

Report No.: MSTLAB250513001

Test Time: 2025-05-13

## Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: ALL058F80W27V35K-UP 50%

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

Lamp Description:

Number of Lamps: 1

Lumens per Lamp:

Luminous Length (mm): 2400

Luminous Width (mm): 63

Luminous Height (mm):

Voltage: 120.1 V

Current: 0.333 A

Power: 39.75 W

Power Factor: 0.995

## Photometric Results

CIE Class: Indirect

Measurement Flux: 5675.1 lm

Downward Ratio: 0%

Total Rated Lamp Lumens: 5675.1 lm

Efficiency: 100%

Upward Ratio: 100%

Horizontal Diffuse Angle(10%,50%,75%,100%): H0,H0,H0,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V0,V0,V0,V0

Luminaire Efficacy Rating (LER): 142.82

C0r0 Intensity: 0 cd

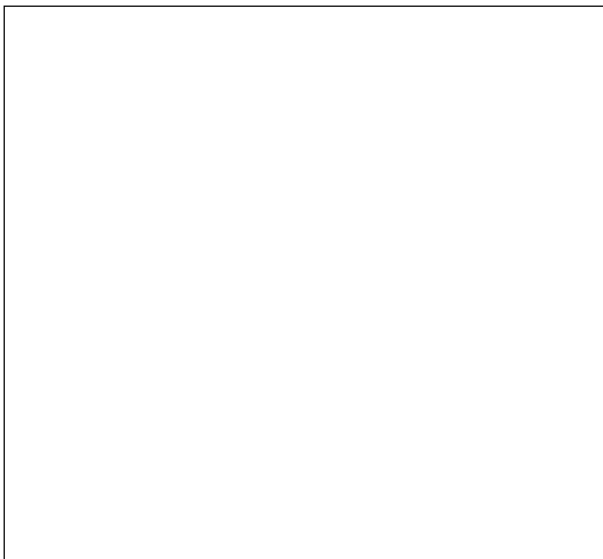
Max. Intensity: 2308.29 cd

Pos of Max. Intensity: H180 V122

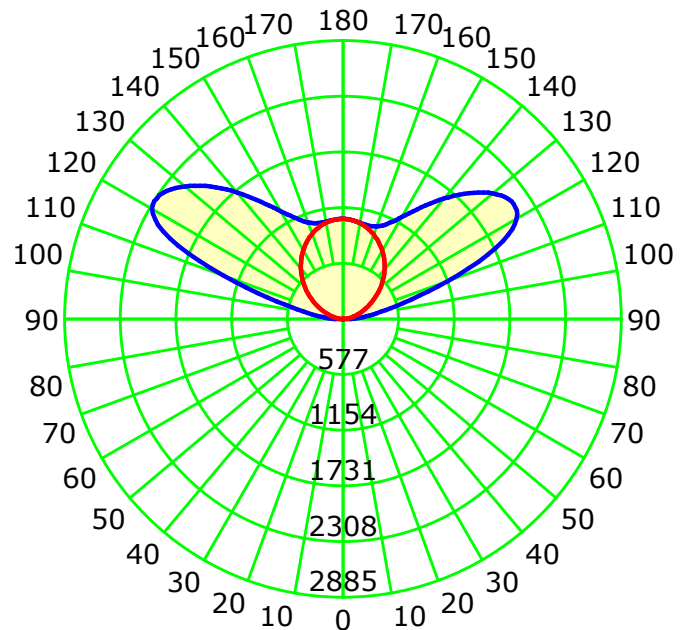
S/MH(C0/C180): -1.#J

S/MH(C90/C270): -1.#J

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 333.6°

C Plane (°):0.0-360.0: 30.0

Test Lab: EVERFINE

Test Type: TYPE C

Temperature: 25.3℃

Operator:

— C0-C180 — C90-C270

Gamma Plane (°):0.0-180.0:1.0

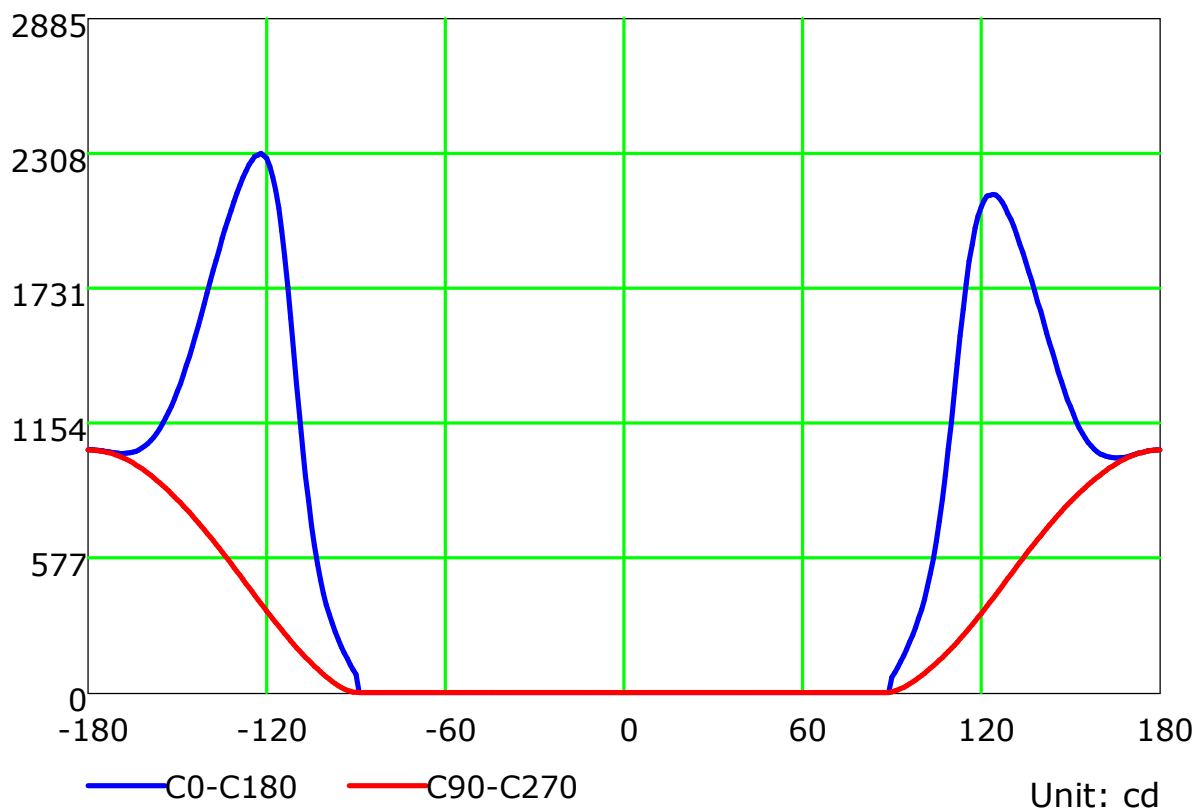
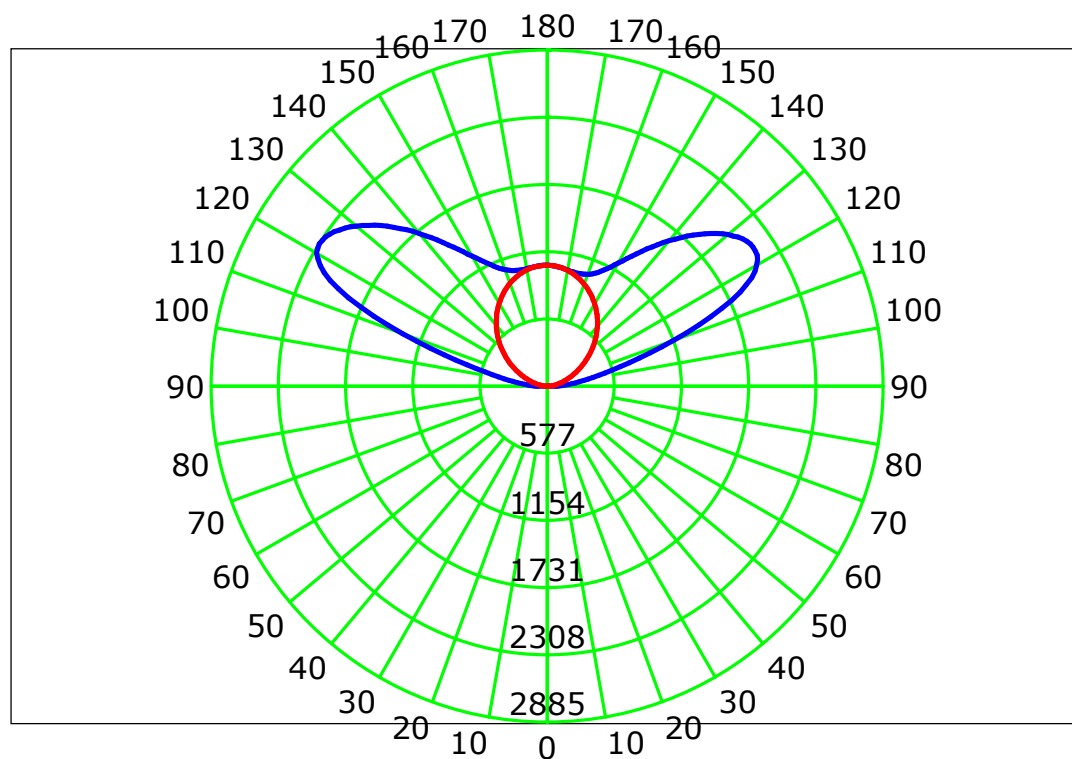
Test Device:

Distance: 11.655m [K=1.0000]

Humidity: 45% R.H

Inspector:

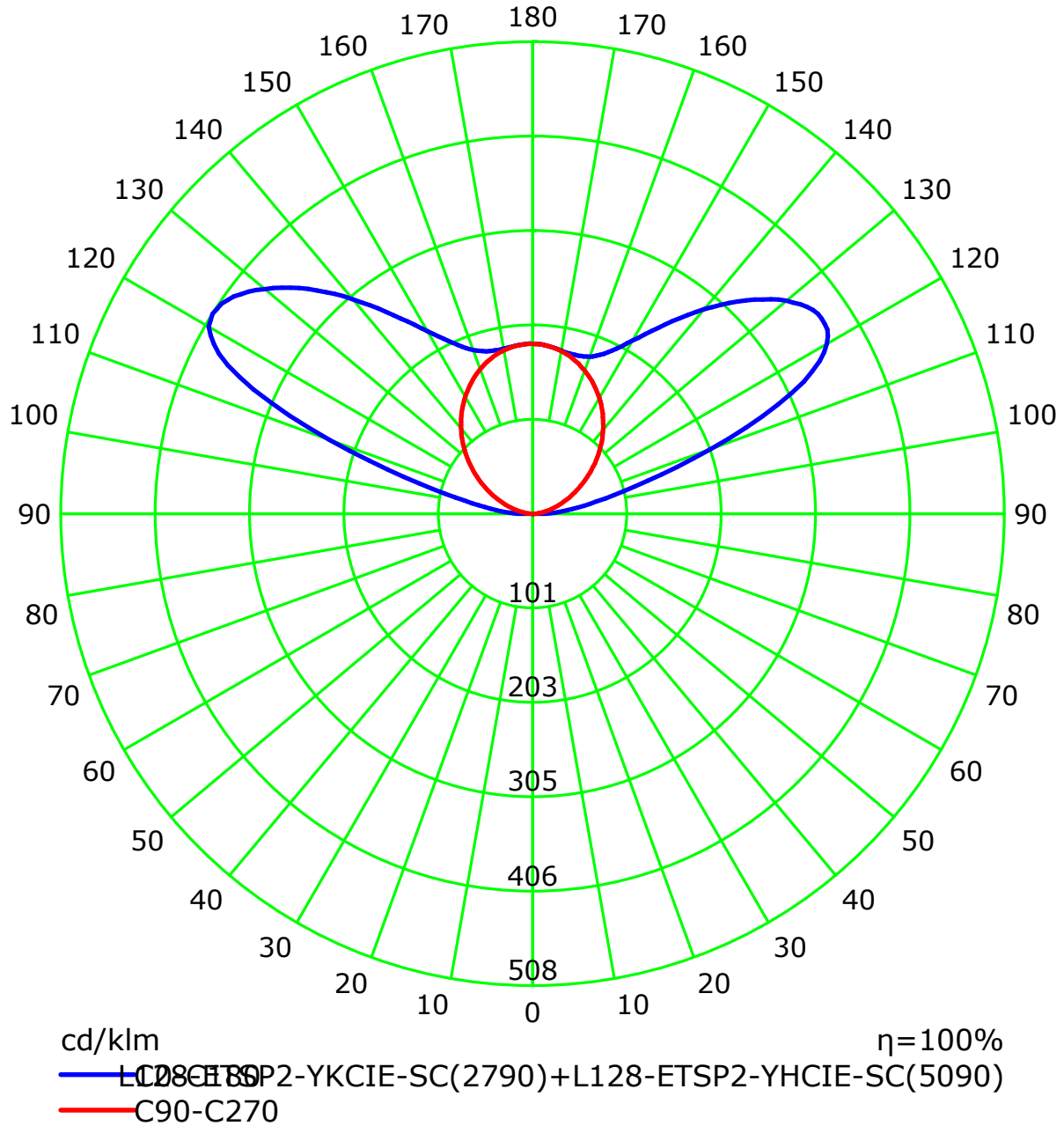
## Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0  
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 (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

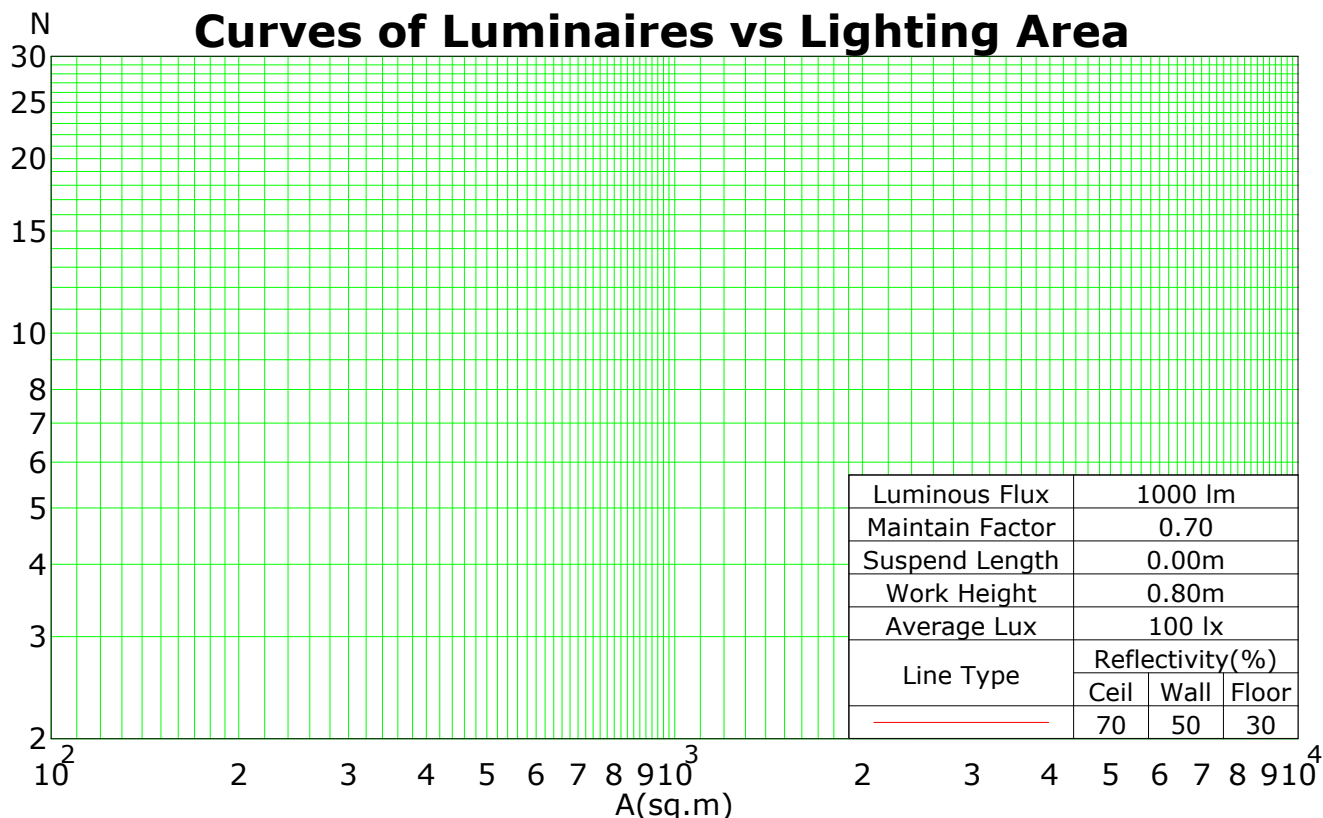
## Coefficients Of Utilization - Zonal Cavity Method

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	0.950	0.950	0.950	0.950	0.810	0.810	0.810	0.810	0.560	0.560	0.560	0.320	0.320	0.320	0.100	0.100	0.100	0.00
1	0.870	0.830	0.790	0.760	0.740	0.710	0.680	0.650	0.480	0.470	0.450	0.280	0.270	0.260	0.090	0.090	0.080	0.00
2	0.790	0.720	0.660	0.620	0.670	0.620	0.570	0.530	0.420	0.400	0.370	0.240	0.230	0.220	0.080	0.070	0.070	0.00
3	0.720	0.630	0.570	0.510	0.610	0.540	0.490	0.440	0.370	0.340	0.310	0.210	0.200	0.180	0.070	0.060	0.060	0.00
4	0.650	0.560	0.480	0.430	0.560	0.480	0.420	0.370	0.330	0.290	0.260	0.190	0.170	0.160	0.060	0.060	0.050	0.00
5	0.600	0.490	0.420	0.360	0.510	0.420	0.360	0.320	0.290	0.250	0.220	0.170	0.150	0.130	0.050	0.050	0.040	0.00
6	0.550	0.440	0.360	0.310	0.470	0.380	0.310	0.270	0.260	0.220	0.190	0.150	0.130	0.110	0.050	0.040	0.040	0.00
7	0.500	0.390	0.320	0.270	0.430	0.340	0.280	0.230	0.230	0.190	0.160	0.140	0.110	0.100	0.040	0.040	0.030	0.00
8	0.460	0.350	0.280	0.230	0.390	0.300	0.240	0.200	0.210	0.170	0.140	0.120	0.100	0.090	0.040	0.030	0.030	0.00
9	0.430	0.320	0.250	0.200	0.370	0.270	0.220	0.180	0.190	0.150	0.130	0.110	0.090	0.070	0.040	0.030	0.020	0.00
10	0.400	0.290	0.220	0.180	0.340	0.250	0.190	0.160	0.170	0.140	0.110	0.100	0.080	0.070	0.030	0.030	0.020	0.00

Spacing Criteria (0-180): -1.#J

Spacing Criteria (90-270): -1.#J

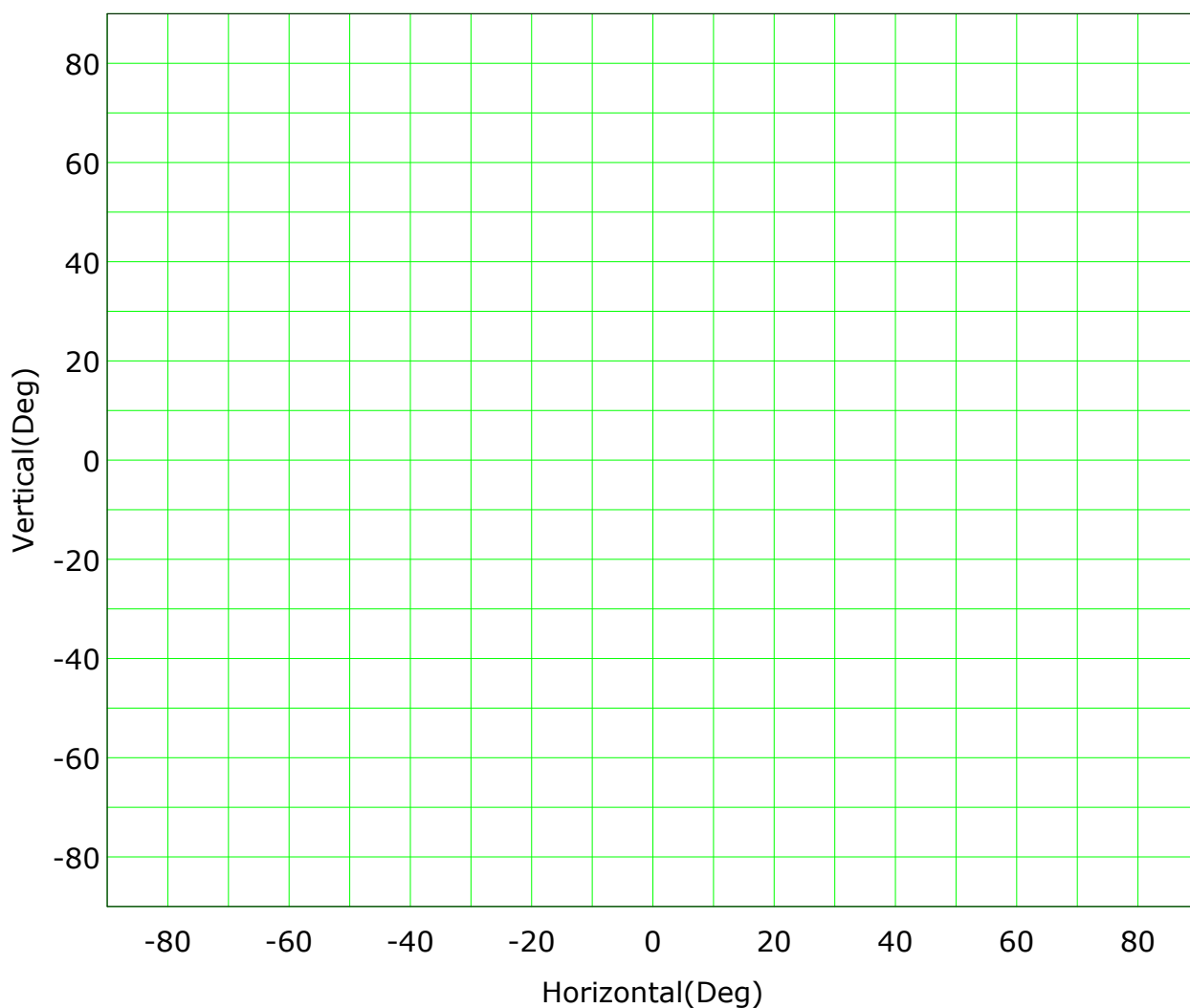
Spacing Criteria (Diagonal): -1.#J



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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

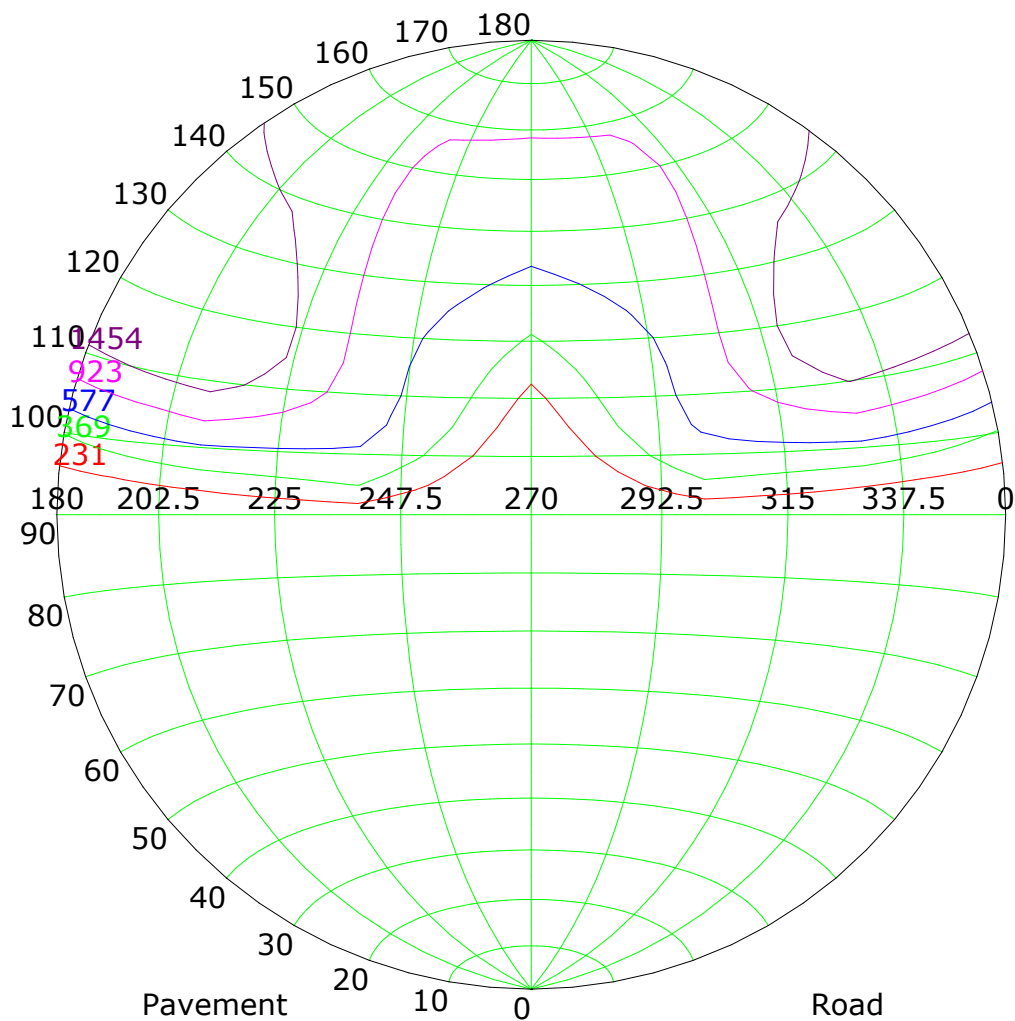
## Isocandela (rectangle)



Imax (100%): 2308 cd

( 10%): 231 cd	( 16%): 369 cd
( 25%): 577 cd	( 40%): 923 cd
( 63%): 1454 cd	(100%): 2308 cd

## Isocandela (sphere)

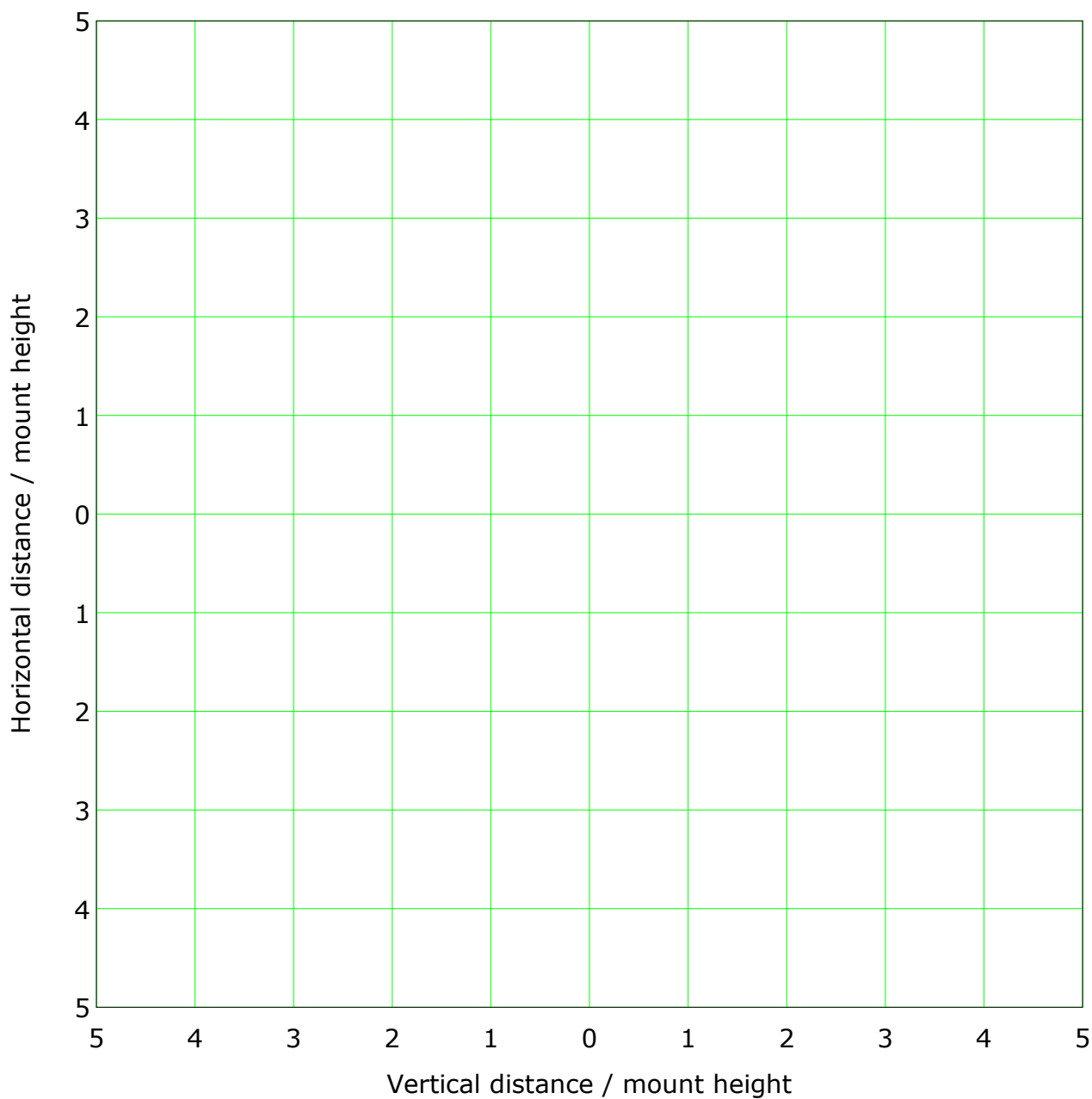


Imax (100%): 2308 cd

( 10%): 231 cd  
( 25%): 577 cd  
( 63%): 1454 cd

( 16%): 369 cd  
( 40%): 923 cd  
(100%): 2308 cd

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 0.0 lx

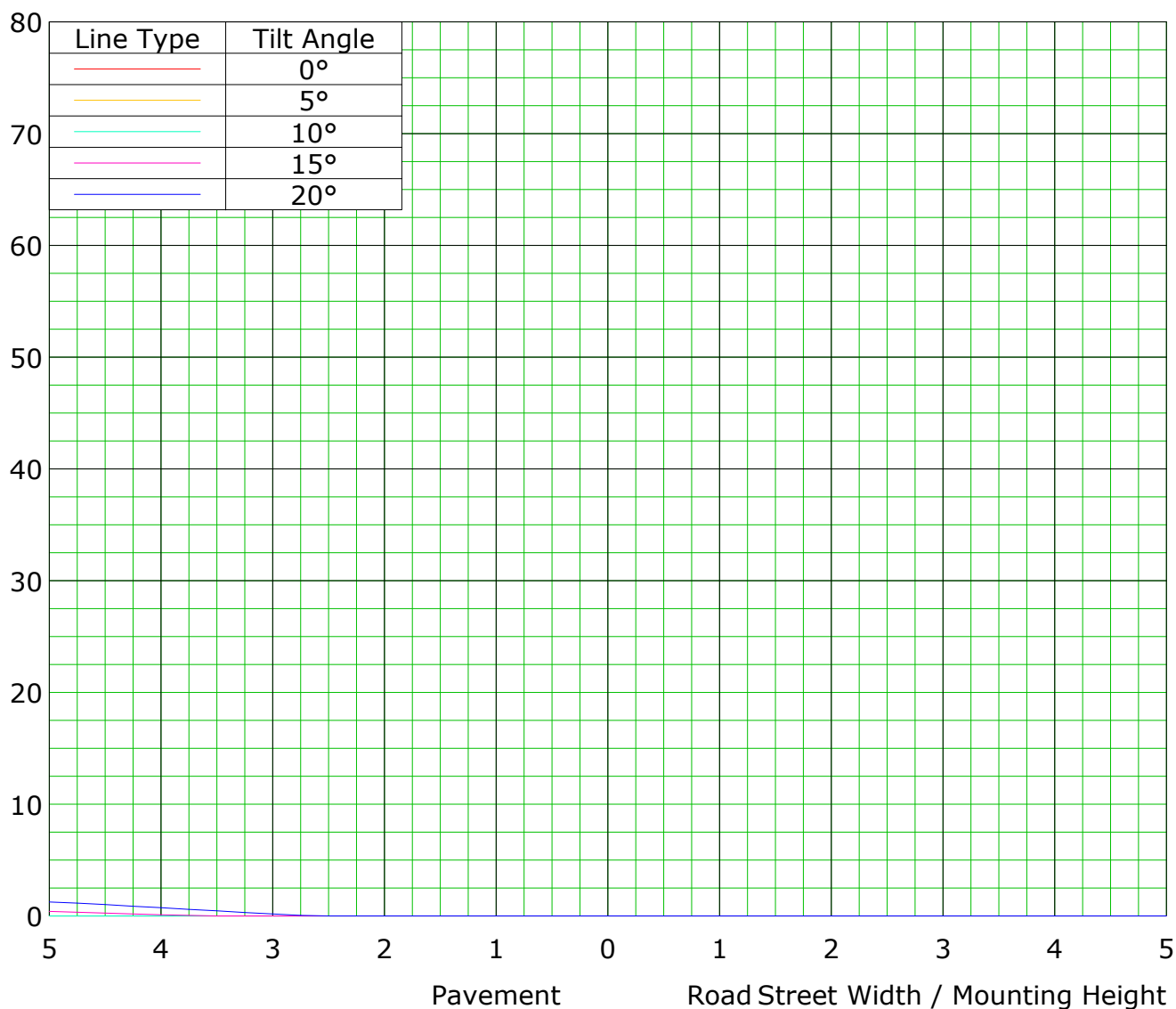
— ( 1%): 0.0 lx	— ( 2%): 0.0 lx
— ( 5%): 0.0 lx	— (10%): 0.0 lx
— (20%): 0.0 lx	— (50%): 0.0 lx
— (100%): 0.0 lx	

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

Gamma Plane (°):0.0-180.0:1.0  
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:

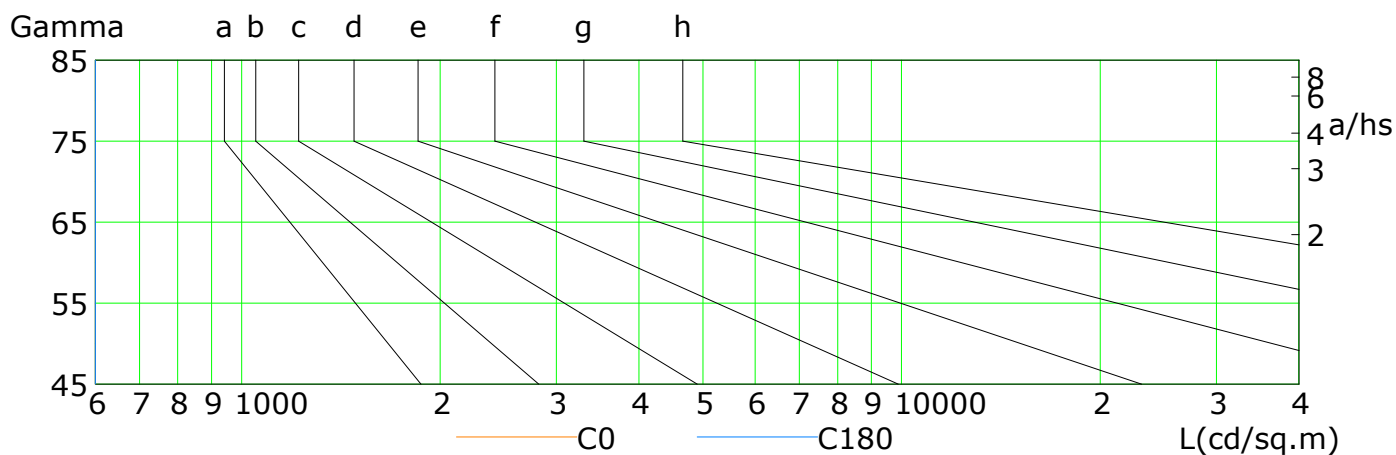
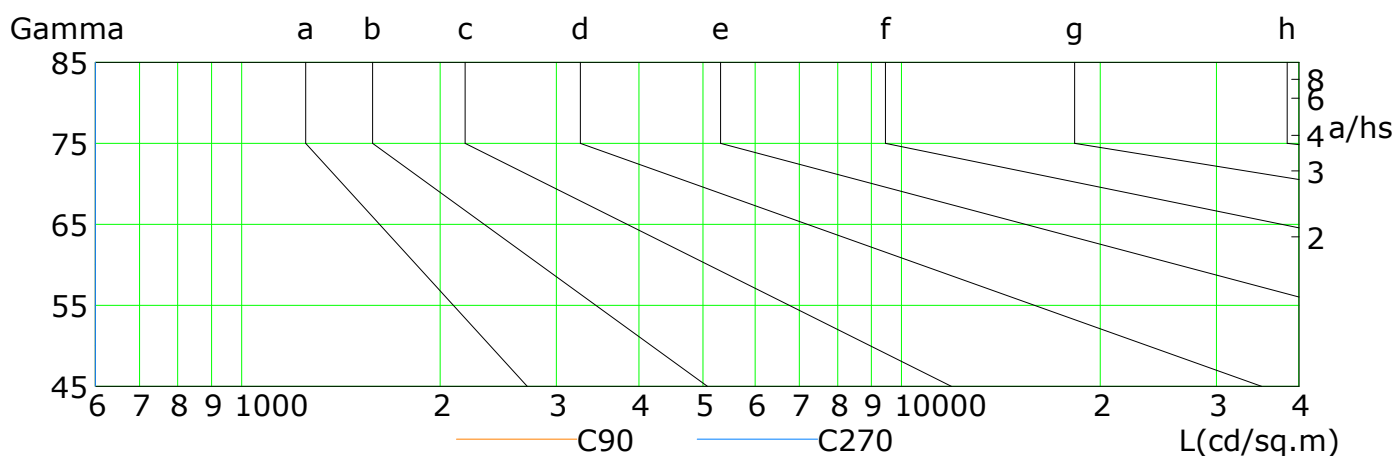
Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:



## 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

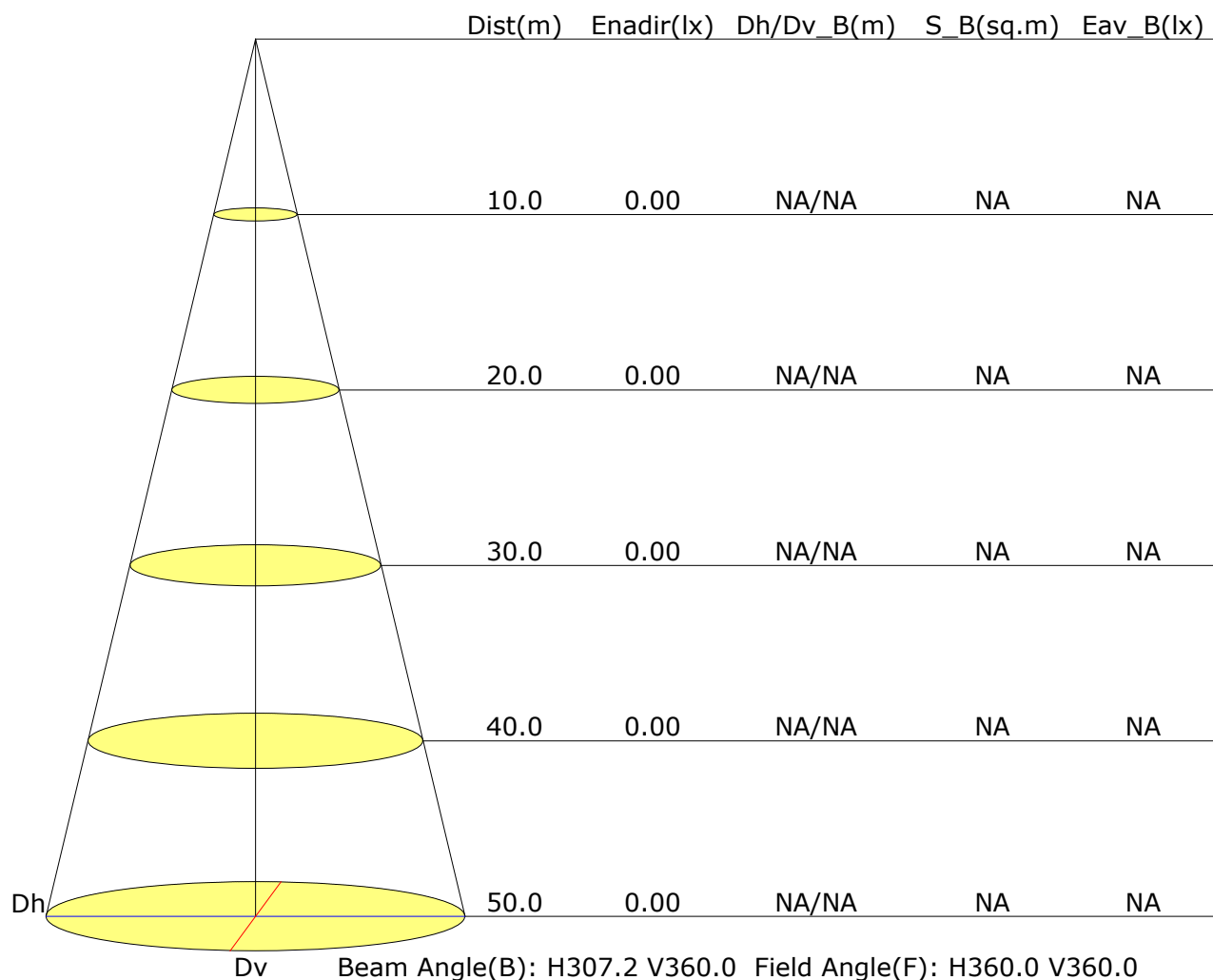


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0
C180	0	0	0	0	0	0	0	0	0
C270	0	0	0	0	0	0	0	0	0

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

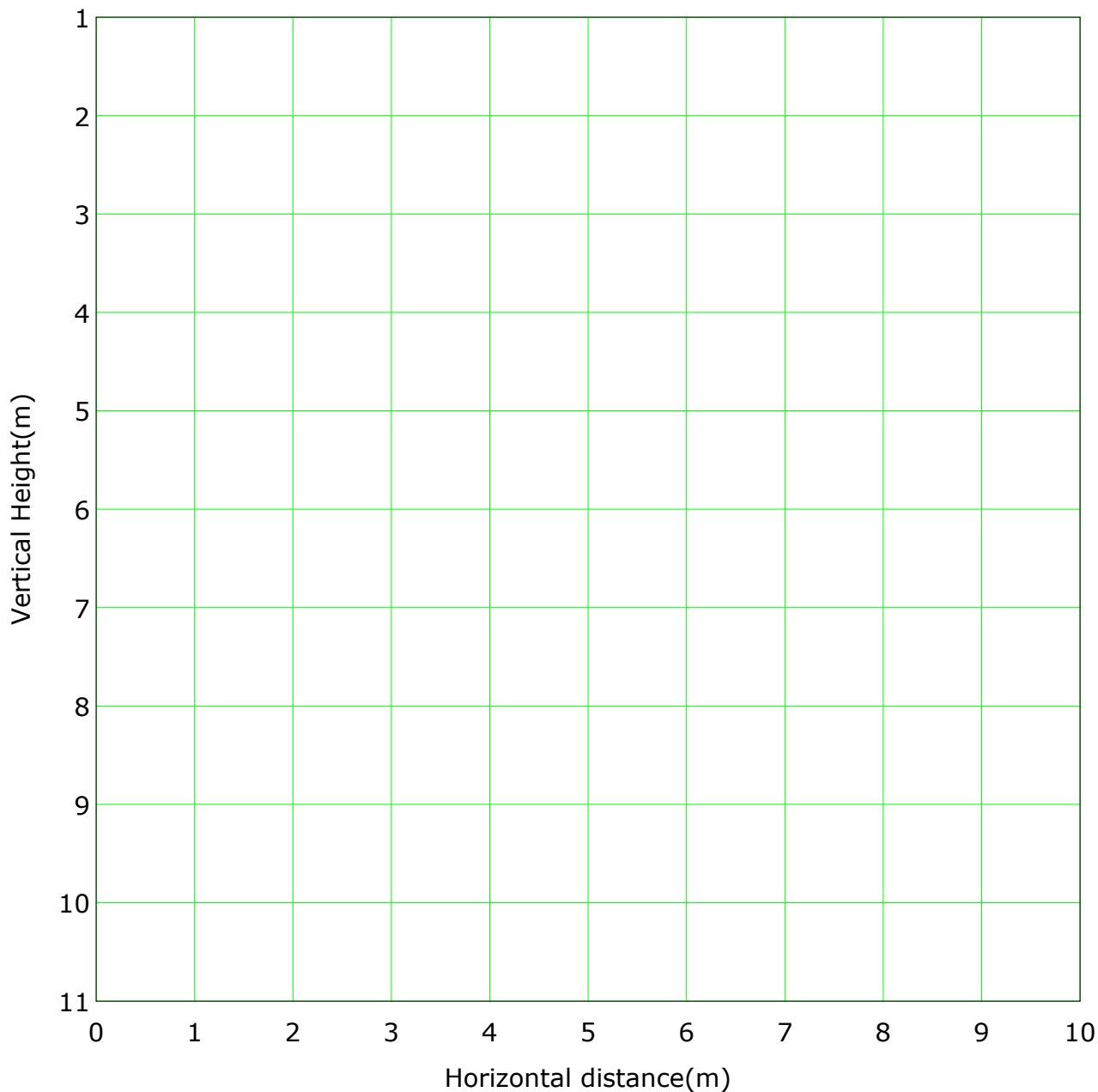
## Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0  
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: 0.0 lx
( 1%): 0.0 lx	( 2%): 0.0 lx	
( 5%): 0.0 lx	( 10%): 0.0 lx	
( 20%): 0.0 lx	( 50%): 0.0 lx	
(100%): 0.0 lx		

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

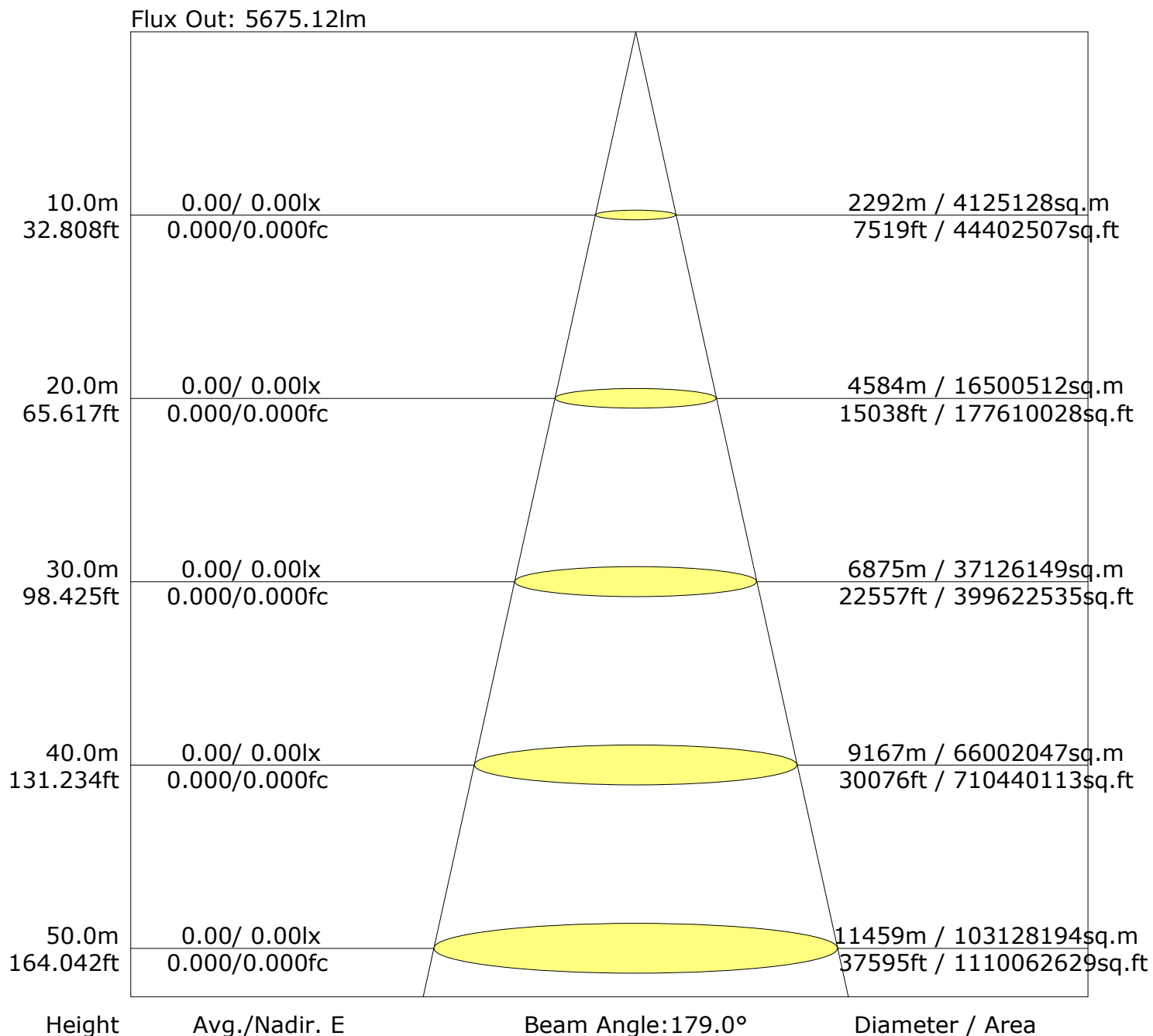
## Area Flux Table

[illegible]

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

Gamma Plane (°):0.0-180.0:1.0  
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 (°):0.0-180.0:1.0  
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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	

Calculate in accordance with CIE 190:2010 The table is revised with 5675lm ( $8\log(F/F_0) = 6.0$ ).

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

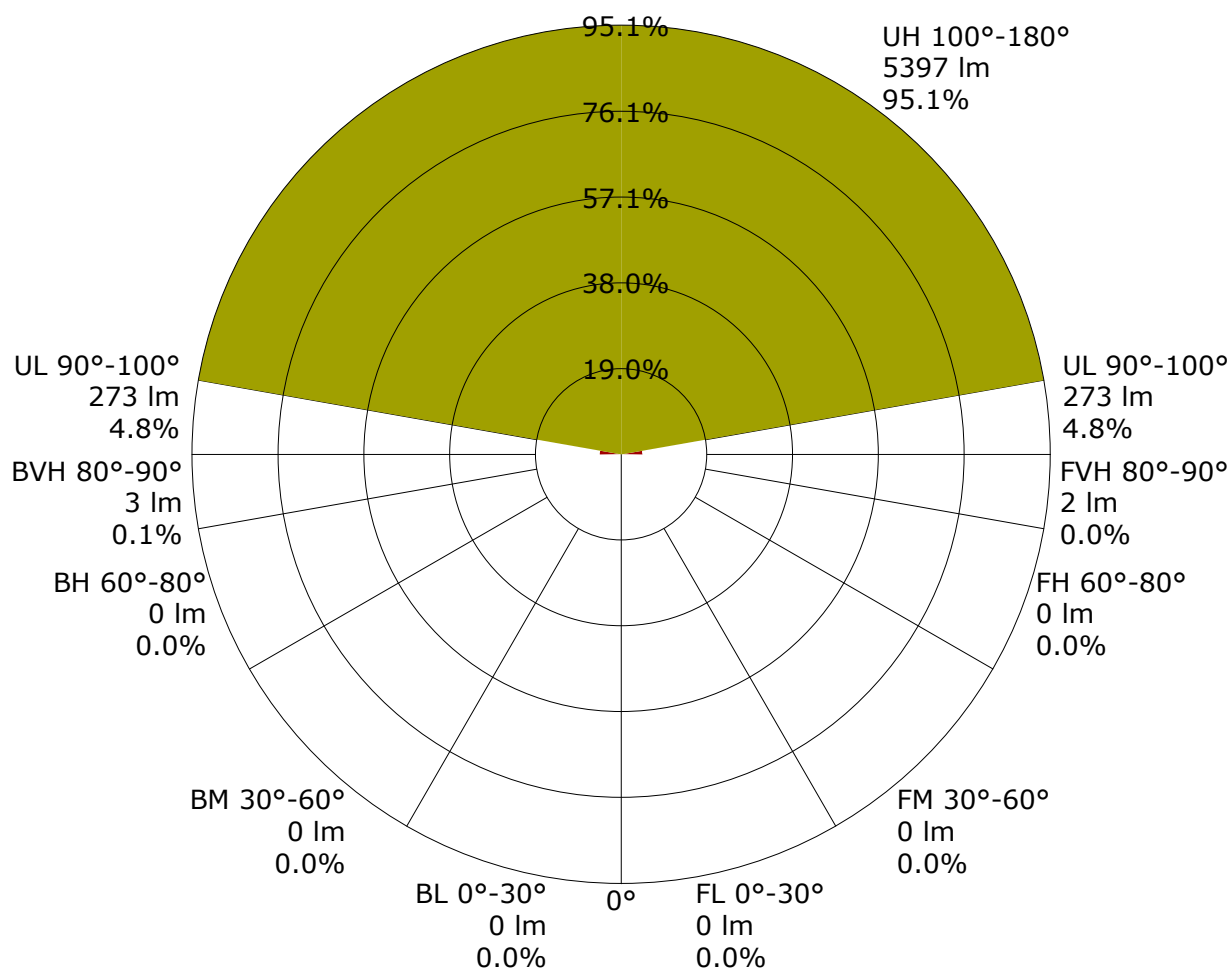
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2	0.0
	FL ( 0°-30°)	0	0.0
	FM (30°-60°)	0	0.0
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	2	0.0
	BACK LIGHT	3	0.1
	BL ( 0°-30°)	0	0.0
	BM (30°-60°)	0	0.0
	BH (60°-80°)	0	0.0
	BVH (80°-90°)	3	0.1
	UP LIGHT	5670	99.9
	UL (90°-100°)	273	4.8
	UH (100°-180°)	5397	95.1
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U5 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U5 G0

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

Gamma Plane (°):0.0-180.0:1.0  
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 = 0.50									
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.50	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.30	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:40W 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 = 0.50									
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.50	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.30	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:40W 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(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.50									
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.50	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.30	0.50	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.30		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<p>Rating:40W 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	0.0	0.0	0.0	0.00	0.00
1.0-2.0	0.0	0.0	0.0	0.00	0.00
2.0-3.0	0.0	0.0	0.0	0.00	0.00
3.0-4.0	0.0	0.0	0.0	0.00	0.00
4.0-5.0	0.0	0.0	0.0	0.00	0.00
5.0-6.0	0.0	0.0	0.0	0.00	0.00
6.0-7.0	0.0	0.0	0.0	0.00	0.00
7.0-8.0	0.0	0.0	0.0	0.00	0.00
8.0-9.0	0.0	0.0	0.0	0.00	0.00
9.0-10.0	0.0	0.0	0.0	0.00	0.00
10.0-11.0	0.0	0.0	0.0	0.00	0.00
11.0-12.0	0.0	0.0	0.0	0.00	0.00
12.0-13.0	0.0	0.0	0.0	0.00	0.00
13.0-14.0	0.0	0.0	0.0	0.00	0.00
14.0-15.0	0.0	0.0	0.0	0.00	0.00
15.0-16.0	0.0	0.0	0.0	0.00	0.00
16.0-17.0	0.0	0.0	0.0	0.00	0.00
17.0-18.0	0.0	0.0	0.0	0.00	0.00
18.0-19.0	0.0	0.0	0.0	0.00	0.00
19.0-20.0	0.0	0.0	0.0	0.00	0.00
20.0-21.0	0.0	0.0	0.0	0.00	0.00
21.0-22.0	0.0	0.0	0.0	0.00	0.00
22.0-23.0	0.0	0.0	0.0	0.00	0.00
23.0-24.0	0.0	0.0	0.0	0.00	0.00
24.0-25.0	0.0	0.0	0.0	0.00	0.00
25.0-26.0	0.0	0.0	0.0	0.00	0.00
26.0-27.0	0.0	0.0	0.0	0.00	0.00
27.0-28.0	0.0	0.0	0.0	0.00	0.00
28.0-29.0	0.0	0.0	0.0	0.00	0.00
29.0-30.0	0.0	0.0	0.0	0.00	0.00
30.0-31.0	0.0	0.0	0.0	0.00	0.00
31.0-32.0	0.0	0.0	0.0	0.00	0.00
32.0-33.0	0.0	0.0	0.0	0.00	0.00
33.0-34.0	0.0	0.0	0.0	0.00	0.00
34.0-35.0	0.0	0.0	0.0	0.00	0.00
35.0-36.0	0.0	0.0	0.0	0.00	0.00

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	0.0	0.0	0.0	0.00	0.00
37.0-38.0	0.0	0.0	0.0	0.00	0.00
38.0-39.0	0.0	0.0	0.0	0.00	0.00
39.0-40.0	0.0	0.0	0.0	0.00	0.00
40.0-41.0	0.0	0.0	0.0	0.00	0.00
41.0-42.0	0.0	0.0	0.0	0.00	0.00
42.0-43.0	0.0	0.0	0.0	0.00	0.00
43.0-44.0	0.0	0.0	0.0	0.00	0.00
44.0-45.0	0.0	0.0	0.0	0.00	0.00
45.0-46.0	0.0	0.0	0.0	0.00	0.00
46.0-47.0	0.0	0.0	0.0	0.00	0.00
47.0-48.0	0.0	0.0	0.0	0.00	0.00
48.0-49.0	0.0	0.0	0.0	0.00	0.00
49.0-50.0	0.0	0.0	0.0	0.00	0.00
50.0-51.0	0.0	0.0	0.0	0.00	0.00
51.0-52.0	0.0	0.0	0.0	0.00	0.00
52.0-53.0	0.0	0.0	0.0	0.00	0.00
53.0-54.0	0.0	0.0	0.0	0.00	0.00
54.0-55.0	0.0	0.0	0.0	0.00	0.00
55.0-56.0	0.0	0.0	0.0	0.00	0.00
56.0-57.0	0.0	0.0	0.0	0.00	0.00
57.0-58.0	0.0	0.0	0.0	0.00	0.00
58.0-59.0	0.0	0.0	0.0	0.00	0.00
59.0-60.0	0.0	0.0	0.0	0.00	0.00
60.0-61.0	0.0	0.0	0.0	0.00	0.00
61.0-62.0	0.0	0.0	0.0	0.00	0.00
62.0-63.0	0.0	0.0	0.0	0.00	0.00
63.0-64.0	0.0	0.0	0.0	0.00	0.00
64.0-65.0	0.0	0.0	0.0	0.00	0.00
65.0-66.0	0.0	0.0	0.0	0.00	0.00
66.0-67.0	0.0	0.0	0.0	0.00	0.00
67.0-68.0	0.0	0.0	0.0	0.00	0.00
68.0-69.0	0.0	0.0	0.0	0.00	0.00
69.0-70.0	0.0	0.0	0.0	0.00	0.00
70.0-71.0	0.0	0.0	0.0	0.00	0.00
71.0-72.0	0.0	0.0	0.0	0.00	0.00

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	0.0	0.0	0.0	0.00	0.00
73.0-74.0	0.0	0.0	0.0	0.00	0.00
74.0-75.0	0.0	0.0	0.0	0.00	0.00
75.0-76.0	0.0	0.0	0.0	0.00	0.00
76.0-77.0	0.0	0.0	0.0	0.00	0.00
77.0-78.0	0.0	0.0	0.0	0.00	0.00
78.0-79.0	0.0	0.0	0.0	0.00	0.00
79.0-80.0	0.0	0.0	0.0	0.00	0.00
80.0-81.0	0.0	0.0	0.0	0.00	0.00
81.0-82.0	0.0	0.0	0.0	0.00	0.00
82.0-83.0	0.0	0.0	0.0	0.00	0.00
83.0-84.0	0.0	0.0	0.0	0.00	0.00
84.0-85.0	0.0	0.0	0.0	0.00	0.00
85.0-86.0	0.0	0.0	0.0	0.00	0.00
86.0-87.0	0.0	0.0	0.0	0.00	0.00
87.0-88.0	0.0	0.0	0.0	0.00	0.00
88.0-89.0	0.0	0.0	0.0	0.00	0.00
89.0-90.0	47.7	5.2	5.2	0.09	0.09
90.0-91.0	110.0	12.1	17.3	0.21	0.30
91.0-92.0	140.0	15.3	32.6	0.27	0.58
92.0-93.0	170.7	18.7	51.3	0.33	0.90
93.0-94.0	201.4	22.0	73.4	0.39	1.29
94.0-95.0	232.1	25.4	98.8	0.45	1.74
95.0-96.0	263.3	28.7	127.5	0.51	2.25
96.0-97.0	295.7	32.2	159.7	0.57	2.81
97.0-98.0	329.6	35.8	195.5	0.63	3.45
98.0-99.0	365.0	39.6	235.1	0.70	4.14
99.0-100.0	401.9	43.5	278.6	0.77	4.91
100.0-101.0	441.1	47.6	326.1	0.84	5.75
101.0-102.0	484.0	52.0	378.2	0.92	6.66
102.0-103.0	530.2	56.8	434.9	1.00	7.66
103.0-104.0	579.6	61.8	496.7	1.09	8.75
104.0-105.0	632.9	67.2	563.9	1.18	9.94
105.0-106.0	689.9	72.9	636.8	1.28	11.22
106.0-107.0	749.6	78.8	715.6	1.39	12.61
107.0-108.0	811.7	84.9	800.5	1.50	14.11

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	874.9	91.0	891.5	1.60	15.71
109.0-110.0	937.7	96.9	988.4	1.71	17.42
110.0-111.0	998.9	102.6	1091.0	1.81	19.23
111.0-112.0	1056.5	107.8	1198.8	1.90	21.12
112.0-113.0	1108.8	112.3	1311.2	1.98	23.10
113.0-114.0	1155.0	116.1	1427.3	2.05	25.15
114.0-115.0	1194.8	119.2	1546.6	2.10	27.25
115.0-116.0	1227.7	121.5	1668.1	2.14	29.39
116.0-117.0	1252.7	122.9	1791.0	2.17	31.56
117.0-118.0	1270.5	123.6	1914.6	2.18	33.74
118.0-119.0	1282.8	123.6	2038.2	2.18	35.92
119.0-120.0	1290.2	123.1	2161.4	2.17	38.08
120.0-121.0	1293.2	122.2	2283.6	2.15	40.24
121.0-122.0	1292.7	120.9	2404.4	2.13	42.37
122.0-123.0	1288.8	119.2	2523.6	2.10	44.47
123.0-124.0	1282.9	117.3	2640.9	2.07	46.54
124.0-125.0	1276.4	115.4	2756.3	2.03	48.57
125.0-126.0	1267.7	113.2	2869.5	1.99	50.56
126.0-127.0	1257.8	110.9	2980.3	1.95	52.52
127.0-128.0	1247.0	108.5	3088.8	1.91	54.43
128.0-129.0	1235.3	106.0	3194.8	1.87	56.30
129.0-130.0	1223.1	103.5	3298.3	1.82	58.12
130.0-131.0	1211.0	101.0	3399.3	1.78	59.90
131.0-132.0	1198.3	98.4	3497.7	1.73	61.63
132.0-133.0	1184.8	95.8	3593.5	1.69	63.32
133.0-134.0	1171.5	93.2	3686.7	1.64	64.96
134.0-135.0	1158.5	90.6	3777.3	1.60	66.56
135.0-136.0	1145.4	88.0	3865.4	1.55	68.11
136.0-137.0	1132.0	85.4	3950.8	1.51	69.62
137.0-138.0	1118.6	82.9	4033.7	1.46	71.08
138.0-139.0	1105.7	80.3	4114.0	1.42	72.49
139.0-140.0	1093.1	77.8	4191.9	1.37	73.86
140.0-141.0	1080.6	75.4	4267.3	1.33	75.19
141.0-142.0	1068.4	72.9	4340.2	1.29	76.48
142.0-143.0	1056.8	70.5	4410.7	1.24	77.72
143.0-144.0	1045.9	68.2	4479.0	1.20	78.92

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1035.7	66.0	4544.9	1.16	80.08
145.0-146.0	1026.0	63.7	4608.6	1.12	81.21
146.0-147.0	1017.3	61.6	4670.2	1.08	82.29
147.0-148.0	1009.2	59.5	4729.7	1.05	83.34
148.0-149.0	1001.5	57.4	4787.1	1.01	84.35
149.0-150.0	995.0	55.4	4842.4	0.98	85.33
150.0-151.0	989.7	53.4	4895.9	0.94	86.27
151.0-152.0	984.9	51.5	4947.4	0.91	87.18
152.0-153.0	981.1	49.7	4997.1	0.88	88.05
153.0-154.0	978.4	47.9	5045.0	0.84	88.90
154.0-155.0	976.2	46.1	5091.1	0.81	89.71
155.0-156.0	974.7	44.3	5135.4	0.78	90.49
156.0-157.0	974.2	42.6	5178.0	0.75	91.24
157.0-158.0	974.3	40.9	5218.9	0.72	91.96
158.0-159.0	975.3	39.2	5258.1	0.69	92.65
159.0-160.0	977.0	37.5	5295.6	0.66	93.31
160.0-161.0	979.1	35.8	5331.4	0.63	93.94
161.0-162.0	981.8	34.2	5365.6	0.60	94.55
162.0-163.0	985.2	32.5	5398.1	0.57	95.12
163.0-164.0	988.5	30.8	5428.9	0.54	95.66
164.0-165.0	992.1	29.1	5457.9	0.51	96.17
165.0-166.0	996.4	27.4	5485.3	0.48	96.66
166.0-167.0	1000.6	25.6	5510.9	0.45	97.11
167.0-168.0	1004.8	23.8	5534.8	0.42	97.53
168.0-169.0	1009.0	22.1	5556.8	0.39	97.92
169.0-170.0	1013.5	20.3	5577.1	0.36	98.27
170.0-171.0	1017.8	18.4	5595.5	0.32	98.60
171.0-172.0	1021.7	16.6	5612.1	0.29	98.89
172.0-173.0	1025.4	14.7	5626.7	0.26	99.15
173.0-174.0	1028.8	12.8	5639.5	0.23	99.37
174.0-175.0	1031.6	10.8	5650.4	0.19	99.56
175.0-176.0	1034.1	8.9	5659.2	0.16	99.72
176.0-177.0	1036.2	6.9	5666.2	0.12	99.84
177.0-178.0	1037.7	5.0	5671.1	0.09	99.93
178.0-179.0	1038.7	3.0	5674.1	0.05	99.98
179.0-180.0	1039.2	1.0	5675.1	0.02	100.00

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:



## Zonal Lumen (Continue 5)

cone flux(90°): 0.00 lm

%lum = 0.0%

%lamp = 0.0%

cone flux(120°): 0.00 lm

%lum = 0.0%

%lamp = 0.0%

## Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Gamma Plane (°):0.0-180.0:1.0  
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	C270.0
G37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G57.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G90.0	66.8	105.0	144.4	3.8	182.3	120.5	78.6	101.5	143.5	1.4
G91.0	85.7	133.8	188.0	7.2	225.9	151.7	97.5	130.5	195.8	2.2
G92.0	107.2	167.4	227.3	11.4	268.6	186.7	119.8	163.7	243.8	5.7
G93.0	131.6	203.5	262.5	16.5	306.2	222.4	145.4	199.6	291.8	10.2
G94.0	158.4	243.6	293.2	22.7	341.1	261.3	170.0	237.8	333.8	15.8
G95.0	186.0	283.8	320.2	29.7	373.4	303.4	197.4	278.3	374.1	22.4
G96.0	215.2	327.1	347.7	37.3	405.7	348.3	226.2	321.7	411.8	30.1
G97.0	246.0	374.1	373.4	45.6	436.5	397.0	260.8	369.5	449.5	38.6
G98.0	279.2	423.7	397.1	54.3	464.7	454.9	297.3	419.2	485.4	47.8
G99.0	317.9	478.2	419.6	63.5	490.2	512.8	333.5	481.3	519.8	57.6
G100.0	356.3	538.1	439.8	73.2	514.9	580.3	376.8	543.5	550.2	67.8
G101.0	399.8	605.0	457.4	83.3	534.1	659.2	425.6	618.6	578.3	78.7
G102.0	454.4	680.4	475.1	93.6	553.2	747.7	485.2	704.4	602.5	90.0
G103.0	509.2	764.5	489.4	104.5	568.1	845.2	550.7	798.0	622.5	101.7
G104.0	574.5	854.6	500.9	115.5	580.7	951.9	631.4	904.6	639.6	113.7
G105.0	648.8	954.6	510.7	127.0	590.6	1067.7	715.6	1021.6	653.8	126.1
G106.0	732.9	1057.0	518.8	138.9	599.6	1189.7	821.7	1145.5	664.6	138.7
G107.0	828.5	1167.8	525.3	150.7	604.9	1312.8	927.8	1275.0	671.9	151.9
G108.0	930.0	1277.5	530.5	163.3	609.4	1439.0	1054.0	1410.8	677.7	165.4
G109.0	1043.1	1378.5	535.2	176.1	612.4	1561.9	1183.9	1545.2	681.7	178.6
G110.0	1158.1	1485.2	539.0	189.3	614.5	1676.7	1323.4	1667.9	682.4	192.8

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	1283.4	1577.3	542.7	202.7	615.5	1778.4	1466.4	1788.1	682.5	207.0
G112.0	1408.8	1659.5	545.1	216.6	616.2	1866.1	1604.4	1887.8	681.8	222.0
G113.0	1527.8	1729.3	548.6	230.7	617.3	1936.9	1738.4	1970.3	680.8	237.2
G114.0	1641.8	1781.6	551.9	245.5	618.1	1987.7	1870.2	2039.5	678.6	252.3
G115.0	1748.5	1826.4	555.3	260.3	619.0	2026.2	1977.5	2087.2	677.2	268.8
G116.0	1846.6	1857.0	559.3	275.2	620.2	2048.0	2074.8	2118.9	676.3	284.2
G117.0	1918.2	1872.3	562.8	290.7	622.3	2052.4	2152.7	2132.2	677.1	300.3
G118.0	1989.4	1877.9	566.2	306.3	624.5	2051.6	2206.9	2132.7	674.4	316.6
G119.0	2039.7	1874.9	572.0	322.2	627.7	2038.5	2252.5	2125.8	676.2	332.6
G120.0	2078.2	1865.4	576.1	337.8	631.0	2017.8	2288.9	2103.1	677.4	349.0
G121.0	2107.8	1847.4	582.8	354.5	635.1	1992.1	2299.0	2079.4	680.1	366.6
G122.0	2126.1	1831.1	588.5	370.6	639.8	1963.7	2308.3	2048.6	681.7	382.4
G123.0	2130.0	1806.2	595.2	387.1	644.8	1929.9	2301.5	2009.9	685.2	398.6
G124.0	2133.6	1778.5	601.0	403.7	650.3	1898.5	2297.0	1976.9	687.6	416.4
G125.0	2131.3	1749.8	609.1	420.0	655.4	1864.1	2278.9	1943.7	692.5	434.1
G126.0	2119.1	1718.9	616.2	436.7	661.8	1827.9	2260.4	1901.5	698.6	450.0
G127.0	2102.4	1689.7	624.2	454.4	668.4	1790.4	2232.5	1862.4	703.3	466.7
G128.0	2080.4	1655.4	630.9	472.1	674.0	1752.4	2205.8	1825.2	707.4	484.4
G129.0	2051.4	1621.6	640.1	489.9	681.6	1716.6	2175.0	1781.9	713.8	501.8
G130.0	2026.5	1588.2	648.3	506.6	688.2	1678.3	2138.4	1744.9	719.1	518.4
G131.0	1996.9	1558.3	656.1	523.2	695.6	1641.8	2103.4	1704.8	725.3	535.3
G132.0	1961.3	1522.2	665.3	540.5	702.0	1605.3	2065.1	1665.0	731.8	552.4
G133.0	1922.1	1484.0	674.0	557.4	710.0	1567.9	2027.8	1623.4	738.1	570.0
G134.0	1885.3	1452.0	682.7	574.3	717.0	1533.8	1987.0	1586.8	743.9	586.6
G135.0	1845.8	1421.2	691.2	590.9	725.3	1497.2	1945.8	1547.3	750.8	603.1
G136.0	1805.0	1389.3	699.7	608.2	733.5	1463.7	1897.6	1513.3	757.7	619.1
G137.0	1763.3	1357.0	710.6	623.9	742.0	1427.9	1851.6	1473.4	765.5	635.5
G138.0	1719.2	1325.3	718.1	639.8	749.6	1394.9	1808.2	1441.1	772.0	651.5
G139.0	1673.2	1296.6	728.9	655.7	759.0	1363.8	1763.2	1402.1	781.2	666.9
G140.0	1634.7	1265.3	736.4	671.6	767.4	1334.2	1712.7	1373.3	787.8	682.3
G141.0	1588.6	1236.6	747.0	687.2	776.8	1303.9	1664.5	1340.6	796.2	697.8
G142.0	1541.6	1208.3	757.3	702.0	785.7	1275.2	1618.8	1308.2	805.0	712.7
G143.0	1498.7	1181.2	766.1	717.0	794.0	1250.5	1573.4	1280.4	811.1	727.3
G144.0	1458.0	1157.9	777.4	732.2	802.6	1223.2	1525.8	1253.3	820.8	742.9
G145.0	1414.8	1133.8	787.9	748.1	813.2	1199.1	1482.0	1225.6	829.1	757.3
G146.0	1371.0	1111.9	797.8	761.6	821.9	1178.0	1439.4	1201.4	837.4	771.9
G147.0	1332.2	1092.3	809.8	776.3	831.0	1157.2	1401.5	1178.5	844.7	785.8

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	1293.0	1074.1	818.8	791.0	839.6	1135.6	1361.7	1156.6	853.9	799.1
G149.0	1255.0	1058.8	830.1	804.0	849.4	1116.8	1323.4	1135.3	860.5	812.9
G150.0	1224.1	1042.1	839.0	817.0	857.5	1100.6	1290.5	1117.4	870.2	826.3
G151.0	1192.8	1029.5	850.4	830.1	867.1	1085.2	1257.3	1102.0	877.3	838.6
G152.0	1160.2	1017.0	860.4	842.4	876.3	1071.5	1227.7	1088.9	884.7	851.0
G153.0	1134.1	1008.8	870.3	854.4	884.9	1059.4	1202.3	1073.3	893.6	864.0
G154.0	1111.6	1000.2	881.1	867.0	894.0	1047.7	1175.9	1059.6	902.9	876.0
G155.0	1090.2	992.4	891.3	878.5	901.7	1038.3	1152.7	1051.0	910.6	887.2
G156.0	1070.6	986.3	899.7	890.3	910.4	1029.5	1130.2	1041.7	919.5	898.9
G157.0	1055.6	983.7	908.7	900.8	919.8	1021.0	1109.9	1034.1	928.8	909.8
G158.0	1042.6	980.4	917.8	911.8	928.2	1015.3	1093.1	1024.6	936.1	920.9
G159.0	1031.3	979.3	927.1	921.6	937.7	1012.2	1079.2	1020.9	943.3	930.7
G160.0	1022.3	978.4	936.5	931.9	944.4	1008.2	1065.7	1018.1	952.6	940.4
G161.0	1017.7	976.7	942.6	941.8	953.4	1007.3	1056.0	1013.4	959.5	950.7
G162.0	1012.0	980.0	952.5	950.8	960.6	1005.7	1047.5	1013.4	966.9	959.7
G163.0	1009.1	980.4	960.2	961.1	969.2	1005.5	1039.4	1012.7	976.1	967.6
G164.0	1006.3	984.1	967.4	968.7	976.4	1005.2	1032.3	1011.5	982.5	975.7
G165.0	1006.0	988.2	978.2	976.7	983.3	1006.1	1030.1	1011.0	986.8	984.3
G166.0	1005.2	992.6	984.5	984.8	990.8	1007.5	1027.0	1013.6	995.2	991.3
G167.0	1007.0	995.8	990.2	992.5	997.3	1010.9	1026.2	1014.9	999.9	998.0
G168.0	1007.3	1002.3	997.9	998.1	1003.6	1012.5	1024.5	1017.7	1004.9	1004.1
G169.0	1010.1	1006.1	1004.8	1004.9	1008.9	1017.2	1023.8	1019.1	1009.2	1009.8
G170.0	1014.0	1009.1	1012.6	1010.6	1015.3	1020.2	1026.5	1023.3	1015.9	1014.6
G171.0	1017.4	1015.8	1015.9	1016.1	1019.5	1021.8	1026.9	1025.2	1021.1	1019.8
G172.0	1021.9	1019.7	1021.6	1020.8	1022.7	1025.6	1028.9	1027.3	1026.2	1024.2
G173.0	1025.4	1024.1	1026.1	1025.4	1028.0	1028.0	1030.9	1029.5	1028.6	1027.5
G174.0	1027.2	1027.3	1030.3	1028.7	1031.2	1031.6	1033.3	1031.8	1033.4	1030.7
G175.0	1031.3	1029.7	1032.5	1031.9	1034.2	1033.8	1034.9	1034.4	1035.3	1033.0
G176.0	1035.5	1034.1	1033.9	1034.0	1036.1	1035.6	1037.4	1036.5	1037.1	1034.8
G177.0	1037.2	1035.6	1038.1	1036.7	1038.6	1036.7	1038.3	1036.5	1037.1	1037.2
G178.0	1037.7	1037.8	1040.5	1037.7	1039.2	1038.7	1040.1	1038.7	1039.5	1037.7
G179.0	1039.2	1037.7	1039.2	1038.7	1039.1	1038.4	1040.7	1038.3	1039.9	1038.9
G180.0	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	0.0	0.0	0.0							
G1.0	0.0	0.0	0.0							
G2.0	0.0	0.0	0.0							
G3.0	0.0	0.0	0.0							
G4.0	0.0	0.0	0.0							
G5.0	0.0	0.0	0.0							
G6.0	0.0	0.0	0.0							
G7.0	0.0	0.0	0.0							
G8.0	0.0	0.0	0.0							
G9.0	0.0	0.0	0.0							
G10.0	0.0	0.0	0.0							
G11.0	0.0	0.0	0.0							
G12.0	0.0	0.0	0.0							
G13.0	0.0	0.0	0.0							
G14.0	0.0	0.0	0.0							
G15.0	0.0	0.0	0.0							
G16.0	0.0	0.0	0.0							
G17.0	0.0	0.0	0.0							
G18.0	0.0	0.0	0.0							
G19.0	0.0	0.0	0.0							
G20.0	0.0	0.0	0.0							
G21.0	0.0	0.0	0.0							
G22.0	0.0	0.0	0.0							
G23.0	0.0	0.0	0.0							
G24.0	0.0	0.0	0.0							
G25.0	0.0	0.0	0.0							
G26.0	0.0	0.0	0.0							
G27.0	0.0	0.0	0.0							
G28.0	0.0	0.0	0.0							
G29.0	0.0	0.0	0.0							
G30.0	0.0	0.0	0.0							
G31.0	0.0	0.0	0.0							
G32.0	0.0	0.0	0.0							
G33.0	0.0	0.0	0.0							
G34.0	0.0	0.0	0.0							
G35.0	0.0	0.0	0.0							
G36.0	0.0	0.0	0.0							

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	0.0	0.0	0.0							
G38.0	0.0	0.0	0.0							
G39.0	0.0	0.0	0.0							
G40.0	0.0	0.0	0.0							
G41.0	0.0	0.0	0.0							
G42.0	0.0	0.0	0.0							
G43.0	0.0	0.0	0.0							
G44.0	0.0	0.0	0.0							
G45.0	0.0	0.0	0.0							
G46.0	0.0	0.0	0.0							
G47.0	0.0	0.0	0.0							
G48.0	0.0	0.0	0.0							
G49.0	0.0	0.0	0.0							
G50.0	0.0	0.0	0.0							
G51.0	0.0	0.0	0.0							
G52.0	0.0	0.0	0.0							
G53.0	0.0	0.0	0.0							
G54.0	0.0	0.0	0.0							
G55.0	0.0	0.0	0.0							
G56.0	0.0	0.0	0.0							
G57.0	0.0	0.0	0.0							
G58.0	0.0	0.0	0.0							
G59.0	0.0	0.0	0.0							
G60.0	0.0	0.0	0.0							
G61.0	0.0	0.0	0.0							
G62.0	0.0	0.0	0.0							
G63.0	0.0	0.0	0.0							
G64.0	0.0	0.0	0.0							
G65.0	0.0	0.0	0.0							
G66.0	0.0	0.0	0.0							
G67.0	0.0	0.0	0.0							
G68.0	0.0	0.0	0.0							
G69.0	0.0	0.0	0.0							
G70.0	0.0	0.0	0.0							
G71.0	0.0	0.0	0.0							
G72.0	0.0	0.0	0.0							
G73.0	0.0	0.0	0.0							

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:



## Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	0.0	0.0	0.0							
G75.0	0.0	0.0	0.0							
G76.0	0.0	0.0	0.0							
G77.0	0.0	0.0	0.0							
G78.0	0.0	0.0	0.0							
G79.0	0.0	0.0	0.0							
G80.0	0.0	0.0	0.0							
G81.0	0.0	0.0	0.0							
G82.0	0.0	0.0	0.0							
G83.0	0.0	0.0	0.0							
G84.0	0.0	0.0	0.0							
G85.0	0.0	0.0	0.0							
G86.0	0.0	0.0	0.0							
G87.0	0.0	0.0	0.0							
G88.0	0.0	0.0	0.0							
G89.0	0.0	0.0	0.0							
G90.0	109.7	86.4	66.8							
G91.0	165.1	113.7	85.7							
G92.0	216.6	144.7	107.2							
G93.0	264.1	179.2	131.6							
G94.0	304.8	217.8	158.4							
G95.0	342.7	257.9	186.0							
G96.0	378.5	299.3	215.2							
G97.0	412.4	344.7	246.0							
G98.0	444.6	393.3	279.2							
G99.0	478.5	444.7	317.9							
G100.0	506.3	501.1	356.3							
G101.0	531.0	566.4	399.8							
G102.0	553.6	638.4	454.4							
G103.0	572.9	719.2	509.2							
G104.0	588.7	808.2	574.5							
G105.0	602.2	907.7	648.8							
G106.0	612.3	1010.8	732.9							
G107.0	620.6	1123.3	828.5							
G108.0	626.1	1236.0	930.0							
G109.0	630.4	1351.2	1043.1							
G110.0	632.7	1465.1	1158.1							

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	634.0	1568.2	1283.4							
G112.0	634.8	1667.1	1408.8							
G113.0	634.8	1749.9	1527.8							
G114.0	635.6	1814.6	1641.8							
G115.0	635.5	1874.7	1748.5							
G116.0	635.7	1913.1	1846.6							
G117.0	636.1	1938.7	1918.2							
G118.0	636.9	1952.1	1989.4							
G119.0	638.4	1952.1	2039.7							
G120.0	640.4	1948.0	2078.2							
G121.0	643.6	1934.3	2107.8							
G122.0	646.2	1915.1	2126.1							
G123.0	650.4	1889.5	2130.0							
G124.0	654.6	1864.1	2133.6							
G125.0	659.1	1833.0	2131.3							
G126.0	664.1	1799.6	2119.1							
G127.0	669.5	1767.7	2102.4							
G128.0	675.4	1732.7	2080.4							
G129.0	681.3	1696.2	2051.4							
G130.0	687.5	1660.1	2026.5							
G131.0	694.1	1624.6	1996.9							
G132.0	701.5	1588.2	1961.3							
G133.0	708.1	1552.5	1922.1							
G134.0	715.5	1515.9	1885.3							
G135.0	723.0	1481.6	1845.8							
G136.0	730.3	1447.8	1805.0							
G137.0	738.7	1412.3	1763.3							
G138.0	746.4	1378.5	1719.2							
G139.0	754.5	1346.3	1673.2							
G140.0	763.2	1313.1	1634.7							
G141.0	771.6	1281.8	1588.6							
G142.0	781.1	1252.9	1541.6							
G143.0	789.5	1224.2	1498.7							
G144.0	798.3	1195.0	1458.0							
G145.0	807.5	1170.0	1414.8							
G146.0	817.9	1145.2	1371.0							
G147.0	826.6	1122.9	1332.2							

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	835.8	1102.4	1293.0							
G149.0	845.4	1083.0	1255.0							
G150.0	855.0	1066.5	1224.1							
G151.0	863.6	1051.5	1192.8							
G152.0	873.1	1038.3	1160.2							
G153.0	883.3	1026.8	1134.1							
G154.0	891.7	1018.4	1111.6							
G155.0	901.2	1008.2	1090.2							
G156.0	910.7	1002.6	1070.6							
G157.0	919.4	998.4	1055.6							
G158.0	927.9	995.0	1042.6							
G159.0	937.4	992.6	1031.3							
G160.0	945.4	990.8	1022.3							
G161.0	954.0	989.9	1017.7							
G162.0	961.5	990.6	1012.0							
G163.0	969.2	993.4	1009.1							
G164.0	977.4	993.7	1006.3							
G165.0	984.2	995.6	1006.0							
G166.0	991.9	998.5	1005.2							
G167.0	998.2	1001.3	1007.0							
G168.0	1004.5	1005.6	1007.3							
G169.0	1009.9	1010.1	1010.1							
G170.0	1014.5	1013.6	1014.0							
G171.0	1020.2	1016.5	1017.4							
G172.0	1023.6	1021.2	1021.9							
G173.0	1027.8	1025.3	1025.4							
G174.0	1030.3	1028.5	1027.2							
G175.0	1033.3	1030.8	1031.3							
G176.0	1035.7	1033.2	1035.5							
G177.0	1037.4	1034.7	1037.2							
G178.0	1037.4	1036.6	1037.7							
G179.0	1038.3	1038.1	1039.2							
G180.0	1039.6	1039.6	1039.6							

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device:  
Distance: 11.655m [K=1.0000]  
Humidity: 45% R.H  
Inspector:

## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
L 0-180(65) av	0.00
L 0-180(75) av	0.00
L 0-180(85) av	0.00
L 90-270(65) av	0.00
L 90-270(75) av	0.00
L 90-270(85) av	0.00
L 45(65) av	0.00
L 45(75) av	0.00
L 45(85) av	0.00

Standard: GB/T 29293-2012