

Report No.:

Test Time: 2023/11/21 10:35

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog: DOB
 Lamp Description: L150_50805030000S0(8.92W)
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.879 A
 Power Factor: 0.831

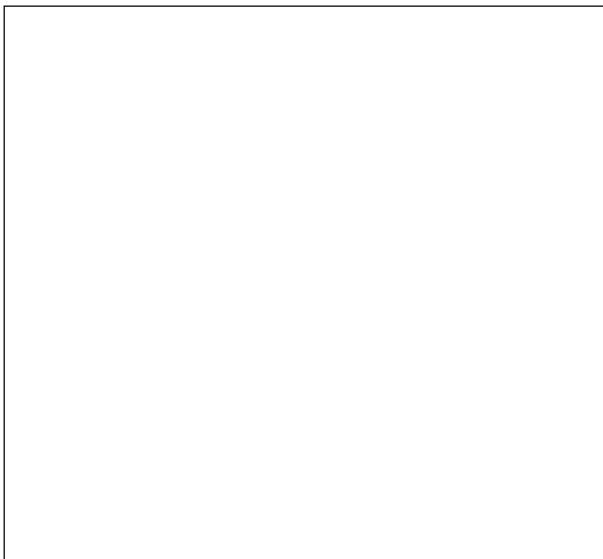
Luminaire Description: 490224 BODACIOUS
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 12.0 V
 Power: 8.75 W

Photometric Results

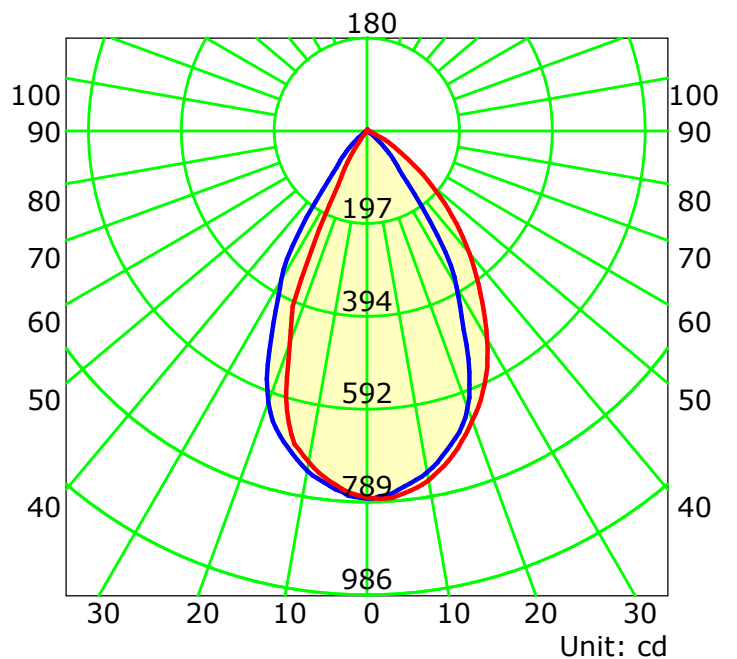
CIE Class: Direct
 Measurement Flux: 734.4 lm
 Downward Ratio: 100%
 Horizontal Diffuse Angle(10%,50%,75%,100%): H86.3,H58.1,H43.1,H1
 Vertical Diffuse Angle(10%,50%,75%,100%): V90.2,V60,V42.5,V2
 Luminaire Efficacy Rating (LER): 83.98
 Max. Intensity: 782.99 cd
 S/MH(C0/C180): 0.90

Total Rated Lamp Lumens: 734.4 lm
 Efficiency: 100%
 Upward Ratio: 0%
 C0r0 Intensity: 781.34 cd
 Pos of Max. Intensity: H90 V2
 S/MH(C90/C270): 0.86

Picture Of Luminaire



Luminous Intensity Distribution Curve



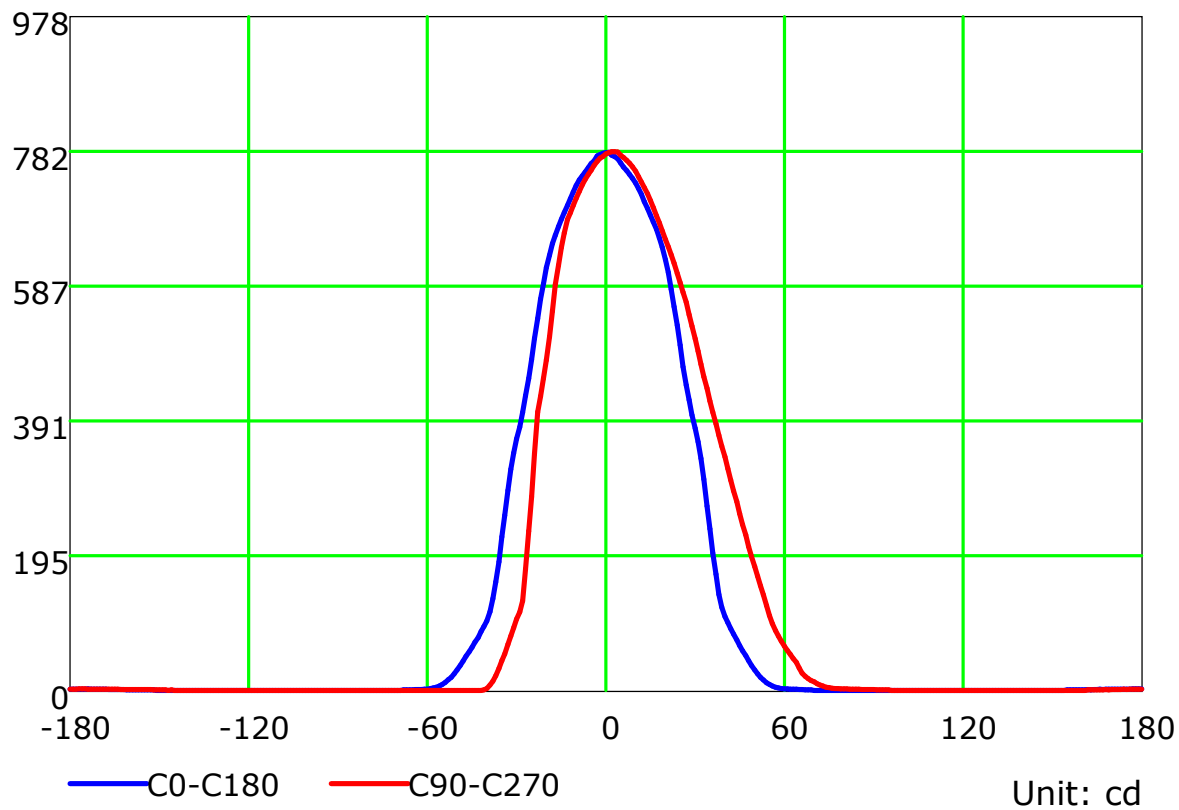
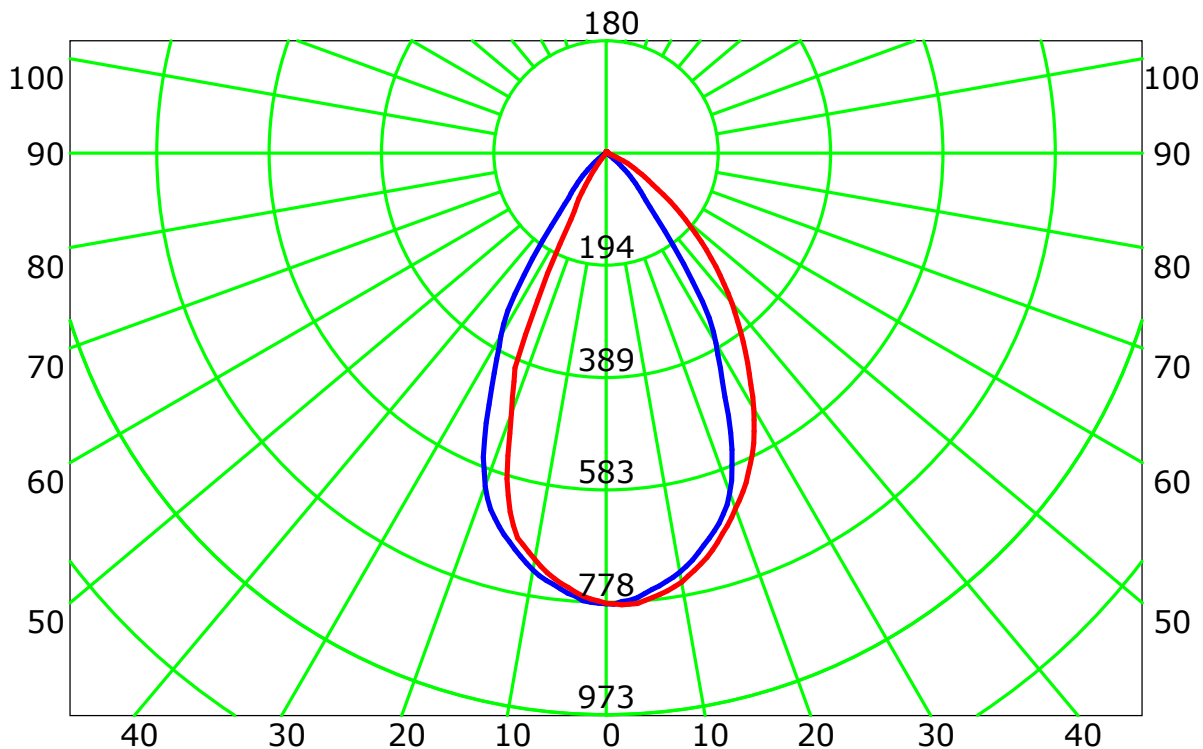
Average Diffuse Angle(50%): 59.0°

— C0-C180 — C90-C270

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

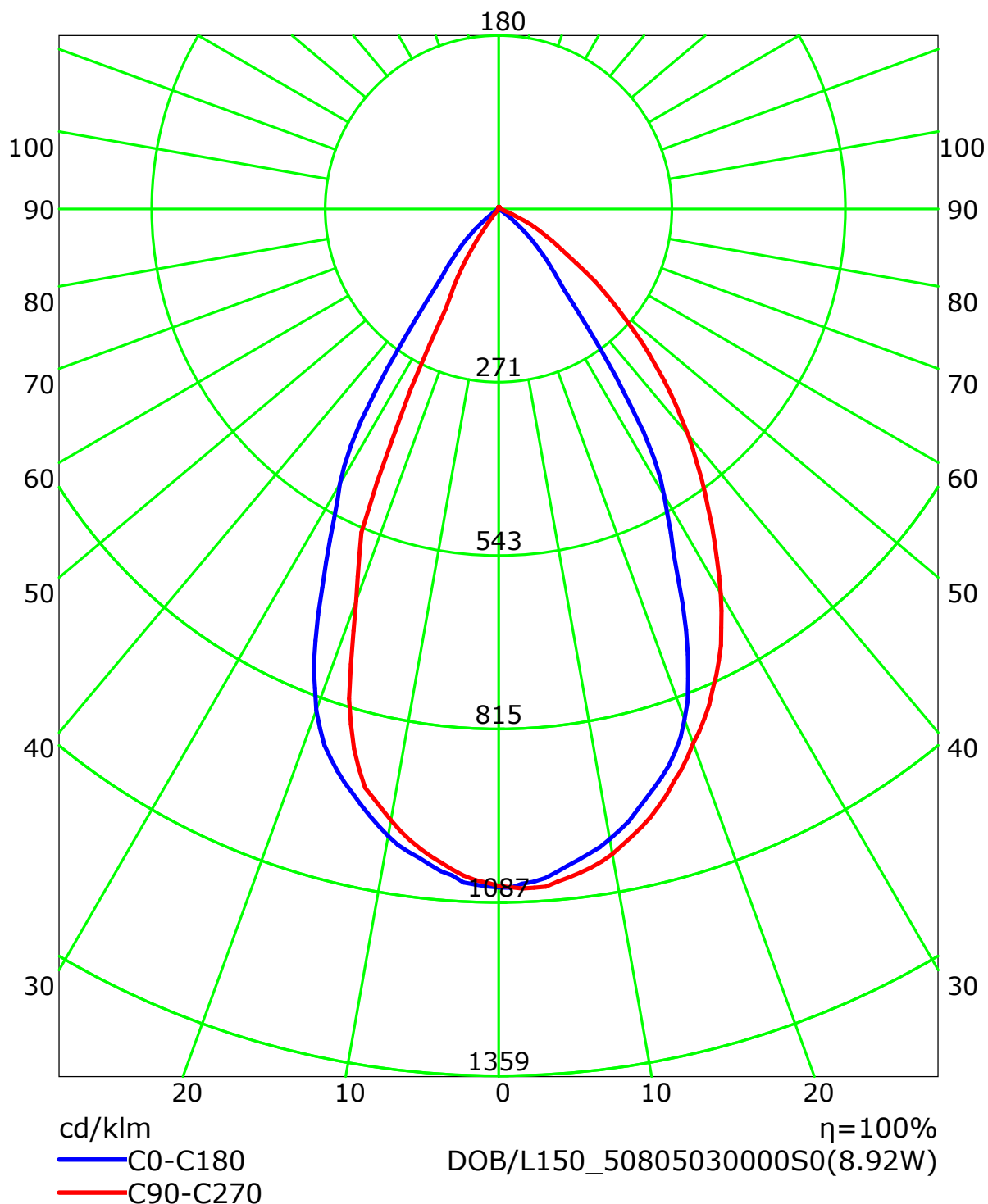
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
 Test Lab:
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 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



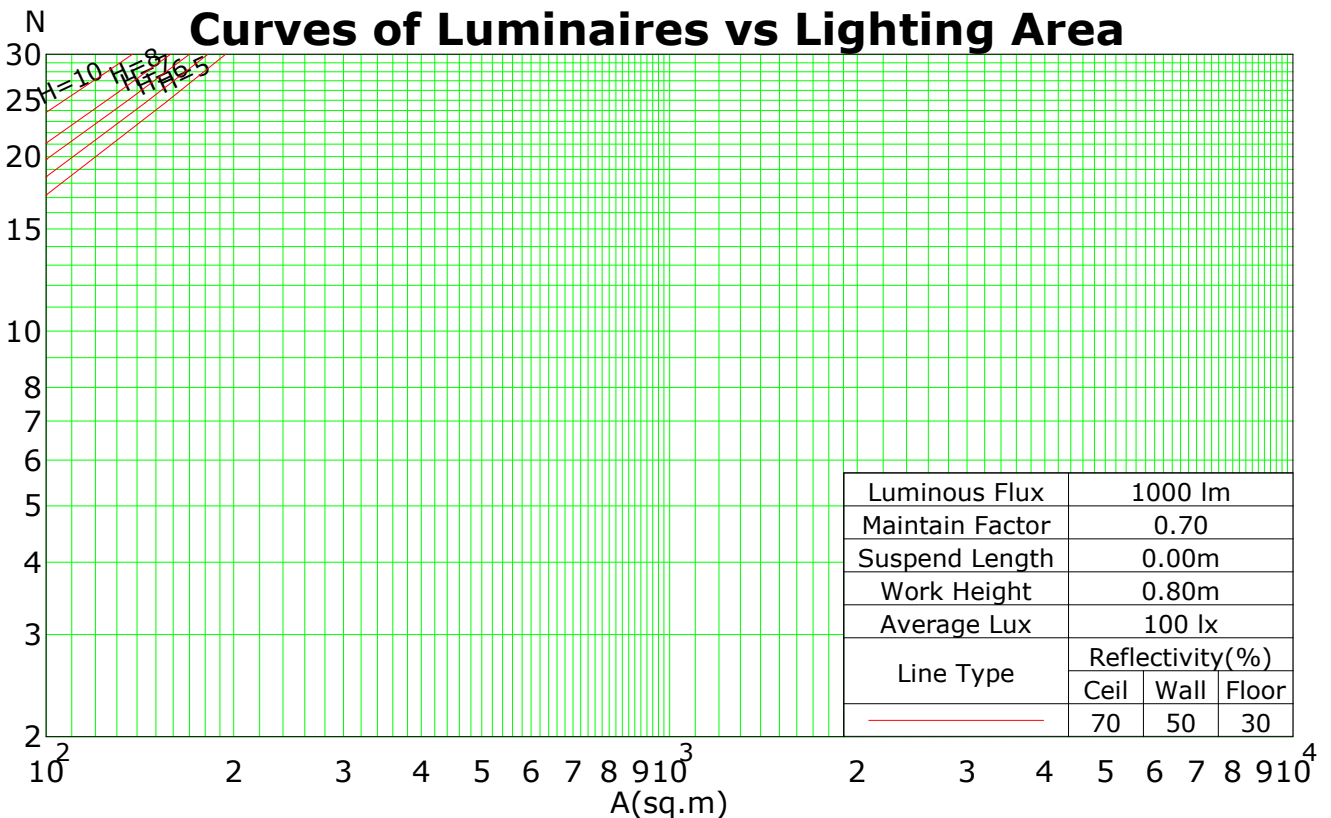
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	1.13	1.10	1.07	1.05	1.11	1.08	1.06	1.03	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93
2	1.07	1.02	0.97	0.94	1.05	1.00	0.96	0.93	0.97	0.93	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.85
3	1.01	0.94	0.89	0.85	0.99	0.93	0.88	0.84	0.90	0.86	0.83	0.88	0.84	0.81	0.85	0.82	0.80	0.78
4	0.96	0.87	0.82	0.77	0.94	0.86	0.81	0.77	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.72
5	0.90	0.81	0.75	0.71	0.89	0.80	0.75	0.70	0.79	0.73	0.70	0.77	0.72	0.69	0.75	0.71	0.68	0.67
6	0.85	0.76	0.70	0.65	0.84	0.75	0.69	0.65	0.74	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.62
7	0.81	0.71	0.65	0.60	0.80	0.70	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.58
8	0.77	0.67	0.60	0.56	0.76	0.66	0.60	0.56	0.65	0.60	0.56	0.64	0.59	0.55	0.63	0.59	0.55	0.54
9	0.73	0.63	0.57	0.52	0.72	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.60	0.55	0.52	0.50
10	0.69	0.59	0.53	0.49	0.68	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.47

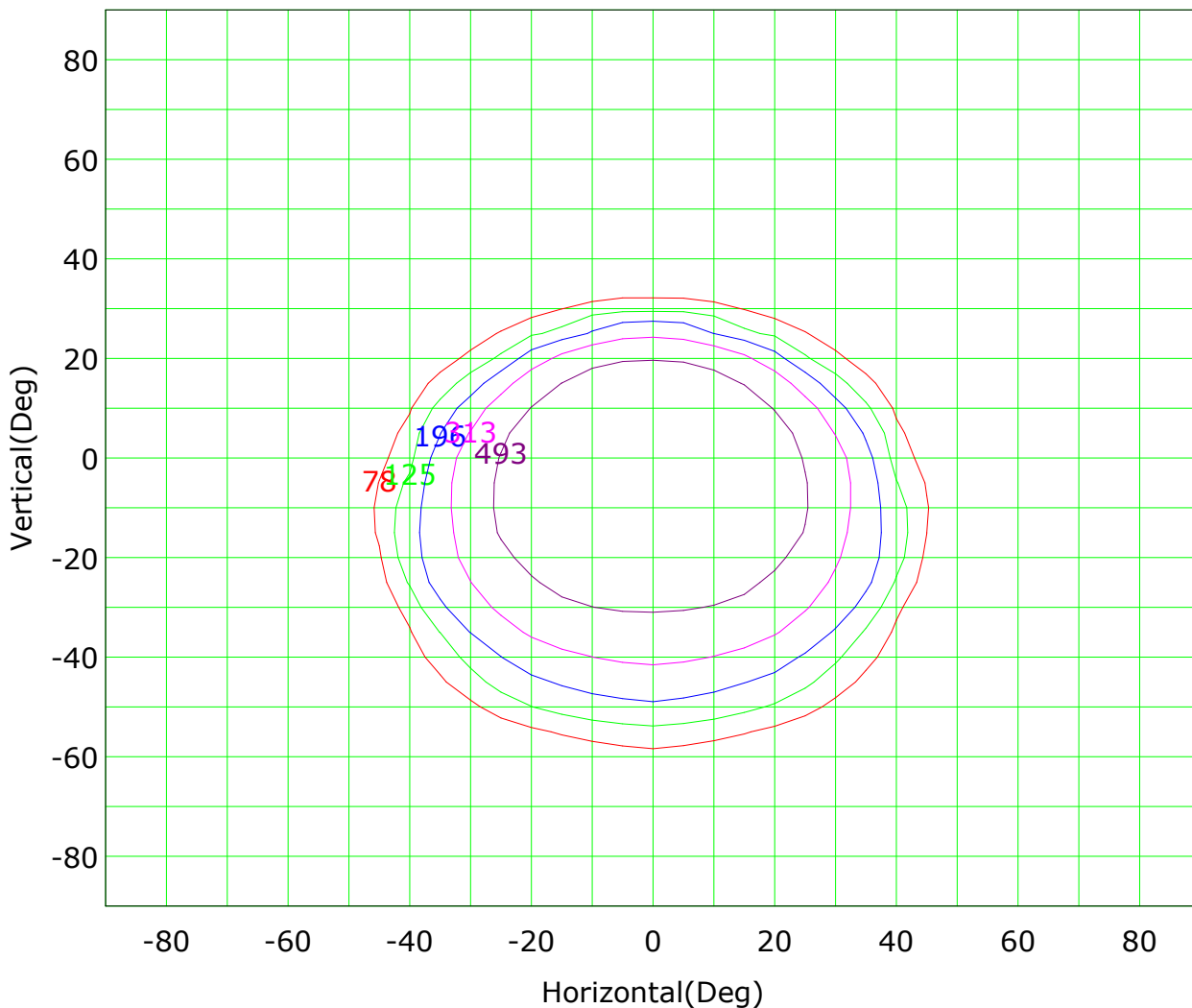
Spacing Criteria (0-180): 0.90
 Spacing Criteria (90-270): 0.86
 Spacing Criteria (Diagonal): 0.84



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Isocandela (rectangle)



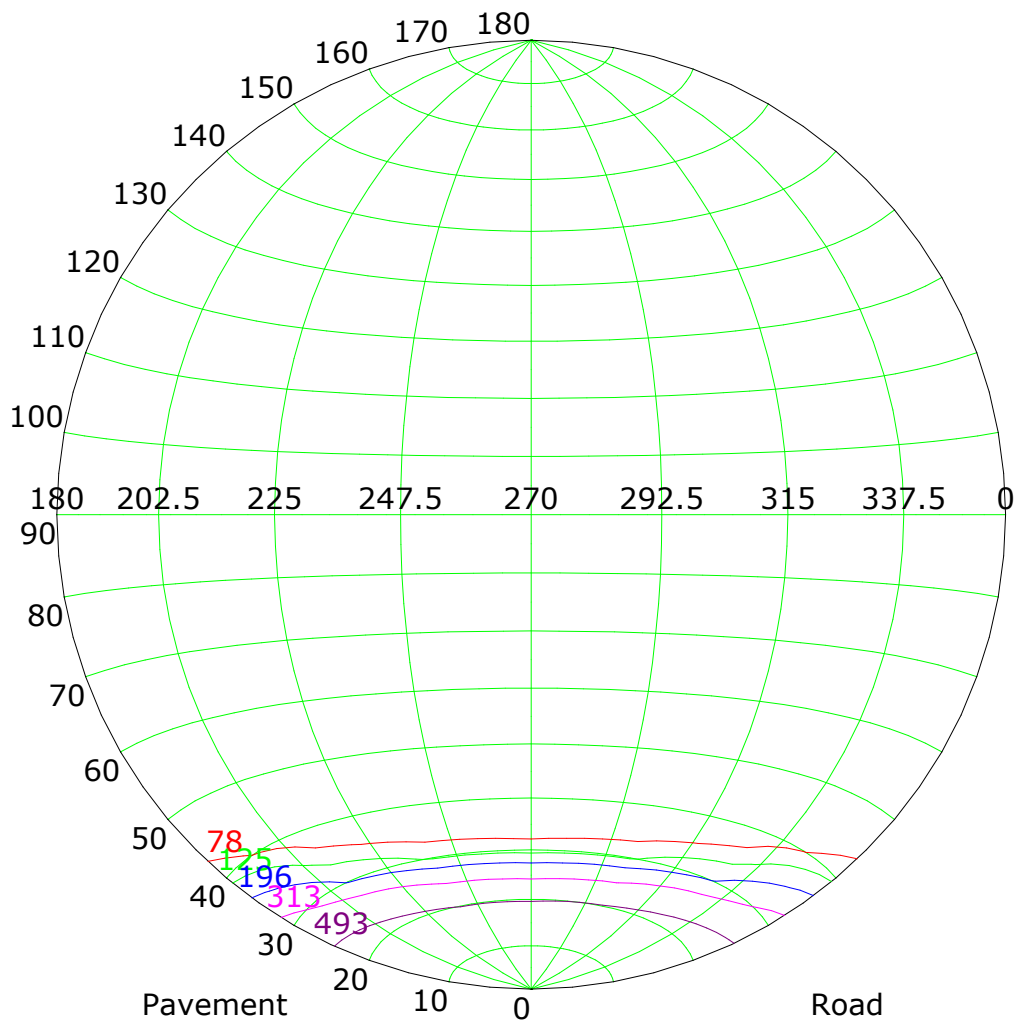
Imax (100%): 783 cd

- | | |
|------------------|------------------|
| — (10%): 78 cd | — (16%): 125 cd |
| — (25%): 196 cd | — (40%): 313 cd |
| — (63%): 493 cd | — (100%): 783 cd |

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Isocandela (sphere)



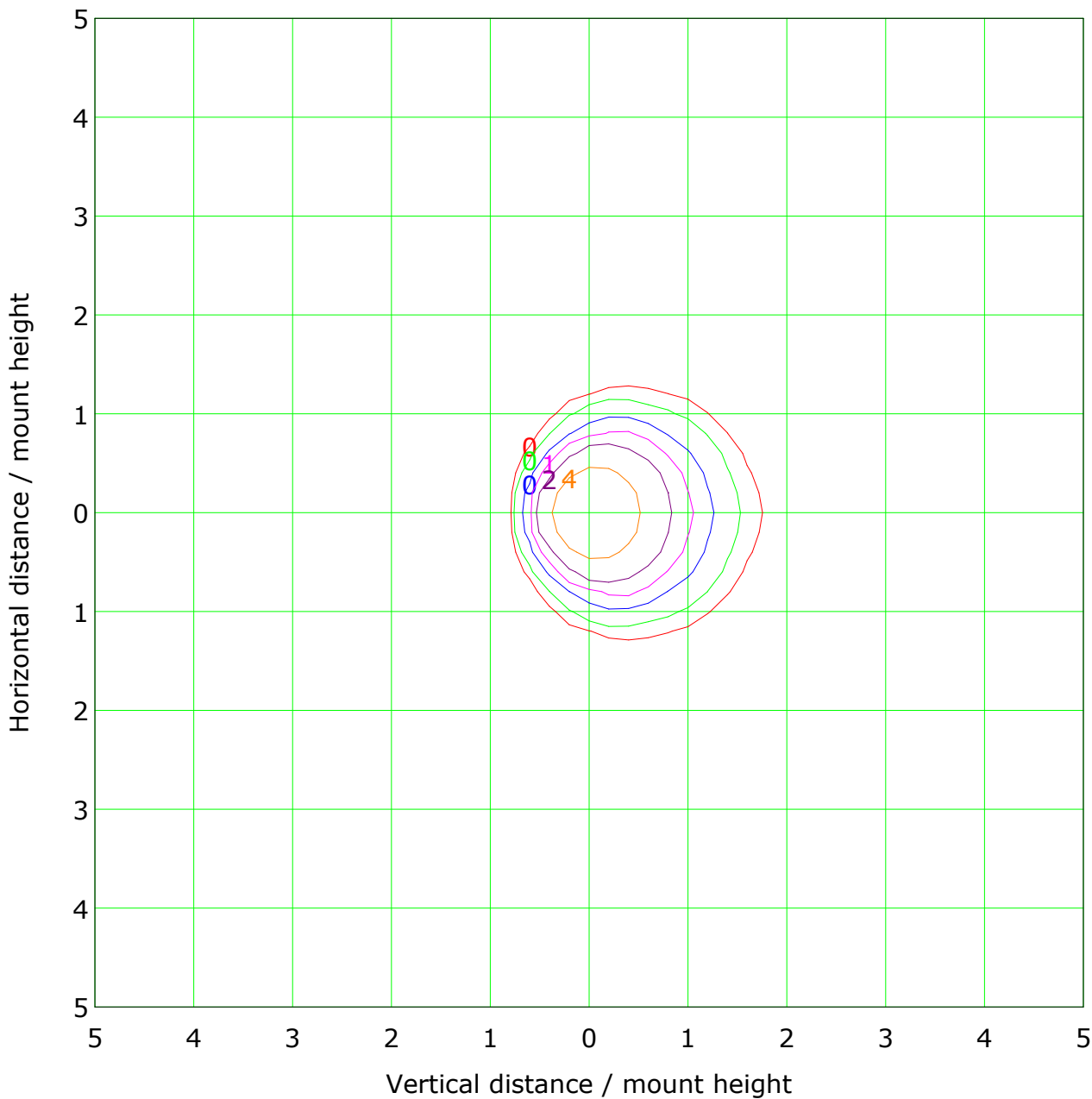
Imax (100%): 783 cd

- | | |
|------------------|------------------|
| — (10%): 78 cd | — (16%): 125 cd |
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 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 7.8 lx

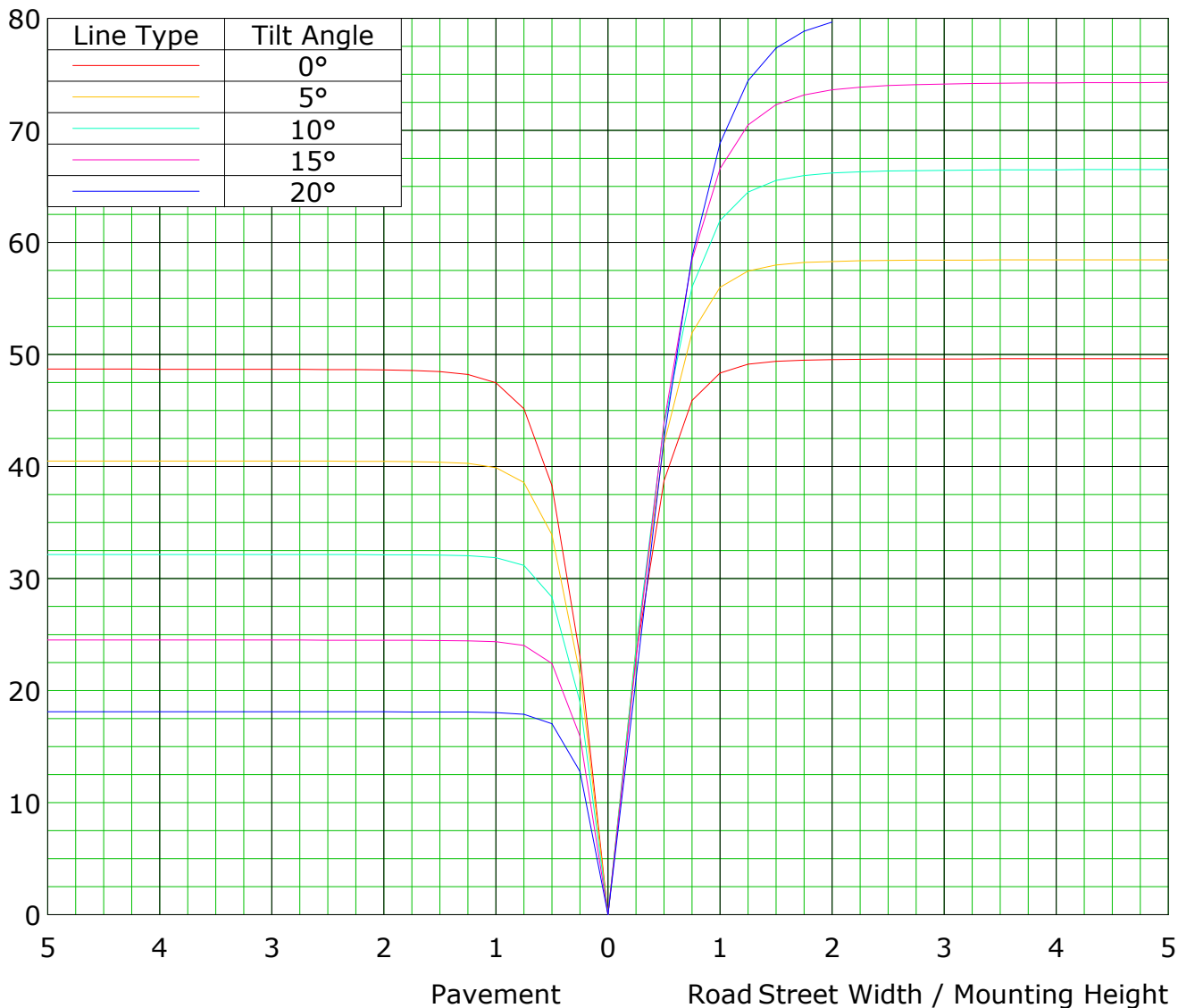
— (1%): 0.1 lx	— (2%): 0.2 lx
— (5%): 0.4 lx	— (10%): 0.8 lx
— (20%): 1.6 lx	— (50%): 3.9 lx
— (100%): 7.8 lx	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Roadway CU Curve

Efficiency(%)



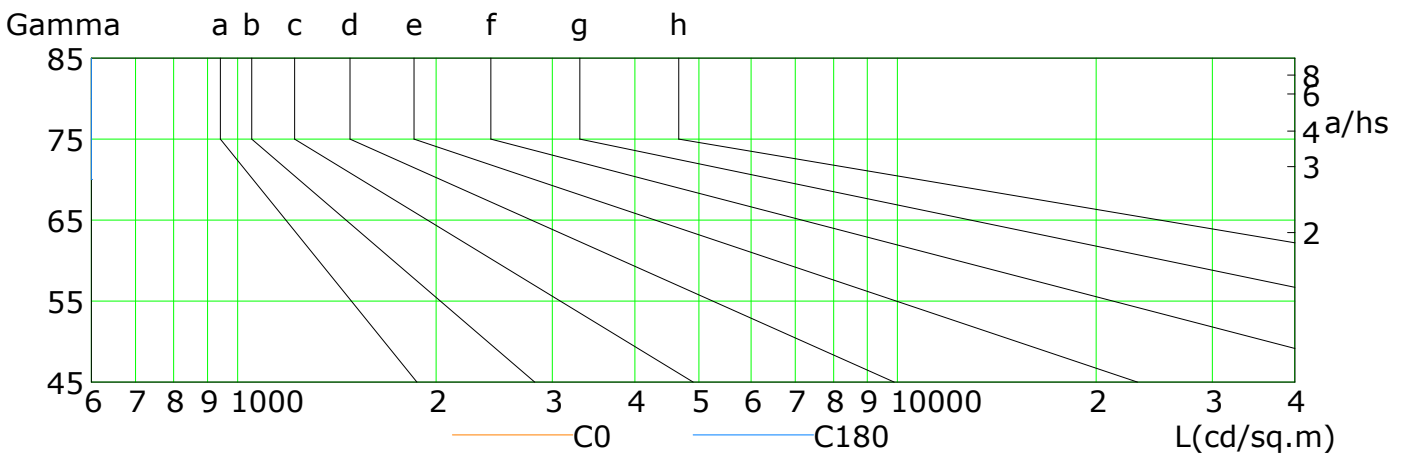
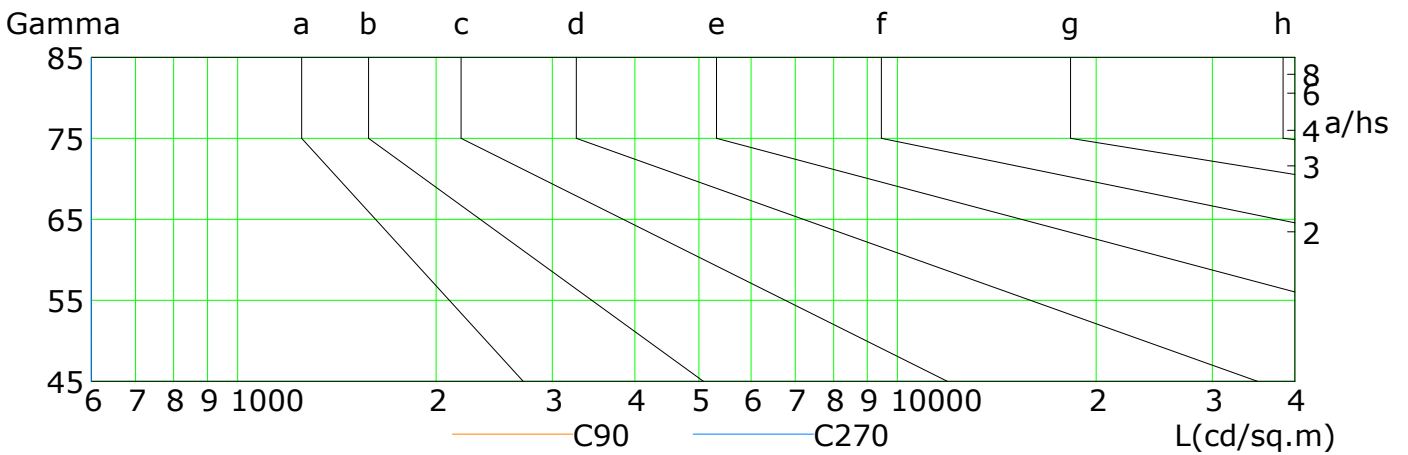
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	66	30	9	3	2	0	0	0	0
C90	257	180	109	65	33	13	4	2	2
C180	63	30	9	2	1	0	0	0	0
C270	0	0	0	0	0	0	0	0	0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

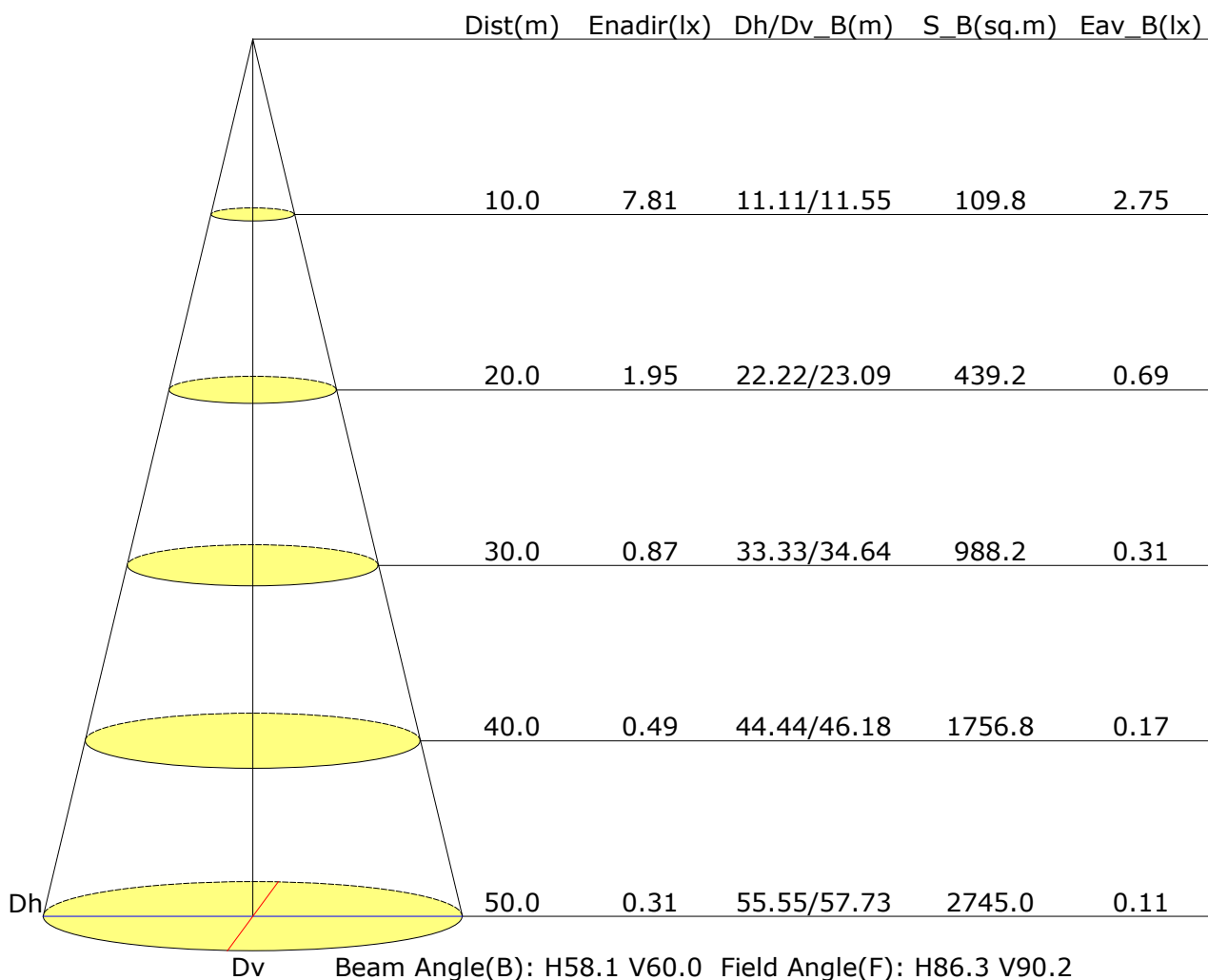
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

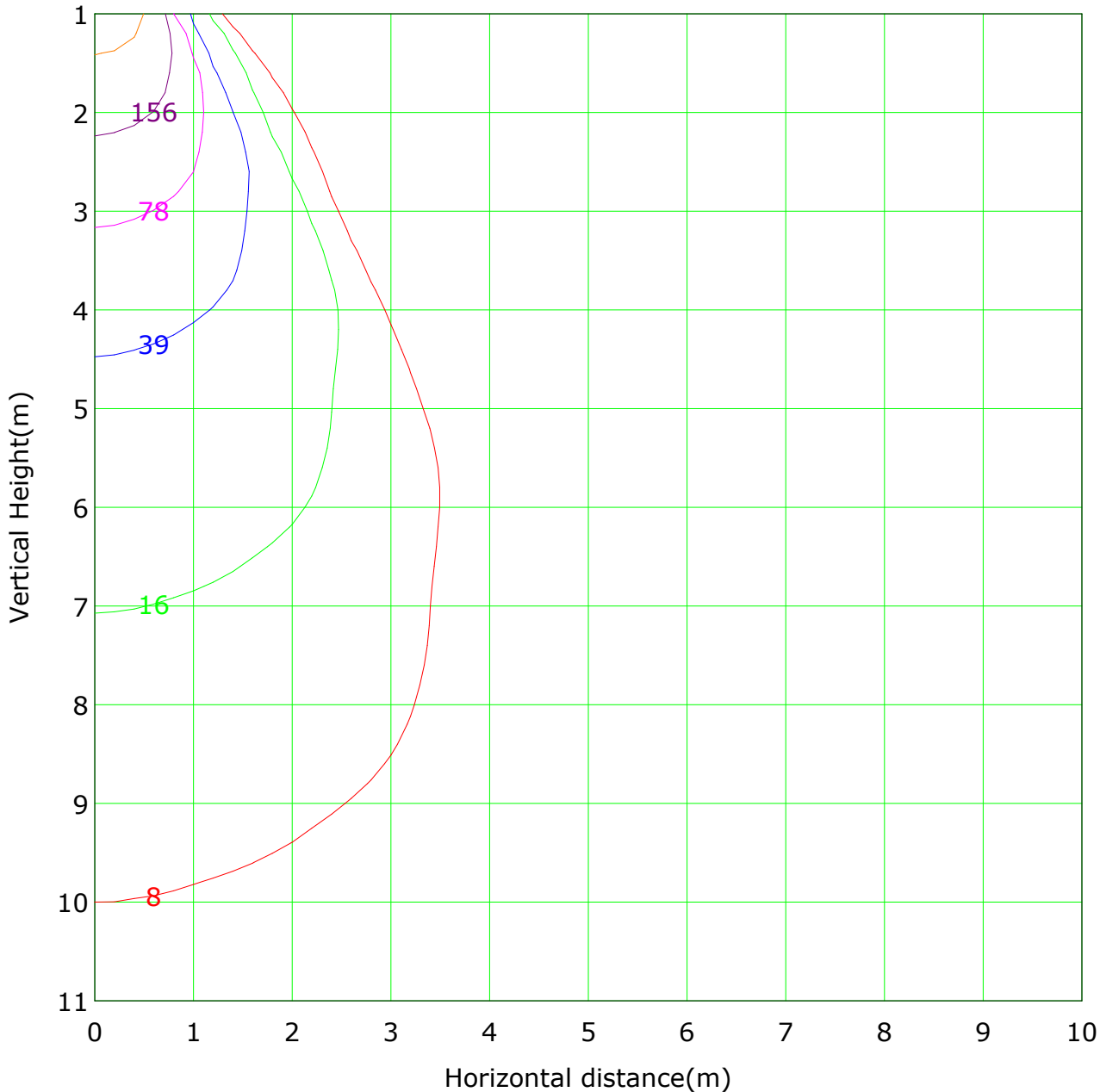
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 781.3 lx

— (1%): 7.8 lx	— (2%): 15.6 lx
— (5%): 39.1 lx	— (10%): 78.1 lx
— (20%): 156.3 lx	— (50%): 390.7 lx
— (100%): 781.3 lx	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

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)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	1.6	0.0
	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.2	1.7	1.8	0.9	0.5	0.2	0.1	0.0	0.0	8.7	3.2
	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	3.1	4.7	6.1	3.1	1.7	0.6	0.2	0.1	0.0	31.3	27.8
	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.8	7.1	12.0	13.8	5.2	1.7	0.6	0.4	0.1	0.0	72.1	69.4
	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.9	10.8	19.1	20.0	10.5	3.8	1.5	0.7	0.1	0.0	112.9	110.4
	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	9.4	17.6	22.4	22.9	17.6	7.4	2.5	1.0	0.2	0.0	136.2	133.7
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.6	21.1	22.4	23.0	17.6	7.5	3.3	1.0	0.2	0.1	213.6	134.3
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	15.6	21.2	19.3	20.2	15.6	6.1	2.6	0.7	0.1	0.1	213.6	112.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	18.7	18.7	12.4	14.3	10.9	4.0	1.5	0.4	0.1	0.1	81.4	72.0
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	20.2	13.7	4.9	6.5	5.6	1.8	0.7	0.2	0.1	0.0	114.5	29.7
	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	18.7	6.6	1.2	1.8	1.5	0.5	0.2	0.1	0.0	0.0	4.5	3.8
	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	12.8	2.0	0.2	1.8	1.5	0.1	0.1	0.0	0.0	0.0	9.1	0.0
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	6.3	0.3	0.2	0.3	0.3	0.1	0.1	0.0	0.0	0.0	1.6	0.0
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
																					733	696

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

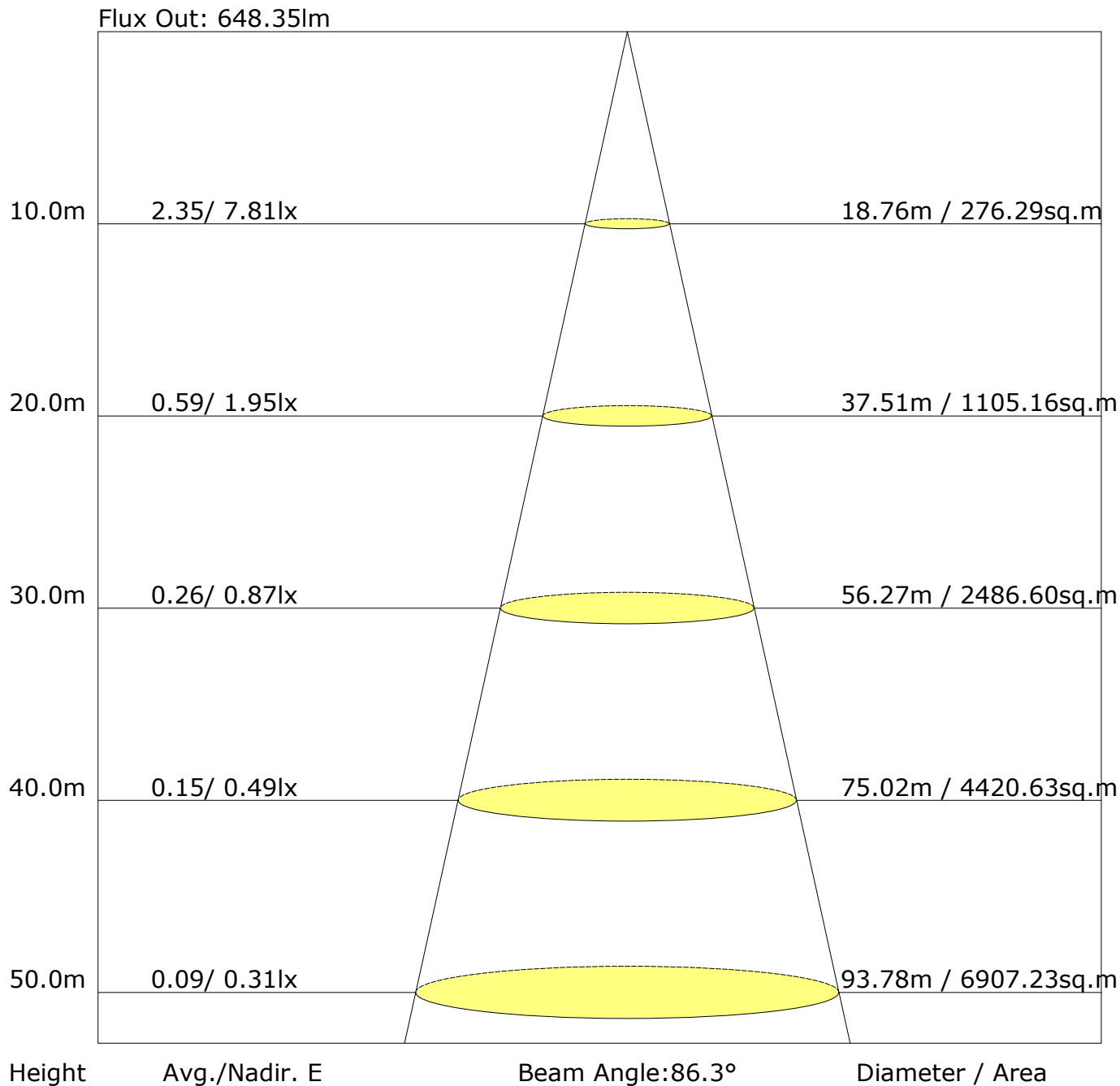
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

UGR Table

Room dimensions	Viewed crosswise					Viewed endwise				
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
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 734lm ($8\log(F/F_0) = -1.1$).

C Plane (°):0.0-360.0: 30.0
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

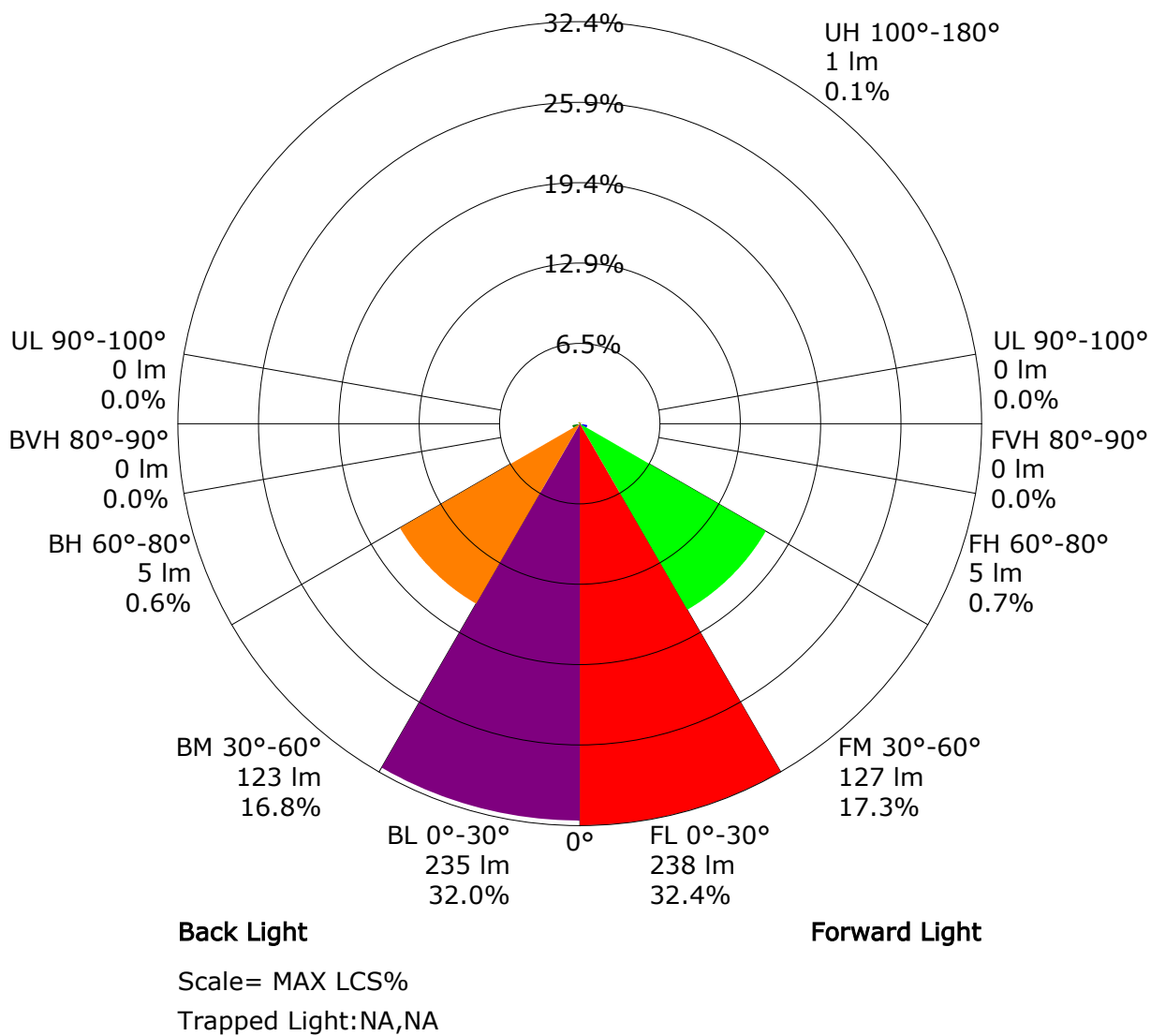
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	370	50.4
	FL (0°-30°)	238	32.4
	FM (30°-60°)	127	17.3
	FH (60°-80°)	5	0.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	363	49.4
	BL (0°-30°)	235	32.0
	BM (30°-60°)	123	16.8
	BH (60°-80°)	5	0.6
	BVH (80°-90°)	0	0.0
	UP LIGHT	1	0.2
	UL (90°-100°)	0	0.0
	UH (100°-180°)	1	0.1
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

LCS Graph



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.79	0.87	0.92	0.96	1.01	1.04	1.06	1.09	1.10	
	0.30		0.73	0.82	0.87	0.91	0.97	1.00	1.03	1.06	1.08	
	0.20		0.69	0.78	0.84	0.88	0.94	0.97	1.00	1.04	1.06	
0.50	0.50	0.20	0.77	0.85	0.90	0.93	0.98	1.01	1.02	1.05	1.06	
	0.30		0.73	0.81	0.86	0.90	0.95	0.98	1.00	1.03	1.04	
	0.20		0.69	0.77	0.83	0.86	0.92	0.95	0.98	1.01	1.03	
0.30	0.50	0.20	0.76	0.83	0.88	0.91	0.95	0.97	0.99	1.01	1.02	
	0.30		0.72	0.80	0.84	0.88	0.92	0.95	0.97	1.00	1.01	
	0.20		0.69	0.76	0.82	0.85	0.90	0.93	0.95	0.98	1.00	
0.00	0.00	0.00	0.67	0.74	0.79	0.83	0.87	0.90	0.91	0.94	0.95	
<p>Rating:9W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75									
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	0.68	0.54	0.45	0.39	0.30	0.25	0.21	0.16	0.13	
	0.30		0.57	0.46	0.39	0.34	0.27	0.23	0.20	0.15	0.12	
	0.20		0.49	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.12	
0.50	0.50	0.20	0.65	0.52	0.43	0.36	0.28	0.27	0.20	0.15	0.12	
	0.30		0.55	0.45	0.38	0.33	0.26	0.21	0.18	0.14	0.12	
	0.20		0.48	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
0.30	0.50	0.20	0.63	0.49	0.40	0.34	0.26	0.21	0.18	0.14	0.11	
	0.30		0.54	0.43	0.36	0.31	0.24	0.20	0.17	0.13	0.11	
	0.20		0.47	0.39	0.33	0.29	0.23	0.19	0.16	0.13	0.10	
0.00	0.00	0.00	0.34	0.27	0.22	0.18	0.14	0.11	0.10	0.07	0.06	
<p>Rating:9W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
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	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.09	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.18
0.50	0.50	0.20	0.13	0.15	0.16	0.17	0.18	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.13	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p>Rating:9W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	780.0	0.7	0.7	0.10	0.10
1.0-2.0	778.8	2.2	3.0	0.30	0.41
2.0-3.0	776.4	3.7	6.7	0.51	0.91
3.0-4.0	772.9	5.2	11.9	0.70	1.62
4.0-5.0	768.0	6.6	18.5	0.90	2.52
5.0-6.0	762.5	8.0	26.5	1.09	3.61
6.0-7.0	757.2	9.4	35.9	1.28	4.89
7.0-8.0	751.6	10.8	46.6	1.46	6.35
8.0-9.0	745.5	12.1	58.7	1.65	8.00
9.0-10.0	738.7	13.4	72.1	1.82	9.82
10.0-11.0	730.9	14.6	86.7	1.99	11.81
11.0-12.0	722.0	15.8	102.5	2.15	13.96
12.0-13.0	712.5	16.9	119.4	2.30	16.26
13.0-14.0	701.8	18.0	137.4	2.45	18.70
14.0-15.0	689.1	18.9	156.3	2.58	21.28
15.0-16.0	675.1	19.8	176.1	2.69	23.97
16.0-17.0	659.0	20.5	196.6	2.79	26.77
17.0-18.0	640.6	21.1	217.7	2.88	29.65
18.0-19.0	620.6	21.6	239.3	2.94	32.59
19.0-20.0	599.7	22.0	261.3	2.99	35.58
20.0-21.0	578.5	22.2	283.5	3.03	38.60
21.0-22.0	557.4	22.4	305.9	3.05	41.65
22.0-23.0	537.5	22.6	328.5	3.07	44.72
23.0-24.0	514.1	22.5	350.9	3.06	47.78
24.0-25.0	485.1	22.1	373.0	3.00	50.79
25.0-26.0	455.6	21.5	394.5	2.93	53.72
26.0-27.0	424.5	20.8	415.3	2.83	56.54
27.0-28.0	393.1	19.9	435.2	2.71	59.25
28.0-29.0	365.2	19.1	454.3	2.60	61.86
29.0-30.0	341.4	18.4	472.7	2.51	64.37
30.0-31.0	320.2	17.8	490.5	2.43	66.79
31.0-32.0	299.9	17.2	507.7	2.34	69.13
32.0-33.0	280.0	16.5	524.2	2.25	71.38
33.0-34.0	260.0	15.7	540.0	2.14	73.52
34.0-35.0	240.9	15.0	554.9	2.04	75.56
35.0-36.0	222.4	14.2	569.1	1.93	77.49

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	203.9	13.3	582.4	1.81	79.30
37.0-38.0	187.1	12.5	594.9	1.70	81.00
38.0-39.0	172.1	11.8	606.6	1.60	82.60
39.0-40.0	158.4	11.1	617.7	1.50	84.10
40.0-41.0	146.2	10.4	628.1	1.42	85.52
41.0-42.0	134.5	9.8	637.9	1.33	86.85
42.0-43.0	122.9	9.1	647.0	1.24	88.09
43.0-44.0	112.0	8.5	655.4	1.15	89.24
44.0-45.0	101.7	7.8	663.2	1.06	90.31
45.0-46.0	91.8	7.2	670.4	0.98	91.28
46.0-47.0	82.5	6.6	677.0	0.89	92.18
47.0-48.0	74.1	6.0	683.0	0.82	92.99
48.0-49.0	66.4	5.5	688.4	0.74	93.74
49.0-50.0	59.8	5.0	693.4	0.68	94.41
50.0-51.0	54.3	4.6	698.0	0.63	95.04
51.0-52.0	49.1	4.2	702.2	0.57	95.61
52.0-53.0	44.3	3.9	706.1	0.52	96.14
53.0-54.0	39.4	3.5	709.5	0.47	96.61
54.0-55.0	34.6	3.1	712.6	0.42	97.03
55.0-56.0	30.1	2.7	715.4	0.37	97.40
56.0-57.0	26.1	2.4	717.7	0.32	97.73
57.0-58.0	22.6	2.1	719.8	0.28	98.01
58.0-59.0	19.6	1.8	721.7	0.25	98.26
59.0-60.0	16.9	1.6	723.3	0.22	98.48
60.0-61.0	14.6	1.4	724.7	0.19	98.67
61.0-62.0	12.7	1.2	725.9	0.17	98.84
62.0-63.0	11.2	1.1	727.0	0.15	98.98
63.0-64.0	9.7	1.0	727.9	0.13	99.11
64.0-65.0	8.2	0.8	728.7	0.11	99.23
65.0-66.0	6.7	0.7	729.4	0.09	99.32
66.0-67.0	5.6	0.6	730.0	0.08	99.39
67.0-68.0	4.7	0.5	730.4	0.06	99.46
68.0-69.0	3.9	0.4	730.8	0.05	99.51
69.0-70.0	3.3	0.3	731.2	0.05	99.56
70.0-71.0	2.8	0.3	731.5	0.04	99.60
71.0-72.0	2.3	0.2	731.7	0.03	99.63

C Plane (°):0.0-360.0: 30.0
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1.9	0.2	731.9	0.03	99.66
73.0-74.0	1.6	0.2	732.1	0.02	99.68
74.0-75.0	1.4	0.1	732.2	0.02	99.70
75.0-76.0	1.2	0.1	732.4	0.02	99.72
76.0-77.0	1.0	0.1	732.5	0.01	99.73
77.0-78.0	0.9	0.1	732.6	0.01	99.75
78.0-79.0	0.8	0.1	732.6	0.01	99.76
79.0-80.0	0.8	0.1	732.7	0.01	99.77
80.0-81.0	0.7	0.1	732.8	0.01	99.78
81.0-82.0	0.6	0.1	732.9	0.01	99.79
82.0-83.0	0.5	0.1	732.9	0.01	99.80
83.0-84.0	0.5	0.1	733.0	0.01	99.80
84.0-85.0	0.5	0.0	733.0	0.01	99.81
85.0-86.0	0.4	0.0	733.1	0.01	99.82
86.0-87.0	0.4	0.0	733.1	0.01	99.82
87.0-88.0	0.4	0.0	733.2	0.01	99.83
88.0-89.0	0.3	0.0	733.2	0.01	99.83
89.0-90.0	0.3	0.0	733.2	0.00	99.84
90.0-91.0	0.3	0.0	733.3	0.00	99.84
91.0-92.0	0.2	0.0	733.3	0.00	99.85
92.0-93.0	0.2	0.0	733.3	0.00	99.85
93.0-94.0	0.1	0.0	733.3	0.00	99.85
94.0-95.0	0.1	0.0	733.3	0.00	99.85
95.0-96.0	0.0	0.0	733.3	0.00	99.85
96.0-97.0	0.0	0.0	733.3	0.00	99.85
97.0-98.0	0.0	0.0	733.3	0.00	99.85
98.0-99.0	0.0	0.0	733.3	0.00	99.85
99.0-100.0	0.0	0.0	733.3	0.00	99.85
100.0-101.0	0.0	0.0	733.3	0.00	99.85
101.0-102.0	0.0	0.0	733.3	0.00	99.85
102.0-103.0	0.0	0.0	733.3	0.00	99.85
103.0-104.0	0.0	0.0	733.3	0.00	99.85
104.0-105.0	0.0	0.0	733.3	0.00	99.85
105.0-106.0	0.0	0.0	733.3	0.00	99.85
106.0-107.0	0.0	0.0	733.3	0.00	99.85
107.0-108.0	0.0	0.0	733.3	0.00	99.85

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.0	0.0	733.3	0.00	99.85
109.0-110.0	0.0	0.0	733.3	0.00	99.85
110.0-111.0	0.0	0.0	733.3	0.00	99.85
111.0-112.0	0.0	0.0	733.3	0.00	99.85
112.0-113.0	0.0	0.0	733.3	0.00	99.85
113.0-114.0	0.0	0.0	733.3	0.00	99.85
114.0-115.0	0.0	0.0	733.3	0.00	99.85
115.0-116.0	0.0	0.0	733.3	0.00	99.85
116.0-117.0	0.0	0.0	733.3	0.00	99.85
117.0-118.0	0.0	0.0	733.3	0.00	99.85
118.0-119.0	0.0	0.0	733.3	0.00	99.85
119.0-120.0	0.0	0.0	733.3	0.00	99.85
120.0-121.0	0.0	0.0	733.3	0.00	99.85
121.0-122.0	0.0	0.0	733.3	0.00	99.85
122.0-123.0	0.0	0.0	733.3	0.00	99.85
123.0-124.0	0.0	0.0	733.3	0.00	99.85
124.0-125.0	0.0	0.0	733.3	0.00	99.85
125.0-126.0	0.0	0.0	733.3	0.00	99.85
126.0-127.0	0.0	0.0	733.3	0.00	99.85
127.0-128.0	0.0	0.0	733.3	0.00	99.85
128.0-129.0	0.0	0.0	733.3	0.00	99.85
129.0-130.0	0.0	0.0	733.3	0.00	99.85
130.0-131.0	0.0	0.0	733.3	0.00	99.85
131.0-132.0	0.0	0.0	733.3	0.00	99.85
132.0-133.0	0.0	0.0	733.3	0.00	99.85
133.0-134.0	0.0	0.0	733.3	0.00	99.85
134.0-135.0	0.0	0.0	733.3	0.00	99.85
135.0-136.0	0.0	0.0	733.3	0.00	99.85
136.0-137.0	0.0	0.0	733.3	0.00	99.85
137.0-138.0	0.0	0.0	733.3	0.00	99.85
138.0-139.0	0.0	0.0	733.3	0.00	99.85
139.0-140.0	0.0	0.0	733.3	0.00	99.85
140.0-141.0	0.0	0.0	733.3	0.00	99.85
141.0-142.0	0.0	0.0	733.3	0.00	99.85
142.0-143.0	0.0	0.0	733.3	0.00	99.85
143.0-144.0	0.0	0.0	733.3	0.00	99.85

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.0	0.0	733.4	0.00	99.85
145.0-146.0	0.1	0.0	733.4	0.00	99.85
146.0-147.0	0.2	0.0	733.4	0.00	99.86
147.0-148.0	0.3	0.0	733.4	0.00	99.86
148.0-149.0	0.4	0.0	733.4	0.00	99.86
149.0-150.0	0.5	0.0	733.4	0.00	99.87
150.0-151.0	0.5	0.0	733.5	0.00	99.87
151.0-152.0	0.6	0.0	733.5	0.00	99.87
152.0-153.0	0.7	0.0	733.5	0.00	99.88
153.0-154.0	0.7	0.0	733.6	0.00	99.88
154.0-155.0	0.7	0.0	733.6	0.00	99.89
155.0-156.0	0.8	0.0	733.6	0.00	99.89
156.0-157.0	0.8	0.0	733.7	0.00	99.90
157.0-158.0	0.9	0.0	733.7	0.01	99.90
158.0-159.0	1.0	0.0	733.8	0.01	99.91
159.0-160.0	1.1	0.0	733.8	0.01	99.91
160.0-161.0	1.2	0.0	733.8	0.01	99.92
161.0-162.0	1.4	0.0	733.9	0.01	99.93
162.0-163.0	1.5	0.0	733.9	0.01	99.93
163.0-164.0	1.5	0.0	734.0	0.01	99.94
164.0-165.0	1.6	0.0	734.0	0.01	99.95
165.0-166.0	1.6	0.0	734.1	0.01	99.95
166.0-167.0	1.7	0.0	734.1	0.01	99.96
167.0-168.0	1.7	0.0	734.2	0.01	99.96
168.0-169.0	1.8	0.0	734.2	0.01	99.97
169.0-170.0	1.8	0.0	734.2	0.00	99.97
170.0-171.0	1.8	0.0	734.3	0.00	99.98
171.0-172.0	1.9	0.0	734.3	0.00	99.98
172.0-173.0	2.0	0.0	734.3	0.00	99.99
173.0-174.0	2.1	0.0	734.4	0.00	99.99
174.0-175.0	2.1	0.0	734.4	0.00	99.99
175.0-176.0	2.1	0.0	734.4	0.00	100.00
176.0-177.0	2.2	0.0	734.4	0.00	100.00
177.0-178.0	2.2	0.0	734.4	0.00	100.00
178.0-179.0	2.2	0.0	734.4	0.00	100.00
179.0-180.0	2.2	0.0	734.4	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 663.24 lm

%lum = 90.3%

%lamp = 90.3%

cone flux(120°): 723.26 lm

%lum = 98.5%

%lamp = 98.5%

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

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	781.3	780.4	780.3	779.7	779.9	779.1	781.3	780.4	780.3	779.7
G1.0	782.0	781.1	781.7	781.3	781.4	779.3	780.2	779.0	779.3	776.0
G2.0	777.5	780.4	782.1	783.0	781.0	779.3	778.5	776.9	774.5	773.5
G3.0	775.8	777.5	779.9	782.9	780.0	778.7	776.6	770.3	769.5	769.0
G4.0	772.5	773.8	778.7	782.3	777.7	773.9	769.4	764.9	764.5	762.7
G5.0	766.4	768.9	775.5	777.8	774.5	767.8	765.6	759.1	757.2	755.9
G6.0	760.4	764.9	771.4	774.3	769.9	762.8	759.3	752.7	748.8	749.5
G7.0	755.4	763.1	767.5	770.3	765.9	758.7	752.9	746.9	742.9	742.3
G8.0	749.7	757.2	764.0	766.1	760.3	754.0	747.6	739.6	735.4	734.3
G9.0	744.3	753.8	759.0	760.7	755.8	748.7	741.6	731.6	725.6	725.0
G10.0	737.2	748.7	753.1	754.6	748.2	742.6	733.3	724.2	716.1	714.9
G11.0	729.3	741.0	746.3	746.4	743.6	736.0	724.1	715.1	706.4	704.4
G12.0	721.1	732.2	736.8	738.8	736.4	728.0	714.5	704.6	697.0	693.8
G13.0	710.4	721.6	729.8	730.7	728.8	718.2	704.7	695.5	684.5	684.2
G14.0	700.6	713.9	721.2	722.1	718.6	709.7	694.3	682.4	665.8	664.9
G15.0	690.9	704.5	711.8	712.1	708.3	699.7	684.5	667.7	643.0	643.9
G16.0	680.8	693.5	701.2	702.0	698.8	692.0	673.8	652.3	620.4	617.5
G17.0	670.4	682.1	690.8	689.8	686.1	679.9	661.6	627.7	591.8	589.9
G18.0	657.7	671.9	679.4	679.5	676.3	669.5	649.4	604.5	554.4	551.4
G19.0	644.0	661.3	668.4	667.9	664.7	657.3	632.4	575.1	520.7	514.0
G20.0	626.0	651.1	657.4	655.2	653.0	645.4	614.4	542.4	489.2	480.3
G21.0	607.7	639.0	642.0	644.8	641.6	631.9	590.9	510.4	462.5	453.4
G22.0	582.8	625.2	630.8	632.8	628.5	619.3	568.7	477.2	435.7	427.5
G23.0	557.8	614.5	620.3	620.8	617.3	604.6	540.3	453.6	413.4	404.7
G24.0	530.6	603.5	608.0	606.0	603.3	591.7	511.8	430.3	359.0	344.2
G25.0	501.7	584.6	594.3	592.8	589.5	572.9	481.1	408.3	304.4	281.6
G26.0	470.3	568.7	580.4	578.6	574.4	555.5	453.6	385.5	241.8	231.7
G27.0	443.9	550.0	567.3	564.0	559.2	535.3	428.3	334.2	188.1	176.3
G28.0	422.4	530.3	553.8	546.3	545.2	513.7	404.1	288.6	147.9	130.5
G29.0	400.2	508.6	536.1	529.3	528.2	488.4	383.1	234.8	127.7	114.3
G30.0	380.8	483.2	520.7	511.3	512.8	462.4	365.8	192.1	117.2	104.1
G31.0	361.5	460.9	504.9	493.2	496.0	436.2	345.1	156.1	104.7	91.6
G32.0	337.4	436.8	486.3	473.9	479.5	411.2	321.4	131.9	92.6	79.3
G33.0	307.1	407.9	468.1	456.1	463.3	384.1	291.0	116.2	80.0	67.2
G34.0	268.3	385.8	449.7	439.0	444.0	359.3	254.5	106.2	65.5	53.2
G35.0	234.9	363.0	431.4	420.6	426.7	337.7	223.3	96.4	53.2	43.5
G36.0	199.8	341.9	411.1	404.4	407.9	317.2	187.0	85.2	39.8	32.2

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	169.1	320.3	390.8	387.7	388.0	297.0	157.9	74.4	27.9	21.5
G38.0	139.9	302.4	370.6	371.0	366.0	280.7	133.7	65.7	20.0	13.6
G39.0	120.9	285.2	350.1	354.9	344.1	264.9	114.8	55.4	12.5	8.4
G40.0	107.7	268.5	328.4	339.6	322.3	248.4	101.3	45.6	6.3	3.2
G41.0	98.8	249.8	304.8	322.3	301.0	236.0	93.3	36.2	3.0	1.3
G42.0	89.8	231.0	283.6	305.7	278.0	212.4	85.7	28.3	0.0	0.0
G43.0	82.0	206.6	263.2	289.9	255.0	191.9	77.0	21.6	0.0	0.0
G44.0	73.8	185.2	241.7	274.4	236.2	171.5	70.4	14.2	0.0	0.0
G45.0	65.5	163.5	224.6	256.8	217.1	147.7	63.0	10.7	0.0	0.0
G46.0	58.0	140.2	208.4	241.3	198.7	127.5	56.4	6.6	0.0	0.0
G47.0	50.9	117.4	193.9	226.1	184.7	107.2	49.9	4.1	0.0	0.0
G48.0	43.5	97.8	179.7	209.2	171.6	90.2	43.1	2.5	0.0	0.0
G49.0	36.7	81.3	166.5	194.5	159.1	76.5	36.7	1.3	0.0	0.0
G50.0	29.8	71.7	154.1	180.1	146.1	68.2	30.1	1.0	0.0	0.0
G51.0	24.4	64.6	142.9	166.1	135.6	61.2	24.6	0.0	0.0	0.0
G52.0	19.3	57.7	131.8	152.4	123.4	54.8	19.5	0.0	0.0	0.0
G53.0	15.8	51.4	119.4	139.3	113.0	48.7	16.2	0.0	0.0	0.0
G54.0	11.3	44.8	106.6	123.3	102.3	43.0	11.9	0.0	0.0	0.0
G55.0	9.2	39.2	94.3	108.9	88.0	37.8	9.0	0.0	0.0	0.0
G56.0	6.9	34.3	80.5	97.2	77.7	32.7	6.8	0.0	0.0	0.0
G57.0	4.7	29.2	69.0	87.4	66.7	28.6	4.7	0.0	0.0	0.0
G58.0	3.8	25.8	58.9	79.2	55.4	25.0	3.8	0.0	0.0	0.0
G59.0	2.9	22.4	48.9	72.0	46.9	22.1	2.8	0.0	0.0	0.0
G60.0	2.7	19.6	40.3	64.5	39.8	19.0	2.1	0.0	0.0	0.0
G61.0	2.5	16.4	34.2	58.2	33.7	16.1	2.0	0.0	0.0	0.0
G62.0	2.2	13.9	29.7	52.7	29.3	13.1	1.7	0.0	0.0	0.0
G63.0	2.1	11.8	26.0	46.8	25.9	11.4	1.6	0.0	0.0	0.0
G64.0	2.0	9.2	22.3	41.4	22.4	8.9	1.5	0.0	0.0	0.0
G65.0	1.7	7.8	19.3	32.7	19.2	7.6	1.4	0.0	0.0	0.0
G66.0	1.5	6.0	16.7	25.1	16.1	5.7	1.2	0.0	0.0	0.0
G67.0	1.3	5.1	14.5	20.7	13.7	4.8	1.1	0.0	0.0	0.0
G68.0	1.1	3.8	12.3	17.3	11.7	3.7	1.0	0.0	0.0	0.0
G69.0	1.0	3.3	10.7	14.8	10.4	2.8	0.0	0.0	0.0	0.0
G70.0	0.0	2.9	9.3	12.8	8.6	2.4	0.0	0.0	0.0	0.0
G71.0	0.0	2.5	7.9	10.2	7.3	2.3	0.0	0.0	0.0	0.0
G72.0	0.0	2.2	6.6	8.3	6.3	2.0	0.0	0.0	0.0	0.0
G73.0	0.0	2.0	5.5	6.6	5.3	1.8	0.0	0.0	0.0	0.0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	2.0	4.9	5.1	4.2	1.8	0.0	0.0	0.0	0.0
G75.0	0.0	1.6	3.9	4.4	3.7	1.7	0.0	0.0	0.0	0.0
G76.0	0.0	1.7	3.3	3.6	3.0	1.5	0.0	0.0	0.0	0.0
G77.0	0.0	1.5	2.9	3.1	2.5	1.4	0.0	0.0	0.0	0.0
G78.0	0.0	1.6	2.7	2.8	2.3	1.4	0.0	0.0	0.0	0.0
G79.0	0.0	1.3	2.5	2.4	2.1	1.1	0.0	0.0	0.0	0.0
G80.0	0.0	1.2	2.3	2.4	1.9	0.9	0.0	0.0	0.0	0.0
G81.0	0.0	0.9	2.3	2.4	1.8	1.0	0.0	0.0	0.0	0.0
G82.0	0.0	0.9	2.3	2.2	1.7	0.0	0.0	0.0	0.0	0.0
G83.0	0.0	0.0	2.0	2.2	1.8	0.0	0.0	0.0	0.0	0.0
G84.0	0.0	0.0	2.0	1.9	1.6	0.0	0.0	0.0	0.0	0.0
G85.0	0.0	0.0	2.0	1.9	1.6	0.0	0.0	0.0	0.0	0.0
G86.0	0.0	0.0	1.9	1.7	1.5	0.0	0.0	0.0	0.0	0.0
G87.0	0.0	0.0	1.6	1.6	1.3	0.0	0.0	0.0	0.0	0.0
G88.0	0.0	0.0	1.5	1.4	1.2	0.0	0.0	0.0	0.0	0.0
G89.0	0.0	0.0	1.5	1.5	1.1	0.0	0.0	0.0	0.0	0.0
G90.0	0.0	0.0	1.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0
G91.0	0.0	0.0	1.3	1.3	0.9	0.0	0.0	0.0	0.0	0.0
G92.0	0.0	0.0	1.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
G93.0	0.0	0.0	0.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0
G94.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
G95.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G110.0	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:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G141.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G143.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G144.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
G146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.9
G147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	0.9
G149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.1	0.9
G150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.2	1.1
G151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.4	1.2
G152.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	1.4	1.3
G153.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	1.5	1.5
G154.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.4	1.6	1.5
G155.0	0.9	0.0	0.0	0.0	0.0	0.0	1.1	1.4	1.5	1.6
G156.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	1.6	1.6	1.5
G157.0	1.1	0.0	0.0	0.0	0.0	0.0	1.3	1.5	1.6	1.6
G158.0	1.2	0.0	0.9	0.0	0.0	0.9	1.2	1.6	1.4	1.8
G159.0	1.2	0.0	1.0	0.0	0.0	1.0	1.2	1.4	1.7	1.8
G160.0	1.3	1.0	1.0	0.0	0.0	1.0	1.3	1.6	1.7	1.6
G161.0	1.4	1.1	1.1	0.0	0.0	1.1	1.4	1.5	1.9	1.8
G162.0	1.6	1.1	1.2	1.0	1.0	1.2	1.5	1.7	1.9	1.8
G163.0	1.4	1.1	1.1	0.9	1.1	1.3	1.5	1.7	1.8	1.8
G164.0	1.6	1.2	1.0	1.1	1.3	1.4	1.6	1.8	1.7	1.9
G165.0	1.6	1.2	1.1	1.4	1.2	1.1	1.6	1.7	1.9	1.9
G166.0	1.9	1.2	1.2	1.4	1.4	1.1	1.7	2.0	1.9	2.1
G167.0	1.7	1.4	1.2	1.3	1.4	1.3	1.8	2.0	1.9	2.0
G168.0	1.9	1.5	1.4	1.6	1.5	1.4	2.0	1.9	2.0	2.0
G169.0	1.9	1.5	1.3	1.4	1.6	1.4	2.1	2.0	2.0	2.1
G170.0	1.9	1.6	1.5	1.5	1.5	1.5	2.1	2.1	2.1	2.0
G171.0	2.0	1.7	1.5	1.5	1.5	1.5	2.1	2.3	2.0	2.1
G172.0	2.0	1.7	1.8	1.7	1.6	1.7	2.2	2.4	1.9	2.2
G173.0	2.1	1.9	1.8	1.7	1.9	1.9	2.1	2.3	2.1	2.2
G174.0	2.2	1.8	1.8	1.9	1.7	1.9	2.4	2.4	2.1	2.2
G175.0	2.1	2.0	2.0	1.8	1.8	1.9	2.2	2.4	2.1	2.3
G176.0	2.3	2.3	2.3	1.9	2.0	2.0	2.1	2.2	2.2	2.4
G177.0	2.4	2.3	2.0	1.9	2.1	2.1	2.3	2.3	2.0	2.4
G178.0	2.4	2.4	2.1	2.0	2.1	2.0	2.3	2.3	2.2	2.2
G179.0	2.4	2.1	2.3	2.1	2.1	2.2	2.3	2.3	2.1	2.3
G180.0	2.4	2.2	2.3	2.2	2.3	2.3	2.3	2.2	2.3	2.3

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	779.9	779.1	781.3							
G1.0	777.2	778.9	782.0							
G2.0	773.6	773.8	777.5							
G3.0	771.2	767.9	775.8							
G4.0	764.4	764.9	772.5							
G5.0	756.4	757.7	766.4							
G6.0	750.6	752.4	760.4							
G7.0	743.2	746.0	755.4							
G8.0	736.3	739.2	749.7							
G9.0	728.5	732.9	744.3							
G10.0	722.1	725.9	737.2							
G11.0	710.7	716.7	729.3							
G12.0	699.1	706.0	721.1							
G13.0	688.9	695.3	710.4							
G14.0	672.4	684.0	700.6							
G15.0	650.0	671.7	690.9							
G16.0	627.9	654.0	680.8							
G17.0	599.5	633.0	670.4							
G18.0	567.9	609.8	657.7							
G19.0	533.6	584.4	644.0							
G20.0	499.6	555.6	626.0							
G21.0	469.7	520.9	607.7							
G22.0	444.4	490.7	582.8							
G23.0	424.3	464.2	557.8							
G24.0	372.5	441.7	530.6							
G25.0	311.1	418.6	501.7							
G26.0	255.6	396.5	470.3							
G27.0	200.5	347.6	443.9							
G28.0	155.9	300.3	422.4							
G29.0	131.3	242.8	400.2							
G30.0	118.0	199.3	380.8							
G31.0	106.9	161.1	361.5							
G32.0	94.2	134.7	337.4							
G33.0	81.6	118.4	307.1							
G34.0	66.5	106.0	268.3							
G35.0	55.4	97.1	234.9							
G36.0	41.0	86.0	199.8							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	29.9	75.3	169.1						
G38.0	22.1	66.1	139.9						
G39.0	13.0	55.2	120.9						
G40.0	6.3	45.5	107.7						
G41.0	3.3	35.5	98.8						
G42.0	0.0	28.7	89.8						
G43.0	0.0	20.5	82.0						
G44.0	0.0	14.0	73.8						
G45.0	0.0	10.1	65.5						
G46.0	0.0	5.8	58.0						
G47.0	0.0	3.8	50.9						
G48.0	0.0	2.0	43.5						
G49.0	0.0	1.2	36.7						
G50.0	0.0	1.0	29.8						
G51.0	0.0	1.0	24.4						
G52.0	0.0	0.0	19.3						
G53.0	0.0	0.0	15.8						
G54.0	0.0	0.0	11.3						
G55.0	0.0	0.0	9.2						
G56.0	0.0	0.0	6.9						
G57.0	0.0	0.0	4.7						
G58.0	0.0	0.0	3.8						
G59.0	0.0	0.0	2.9						
G60.0	0.0	0.0	2.7						
G61.0	0.0	0.0	2.5						
G62.0	0.0	0.0	2.2						
G63.0	0.0	0.0	2.1						
G64.0	0.0	0.0	2.0						
G65.0	0.0	0.0	1.7						
G66.0	0.0	0.0	1.5						
G67.0	0.0	0.0	1.3						
G68.0	0.0	0.0	1.1						
G69.0	0.0	0.0	1.0						
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:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	0.0	0.0	0.0							
G91.0	0.0	0.0	0.0							
G92.0	0.0	0.0	0.0							
G93.0	0.0	0.0	0.0							
G94.0	0.0	0.0	0.0							
G95.0	0.0	0.0	0.0							
G96.0	0.0	0.0	0.0							
G97.0	0.0	0.0	0.0							
G98.0	0.0	0.0	0.0							
G99.0	0.0	0.0	0.0							
G100.0	0.0	0.0	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	0.0	0.0							
G104.0	0.0	0.0	0.0							
G105.0	0.0	0.0	0.0							
G106.0	0.0	0.0	0.0							
G107.0	0.0	0.0	0.0							
G108.0	0.0	0.0	0.0							
G109.0	0.0	0.0	0.0							
G110.0	0.0	0.0	0.0							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	0.0	0.0	0.0							
G112.0	0.0	0.0	0.0							
G113.0	0.0	0.0	0.0							
G114.0	0.0	0.0	0.0							
G115.0	0.0	0.0	0.0							
G116.0	0.0	0.0	0.0							
G117.0	0.0	0.0	0.0							
G118.0	0.0	0.0	0.0							
G119.0	0.0	0.0	0.0							
G120.0	0.0	0.0	0.0							
G121.0	0.0	0.0	0.0							
G122.0	0.0	0.0	0.0							
G123.0	0.0	0.0	0.0							
G124.0	0.0	0.0	0.0							
G125.0	0.0	0.0	0.0							
G126.0	0.0	0.0	0.0							
G127.0	0.0	0.0	0.0							
G128.0	0.0	0.0	0.0							
G129.0	0.0	0.0	0.0							
G130.0	0.0	0.0	0.0							
G131.0	0.0	0.0	0.0							
G132.0	0.0	0.0	0.0							
G133.0	0.0	0.0	0.0							
G134.0	0.0	0.0	0.0							
G135.0	0.0	0.0	0.0							
G136.0	0.0	0.0	0.0							
G137.0	0.0	0.0	0.0							
G138.0	0.0	0.0	0.0							
G139.0	0.0	0.0	0.0							
G140.0	0.0	0.0	0.0							
G141.0	0.0	0.0	0.0							
G142.0	0.0	0.0	0.0							
G143.0	0.0	0.0	0.0							
G144.0	0.0	0.0	0.0							
G145.0	0.0	0.0	0.0							
G146.0	0.0	0.0	0.0							
G147.0	0.0	0.0	0.0							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	0.9	1.0	0.0							
G149.0	1.0	1.1	0.0							
G150.0	1.2	1.1	0.0							
G151.0	1.3	1.3	0.0							
G152.0	1.3	1.4	0.0							
G153.0	1.4	1.4	0.0							
G154.0	1.4	1.3	0.0							
G155.0	1.5	1.4	0.9							
G156.0	1.5	1.5	1.1							
G157.0	1.6	1.4	1.1							
G158.0	1.8	1.6	1.2							
G159.0	1.8	1.7	1.2							
G160.0	1.9	1.6	1.3							
G161.0	1.9	1.7	1.4							
G162.0	1.9	1.8	1.6							
G163.0	2.0	1.9	1.4							
G164.0	2.1	1.9	1.6							
G165.0	2.1	2.0	1.6							
G166.0	2.2	2.2	1.9							
G167.0	2.2	2.1	1.7							
G168.0	2.3	2.2	1.9							
G169.0	2.4	2.1	1.9							
G170.0	2.3	1.9	1.9							
G171.0	2.3	1.9	2.0							
G172.0	2.4	2.3	2.0							
G173.0	2.3	2.2	2.1							
G174.0	2.3	2.3	2.2							
G175.0	2.3	2.3	2.1							
G176.0	2.3	2.4	2.3							
G177.0	2.3	2.3	2.4							
G178.0	2.4	2.3	2.4							
G179.0	2.2	2.3	2.4							
G180.0	2.1	2.3	2.4							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	1.#J
L 0-180(75) av	-1.#J
L 0-180(85) av	-1.#J
L 90-270(65) av	1.#J
L 90-270(75) av	1.#J
L 90-270(85) av	1.#J
L 45(65) av	1.#J
L 45(75) av	1.#J
L 45(85) av	1.#J

Standard: GB/T 29293-2012

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector: