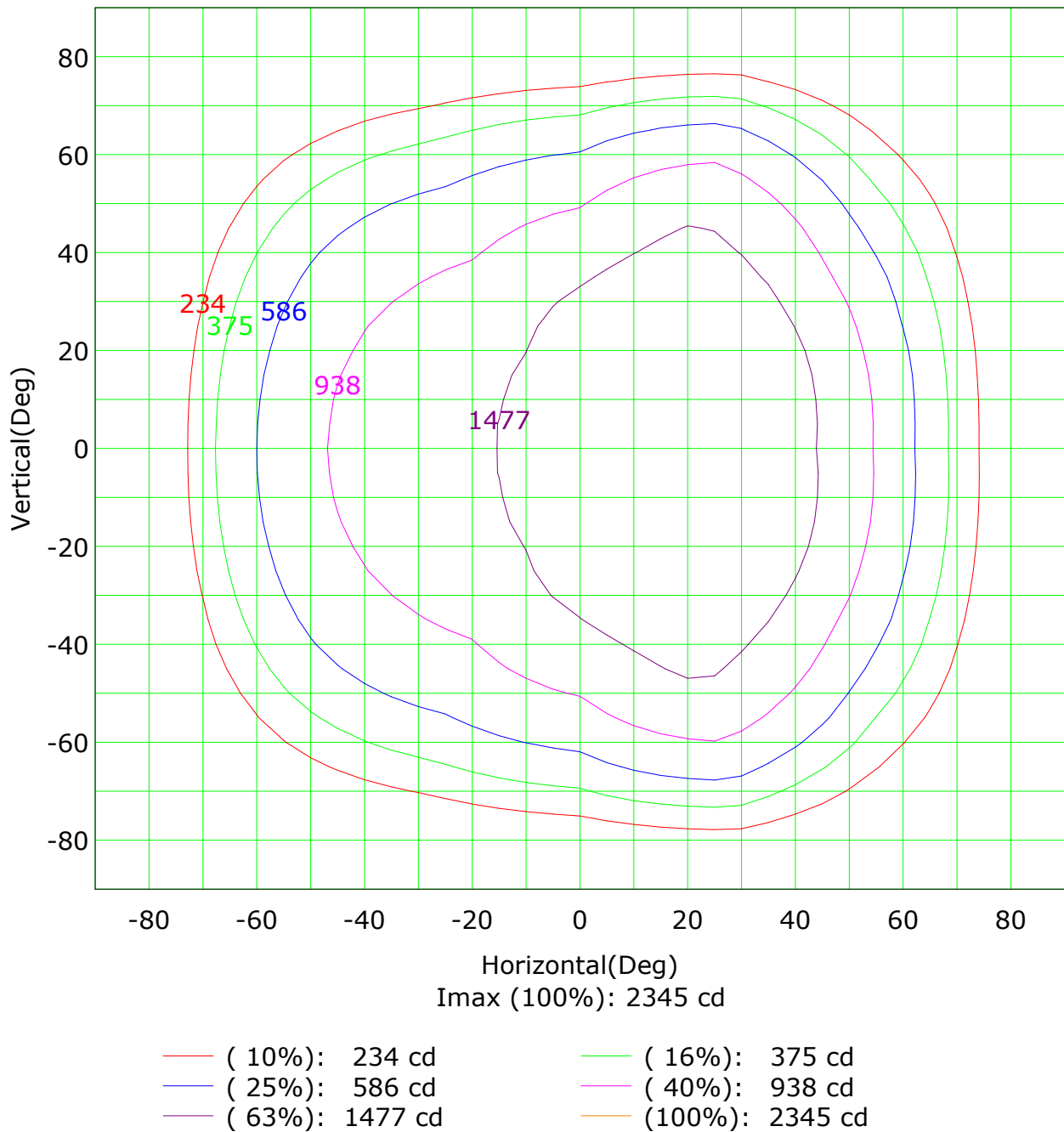
Spacing Criteria (Diagonal): 1.31



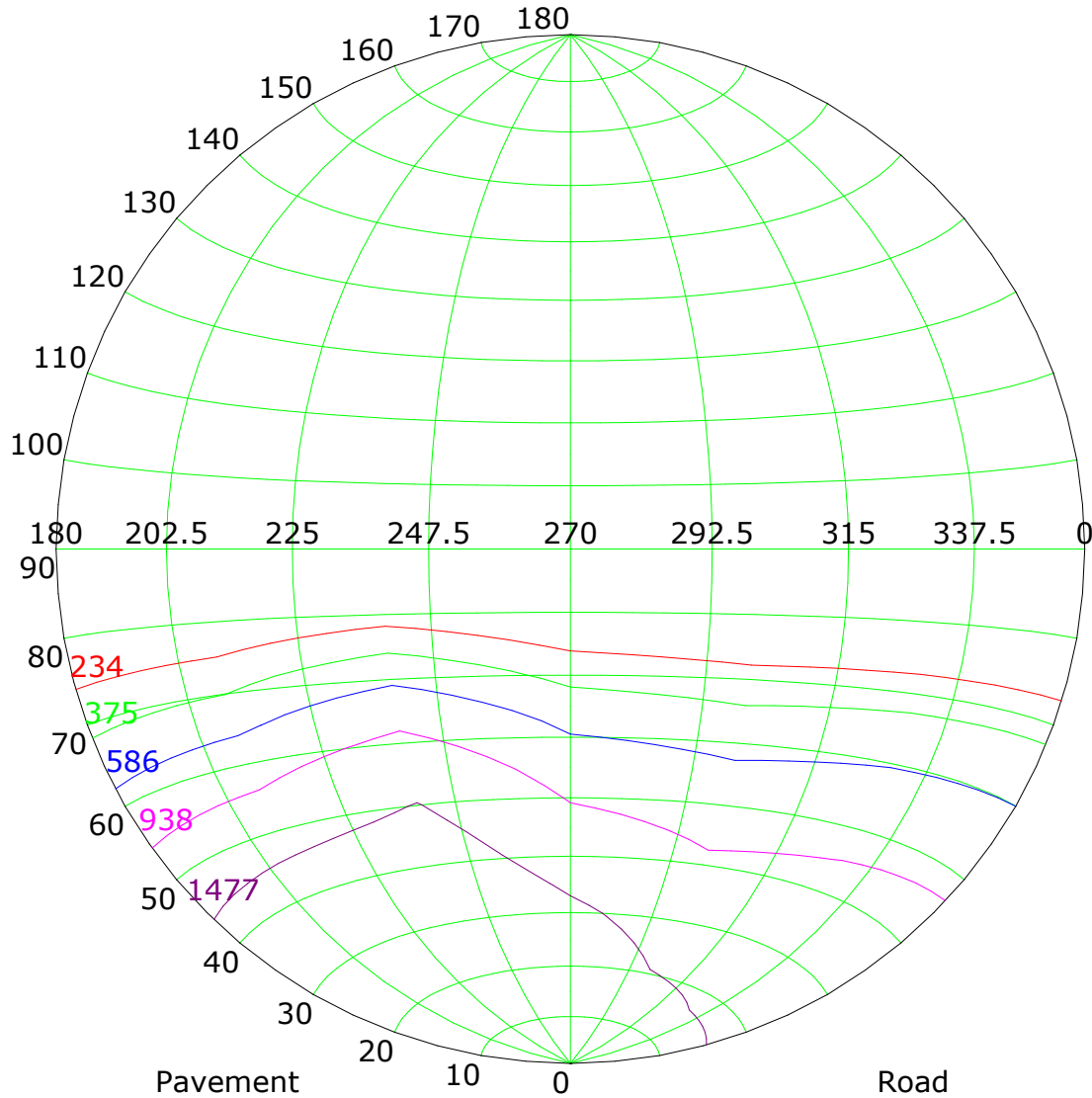
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

Isocandela (rectangle)



Isocandela (sphere)



Imax (100%): 2345 cd

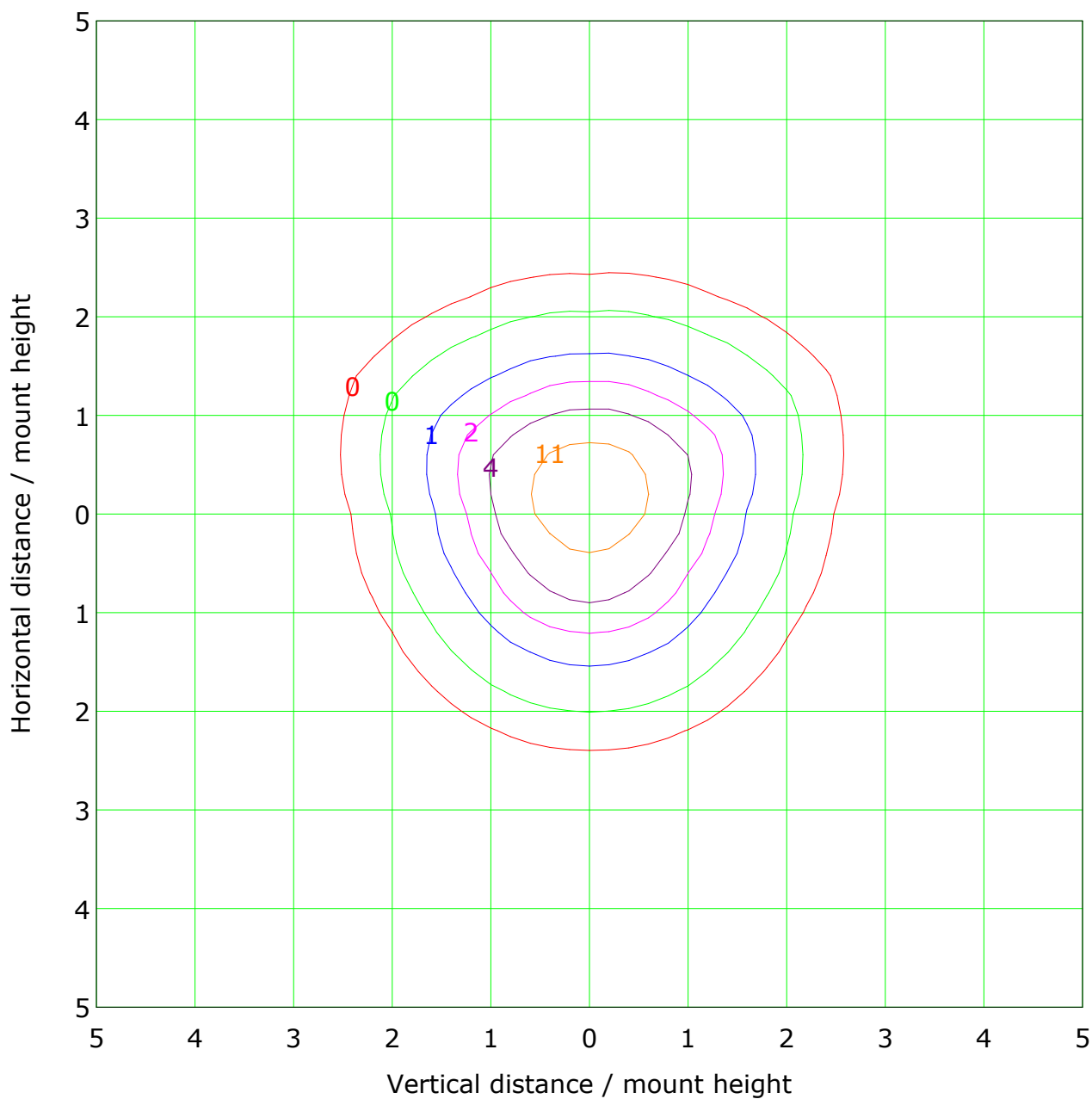
— (10%): 234 cd
— (25%): 586 cd
— (63%): 1477 cd

— (16%): 375 cd
— (40%): 938 cd
— (100%): 2345 cd

CIE: narrow - short
CIE: Semi-cut-off luminaire
Max.At90: 2.743 cd/klm

IES: Cut-off
Max.At80: 42.071 cd/klm
Max.80-90: 42.071 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 21.8 lx

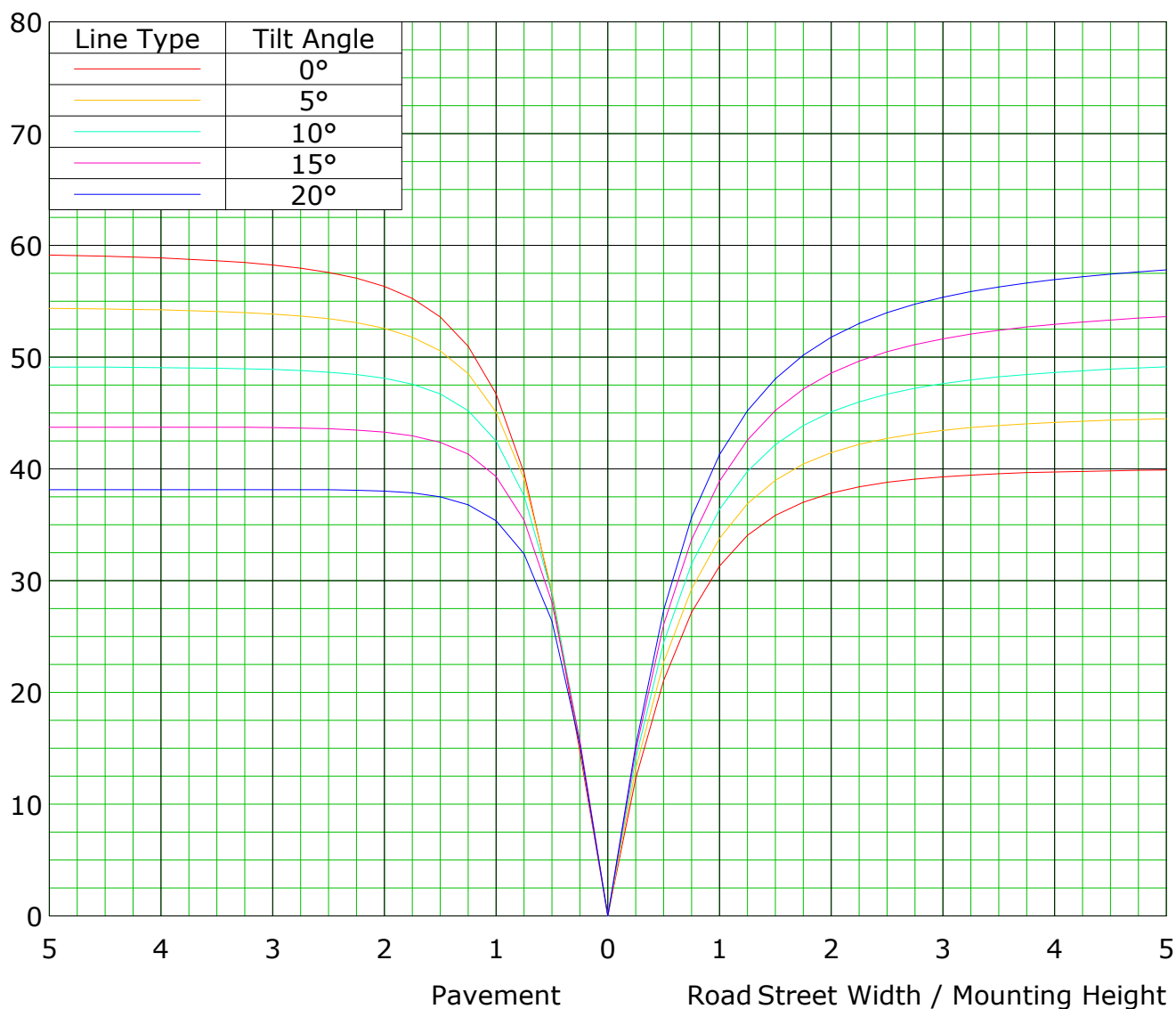
(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.1 lx	(10%): 2.2 lx
(20%): 4.4 lx	(50%): 10.9 lx
(100%): 21.8 lx	

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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(%)



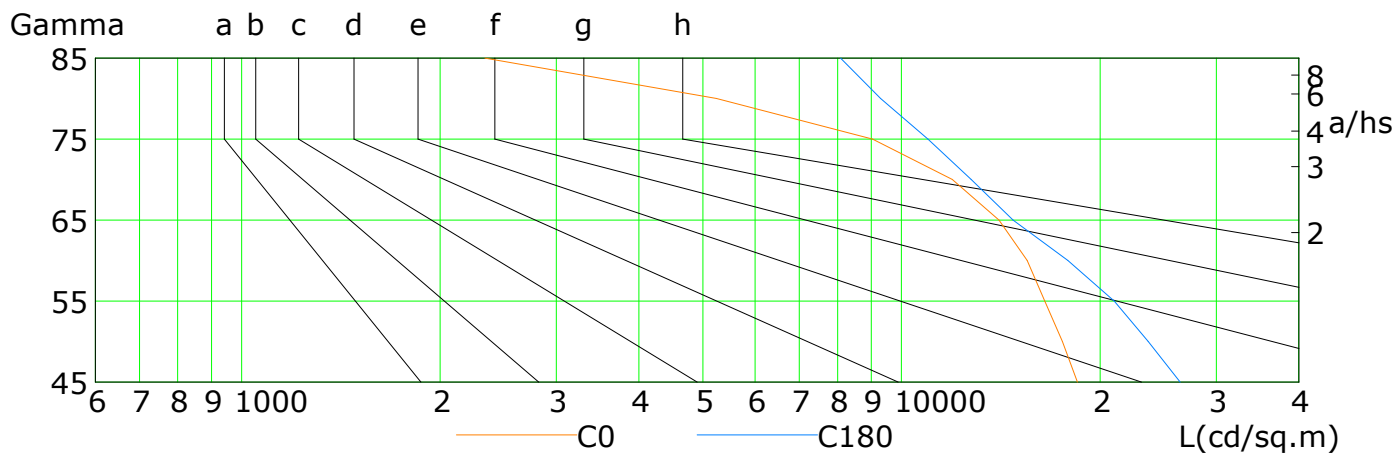
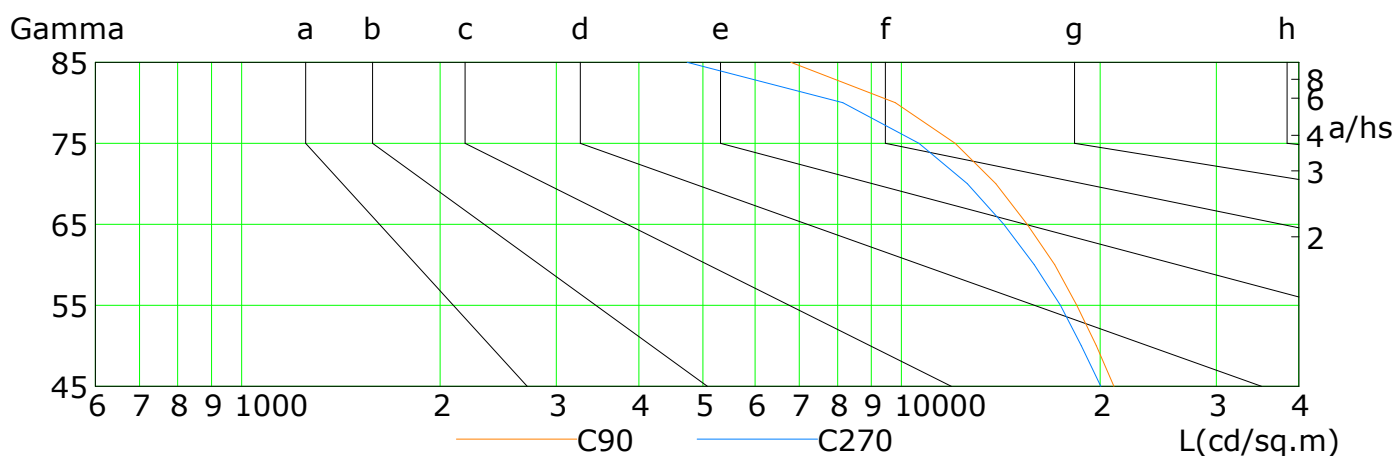
C Plane (°):0.0-360.0: 30.0
Test Lab: EVERFINE
Test Type: TYPE C
Temperature: 25.3℃
Operator:

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

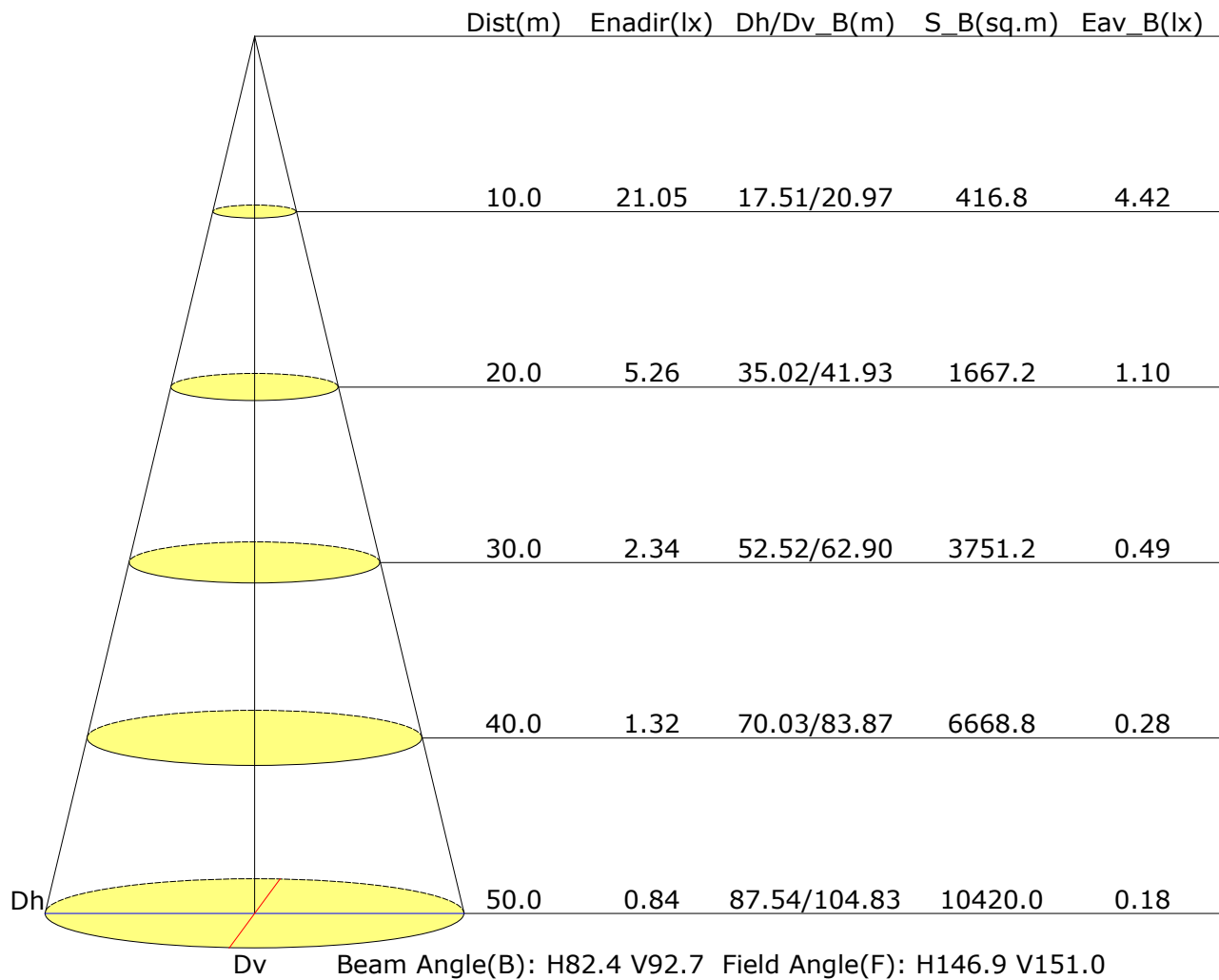


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18477	17536	16490	15501	14047	11941	9036	5241	2337
C90	20985	19732	18431	17061	15507	13898	12055	9781	6797
C180	26451	23651	21014	17864	14753	12746	10965	9298	8086
C270	20048	18726	17406	15899	14288	12579	10624	8146	4737

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:

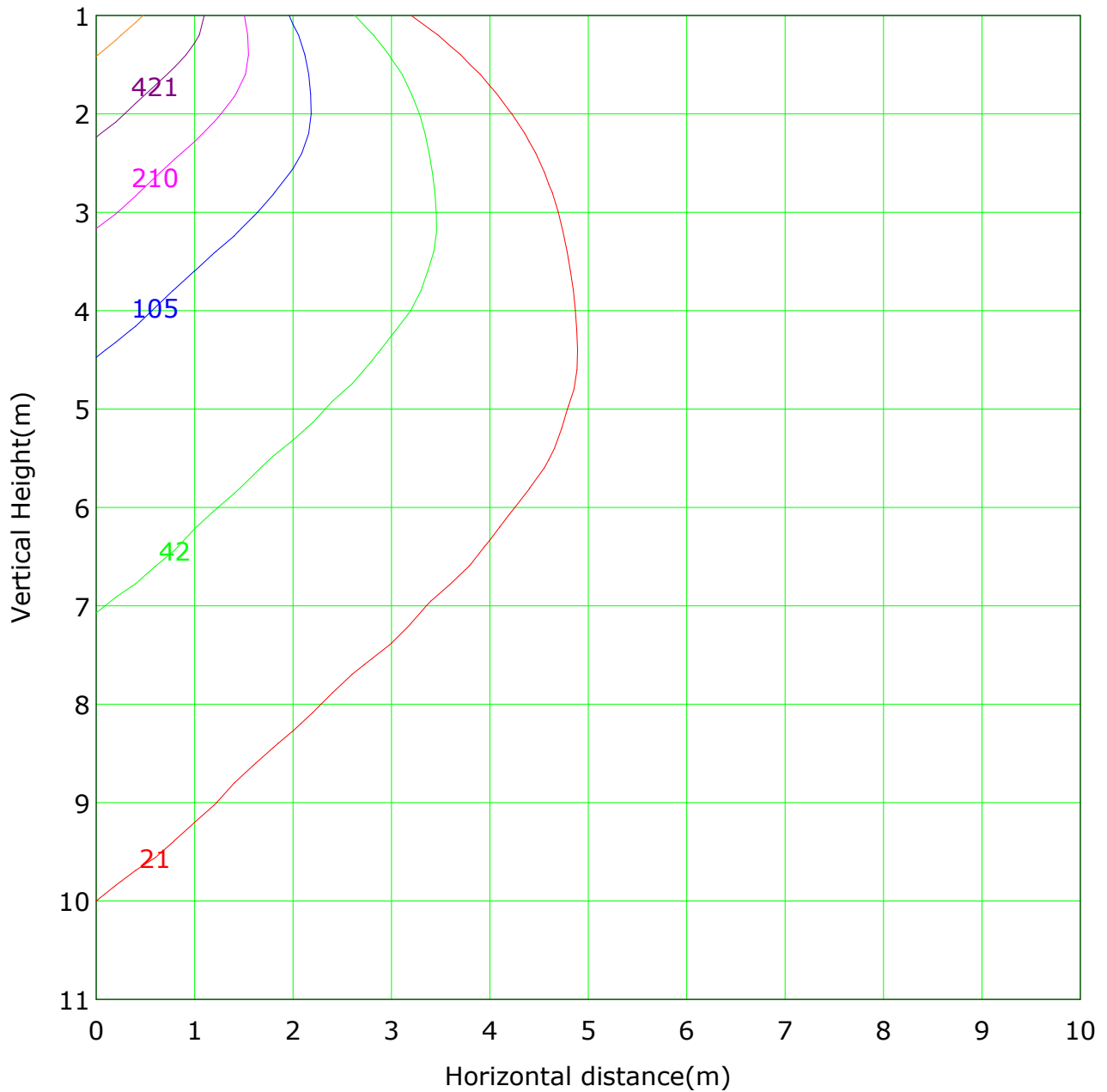
Illuminance at a Distance



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: 2104.6 lx

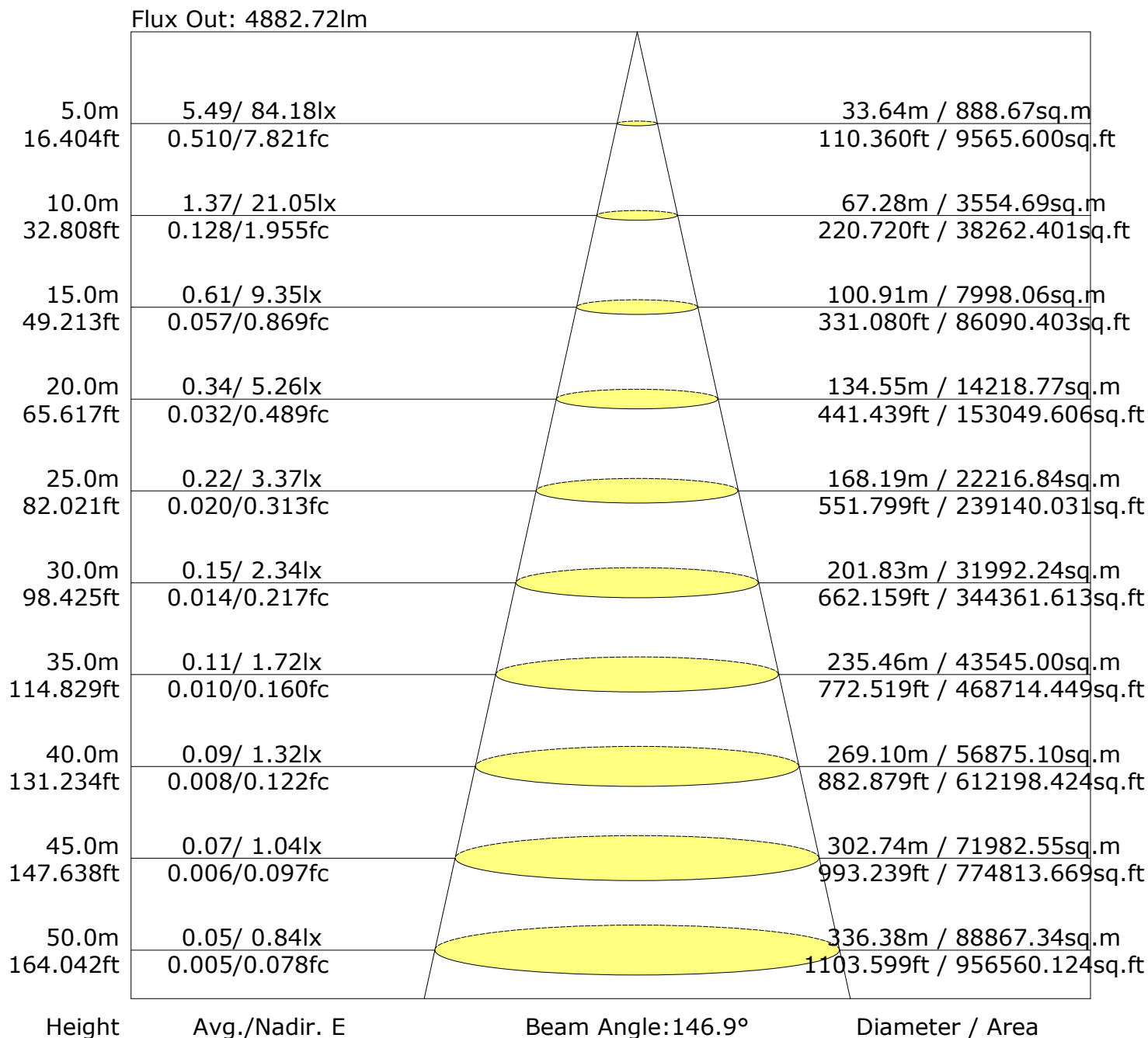
— (1%): 21.0 lx	— (2%): 42.1 lx
— (5%): 105.2 lx	— (10%): 210.5 lx
— (20%): 420.9 lx	— (50%): 1052.3 lx
— (100%): 2104.6 lx	

Area Flux Table

Unit: lm

		Orbit: 1111																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	ϕ_0	Flux(T)	Flux(E)
Vertical plane	-90	0.0	0.2	0.3	0.6	0.9	1.2	1.5	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	11.1	0.0	
	-80	0.1	0.3	0.9	1.9	3.6	5.9	7.6	7.8	7.0	6.2	5.4	4.2	3.1	2.0	1.0	0.3	0.1	0.0	57.3	24.8	
	-70	0.1	0.6	1.7	3.9	7.7	12.8	17.4	17.7	15.6	13.5	11.8	9.5	7.3	5.0	2.8	1.1	0.2	0.0	128.8	117.1	
	-60	0.1	0.8	2.7	6.3	12.5	21.1	29.4	29.8	25.9	22.0	19.1	15.4	12.1	8.6	5.0	2.1	0.4	0.0	213.3	207.6	
	-50	0.1	1.1	3.8	8.9	17.5	28.9	39.7	41.2	36.2	30.9	26.1	21.2	17.0	12.1	7.2	3.1	0.7	0.0	295.7	292.0	
	-40	0.2	1.4	4.8	11.5	22.0	35.6	47.1	50.3	46.3	39.8	32.2	26.5	21.5	15.4	9.2	4.1	1.0	0.1	368.9	366.3	
	-30	0.2	1.6	5.6	13.8	26.4	43.4	55.9	58.5	55.4	47.4	37.5	31.0	24.9	18.0	10.7	4.9	1.2	0.1	436.5	434.3	
	-20	0.2	1.7	6.1	15.4	29.6	49.3	61.1	63.2	62.0	52.8	41.6	33.9	27.2	19.8	11.9	5.5	1.4	0.1	482.8	480.9	
	-10	0.2	1.8	6.4	16.0	30.8	51.4	62.9	65.3	65.3	56.0	43.6	35.3	28.3	20.9	12.5	5.8	1.5	0.1	504.2	502.4	
	0	0.2	1.8	6.4	16.1	31.0	51.7	63.1	65.8	65.9	56.3	43.6	35.3	28.3	20.9	12.5	5.8	1.5	0.1	506.3	504.5	
10	0.2	1.8	6.2	15.6	30.1	50.1	61.9	64.2	63.0	53.5	41.8	33.8	27.1	19.8	11.9	5.5	1.4	0.1	488.1	486.2		
20	0.2	1.6	5.7	14.2	27.2	44.7	57.2	59.9	56.8	48.3	37.8	31.0	24.9	18.1	10.9	5.0	1.3	0.1	444.7	442.6		
30	0.2	1.4	4.9	12.0	22.9	37.0	48.6	51.8	47.8	41.0	32.7	26.8	21.7	15.6	9.3	4.2	1.0	0.1	378.9	376.3		
40	0.1	1.2	4.0	9.3	18.4	30.3	41.4	42.7	37.7	32.1	26.8	21.5	17.3	12.4	7.4	3.2	0.7	0.0	306.6	303.1		
50	0.1	0.9	2.9	6.7	13.4	22.5	31.3	31.6	27.4	23.2	19.9	15.9	12.6	8.9	5.2	2.2	0.5	0.0	225.2	219.8		
60	0.1	0.6	1.9	4.3	8.4	14.1	19.1	19.2	16.9	14.5	12.6	10.1	7.8	5.3	3.0	1.2	0.2	0.0	139.5	129.0		
70	0.1	0.4	1.0	2.2	4.1	6.8	8.8	8.9	8.0	6.9	6.0	4.7	3.4	2.2	1.1	0.4	0.1	0.0	65.1	34.9		
80	0.0	0.2	0.4	0.7	1.1	1.6	2.0	2.0	1.7	1.5	1.2	0.9	0.6	0.4	0.2	0.1	0.0	0.0	14.5	0.0		
90	2.4	19.4	65.7	159.4	307.7	508.4	656.1	681.4	640.2	547.0	440.7	357.7	285.5	205.5	121.7	54.5	13.4	0.7	5067			
Flux(E)	0.0	6.2	55.6	150.4	300.0	501.5	649.4	674.1	632.1	538.3	431.9	348.5	276.4	196.7	112.9	44.9	3.0	0.0		4922		
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90				

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	21.0	22.5	21.3	22.8	23.2	23.0	24.6	23.4	24.9	25.2
3H	22.4	23.8	22.8	24.1	24.5	24.3	25.7	24.7	26.0	26.4
4H	22.8	24.1	23.2	24.4	24.8	24.7	26.0	25.1	26.4	26.8
6H	22.9	24.1	23.3	24.5	24.9	25.0	26.2	25.4	26.6	26.9
8H	22.9	24.1	23.3	24.5	24.9	25.0	26.2	25.5	26.6	27.0
12H	22.9	24.0	23.3	24.4	24.8	25.1	26.2	25.5	26.5	27.0
X=4H Y=2H	21.4	22.8	21.8	23.1	23.5	23.5	24.8	23.9	25.2	25.6
3H	23.1	24.2	23.5	24.6	25.0	25.2	26.3	25.6	26.7	27.1
4H	23.5	24.5	24.0	24.9	25.4	25.7	26.7	26.1	27.1	27.5
6H	23.8	24.6	24.2	25.1	25.5	26.1	26.9	26.5	27.4	27.8
8H	23.8	24.6	24.2	25.0	25.5	26.2	27.0	26.6	27.4	27.9
12H	23.7	24.5	24.2	24.9	25.4	26.2	26.9	26.7	27.4	27.9
X=8H Y=4H	23.7	24.5	24.2	24.9	25.4	25.9	26.7	26.4	27.1	27.6
6H	23.9	24.6	24.5	25.1	25.6	26.4	27.0	26.9	27.5	28.0
8H	24.0	24.6	24.5	25.1	25.6	26.5	27.1	27.0	27.6	28.1
12H	24.0	24.5	24.5	25.0	25.6	26.6	27.1	27.1	27.6	28.2
X=12H Y=4H	23.7	24.4	24.2	24.9	25.4	25.9	26.6	26.4	27.1	27.6
6H	24.0	24.6	24.5	25.0	25.6	26.4	27.0	26.9	27.5	28.0
8H	24.0	24.5	24.5	25.0	25.6	26.6	27.1	27.1	27.6	28.2

Calculate in accordance with CIE 190:2010 The table is revised with 5068lm ($8\log(F/F_0) = 5.6$).

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

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 Test Device:
 Distance: 11.655m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

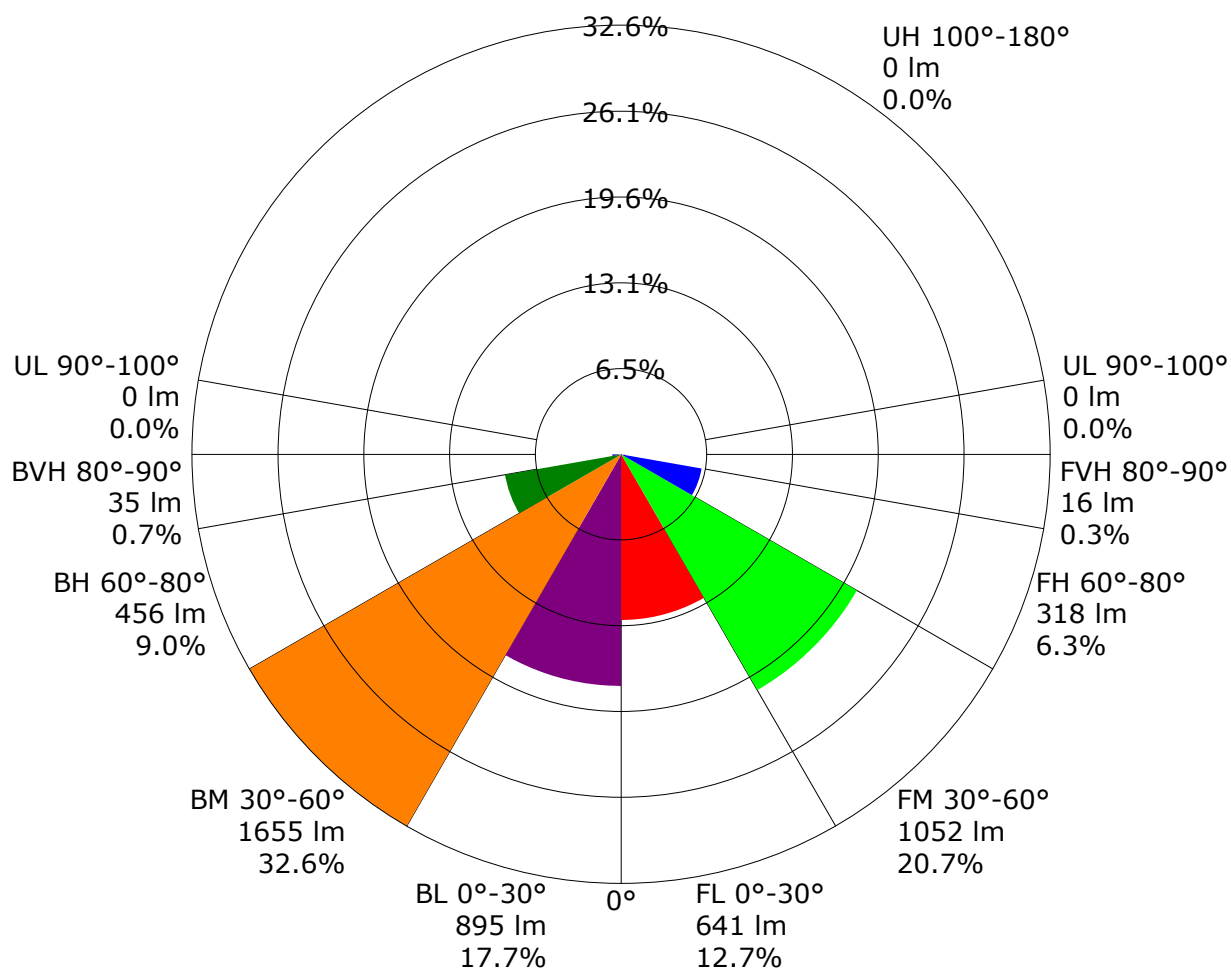
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2027	40.0
	FL (0°-30°)	641	12.7
	FM (30°-60°)	1052	20.7
	FH (60°-80°)	318	6.3
	FVH (80°-90°)	16	0.3
	BACK LIGHT	3041	60.0
	BL (0°-30°)	895	17.7
	BM (30°-60°)	1655	32.6
	BH (60°-80°)	456	9.0
	BVH (80°-90°)	35	0.7
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	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)	B2 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U1 G1

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Test Device:
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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	0.78	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.52	0.63	0.71	0.76	0.84	0.89	0.93	0.98	1.02	
	0.20		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
0.50	0.50	0.20	0.58	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.01	
	0.30		0.52	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.98	
	0.20		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.57	0.66	0.73	0.78	0.84	0.88	0.91	0.94	0.97	
	0.30		0.51	0.61	0.68	0.73	0.80	0.84	0.88	0.92	0.95	
	0.20		0.46	0.56	0.64	0.69	0.76	0.81	0.85	0.90	0.93	
0.00	0.00	0.00	0.44	0.54	0.61	0.66	0.73	0.78	0.81	0.85	0.88	
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 = 1.25									
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	0.77	0.65	0.57	0.45	0.37	0.32	0.24	0.20	
	0.30		0.79	0.66	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.92	0.74	0.63	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.78	0.65	0.55	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.89	0.71	0.60	0.52	0.41	0.34	0.28	0.22	0.18	
	0.30		0.76	0.63	0.54	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.66	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.56	0.46	0.39	0.34	0.27	0.23	0.19	0.15	0.12	
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	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.19	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	
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	2102.2	2.0	2.0	0.04	0.04
1.0-2.0	2095.1	6.0	8.0	0.12	0.16
2.0-3.0	2084.9	10.0	18.0	0.20	0.36
3.0-4.0	2072.6	13.9	31.9	0.27	0.63
4.0-5.0	2057.4	17.7	49.6	0.35	0.98
5.0-6.0	2041.4	21.5	71.0	0.42	1.40
6.0-7.0	2027.9	25.2	96.2	0.50	1.90
7.0-8.0	2014.5	28.8	125.0	0.57	2.47
8.0-9.0	1998.1	32.4	157.4	0.64	3.11
9.0-10.0	1980.7	35.8	193.3	0.71	3.81
10.0-11.0	1965.0	39.3	232.5	0.77	4.59
11.0-12.0	1951.1	42.7	275.2	0.84	5.43
12.0-13.0	1937.1	46.0	321.2	0.91	6.34
13.0-14.0	1922.2	49.2	370.4	0.97	7.31
14.0-15.0	1906.6	52.4	422.7	1.03	8.34
15.0-16.0	1890.2	55.4	478.1	1.09	9.43
16.0-17.0	1873.6	58.4	536.5	1.15	10.59
17.0-18.0	1856.7	61.2	597.7	1.21	11.79
18.0-19.0	1839.9	64.0	661.7	1.26	13.06
19.0-20.0	1824.7	66.8	728.5	1.32	14.38
20.0-21.0	1811.0	69.6	798.1	1.37	15.75
21.0-22.0	1798.3	72.3	870.3	1.43	17.17
22.0-23.0	1785.5	74.9	945.3	1.48	18.65
23.0-24.0	1772.8	77.5	1022.8	1.53	20.18
24.0-25.0	1759.3	80.0	1102.8	1.58	21.76
25.0-26.0	1744.5	82.4	1185.2	1.63	23.39
26.0-27.0	1729.6	84.6	1269.8	1.67	25.06
27.0-28.0	1714.7	86.8	1356.6	1.71	26.77
28.0-29.0	1698.9	88.9	1445.5	1.75	28.52
29.0-30.0	1683.0	90.9	1536.4	1.79	30.32
30.0-31.0	1666.0	92.7	1629.1	1.83	32.15
31.0-32.0	1647.5	94.4	1723.5	1.86	34.01
32.0-33.0	1626.9	95.9	1819.4	1.89	35.90
33.0-34.0	1603.8	97.1	1916.5	1.92	37.81
34.0-35.0	1577.8	98.0	2014.5	1.93	39.75
35.0-36.0	1547.9	98.6	2113.0	1.95	41.69

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	1515.9	98.9	2211.9	1.95	43.64
37.0-38.0	1483.9	99.1	2311.0	1.95	45.60
38.0-39.0	1452.1	99.1	2410.1	1.96	47.56
39.0-40.0	1419.4	99.0	2509.1	1.95	49.51
40.0-41.0	1385.2	98.6	2607.8	1.95	51.46
41.0-42.0	1349.1	98.0	2705.8	1.93	53.39
42.0-43.0	1312.1	97.2	2803.0	1.92	55.31
43.0-44.0	1275.8	96.3	2899.3	1.90	57.21
44.0-45.0	1241.3	95.4	2994.7	1.88	59.09
45.0-46.0	1208.2	94.5	3089.2	1.86	60.96
46.0-47.0	1175.9	93.5	3182.7	1.85	62.80
47.0-48.0	1143.5	92.5	3275.2	1.82	64.63
48.0-49.0	1110.3	91.2	3366.4	1.80	66.42
49.0-50.0	1076.2	89.7	3456.1	1.77	68.20
50.0-51.0	1041.1	88.1	3544.2	1.74	69.93
51.0-52.0	1004.8	86.2	3630.5	1.70	71.64
52.0-53.0	968.5	84.3	3714.7	1.66	73.30
53.0-54.0	933.0	82.2	3797.0	1.62	74.92
54.0-55.0	897.9	80.2	3877.1	1.58	76.50
55.0-56.0	862.7	78.0	3955.1	1.54	78.04
56.0-57.0	827.0	75.6	4030.7	1.49	79.53
57.0-58.0	791.0	73.2	4103.9	1.44	80.98
58.0-59.0	755.4	70.6	4174.5	1.39	82.37
59.0-60.0	719.9	68.0	4242.5	1.34	83.71
60.0-61.0	684.8	65.4	4307.9	1.29	85.00
61.0-62.0	649.9	62.6	4370.5	1.24	86.24
62.0-63.0	614.4	59.8	4430.3	1.18	87.42
63.0-64.0	579.5	56.9	4487.2	1.12	88.54
64.0-65.0	545.0	53.9	4541.1	1.06	89.60
65.0-66.0	511.9	51.1	4592.2	1.01	90.61
66.0-67.0	479.8	48.2	4640.4	0.95	91.56
67.0-68.0	447.9	45.4	4685.8	0.90	92.46
68.0-69.0	416.5	42.5	4728.3	0.84	93.30
69.0-70.0	385.4	39.6	4767.9	0.78	94.08
70.0-71.0	355.5	36.7	4804.6	0.73	94.80
71.0-72.0	326.6	34.0	4838.6	0.67	95.47

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°): 2994.71 lm

%lum = 59.1%
%lamp = 59.1%

cone flux(120°): 4242.53 lm

%lum = 83.7%
%lamp = 83.7%

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	2104.6	2104.6	2104.6	2104.6	2104.6	2104.6	2104.6	2104.6	2104.6
G1.0	2048.0	2055.2	2077.8	2105.3	2132.7	2146.8	2142.2	2138.2	2123.1
G2.0	1994.5	2006.7	2048.1	2103.9	2151.6	2172.9	2163.2	2158.8	2135.2
G3.0	1954.1	1968.9	2019.5	2102.2	2163.8	2186.7	2164.7	2164.1	2144.2
G4.0	1915.7	1937.4	1991.1	2098.8	2173.8	2186.1	2158.6	2160.9	2148.5
G5.0	1859.6	1897.6	1965.3	2094.2	2178.6	2178.6	2171.8	2156.9	2146.5
G6.0	1811.1	1844.7	1941.5	2088.6	2177.2	2186.6	2187.8	2170.4	2141.5
G7.0	1772.7	1805.5	1920.5	2082.0	2173.3	2200.4	2203.9	2183.4	2134.1
G8.0	1724.8	1769.7	1897.0	2073.7	2165.2	2211.5	2211.2	2196.3	2125.1
G9.0	1674.6	1728.3	1866.0	2064.4	2156.4	2221.8	2220.4	2202.6	2122.4
G10.0	1636.9	1681.6	1828.6	2054.3	2155.0	2225.8	2233.7	2206.3	2124.4
G11.0	1601.0	1642.1	1794.6	2042.2	2155.9	2234.7	2241.1	2217.2	2126.7
G12.0	1568.8	1610.5	1766.9	2029.1	2157.0	2245.0	2239.1	2224.1	2127.9
G13.0	1539.2	1576.5	1739.5	2015.6	2157.9	2249.0	2238.6	2224.0	2128.4
G14.0	1512.8	1546.9	1709.0	1999.9	2159.4	2246.1	2244.4	2219.9	2128.3
G15.0	1485.4	1519.3	1676.3	1982.7	2158.8	2243.4	2246.3	2217.1	2125.6
G16.0	1453.1	1493.8	1645.8	1965.4	2156.4	2241.9	2233.6	2217.7	2121.9
G17.0	1428.5	1467.7	1613.4	1945.8	2152.9	2244.1	2225.3	2219.1	2118.9
G18.0	1403.1	1438.5	1579.3	1925.1	2150.7	2237.4	2230.9	2206.8	2116.1
G19.0	1383.0	1413.5	1545.9	1903.5	2147.5	2224.1	2251.4	2195.0	2111.2
G20.0	1367.3	1390.1	1514.9	1881.2	2143.3	2216.2	2274.3	2188.8	2104.8
G21.0	1351.9	1366.2	1488.4	1857.9	2135.6	2215.0	2294.4	2191.4	2095.9
G22.0	1338.6	1346.4	1460.9	1834.1	2125.5	2224.4	2294.2	2203.6	2085.3
G23.0	1317.7	1330.3	1433.9	1809.0	2114.6	2238.2	2290.9	2218.5	2073.8
G24.0	1301.3	1312.7	1407.0	1783.9	2104.8	2253.2	2288.8	2230.8	2062.5
G25.0	1276.7	1296.9	1381.1	1758.8	2094.2	2255.8	2302.9	2227.2	2051.0
G26.0	1261.3	1275.0	1353.9	1732.6	2081.8	2250.1	2318.2	2223.0	2038.6
G27.0	1247.7	1255.6	1328.1	1705.0	2067.5	2246.5	2339.8	2216.2	2022.9
G28.0	1240.1	1238.3	1302.9	1677.6	2051.9	2242.5	2344.6	2215.9	2004.7
G29.0	1229.2	1214.8	1278.0	1650.0	2034.3	2248.8	2338.8	2224.7	1984.2
G30.0	1217.2	1197.1	1250.5	1621.8	2012.5	2257.1	2333.0	2231.4	1963.2
G31.0	1196.8	1179.4	1222.1	1592.4	1992.4	2263.7	2310.2	2237.1	1943.8
G32.0	1185.0	1165.1	1198.0	1561.8	1974.1	2263.8	2273.6	2231.4	1925.9
G33.0	1170.7	1152.0	1175.7	1530.2	1954.0	2253.6	2221.6	2219.4	1902.9
G34.0	1154.4	1138.9	1151.5	1497.3	1931.7	2242.6	2167.9	2206.1	1878.2
G35.0	1142.8	1121.4	1125.8	1464.7	1907.7	2220.6	2099.9	2177.3	1853.3

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 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	1132.1	1102.0	1100.3	1430.3	1883.5	2184.0	2014.6	2135.6	1830.6
G37.0	1119.3	1088.0	1074.7	1395.4	1861.4	2137.7	1924.4	2085.8	1809.8
G38.0	1111.6	1073.2	1052.3	1361.2	1841.7	2084.7	1840.8	2034.4	1789.4
G39.0	1099.0	1056.1	1030.2	1326.6	1820.5	2031.9	1767.6	1980.7	1768.1
G40.0	1083.9	1040.4	1007.4	1291.1	1797.6	1970.7	1702.7	1912.7	1744.9
G41.0	1066.8	1025.9	983.8	1256.6	1774.2	1898.1	1645.1	1835.7	1721.6
G42.0	1046.6	1005.8	960.8	1222.7	1751.2	1818.6	1586.7	1754.0	1697.3
G43.0	1024.7	982.9	936.6	1188.8	1726.1	1739.5	1531.7	1676.1	1673.2
G44.0	1004.2	961.3	913.7	1155.5	1702.1	1663.8	1472.4	1604.7	1651.3
G45.0	987.7	941.6	890.5	1121.8	1681.5	1595.0	1414.0	1538.9	1631.9
G46.0	967.5	923.2	867.3	1088.4	1661.7	1532.0	1353.3	1479.0	1611.3
G47.0	941.4	905.5	844.0	1056.5	1639.9	1475.8	1296.9	1425.9	1587.0
G48.0	910.5	889.0	821.2	1024.0	1616.4	1419.8	1242.9	1368.3	1558.8
G49.0	881.6	874.1	797.7	990.4	1589.3	1358.8	1196.4	1307.0	1528.9
G50.0	852.2	855.3	775.3	958.9	1556.1	1299.7	1149.3	1249.9	1493.2
G51.0	824.7	827.4	752.0	926.6	1521.2	1240.9	1103.3	1192.3	1456.9
G52.0	796.9	797.0	728.9	894.1	1482.8	1183.4	1052.1	1135.8	1418.8
G53.0	768.0	766.4	706.2	862.9	1443.3	1130.1	1002.7	1085.2	1379.3
G54.0	742.0	738.9	683.4	830.9	1403.0	1079.7	956.6	1036.5	1333.8
G55.0	715.0	712.8	659.5	799.2	1357.0	1030.8	911.2	990.6	1286.9
G56.0	688.3	686.4	634.9	769.3	1309.7	985.5	864.3	945.4	1240.8
G57.0	663.3	660.4	609.7	738.3	1262.4	936.1	814.7	894.5	1193.9
G58.0	638.9	635.9	584.7	707.5	1215.0	886.0	763.5	847.8	1143.4
G59.0	613.2	609.9	561.1	677.0	1164.2	842.2	715.7	805.8	1089.2
G60.0	585.9	583.0	536.4	644.9	1111.9	798.0	675.3	762.6	1035.9
G61.0	560.8	557.8	514.3	615.4	1057.7	756.8	632.9	720.9	983.6
G62.0	533.0	531.0	489.5	583.6	1006.6	711.6	590.0	674.5	934.5
G63.0	506.6	504.4	467.6	553.8	952.7	665.6	545.8	629.3	881.5
G64.0	478.7	477.2	444.1	524.5	902.8	620.7	507.8	586.5	832.7
G65.0	448.8	449.7	418.0	495.5	850.9	578.7	471.4	546.5	782.5
G66.0	421.3	422.7	394.3	468.0	802.2	541.5	439.9	512.8	735.6
G67.0	392.4	396.1	369.4	439.1	752.4	504.2	409.5	477.1	686.5
G68.0	365.2	369.6	346.5	412.4	702.5	469.0	382.0	442.3	637.4
G69.0	337.2	342.4	322.9	385.0	652.9	432.5	355.3	406.3	589.6
G70.0	308.8	315.4	300.1	359.4	604.1	397.8	329.6	373.0	542.9
G71.0	281.1	289.7	278.0	333.5	557.5	365.7	305.5	342.7	498.4

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	2104.6	2104.6	2104.6	2104.6					
G1.0	2103.1	2072.4	2052.9	2048.0					
G2.0	2099.9	2043.9	2007.0	1994.5					
G3.0	2096.5	2015.9	1971.5	1954.1					
G4.0	2091.3	1989.4	1938.0	1915.7					
G5.0	2084.7	1964.0	1890.0	1859.6					
G6.0	2076.7	1939.4	1839.6	1811.1					
G7.0	2067.9	1915.8	1804.4	1772.7					
G8.0	2057.1	1886.3	1765.7	1724.8					
G9.0	2045.9	1848.2	1720.7	1674.6					
G10.0	2032.7	1811.3	1674.3	1636.9					
G11.0	2019.2	1780.8	1639.2	1601.0					
G12.0	2004.2	1754.8	1605.3	1568.8					
G13.0	1988.4	1726.4	1573.7	1539.2					
G14.0	1970.2	1694.2	1544.8	1512.8					
G15.0	1951.9	1658.1	1518.8	1485.4					
G16.0	1932.5	1624.2	1493.8	1453.1					
G17.0	1911.0	1593.3	1465.6	1428.5					
G18.0	1889.0	1561.2	1437.2	1403.1					
G19.0	1866.2	1527.8	1413.8	1383.0					
G20.0	1842.4	1497.5	1389.0	1367.3					
G21.0	1818.2	1472.0	1367.7	1351.9					
G22.0	1793.4	1447.0	1350.1	1338.6					
G23.0	1768.0	1420.0	1334.5	1317.7					
G24.0	1742.4	1391.9	1318.2	1301.3					
G25.0	1715.8	1366.4	1299.5	1276.7					
G26.0	1688.9	1341.7	1276.8	1261.3					
G27.0	1661.8	1317.4	1260.5	1247.7					
G28.0	1633.9	1291.0	1239.4	1240.1					
G29.0	1605.1	1263.7	1219.3	1229.2					
G30.0	1576.3	1236.5	1204.1	1217.2					
G31.0	1546.1	1210.8	1188.7	1196.8					
G32.0	1513.8	1189.5	1175.0	1185.0					
G33.0	1481.5	1167.0	1160.8	1170.7					
G34.0	1448.2	1140.2	1145.2	1154.4					
G35.0	1413.5	1113.0	1124.7	1142.8					

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 4)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G36.0	1378.8	1088.0	1106.2	1132.1					
G37.0	1343.7	1064.4	1092.0	1119.3					
G38.0	1309.4	1042.7	1075.3	1111.6					
G39.0	1274.5	1020.4	1058.4	1099.0					
G40.0	1240.1	996.4	1043.3	1083.9					
G41.0	1205.6	972.3	1026.7	1066.8					
G42.0	1170.5	949.6	1003.3	1046.6					
G43.0	1137.3	926.6	980.5	1024.7					
G44.0	1103.8	902.6	960.3	1004.2					
G45.0	1071.7	879.3	941.1	987.7					
G46.0	1039.1	856.0	923.4	967.5					
G47.0	1006.8	832.4	906.9	941.4					
G48.0	974.0	809.8	889.8	910.5					
G49.0	941.4	785.9	870.9	881.6					
G50.0	910.0	762.1	845.4	852.2					
G51.0	878.3	739.2	816.3	824.7					
G52.0	846.3	715.3	785.7	796.9					
G53.0	814.4	691.8	756.4	768.0					
G54.0	784.4	667.7	729.5	742.0					
G55.0	754.8	642.0	704.0	715.0					
G56.0	722.7	616.9	677.0	688.3					
G57.0	692.1	591.5	649.9	663.3					
G58.0	662.9	566.8	624.3	638.9					
G59.0	632.3	543.7	598.2	613.2					
G60.0	601.0	518.5	570.7	585.9					
G61.0	571.2	495.4	544.4	560.8					
G62.0	541.1	471.9	518.0	533.0					
G63.0	512.8	447.5	491.7	506.6					
G64.0	484.8	422.8	465.2	478.7					
G65.0	456.5	397.2	437.5	448.8					
G66.0	429.3	373.7	410.0	421.3					
G67.0	402.9	349.8	383.6	392.4					
G68.0	376.5	326.7	356.9	365.2					
G69.0	350.8	303.8	330.3	337.2					
G70.0	325.2	281.3	303.3	308.8					
G71.0	300.9	259.8	277.4	281.1					

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	14400.32
L 0-180(75) av	10000.89
L 0-180(85) av	5211.67
L 90-270(65) av	14897.44
L 90-270(75) av	11339.25
L 90-270(85) av	5767.03
L 45(65) av	17453.19
L 45(75) av	12472.51
L 45(85) av	6197.10

Standard: GB/T 29293-2012