

Report No.:

Test Time: 2023/7/19 15:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: KING-PAR38-15W(AC120V)(3080-15°)

Lamp Catalog:

Lamp Description: 15.21W

Number of Lamps:

Lumens per Lamp:

Luminous Length (mm):

Luminous Width (mm):

Luminous Height (mm):

Voltage: 120.3 V

Current: 0.134 A

Power: 15.03 W

Power Factor: 0.931

Photometric Results

CIE Class: Direct

Measurement Flux: 1519.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 1519.4 lm

Efficiency: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,50%,75%,100%): H45.7,H23.3,H14.8,H1

Vertical Diffuse Angle(10%,50%,75%,100%): V46.7,V23.3,V14.1,V0

Luminaire Efficacy Rating (LER): 101.14

C0r0 Intensity: 6697.45 cd

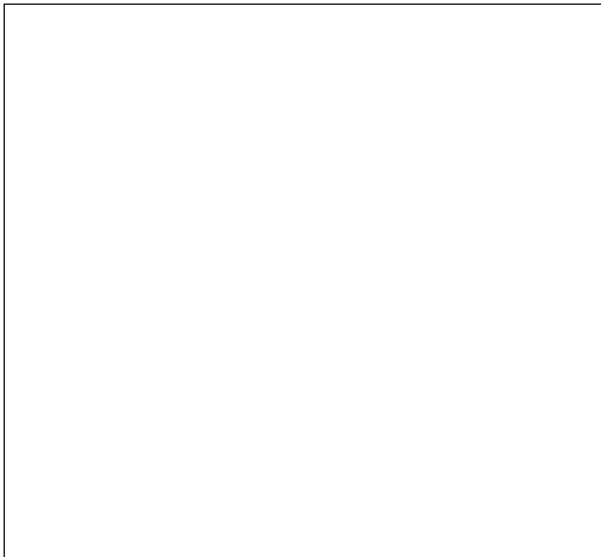
Max. Intensity: 6822.51 cd

Pos of Max. Intensity: H30 V1

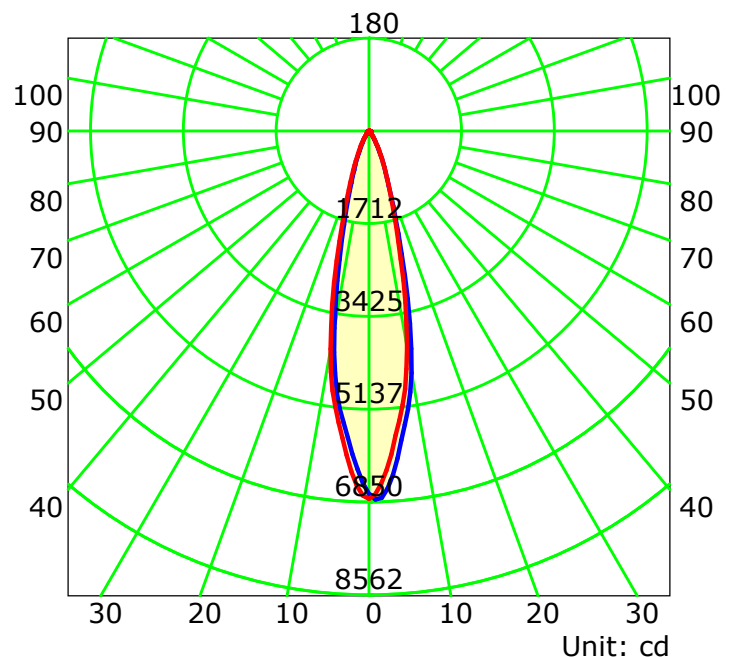
S/MH(C0/C180): 0.40

S/MH(C90/C270): 0.39

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 23.3°

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

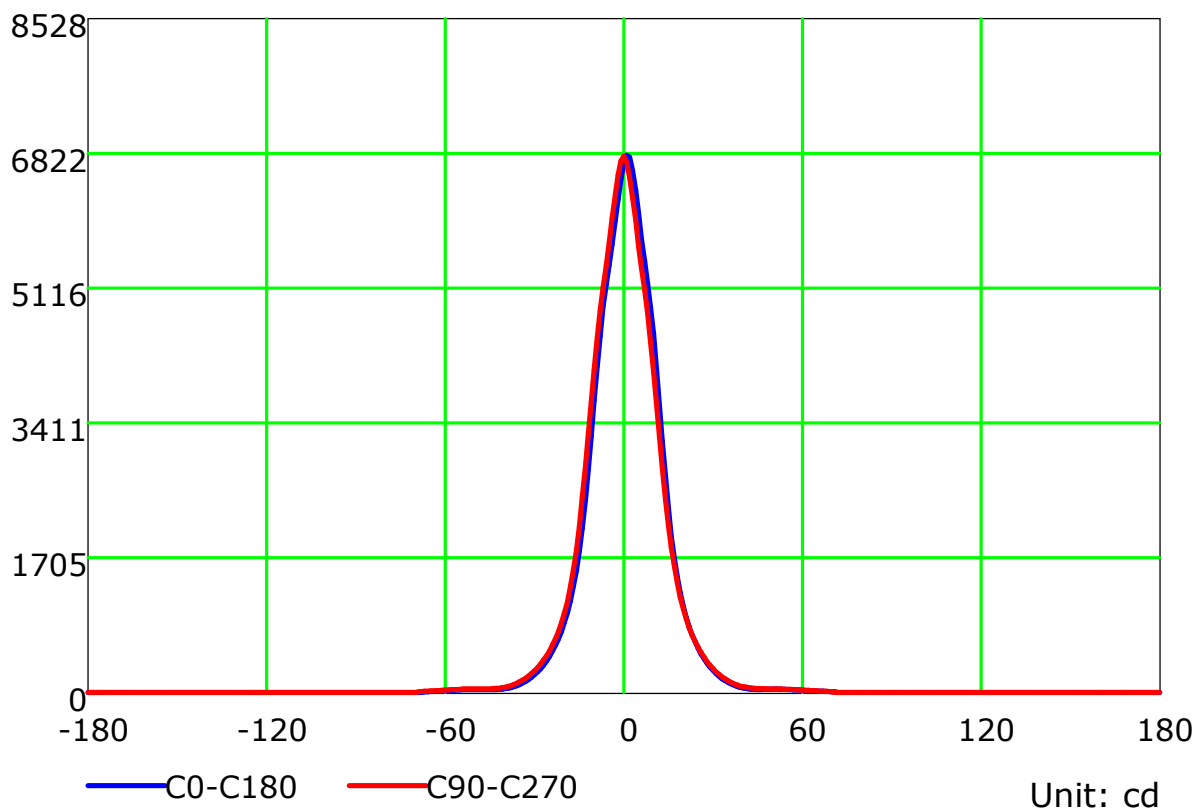
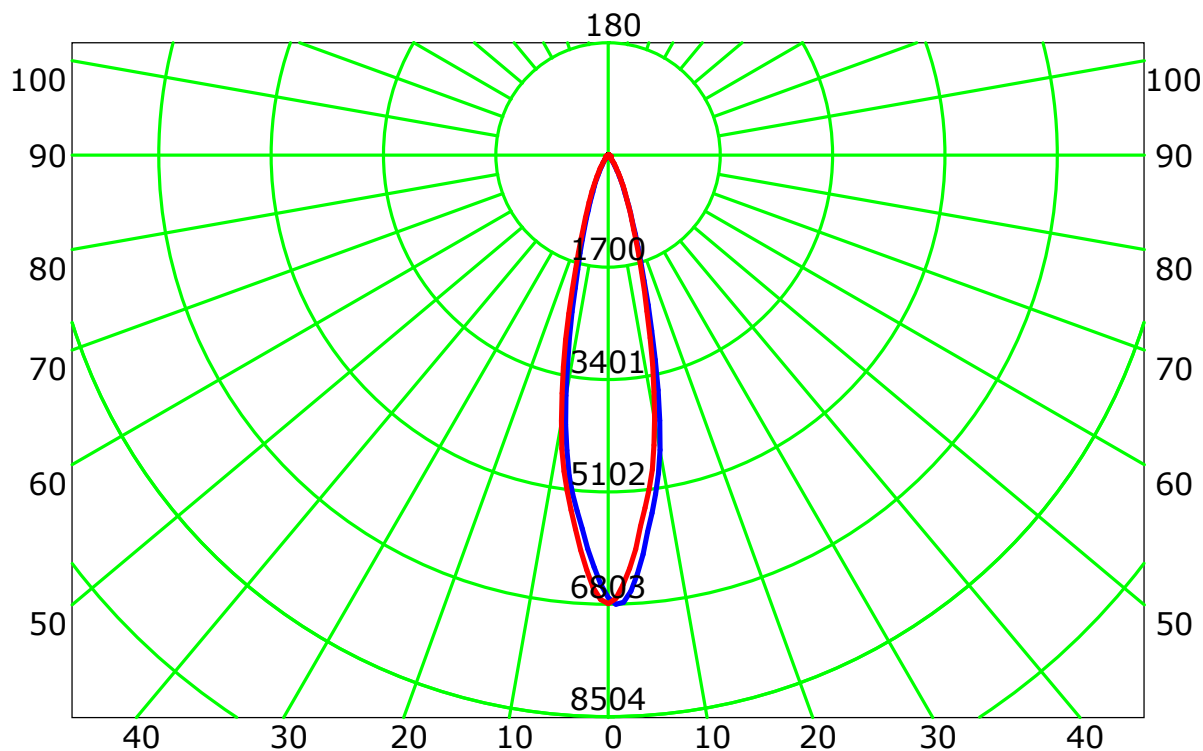
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

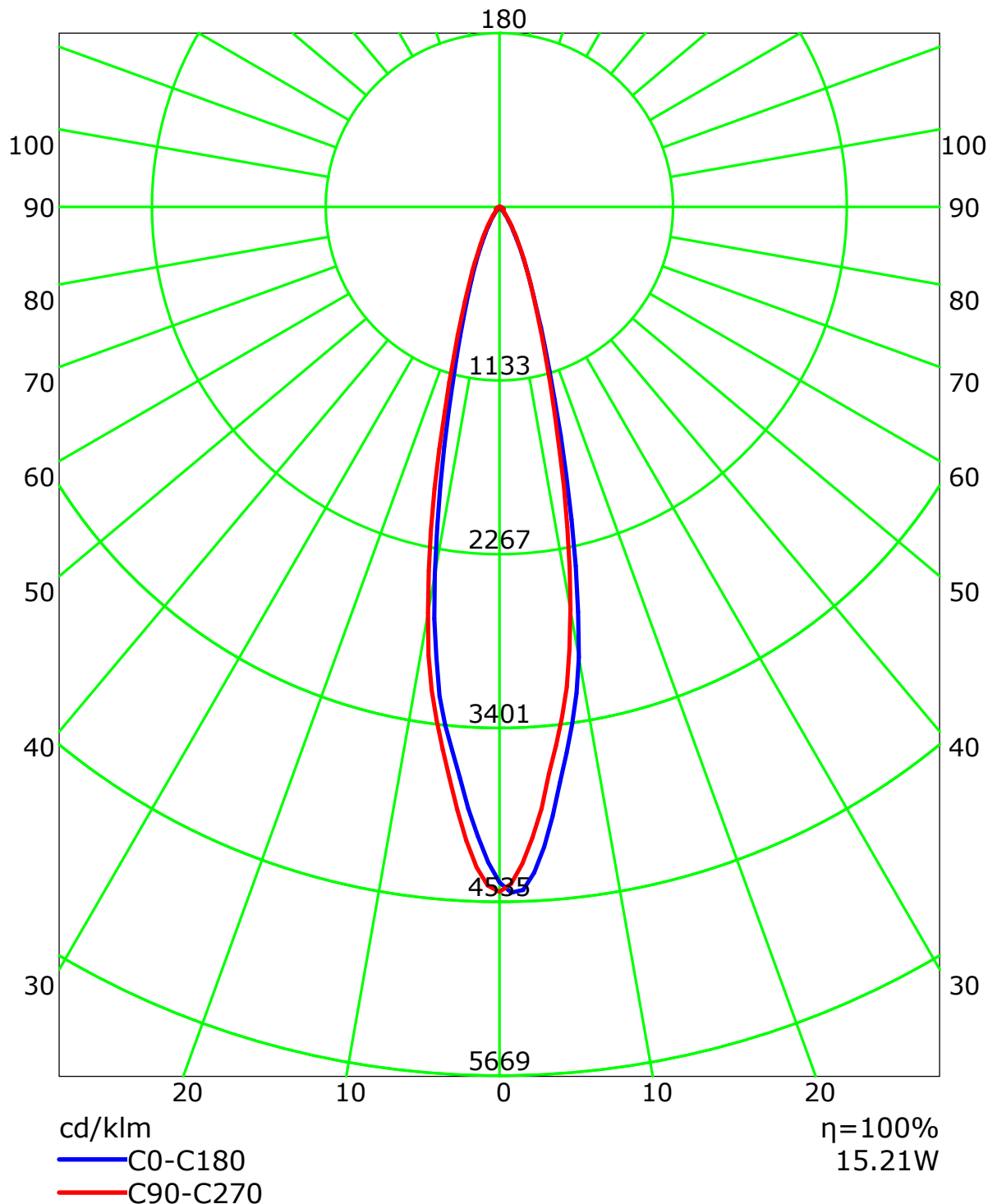
Luminous Intensity Distribution Curve



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(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:

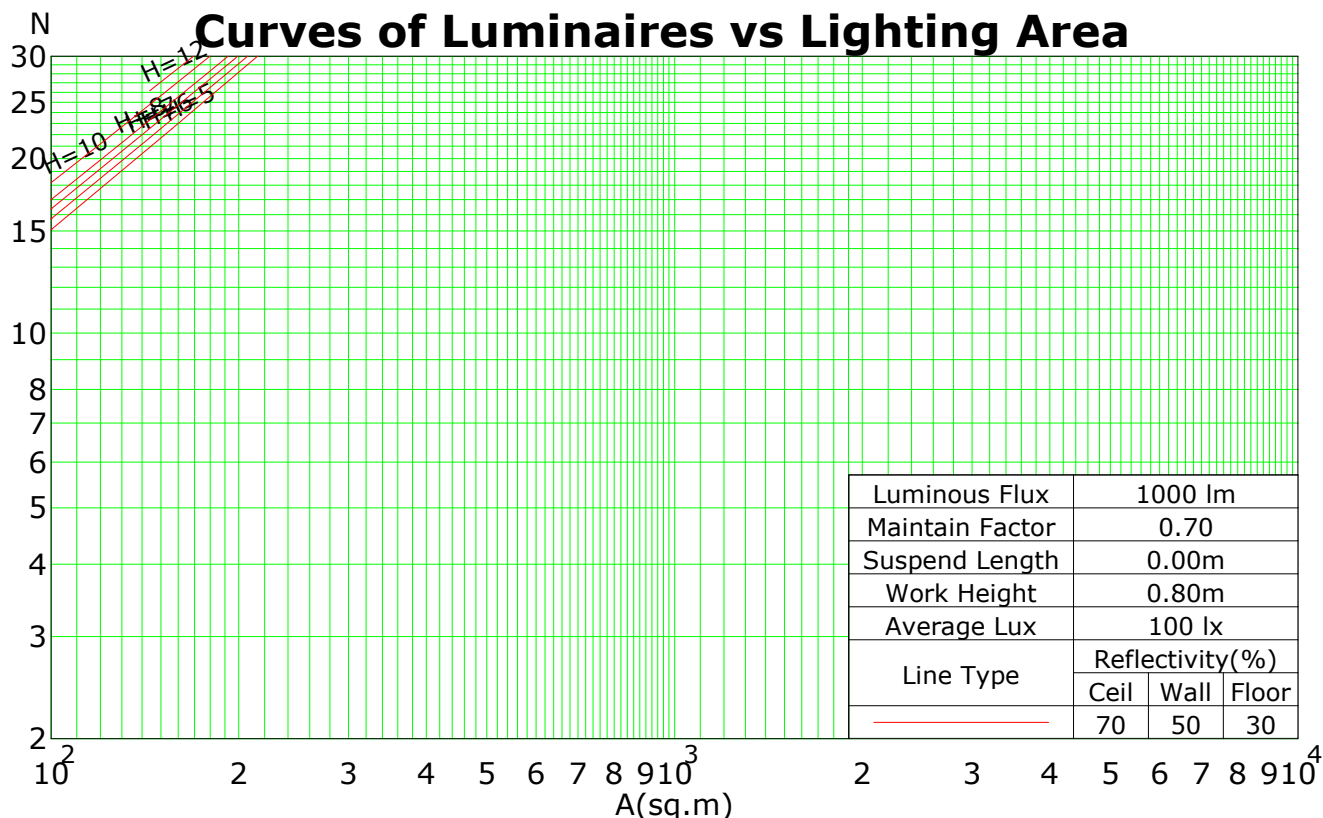
Coefficients Of Utilization - Zonal Cavity Method

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	1.15	1.12	1.10	1.08	1.12	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	0.99	1.01	0.99	0.97	0.99	0.97	0.95	0.96	0.94	0.93	0.91
3	1.06	1.01	0.97	0.94	1.04	1.00	0.96	0.93	0.97	0.94	0.92	0.95	0.92	0.90	0.93	0.91	0.89	0.88
4	1.02	0.96	0.92	0.89	1.01	0.95	0.91	0.88	0.93	0.90	0.87	0.91	0.89	0.86	0.90	0.87	0.85	0.84
5	0.99	0.92	0.88	0.84	0.97	0.92	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.81
6	0.96	0.89	0.84	0.81	0.94	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.78
7	0.93	0.86	0.81	0.78	0.91	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.75
8	0.90	0.83	0.78	0.75	0.89	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.87	0.80	0.75	0.72	0.86	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
10	0.85	0.77	0.73	0.70	0.84	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69

Spacing Criteria (0-180): 0.40

Spacing Criteria (90-270): 0.39

Spacing Criteria (Diagonal): 0.40



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

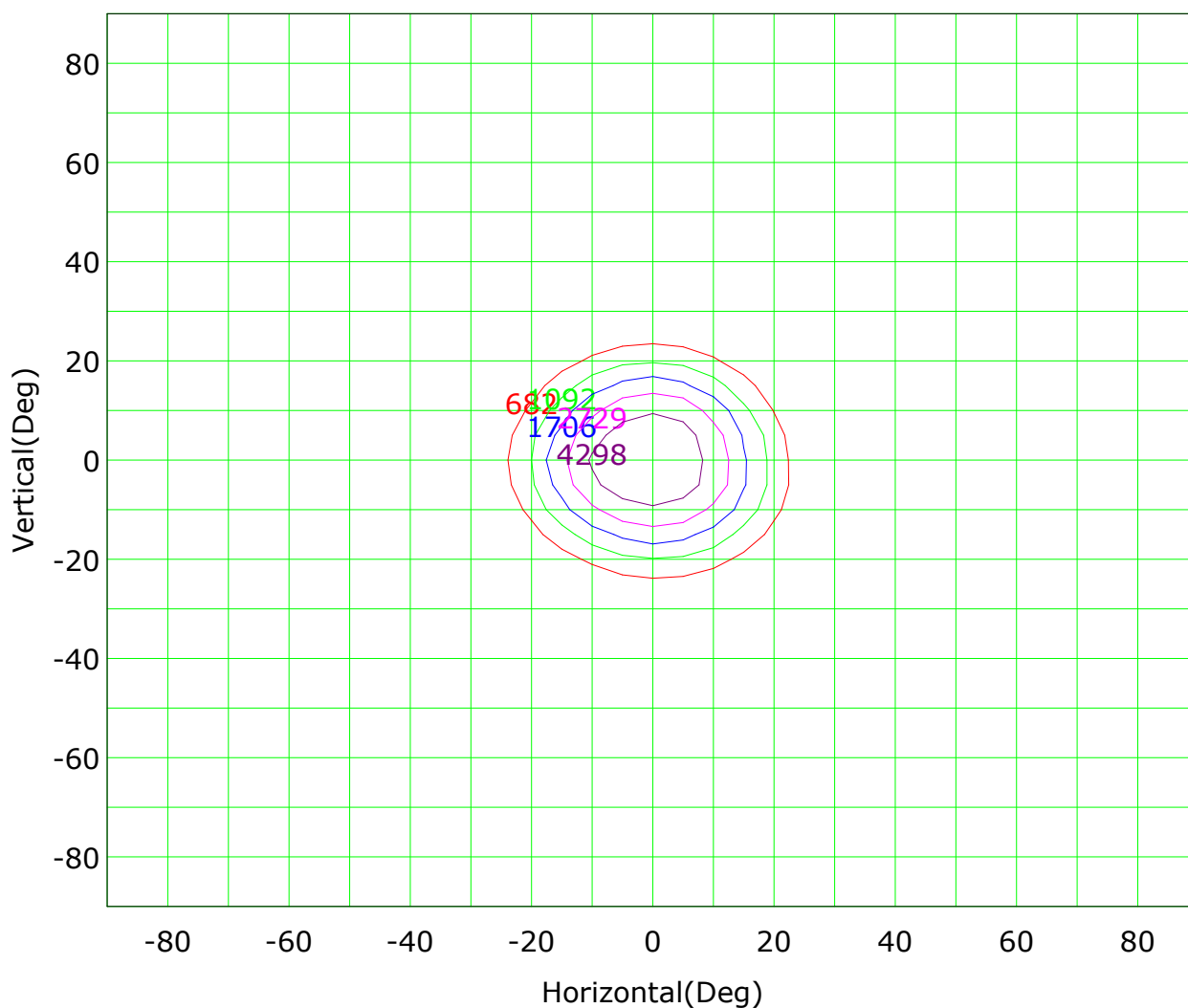
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 6823 cd

(10%): 682 cd	(16%): 1092 cd
(25%): 1706 cd	(40%): 2729 cd
(63%): 4298 cd	(100%): 6823 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

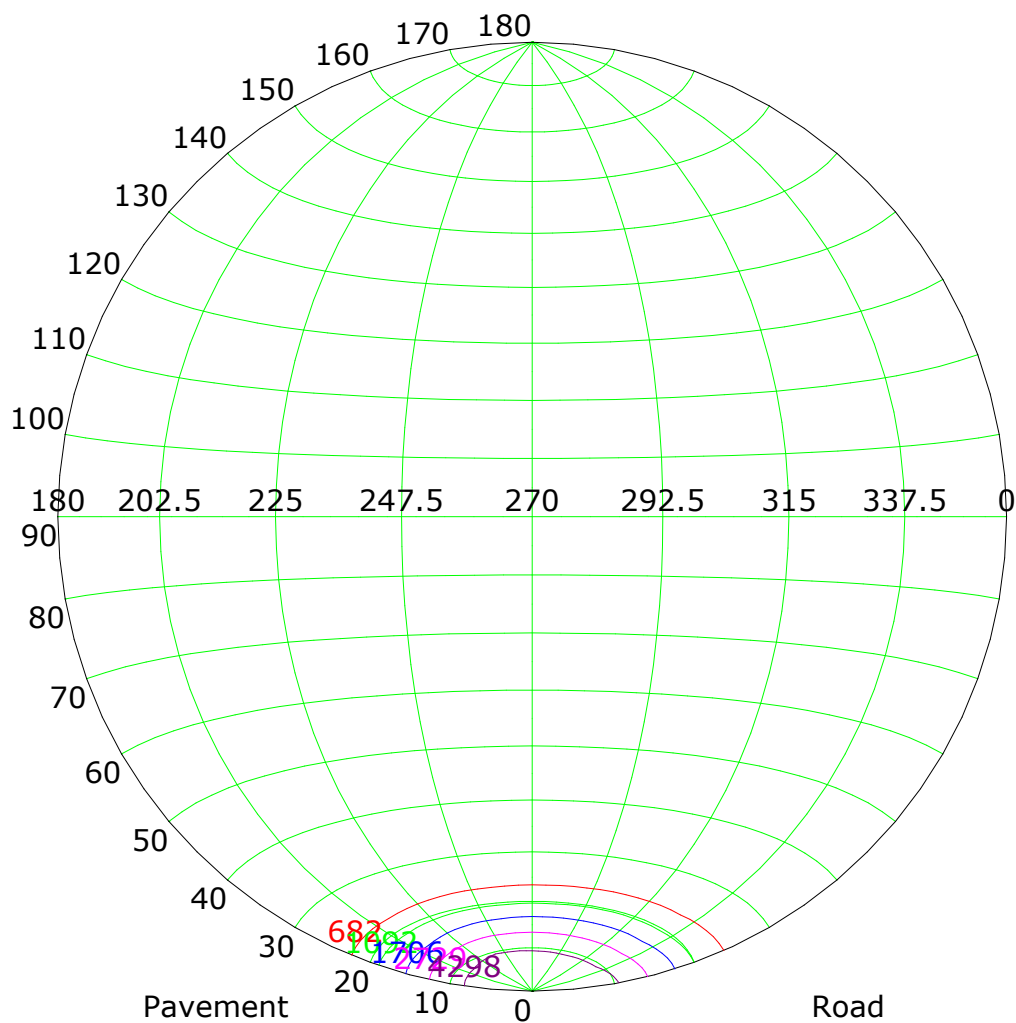
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 6823 cd

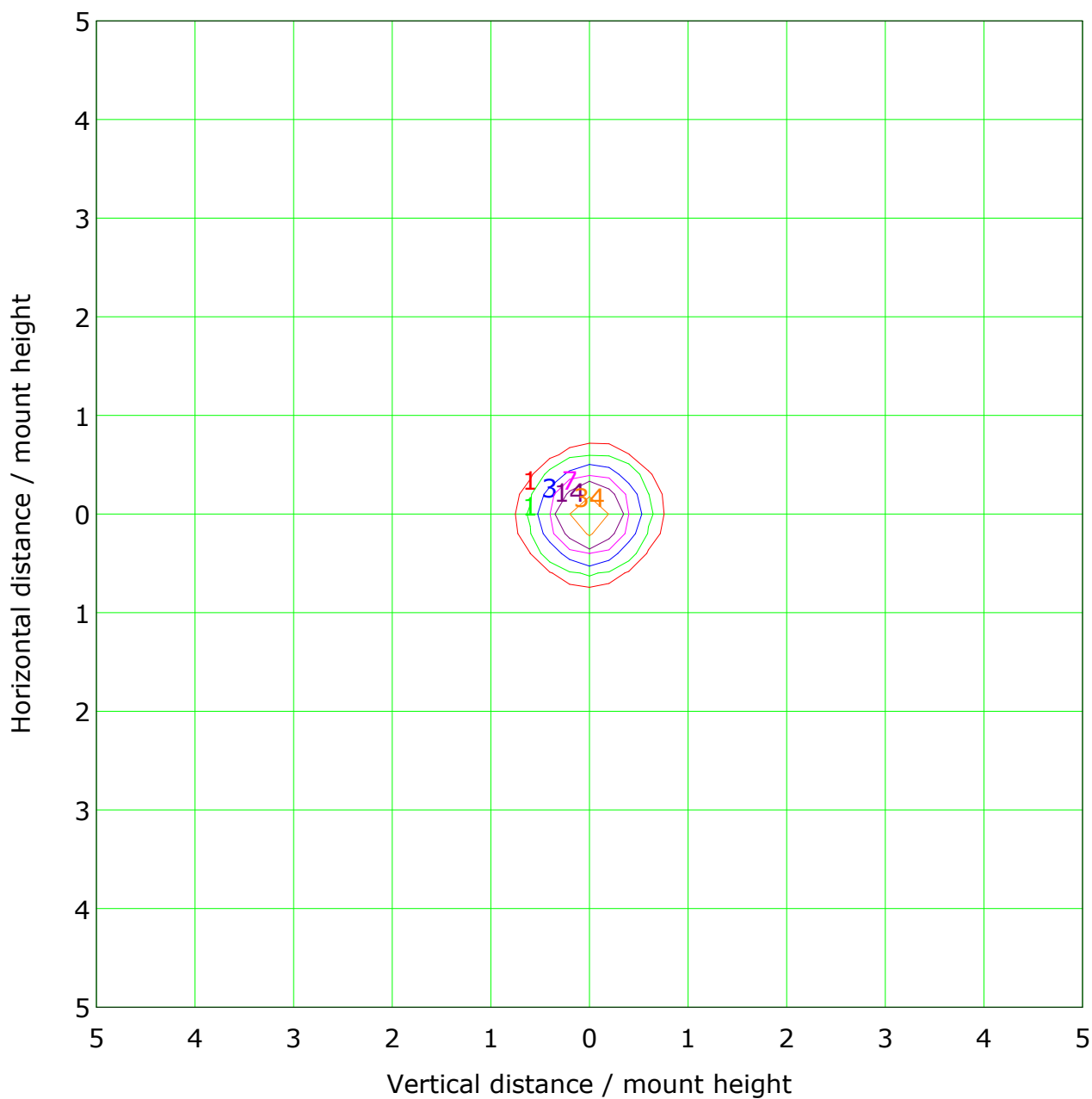
(10%): 682 cd
(25%): 1706 cd
(63%): 4298 cd

(16%): 1092 cd
(40%): 2729 cd
(100%): 6823 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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 68.2 lx

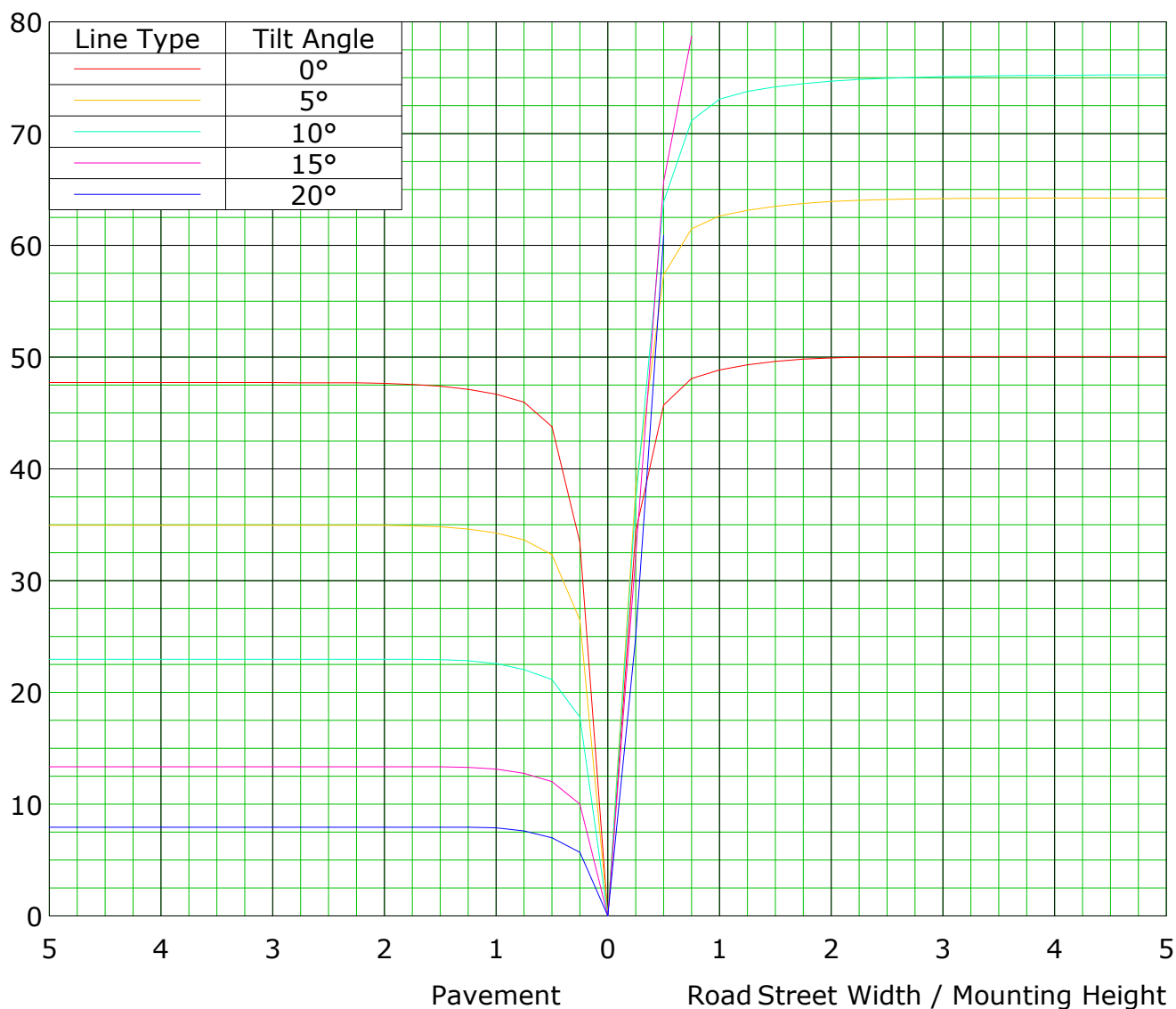
(1%): 0.7 lx	(2%): 1.4 lx
(5%): 3.4 lx	(10%): 6.8 lx
(20%): 13.6 lx	(50%): 34.1 lx
(100%): 68.2 lx	

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]

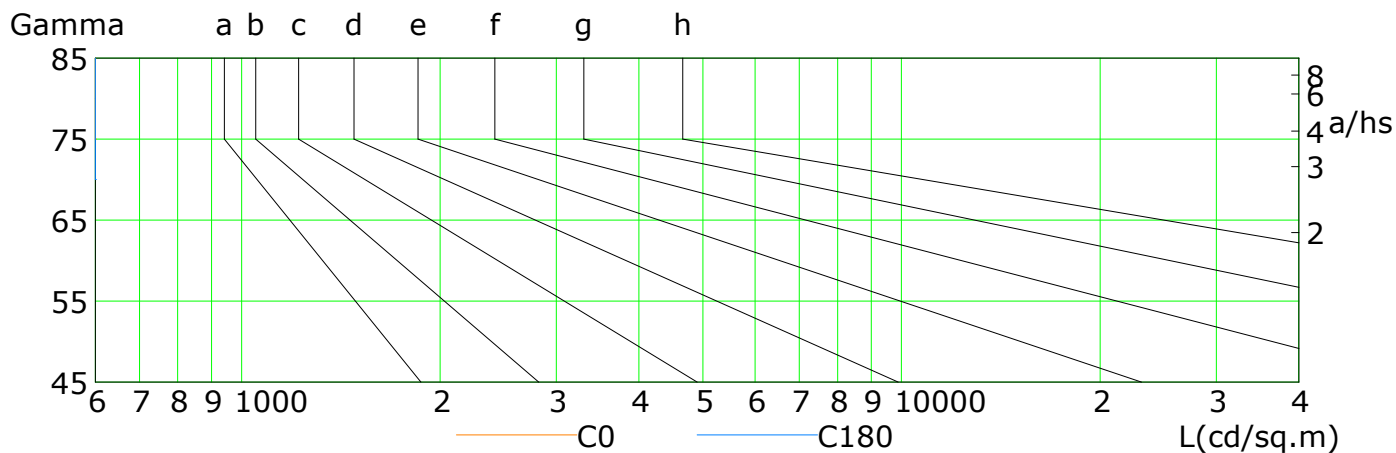
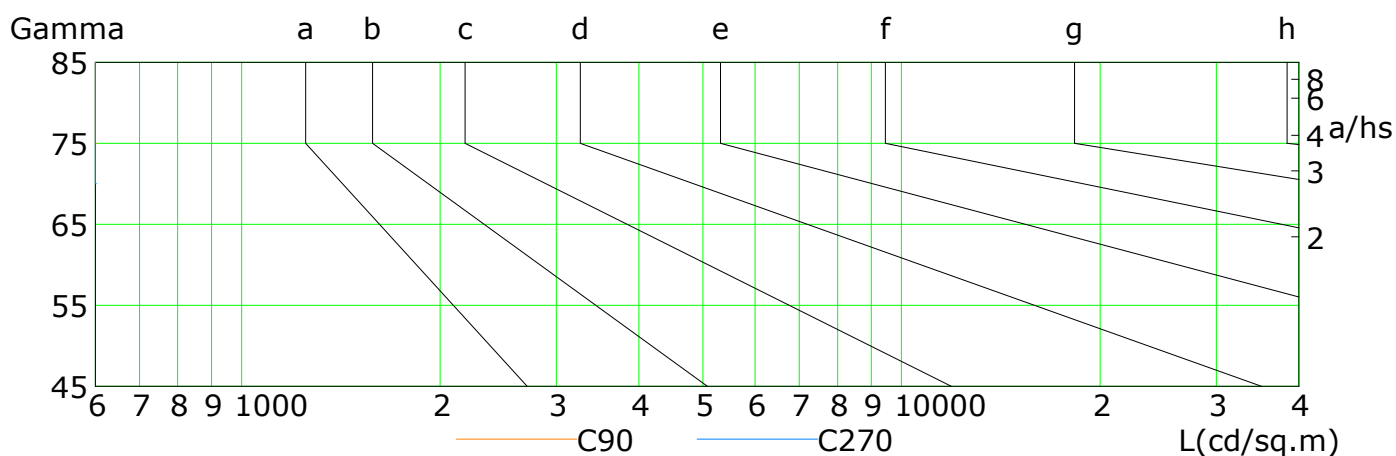
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

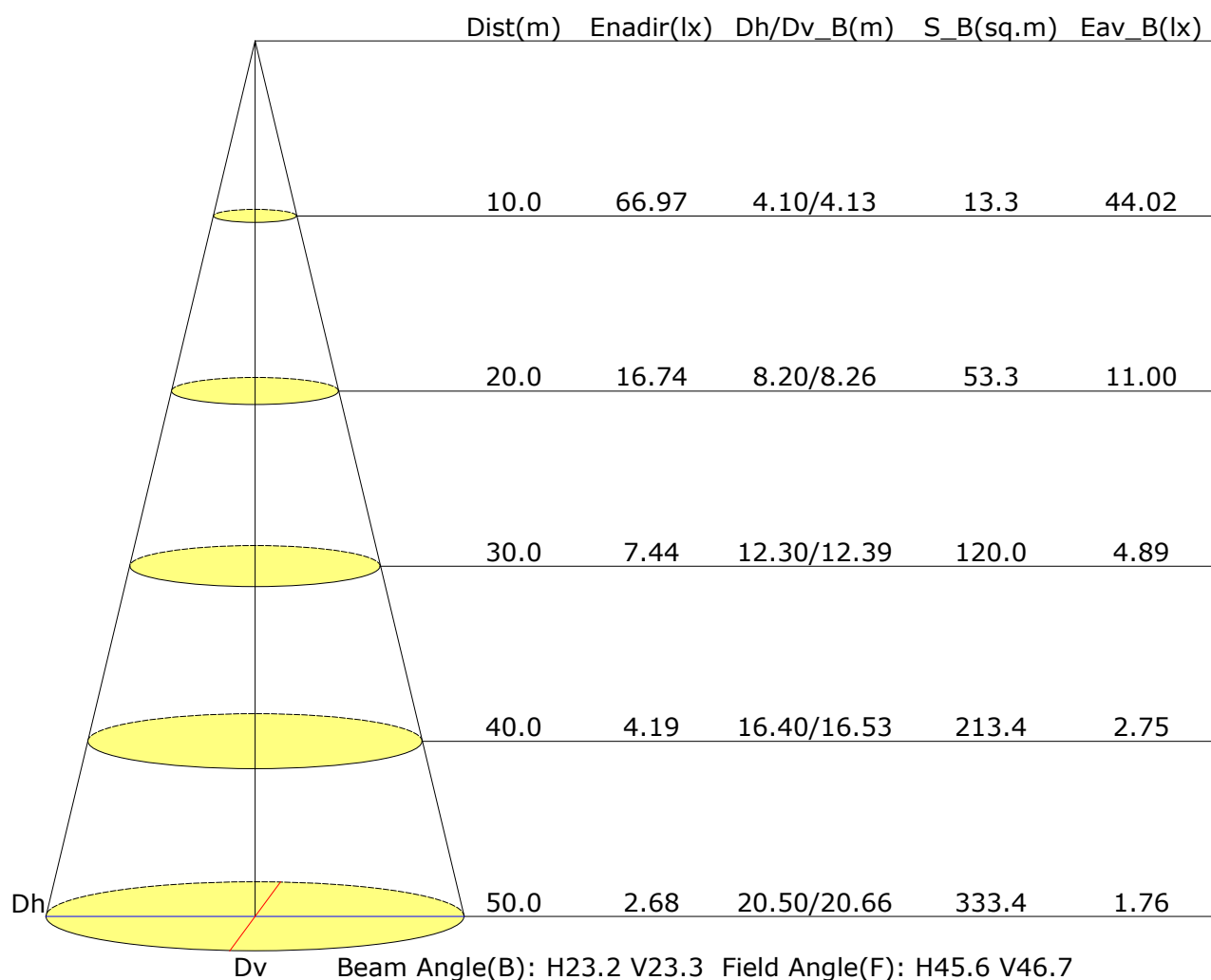


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40	41	40	32	19	10	0	0	0
C90	52	46	42	33	21	9	0	0	0
C180	38	39	36	26	13	0	0	0	0
C270	48	46	44	33	21	0	0	0	0

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:

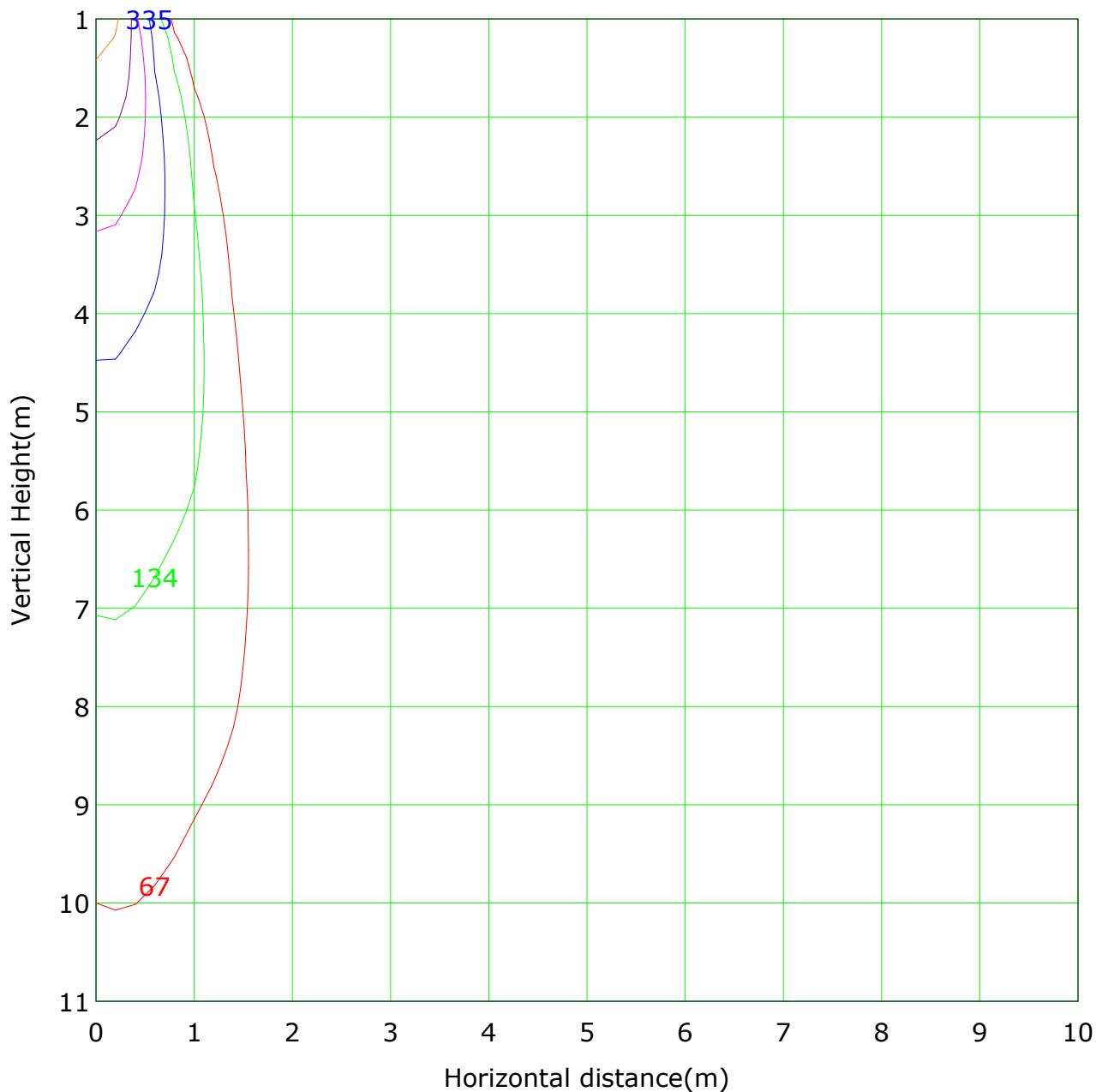
Illuminance at a Distance



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: 6697.5 lx
— (1%): 67.0 lx — (2%): 133.9 lx
— (5%): 334.9 lx — (10%): 669.7 lx
— (20%): 1339.5 lx — (50%): 3348.7 lx
— (100%): 6697.5 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:

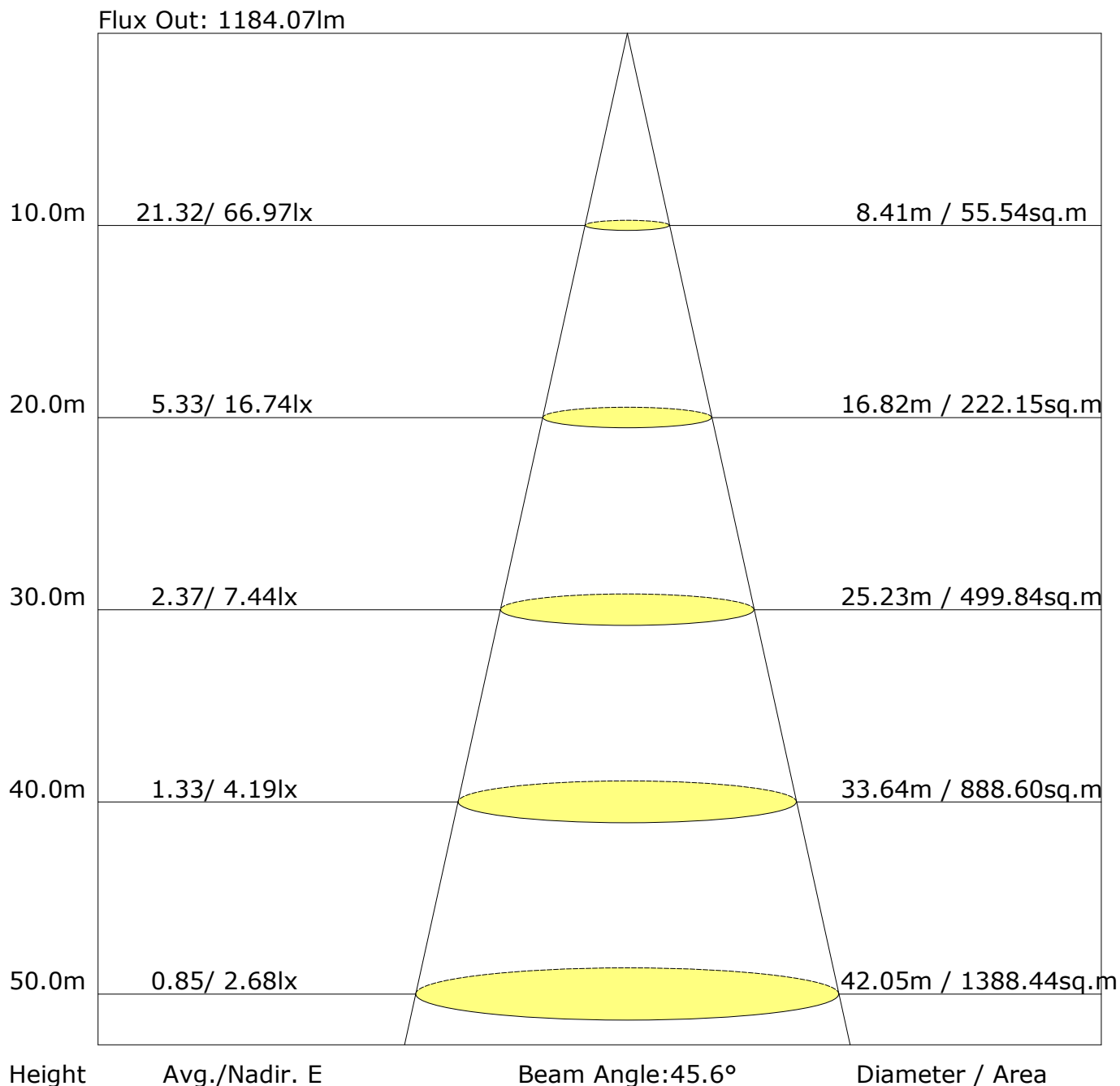
Area Flux Table

[illegible]

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:
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:

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 1519lm ($8\log(F/F_0) = 1.5$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

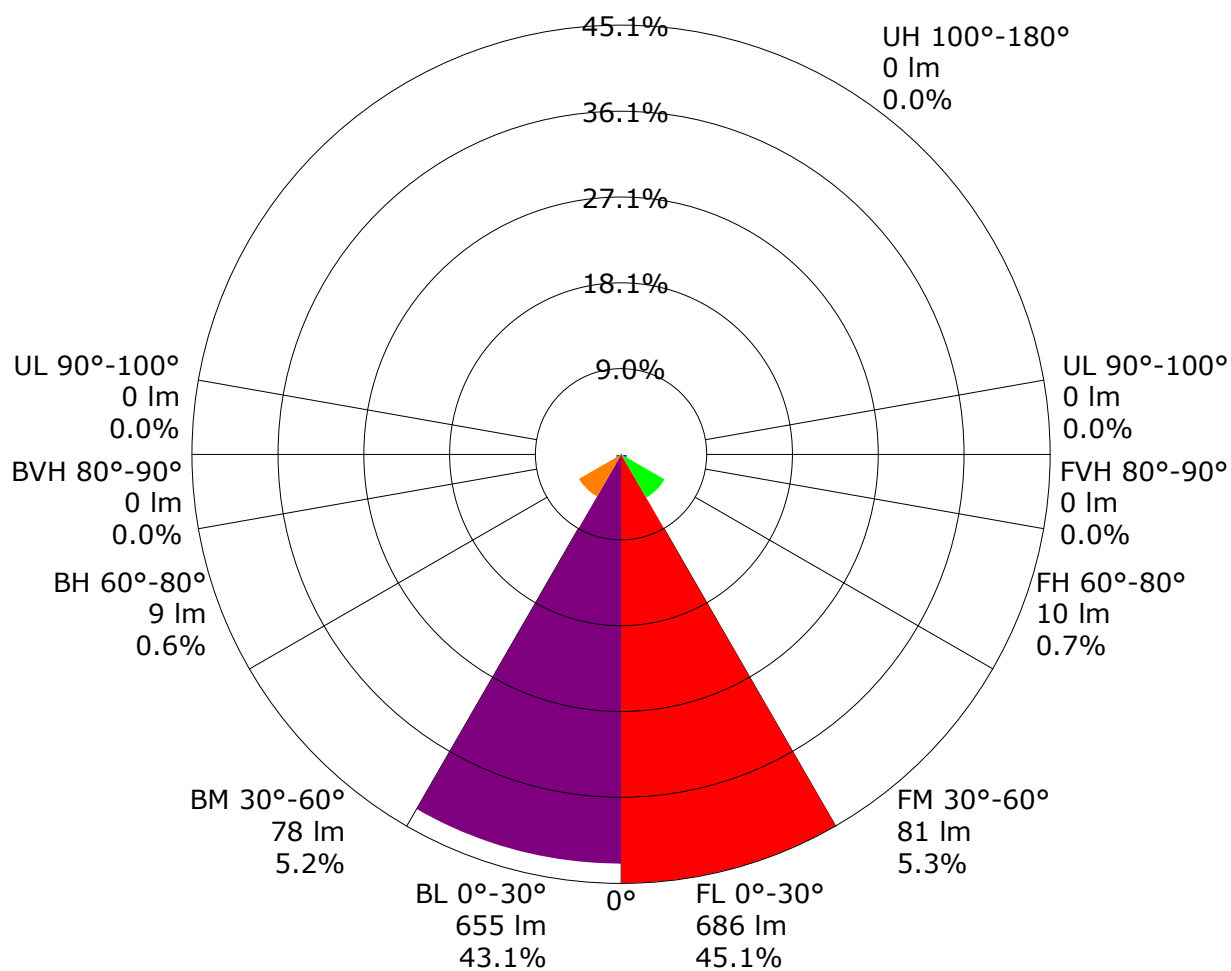
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	777	51.2
	FL (0°-30°)	686	45.1
	FM (30°-60°)	81	5.3
	FH (60°-80°)	10	0.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	742	48.8
	BL (0°-30°)	655	43.1
	BM (30°-60°)	78	5.2
	BH (60°-80°)	9	0.6
	BVH (80°-90°)	0	0.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U0 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



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

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 = 0.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.91	0.96	1.00	1.02	1.06	1.08	1.10	1.11	1.13	
	0.30		0.86	0.92	0.96	0.99	1.03	1.05	1.07	1.09	1.11	
	0.20		0.83	0.89	0.93	0.96	1.00	1.03	1.05	1.08	1.10	
0.50	0.50	0.20	0.89	0.94	0.98	1.00	1.03	1.05	1.06	1.08	1.09	
	0.30		0.86	0.91	0.94	0.97	1.00	1.02	1.04	1.06	1.07	
	0.20		0.83	0.88	0.92	0.94	0.98	1.01	1.02	1.05	1.06	
0.30	0.50	0.20	0.88	0.93	0.96	0.98	1.00	1.02	1.03	1.04	1.05	
	0.30		0.85	0.90	0.93	0.95	0.98	1.00	1.01	1.03	1.04	
	0.20		0.83	0.88	0.91	0.93	0.96	0.98	1.00	1.02	1.03	
0.00	0.00	0.00	0.81	0.86	0.89	0.91	0.93	0.95	0.96	0.97	0.98	
Rating:15W 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 = 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	0.52	0.42	0.35	0.30	0.24	0.20	0.17	0.13	0.11	
	0.30		0.43	0.36	0.31	0.27	0.22	0.18	0.16	0.12	0.10	
	0.20		0.37	0.31	0.27	0.24	0.20	0.17	0.15	0.12	0.10	
0.50	0.50	0.20	0.49	0.39	0.33	0.28	0.22	0.22	0.15	0.12	0.10	
	0.30		0.41	0.34	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
	0.20		0.36	0.30	0.26	0.23	0.19	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.47	0.37	0.31	0.26	0.20	0.17	0.14	0.11	0.09	
	0.30		0.40	0.33	0.28	0.24	0.19	0.16	0.13	0.10	0.08	
	0.20		0.35	0.29	0.25	0.22	0.17	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.21	0.16	0.13	0.11	0.08	0.07	0.06	0.04	0.03	
Rating:15W 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 = 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	0.12	0.14	0.15	0.16	0.18	0.19	0.19	0.20	0.21	
	0.30		0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.50	0.50	0.20	0.12	0.14	0.15	0.16	0.17	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	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
0.30	0.50	0.20	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	
	0.30		0.08	0.10	0.12	0.13	0.14	0.16	0.16	0.18	0.18	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.17	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:15W 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	6728.1	6.4	6.4	0.42	0.42
1.0-2.0	6610.2	19.0	25.4	1.25	1.67
2.0-3.0	6403.9	30.6	56.0	2.02	3.69
3.0-4.0	6141.0	41.1	97.2	2.71	6.39
4.0-5.0	5852.0	50.3	147.5	3.31	9.71
5.0-6.0	5568.5	58.5	206.0	3.85	13.56
6.0-7.0	5291.8	65.7	271.7	4.32	17.88
7.0-8.0	5000.3	71.6	343.3	4.71	22.59
8.0-9.0	4673.4	75.8	419.1	4.99	27.58
9.0-10.0	4298.7	77.8	496.9	5.12	32.70
10.0-11.0	3881.2	77.6	574.4	5.10	37.80
11.0-12.0	3448.8	75.4	649.8	4.96	42.77
12.0-13.0	3024.0	71.8	721.6	4.72	47.49
13.0-14.0	2619.8	67.1	788.7	4.41	51.90
14.0-15.0	2252.3	61.8	850.5	4.07	55.97
15.0-16.0	1933.3	56.7	907.2	3.73	59.70
16.0-17.0	1663.7	51.8	959.0	3.41	63.11
17.0-18.0	1436.3	47.4	1006.3	3.12	66.23
18.0-19.0	1244.3	43.3	1049.6	2.85	69.08
19.0-20.0	1083.2	39.7	1089.3	2.61	71.69
20.0-21.0	947.8	36.4	1125.7	2.40	74.09
21.0-22.0	831.6	33.4	1159.1	2.20	76.28
22.0-23.0	731.7	30.7	1189.8	2.02	78.31
23.0-24.0	643.9	28.2	1218.0	1.85	80.16
24.0-25.0	565.4	25.7	1243.7	1.69	81.85
25.0-26.0	496.7	23.5	1267.1	1.54	83.39
26.0-27.0	435.8	21.3	1288.5	1.40	84.80
27.0-28.0	380.4	19.3	1307.7	1.27	86.07
28.0-29.0	331.8	17.4	1325.1	1.14	87.21
29.0-30.0	290.2	15.7	1340.8	1.03	88.24
30.0-31.0	252.6	14.1	1354.8	0.93	89.17
31.0-32.0	218.7	12.5	1367.3	0.82	89.99
32.0-33.0	189.1	11.1	1378.5	0.73	90.72
33.0-34.0	163.2	9.9	1388.4	0.65	91.37
34.0-35.0	140.3	8.7	1397.1	0.57	91.95
35.0-36.0	120.2	7.7	1404.7	0.50	92.45

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	102.7	6.7	1411.4	0.44	92.89
37.0-38.0	87.7	5.9	1417.3	0.39	93.28
38.0-39.0	75.6	5.2	1422.4	0.34	93.62
39.0-40.0	66.5	4.6	1427.1	0.31	93.92
40.0-41.0	59.4	4.2	1431.3	0.28	94.20
41.0-42.0	54.0	3.9	1435.2	0.26	94.46
42.0-43.0	50.2	3.7	1439.0	0.24	94.70
43.0-44.0	47.4	3.6	1442.5	0.24	94.94
44.0-45.0	45.5	3.5	1446.0	0.23	95.17
45.0-46.0	44.7	3.5	1449.5	0.23	95.40
46.0-47.0	44.6	3.5	1453.1	0.23	95.63
47.0-48.0	44.5	3.6	1456.7	0.24	95.87
48.0-49.0	44.7	3.7	1460.3	0.24	96.11
49.0-50.0	44.6	3.7	1464.1	0.24	96.36
50.0-51.0	44.6	3.8	1467.8	0.25	96.60
51.0-52.0	44.6	3.8	1471.7	0.25	96.86
52.0-53.0	44.0	3.8	1475.5	0.25	97.11
53.0-54.0	43.0	3.8	1479.3	0.25	97.36
54.0-55.0	41.7	3.7	1483.0	0.25	97.60
55.0-56.0	40.2	3.6	1486.6	0.24	97.84
56.0-57.0	38.5	3.5	1490.2	0.23	98.07
57.0-58.0	36.6	3.4	1493.5	0.22	98.30
58.0-59.0	34.7	3.2	1496.8	0.21	98.51
59.0-60.0	32.8	3.1	1499.9	0.20	98.71
60.0-61.0	30.5	2.9	1502.8	0.19	98.90
61.0-62.0	28.3	2.7	1505.5	0.18	99.08
62.0-63.0	25.7	2.5	1508.0	0.16	99.25
63.0-64.0	23.1	2.3	1510.3	0.15	99.40
64.0-65.0	20.8	2.1	1512.3	0.14	99.53
65.0-66.0	18.3	1.8	1514.2	0.12	99.65
66.0-67.0	16.1	1.6	1515.8	0.11	99.76
67.0-68.0	13.4	1.4	1517.1	0.09	99.85
68.0-69.0	10.4	1.1	1518.2	0.07	99.92
69.0-70.0	7.4	0.8	1519.0	0.05	99.97
70.0-71.0	3.8	0.4	1519.4	0.03	99.99
71.0-72.0	0.8	0.1	1519.4	0.01	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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	0.0	0.0	1519.4	0.00	100.00
73.0-74.0	0.0	0.0	1519.4	0.00	100.00
74.0-75.0	0.0	0.0	1519.4	0.00	100.00
75.0-76.0	0.0	0.0	1519.4	0.00	100.00
76.0-77.0	0.0	0.0	1519.4	0.00	100.00
77.0-78.0	0.0	0.0	1519.4	0.00	100.00
78.0-79.0	0.0	0.0	1519.4	0.00	100.00
79.0-80.0	0.0	0.0	1519.4	0.00	100.00
80.0-81.0	0.0	0.0	1519.4	0.00	100.00
81.0-82.0	0.0	0.0	1519.4	0.00	100.00
82.0-83.0	0.0	0.0	1519.4	0.00	100.00
83.0-84.0	0.0	0.0	1519.4	0.00	100.00
84.0-85.0	0.0	0.0	1519.4	0.00	100.00
85.0-86.0	0.0	0.0	1519.4	0.00	100.00
86.0-87.0	0.0	0.0	1519.4	0.00	100.00
87.0-88.0	0.0	0.0	1519.4	0.00	100.00
88.0-89.0	0.0	0.0	1519.4	0.00	100.00
89.0-90.0	0.0	0.0	1519.4	0.00	100.00
90.0-91.0	0.0	0.0	1519.4	0.00	100.00
91.0-92.0	0.0	0.0	1519.4	0.00	100.00
92.0-93.0	0.0	0.0	1519.4	0.00	100.00
93.0-94.0	0.0	0.0	1519.4	0.00	100.00
94.0-95.0	0.0	0.0	1519.4	0.00	100.00
95.0-96.0	0.0	0.0	1519.4	0.00	100.00
96.0-97.0	0.0	0.0	1519.4	0.00	100.00
97.0-98.0	0.0	0.0	1519.4	0.00	100.00
98.0-99.0	0.0	0.0	1519.4	0.00	100.00
99.0-100.0	0.0	0.0	1519.4	0.00	100.00
100.0-101.0	0.0	0.0	1519.4	0.00	100.00
101.0-102.0	0.0	0.0	1519.4	0.00	100.00
102.0-103.0	0.0	0.0	1519.4	0.00	100.00
103.0-104.0	0.0	0.0	1519.4	0.00	100.00
104.0-105.0	0.0	0.0	1519.4	0.00	100.00
105.0-106.0	0.0	0.0	1519.4	0.00	100.00
106.0-107.0	0.0	0.0	1519.4	0.00	100.00
107.0-108.0	0.0	0.0	1519.4	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 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	1519.4	0.00	100.00
109.0-110.0	0.0	0.0	1519.4	0.00	100.00
110.0-111.0	0.0	0.0	1519.4	0.00	100.00
111.0-112.0	0.0	0.0	1519.4	0.00	100.00
112.0-113.0	0.0	0.0	1519.4	0.00	100.00
113.0-114.0	0.0	0.0	1519.4	0.00	100.00
114.0-115.0	0.0	0.0	1519.4	0.00	100.00
115.0-116.0	0.0	0.0	1519.4	0.00	100.00
116.0-117.0	0.0	0.0	1519.4	0.00	100.00
117.0-118.0	0.0	0.0	1519.4	0.00	100.00
118.0-119.0	0.0	0.0	1519.4	0.00	100.00
119.0-120.0	0.0	0.0	1519.4	0.00	100.00
120.0-121.0	0.0	0.0	1519.4	0.00	100.00
121.0-122.0	0.0	0.0	1519.4	0.00	100.00
122.0-123.0	0.0	0.0	1519.4	0.00	100.00
123.0-124.0	0.0	0.0	1519.4	0.00	100.00
124.0-125.0	0.0	0.0	1519.4	0.00	100.00
125.0-126.0	0.0	0.0	1519.4	0.00	100.00
126.0-127.0	0.0	0.0	1519.4	0.00	100.00
127.0-128.0	0.0	0.0	1519.4	0.00	100.00
128.0-129.0	0.0	0.0	1519.4	0.00	100.00
129.0-130.0	0.0	0.0	1519.4	0.00	100.00
130.0-131.0	0.0	0.0	1519.4	0.00	100.00
131.0-132.0	0.0	0.0	1519.4	0.00	100.00
132.0-133.0	0.0	0.0	1519.4	0.00	100.00
133.0-134.0	0.0	0.0	1519.4	0.00	100.00
134.0-135.0	0.0	0.0	1519.4	0.00	100.00
135.0-136.0	0.0	0.0	1519.4	0.00	100.00
136.0-137.0	0.0	0.0	1519.4	0.00	100.00
137.0-138.0	0.0	0.0	1519.4	0.00	100.00
138.0-139.0	0.0	0.0	1519.4	0.00	100.00
139.0-140.0	0.0	0.0	1519.4	0.00	100.00
140.0-141.0	0.0	0.0	1519.4	0.00	100.00
141.0-142.0	0.0	0.0	1519.4	0.00	100.00
142.0-143.0	0.0	0.0	1519.4	0.00	100.00
143.0-144.0	0.0	0.0	1519.4	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 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	1519.4	0.00	100.00
145.0-146.0	0.0	0.0	1519.4	0.00	100.00
146.0-147.0	0.0	0.0	1519.4	0.00	100.00
147.0-148.0	0.0	0.0	1519.4	0.00	100.00
148.0-149.0	0.0	0.0	1519.4	0.00	100.00
149.0-150.0	0.0	0.0	1519.4	0.00	100.00
150.0-151.0	0.0	0.0	1519.4	0.00	100.00
151.0-152.0	0.0	0.0	1519.4	0.00	100.00
152.0-153.0	0.0	0.0	1519.4	0.00	100.00
153.0-154.0	0.0	0.0	1519.4	0.00	100.00
154.0-155.0	0.0	0.0	1519.4	0.00	100.00
155.0-156.0	0.0	0.0	1519.4	0.00	100.00
156.0-157.0	0.0	0.0	1519.4	0.00	100.00
157.0-158.0	0.0	0.0	1519.4	0.00	100.00
158.0-159.0	0.0	0.0	1519.4	0.00	100.00
159.0-160.0	0.0	0.0	1519.4	0.00	100.00
160.0-161.0	0.0	0.0	1519.4	0.00	100.00
161.0-162.0	0.0	0.0	1519.4	0.00	100.00
162.0-163.0	0.0	0.0	1519.4	0.00	100.00
163.0-164.0	0.0	0.0	1519.4	0.00	100.00
164.0-165.0	0.0	0.0	1519.4	0.00	100.00
165.0-166.0	0.0	0.0	1519.4	0.00	100.00
166.0-167.0	0.0	0.0	1519.4	0.00	100.00
167.0-168.0	0.0	0.0	1519.4	0.00	100.00
168.0-169.0	0.0	0.0	1519.4	0.00	100.00
169.0-170.0	0.0	0.0	1519.4	0.00	100.00
170.0-171.0	0.0	0.0	1519.4	0.00	100.00
171.0-172.0	0.0	0.0	1519.4	0.00	100.00
172.0-173.0	0.0	0.0	1519.4	0.00	100.00
173.0-174.0	0.0	0.0	1519.4	0.00	100.00
174.0-175.0	0.0	0.0	1519.4	0.00	100.00
175.0-176.0	0.0	0.0	1519.4	0.00	100.00
176.0-177.0	0.0	0.0	1519.4	0.00	100.00
177.0-178.0	0.0	0.0	1519.4	0.00	100.00
178.0-179.0	0.0	0.0	1519.4	0.00	100.00
179.0-180.0	0.0	0.0	1519.4	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°): 1446.03 lm

%lum = 95.2%

%lamp = 95.2%

cone flux(120°): 1499.88 lm

%lum = 98.7%

%lamp = 98.7%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	6697.5	6760.7	6801.8	6790.0	6775.3	6731.4	6697.5	6760.7	6801.8	6790.0
G1.0	6800.3	6822.5	6756.0	6712.8	6667.3	6640.1	6500.0	6555.9	6719.4	6730.5
G2.0	6775.8	6746.8	6577.6	6516.0	6477.1	6436.3	6240.9	6295.1	6521.7	6552.1
G3.0	6610.6	6565.5	6332.2	6265.6	6227.7	6209.7	5972.1	6024.3	6269.7	6293.3
G4.0	6359.6	6314.7	6044.3	5981.1	5933.4	5937.2	5671.7	5752.4	5973.1	5996.4
G5.0	6066.5	5986.8	5752.7	5641.8	5654.8	5676.7	5409.4	5468.3	5721.3	5690.4
G6.0	5739.5	5712.6	5451.8	5370.4	5393.5	5421.4	5162.1	5230.7	5456.8	5407.5
G7.0	5458.4	5437.0	5162.5	5094.6	5114.6	5145.8	4888.1	4972.1	5202.6	5128.8
G8.0	5182.8	5140.6	4851.5	4808.6	4824.6	4861.0	4511.8	4663.7	4920.2	4838.1
G9.0	4883.4	4780.8	4495.3	4447.1	4488.6	4528.0	4134.5	4298.9	4552.6	4503.3
G10.0	4536.3	4405.1	4080.9	4054.5	4113.7	4141.5	3696.1	3814.3	4159.3	4087.8
G11.0	4092.2	3958.9	3581.6	3649.6	3682.6	3726.7	3240.2	3351.6	3700.8	3676.9
G12.0	3638.3	3496.7	3153.8	3246.3	3274.9	3275.6	2825.6	2925.4	3236.9	3280.5
G13.0	3181.2	3003.3	2739.3	2840.2	2878.9	2857.2	2438.6	2520.8	2790.7	2866.9
G14.0	2743.5	2630.7	2371.1	2439.6	2501.6	2473.3	2080.2	2165.4	2371.1	2476.4
G15.0	2348.3	2232.6	2027.1	2122.0	2173.9	2140.1	1792.1	1826.3	2031.1	2103.8
G16.0	1977.1	1923.5	1764.3	1836.5	1861.5	1816.7	1547.2	1576.7	1750.1	1806.7
G17.0	1696.3	1651.2	1523.6	1594.8	1631.2	1574.3	1344.0	1355.6	1504.7	1548.6
G18.0	1462.7	1424.0	1323.3	1389.3	1405.8	1369.0	1160.7	1178.1	1287.2	1342.6
G19.0	1268.0	1216.1	1142.0	1203.6	1231.2	1194.4	1014.2	1012.5	1119.6	1154.6
G20.0	1087.8	1056.4	1011.8	1054.0	1080.9	1054.7	888.4	894.8	973.1	1006.1
G21.0	949.5	924.7	879.0	934.2	946.4	921.9	772.5	784.6	856.5	884.4
G22.0	830.8	802.5	776.8	821.6	839.8	814.1	683.1	690.9	753.7	777.5
G23.0	729.3	705.0	684.5	727.9	745.4	722.7	605.7	606.9	662.6	687.6
G24.0	642.8	619.9	595.3	646.8	656.7	631.7	527.6	530.4	578.6	607.6
G25.0	559.9	545.3	521.7	575.0	582.6	559.5	458.9	456.8	506.6	530.0
G26.0	489.9	476.6	456.6	509.0	515.8	492.7	403.0	396.2	444.3	469.6
G27.0	428.3	408.4	399.7	447.4	458.2	435.1	347.3	344.0	388.4	415.5
G28.0	369.8	352.8	342.1	392.4	402.1	380.4	302.7	295.7	337.2	362.9
G29.0	321.1	304.9	297.5	345.0	356.5	333.9	263.6	254.1	291.9	318.5
G30.0	280.5	264.3	261.4	303.7	317.1	295.4	228.2	219.0	251.5	279.1
G31.0	243.0	223.4	226.1	262.1	278.7	258.9	195.6	189.2	215.7	244.9
G32.0	206.9	191.1	193.5	231.2	243.5	222.3	168.9	162.1	187.1	211.7
G33.0	177.0	165.4	164.7	201.7	213.3	194.7	144.6	135.9	158.8	185.2
G34.0	151.3	140.6	141.1	175.1	186.9	169.4	122.2	113.7	135.2	160.2
G35.0	131.9	117.7	119.9	152.7	161.2	144.4	103.8	96.0	115.2	138.7
G36.0	111.4	101.5	103.1	130.7	141.6	124.6	86.1	80.0	98.2	119.9

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	95.1	85.2	88.0	112.3	120.6	105.5	73.6	66.3	81.4	104.1
G38.0	79.1	69.4	75.0	97.4	105.0	90.4	62.1	54.5	72.2	87.3
G39.0	68.7	60.6	66.5	83.1	91.3	80.9	54.5	45.8	60.9	77.6
G40.0	59.5	51.2	61.1	74.6	81.2	71.3	49.1	39.2	54.7	68.7
G41.0	53.3	45.1	55.7	70.1	71.0	64.7	42.9	34.2	49.1	61.1
G42.0	46.0	42.9	51.7	63.2	65.8	59.0	40.6	33.5	46.0	56.4
G43.0	43.4	40.6	47.0	57.8	61.6	52.8	39.9	34.7	44.4	53.8
G44.0	42.2	36.3	44.1	55.0	56.6	52.8	38.2	32.8	42.2	50.0
G45.0	39.6	36.1	44.4	51.7	53.6	52.2	38.2	33.5	42.9	48.4
G46.0	40.1	37.8	44.6	50.3	53.6	49.3	38.0	36.1	42.2	47.2
G47.0	40.8	39.2	45.5	49.8	50.7	47.9	39.4	35.4	42.5	47.4
G48.0	42.5	40.8	46.0	47.4	48.6	47.0	39.2	37.3	42.5	47.9
G49.0	41.5	42.2	44.8	46.7	49.5	47.7	40.3	38.9	42.9	48.4
G50.0	41.3	43.4	45.5	46.5	48.1	46.7	38.9	38.5	42.5	46.0
G51.0	44.8	43.9	45.5	46.7	47.0	48.8	38.0	37.3	43.4	46.3
G52.0	43.7	44.1	44.6	46.7	47.9	48.1	36.8	37.5	43.9	47.0
G53.0	42.5	43.9	43.9	46.0	43.7	47.2	37.3	35.6	43.4	46.5
G54.0	40.6	43.4	43.4	43.7	42.5	44.4	37.0	36.1	43.7	45.3
G55.0	39.6	42.5	43.2	42.2	41.8	42.9	36.1	35.4	40.8	43.7
G56.0	39.6	40.1	40.8	42.0	41.3	41.5	33.7	32.8	38.7	39.9
G57.0	35.9	39.2	40.3	40.3	38.7	38.5	31.1	31.9	38.5	38.9
G58.0	34.9	37.3	39.4	38.2	38.5	36.8	30.0	31.4	35.4	36.6
G59.0	33.7	34.7	37.8	35.6	35.6	34.9	27.8	28.8	35.2	33.5
G60.0	31.9	33.7	35.2	33.3	34.0	32.6	26.0	27.4	31.4	32.6
G61.0	28.3	31.1	32.1	32.3	31.1	31.4	24.5	26.4	27.8	28.5
G62.0	25.5	29.7	31.1	30.4	29.3	29.3	21.5	23.1	26.2	27.6
G63.0	24.8	25.3	28.3	26.4	25.0	25.7	18.6	19.1	24.8	25.0
G64.0	21.7	24.1	26.0	25.3	23.1	23.4	15.8	16.0	22.6	22.6
G65.0	18.9	23.8	22.4	21.0	18.9	21.0	13.2	14.9	19.6	20.8
G66.0	18.9	20.8	19.6	19.1	16.8	20.1	12.0	10.1	16.0	18.9
G67.0	16.5	17.0	17.5	17.5	15.8	17.7	11.3	0.0	16.0	17.0
G68.0	14.4	15.8	14.6	16.5	13.4	15.3	0.0	0.0	13.4	15.1
G69.0	13.0	13.4	12.5	13.0	10.1	14.2	0.0	0.0	10.4	9.7
G70.0	9.9	10.9	10.1	9.4	11.1	10.4	0.0	0.0	0.0	0.0
G71.0	9.4	0.0	0.0	0.0	0.0	10.9	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:

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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G95.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0
G146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G147.0	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 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	0.0	0.0	0.0
G149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G153.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G154.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G156.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G157.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G161.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	6775.3	6731.4	6697.5							
G1.0	6735.2	6721.5	6800.3							
G2.0	6562.0	6583.3	6775.8							
G3.0	6304.6	6333.4	6610.6							
G4.0	5984.6	6026.6	6359.6							
G5.0	5690.1	5713.3	6066.5							
G6.0	5383.9	5442.6	5739.5							
G7.0	5092.5	5134.0	5458.4							
G8.0	4738.5	4834.1	5182.8							
G9.0	4405.6	4466.9	4883.4							
G10.0	4026.4	4067.5	4536.3							
G11.0	3644.4	3659.3	4092.2							
G12.0	3247.5	3204.1	3638.3							
G13.0	2823.0	2830.6	3181.2							
G14.0	2433.2	2419.1	2743.5							
G15.0	2084.9	2067.0	2348.3							
G16.0	1813.3	1776.8	1977.1							
G17.0	1541.8	1513.4	1696.3							
G18.0	1338.6	1309.6	1462.7							
G19.0	1171.5	1144.6	1268.0							
G20.0	1019.8	996.0	1087.8							
G21.0	895.9	874.5	949.5							
G22.0	778.2	766.2	830.8							
G23.0	682.9	666.3	729.3							
G24.0	603.6	585.7	642.8							
G25.0	530.9	516.3	559.9							
G26.0	470.3	454.2	489.9							
G27.0	414.3	394.5	428.3							
G28.0	364.3	345.7	369.8							
G29.0	323.7	304.6	321.1							
G30.0	284.6	264.8	280.5							
G31.0	248.0	228.2	243.0							
G32.0	217.3	198.4	206.9							
G33.0	189.9	173.0	177.0							
G34.0	165.9	149.8	151.3							
G35.0	145.1	128.4	131.9							
G36.0	123.9	109.3	111.4							

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:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	108.8	93.7	95.1							
G38.0	94.6	83.3	79.1							
G39.0	82.8	72.0	68.7							
G40.0	74.3	67.0	59.5							
G41.0	67.3	60.2	53.3							
G42.0	61.3	53.8	46.0							
G43.0	58.5	50.3	43.4							
G44.0	55.2	48.4	42.2							
G45.0	52.2	45.3	39.6							
G46.0	51.0	45.5	40.1							
G47.0	48.6	47.2	40.8							
G48.0	48.8	45.5	42.5							
G49.0	48.1	47.0	41.5							
G50.0	48.8	46.5	41.3							
G51.0	48.1	47.0	44.8							
G52.0	47.0	45.3	43.7							
G53.0	48.4	44.8	42.5							
G54.0	44.6	43.7	40.6							
G55.0	43.2	42.2	39.6							
G56.0	40.6	40.8	39.6							
G57.0	39.4	38.2	35.9							
G58.0	35.2	34.9	34.9							
G59.0	33.3	33.5	33.7							
G60.0	31.9	32.1	31.9							
G61.0	28.1	29.5	28.3							
G62.0	25.7	28.1	25.5							
G63.0	21.9	23.4	24.8							
G64.0	20.8	23.6	21.7							
G65.0	17.5	21.2	18.9							
G66.0	15.1	19.8	18.9							
G67.0	15.1	16.8	16.5							
G68.0	11.1	12.7	14.4							
G69.0	0.0	10.4	13.0							
G70.0	0.0	9.7	9.9							
G71.0	0.0	0.0	9.4							
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	0.0	0.0	0.0							
G149.0	0.0	0.0	0.0							
G150.0	0.0	0.0	0.0							
G151.0	0.0	0.0	0.0							
G152.0	0.0	0.0	0.0							
G153.0	0.0	0.0	0.0							
G154.0	0.0	0.0	0.0							
G155.0	0.0	0.0	0.0							
G156.0	0.0	0.0	0.0							
G157.0	0.0	0.0	0.0							
G158.0	0.0	0.0	0.0							
G159.0	0.0	0.0	0.0							
G160.0	0.0	0.0	0.0							
G161.0	0.0	0.0	0.0							
G162.0	0.0	0.0	0.0							
G163.0	0.0	0.0	0.0							
G164.0	0.0	0.0	0.0							
G165.0	0.0	0.0	0.0							
G166.0	0.0	0.0	0.0							
G167.0	0.0	0.0	0.0							
G168.0	0.0	0.0	0.0							
G169.0	0.0	0.0	0.0							
G170.0	0.0	0.0	0.0							
G171.0	0.0	0.0	0.0							
G172.0	0.0	0.0	0.0							
G173.0	0.0	0.0	0.0							
G174.0	0.0	0.0	0.0							
G175.0	0.0	0.0	0.0							
G176.0	0.0	0.0	0.0							
G177.0	0.0	0.0	0.0							
G178.0	0.0	0.0	0.0							
G179.0	0.0	0.0	0.0							
G180.0	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:

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