

Report No.:

Test Time: 2019-01-21 10:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 20043L-LEDD

Current: 0.137 A

Power Factor: 0.901

Voltage: 119.6 V

Power: 14.80 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 668.7 lm

Downward Ratio: 66%

Horizontal Diffuse Angle(25%,50%,75%): H217.7,H122.4,H81.1

Vertical Diffuse Angle(25%,50%,75%): V205.5,V174.5,V100.2

Luminaire Efficacy Rating (LER): 45.23

Max. Intensity: 424.03 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 668.7 lm

Efficiency: 100%

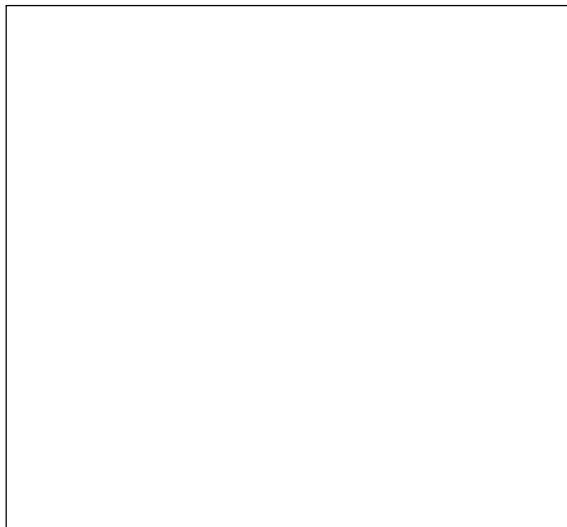
Upward Ratio: 34%

Central Intensity: 16.08 cd

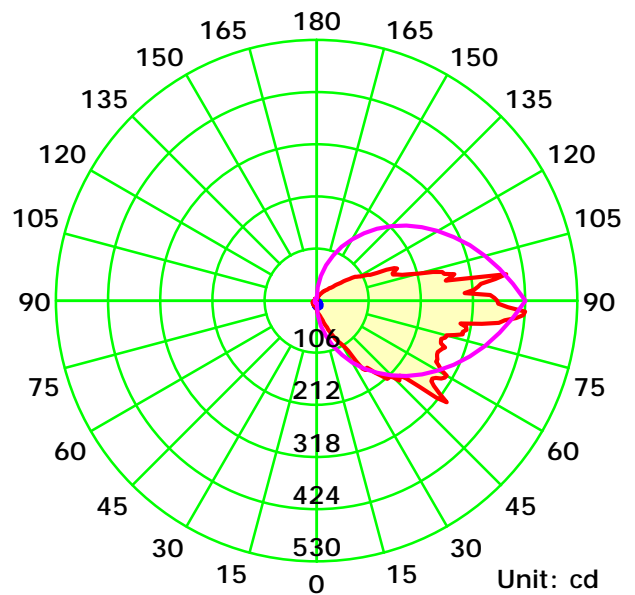
Pos of Max. Intensity: H90 V87

S/MH(C90/C270): 4.60

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G87

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

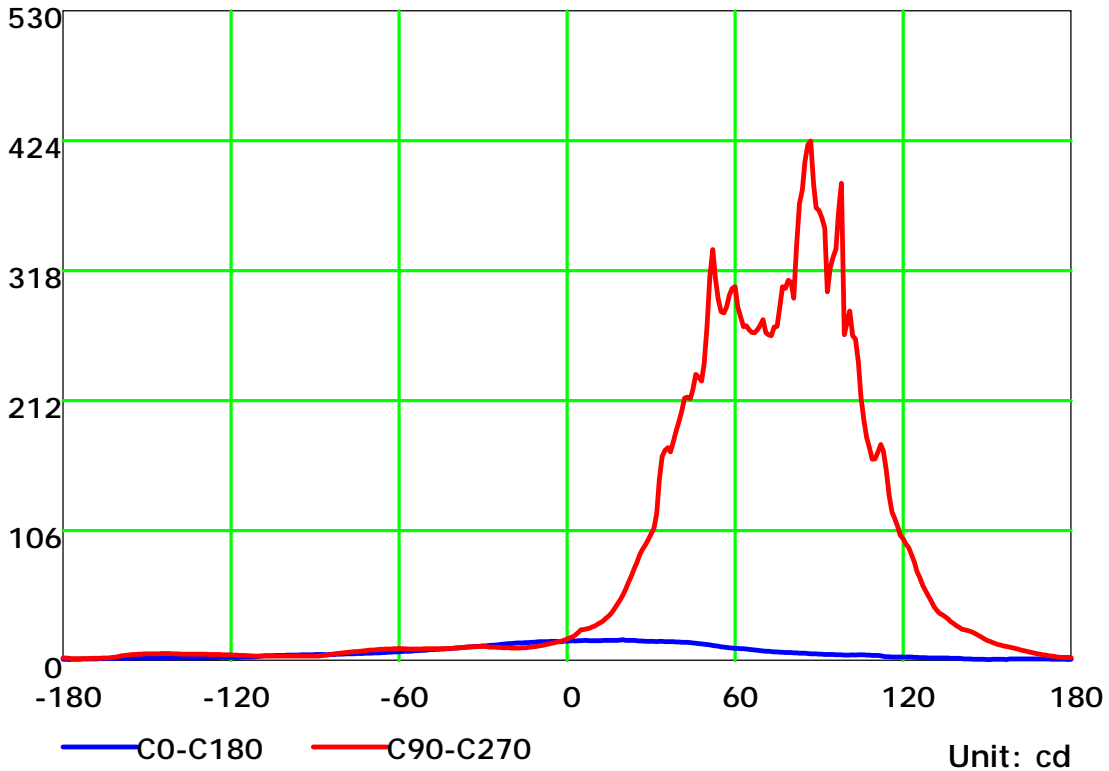
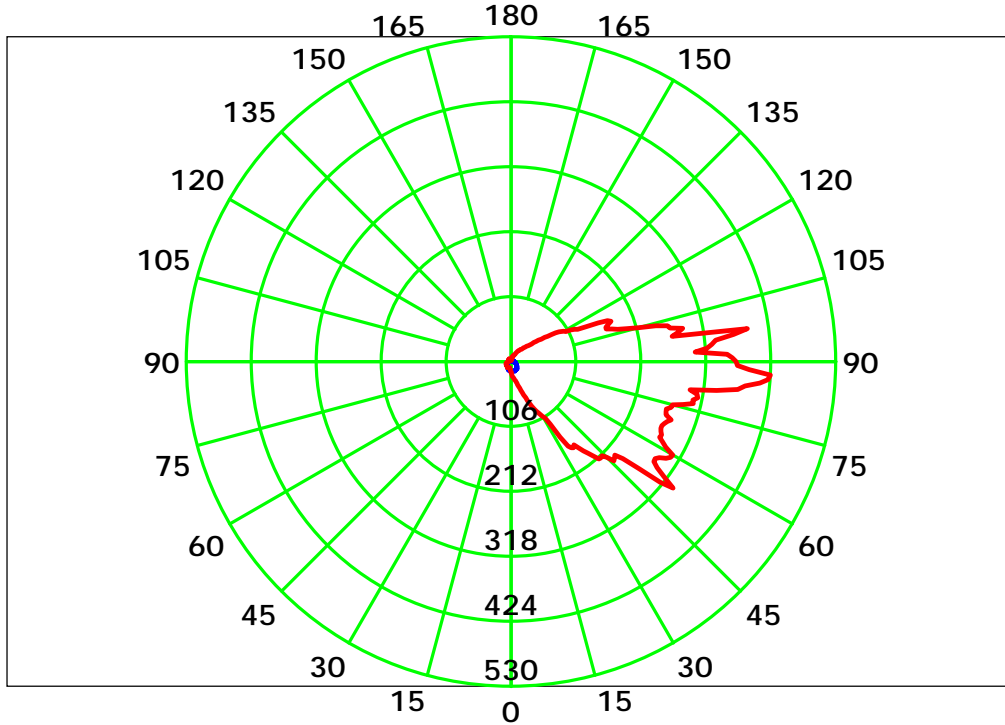
Test Device: GPM-1600

Distance: 7.255 m

Humidity:

Inspector:

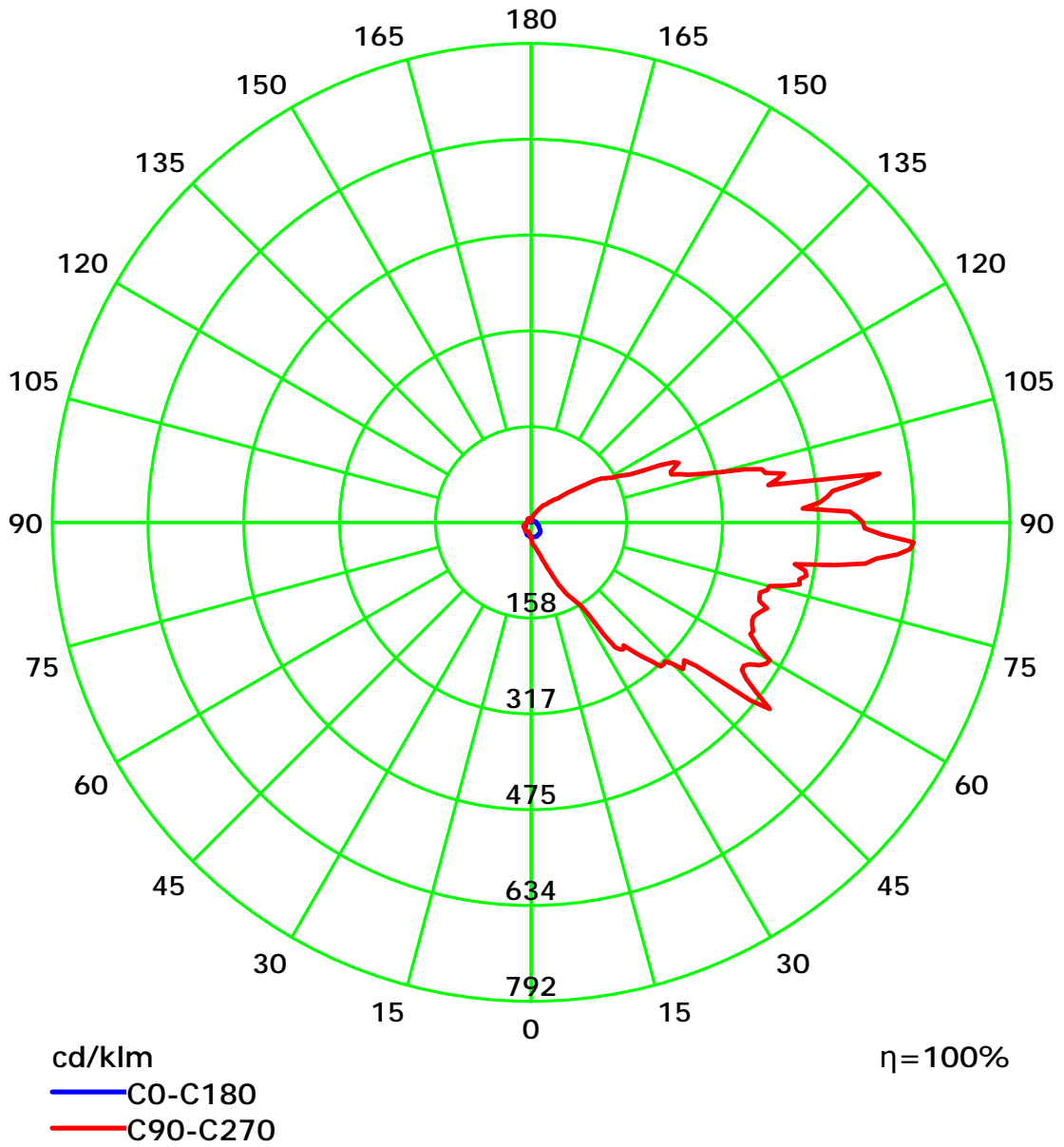
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



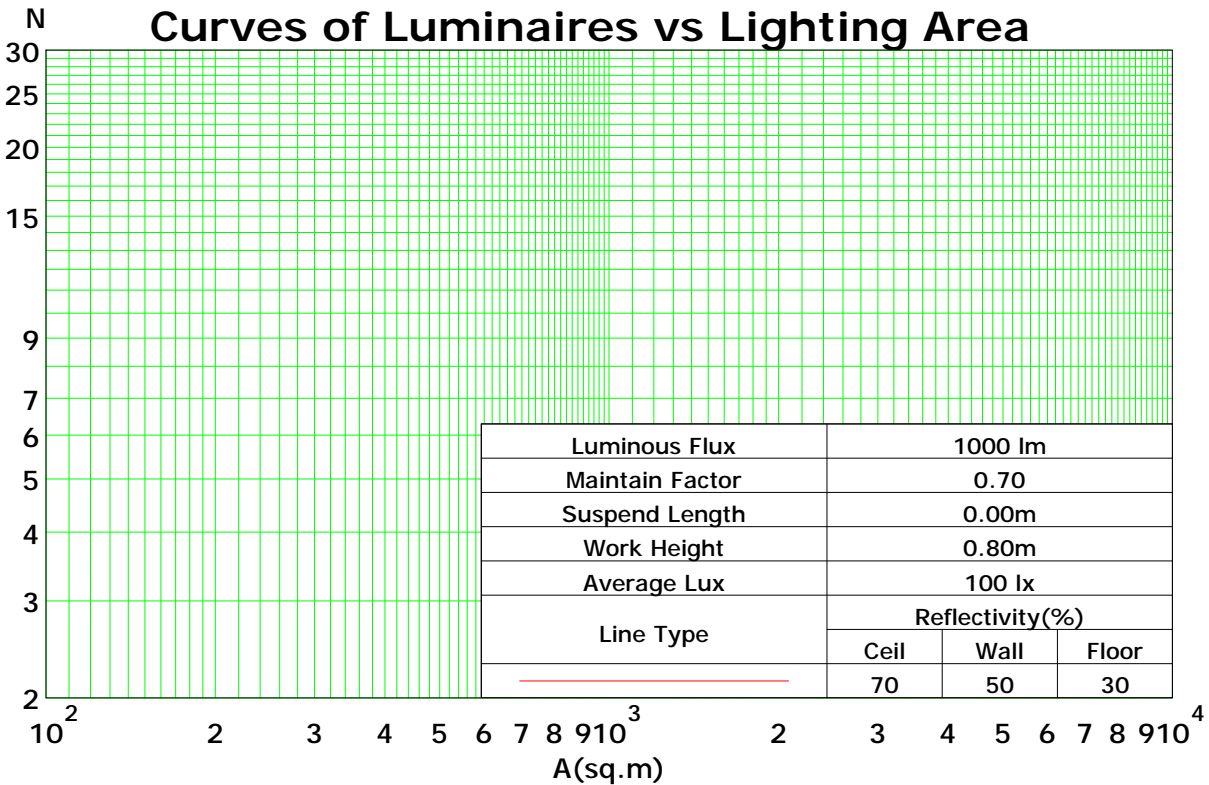
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600
Distance: 7.255 m
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	94	86	79	73	87	80	74	68	69	64	60	59	55	52	50	47	44	39
2	82	71	62	54	76	66	58	50	57	50	44	48	43	38	40	36	32	27
3	74	60	50	42	68	56	47	39	48	40	34	40	34	29	33	28	24	20
4	66	52	41	33	61	48	39	31	41	33	27	35	28	23	28	23	19	15
5	60	45	35	27	55	42	32	25	36	28	22	30	24	18	25	19	15	12
6	55	40	30	23	51	37	28	21	32	24	18	27	20	15	22	17	12	9
7	50	36	26	19	47	33	24	18	28	21	15	24	18	13	20	14	10	8
8	47	32	23	16	43	30	21	15	25	18	13	22	15	11	18	13	9	6
9	43	29	20	14	40	27	19	13	23	16	11	20	14	9	16	11	8	5
10	40	26	18	12	37	24	17	11	21	14	10	18	12	8	15	10	7	4

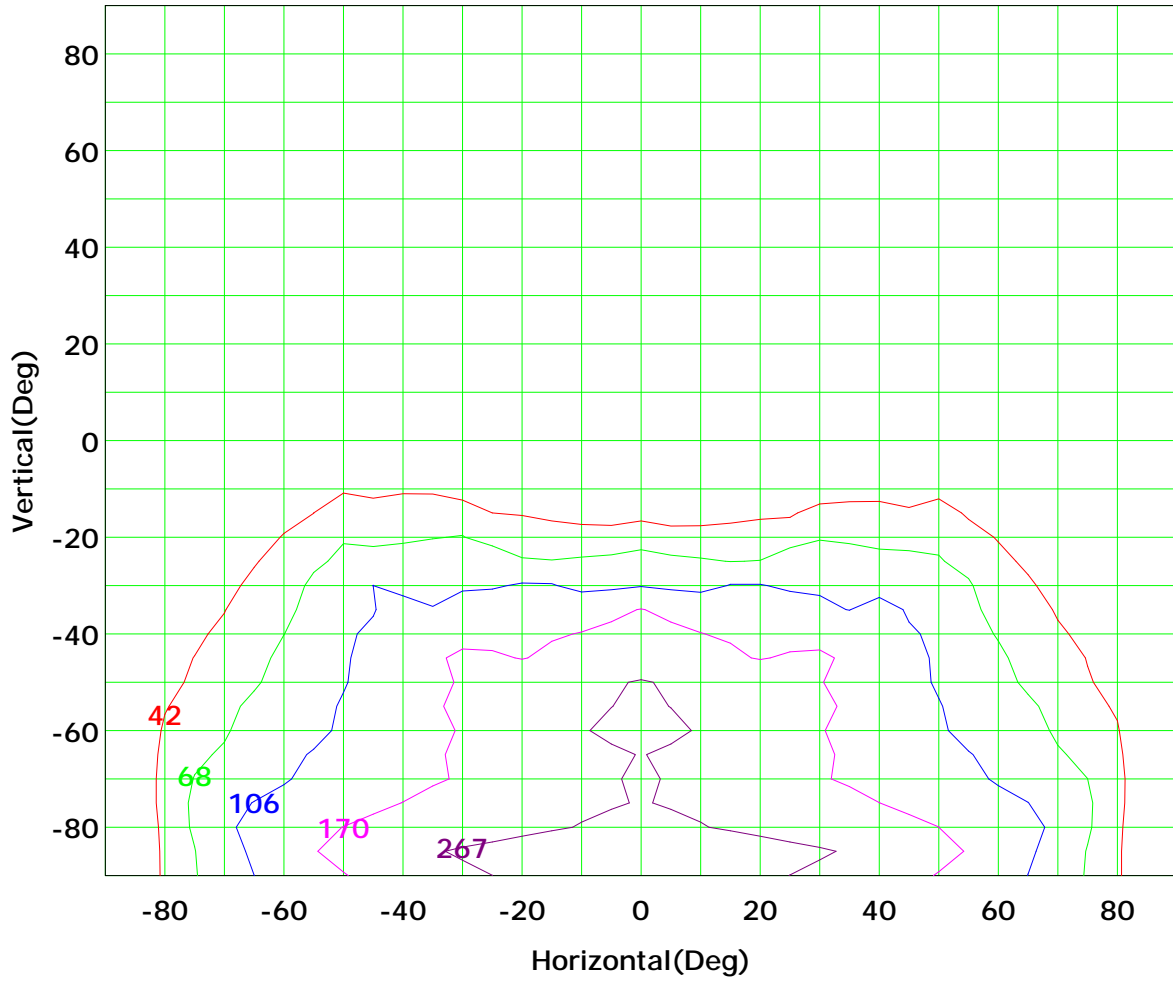
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 4.60
 Spacing Criteria (Diagonal): 3.45



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Isocandela (rectangle)



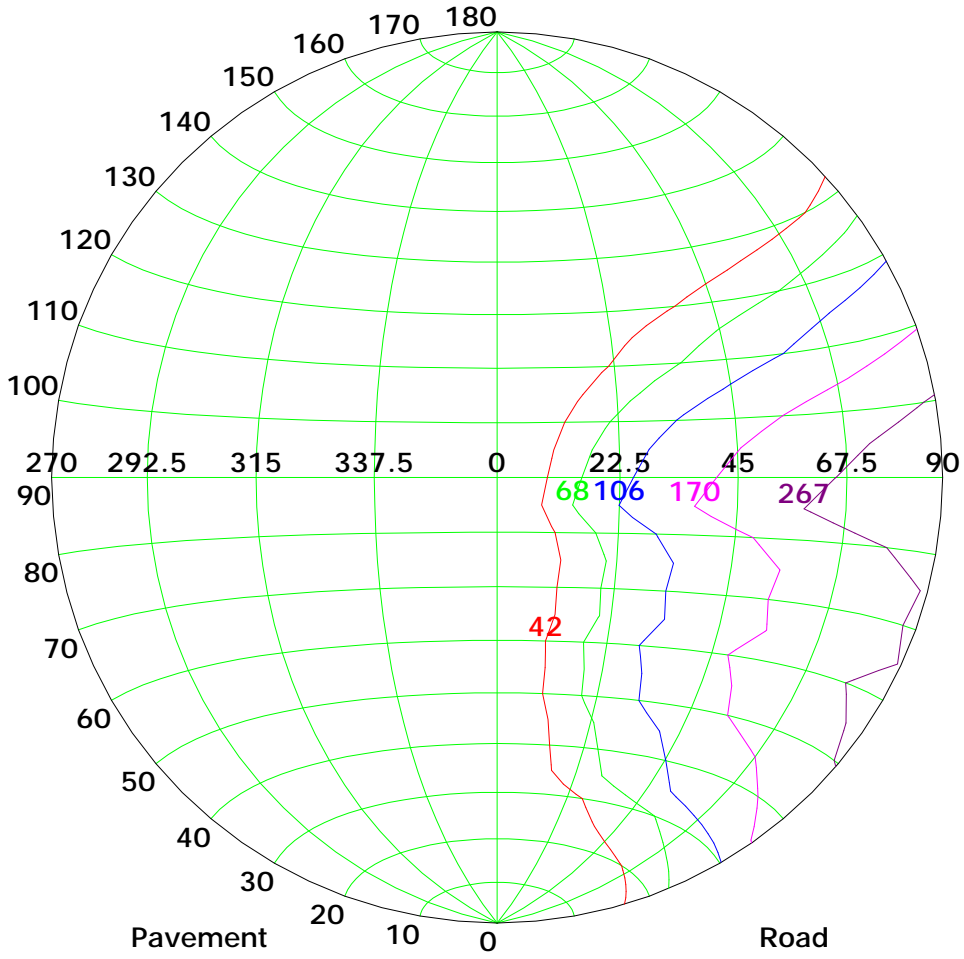
Imax (100%): 424 cd

— (10%):	42 cd	— (16%):	68 cd
— (25%):	106 cd	— (40%):	170 cd
— (63%):	267 cd	— (100%):	424 cd

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Isocandela (sphere)



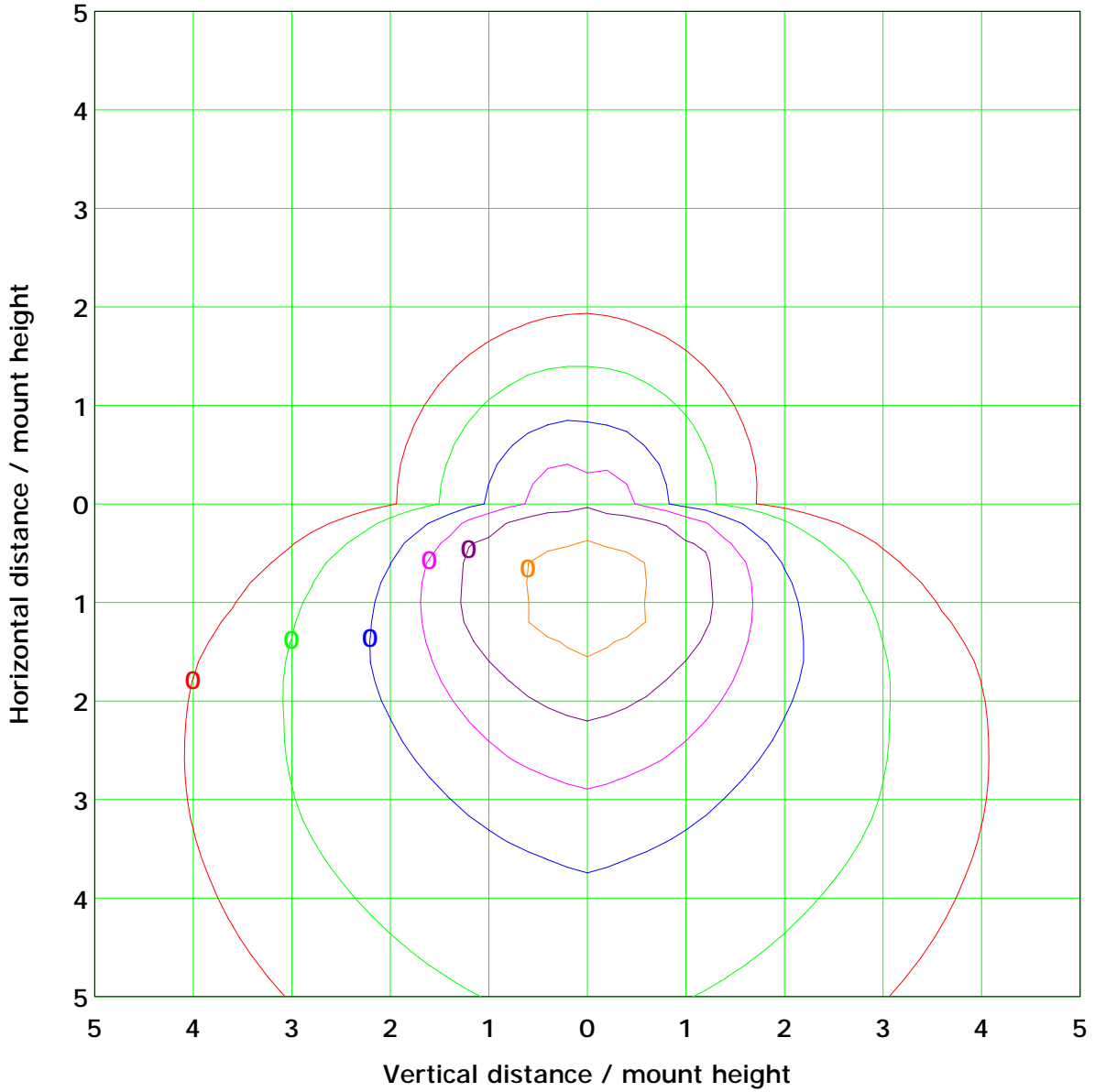
Imax (100%): 424 cd

- | | |
|------------------|------------------|
| — (10%): 42 cd | — (16%): 68 cd |
| — (25%): 106 cd | — (40%): 170 cd |
| — (63%): 267 cd | — (100%): 424 cd |

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.9 lx

(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.0 lx	(10%): 0.1 lx
(20%): 0.2 lx	(50%): 0.5 lx
(100%): 0.9 lx	

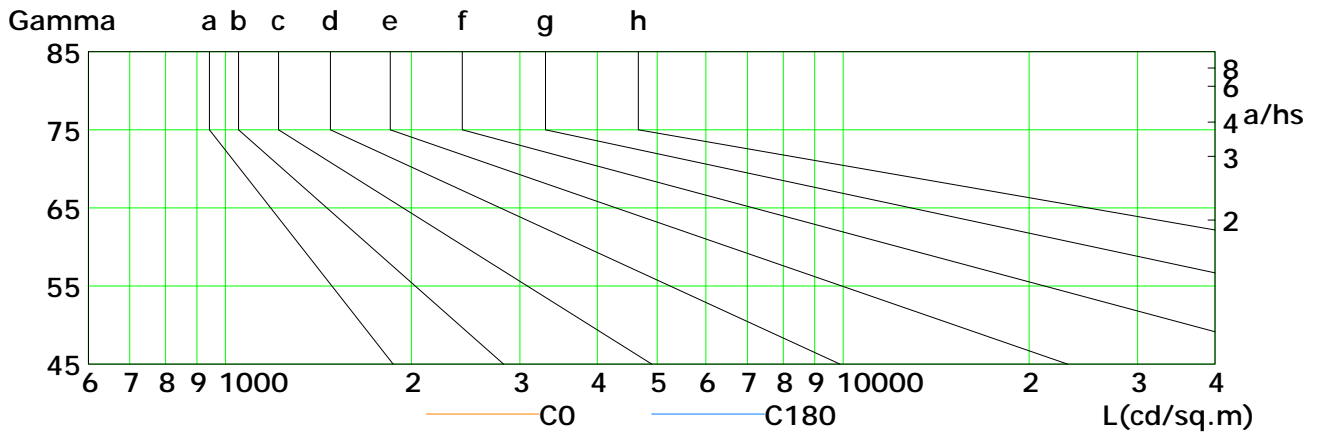
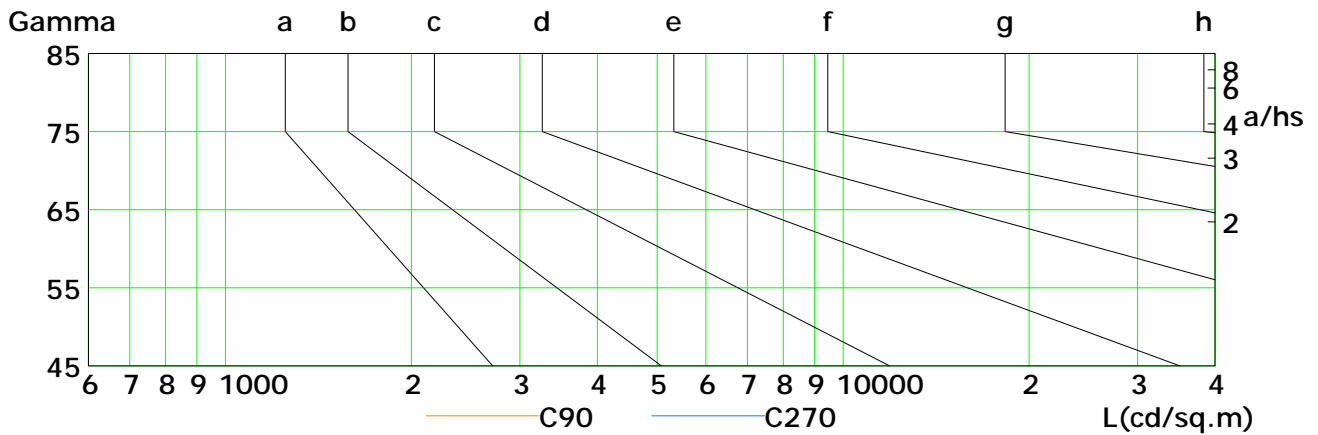
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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

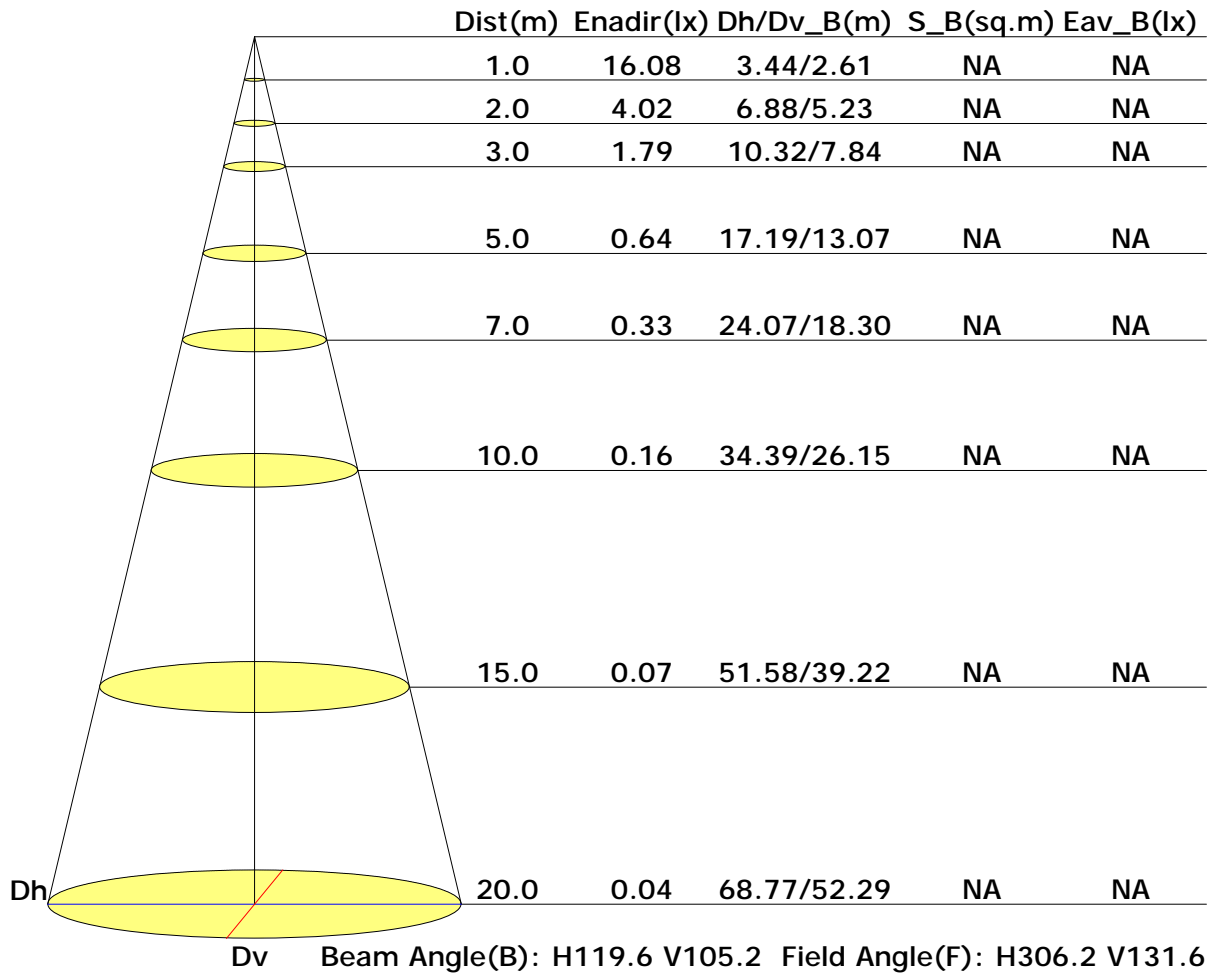


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	15	13	11	10	9	8	7	7	6
C90	221	272	285	305	270	278	273	309	407
C180	9	9	8	7	7	6	6	5	5
C270	10	10	10	10	9	9	8	6	5

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

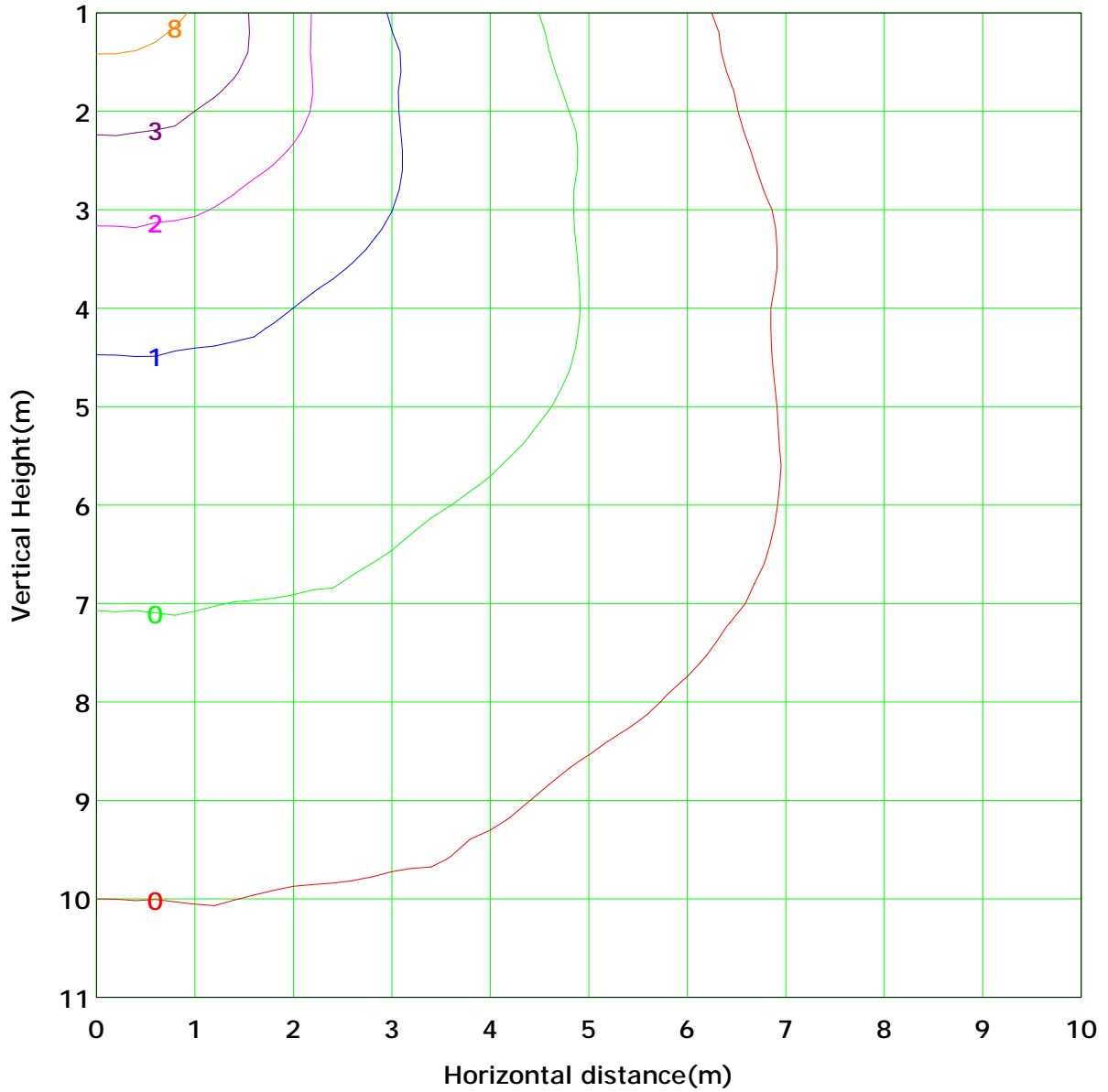
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0: 1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Vertical IsoLux Plot

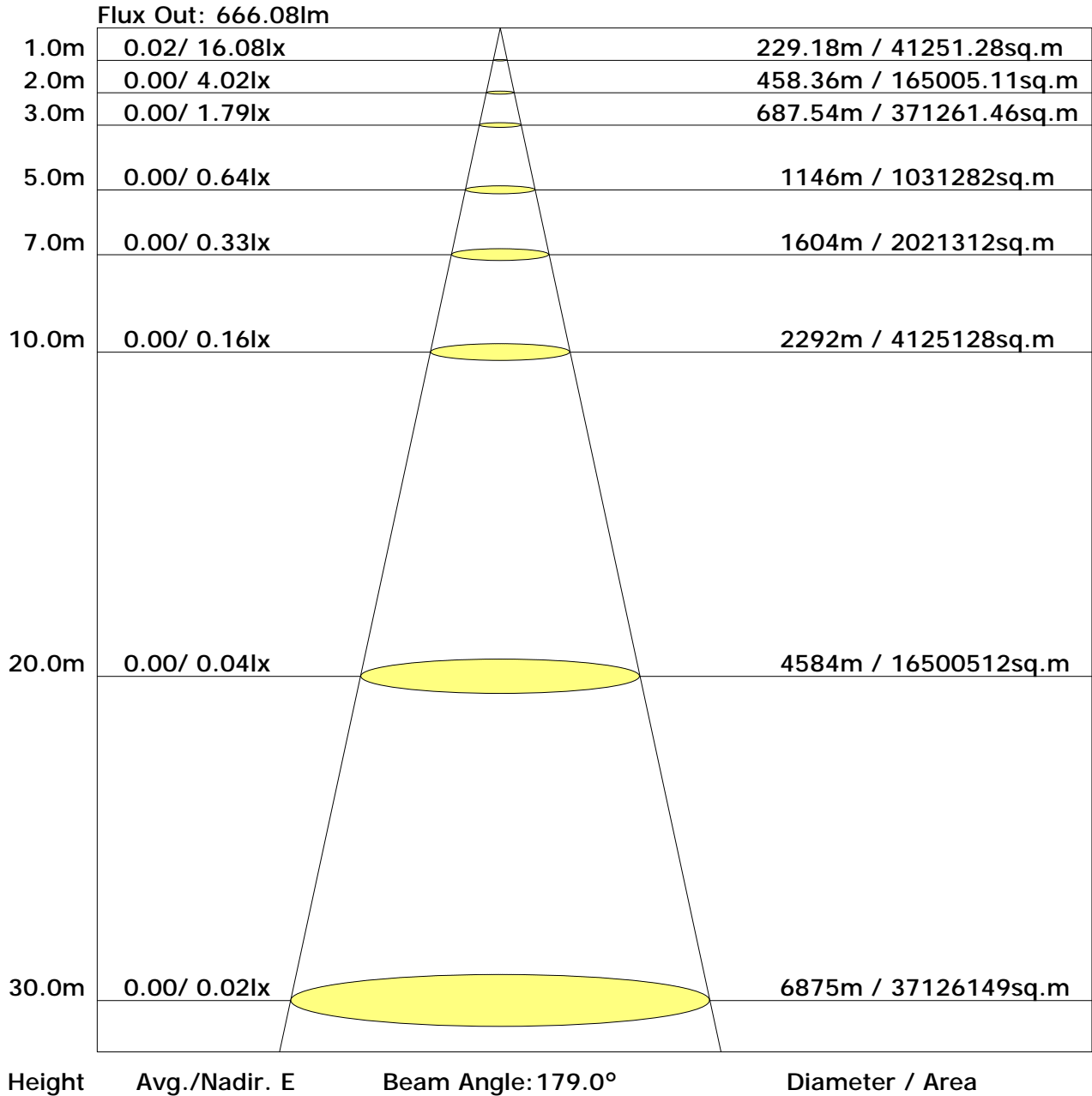


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 16.1 lx
(1%): 0.2 lx	(2%): 0.3 lx	
(5%): 0.8 lx	(10%): 1.6 lx	
(20%): 3.2 lx	(50%): 8.0 lx	
(100%): 16.1 lx		

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

UGR Table

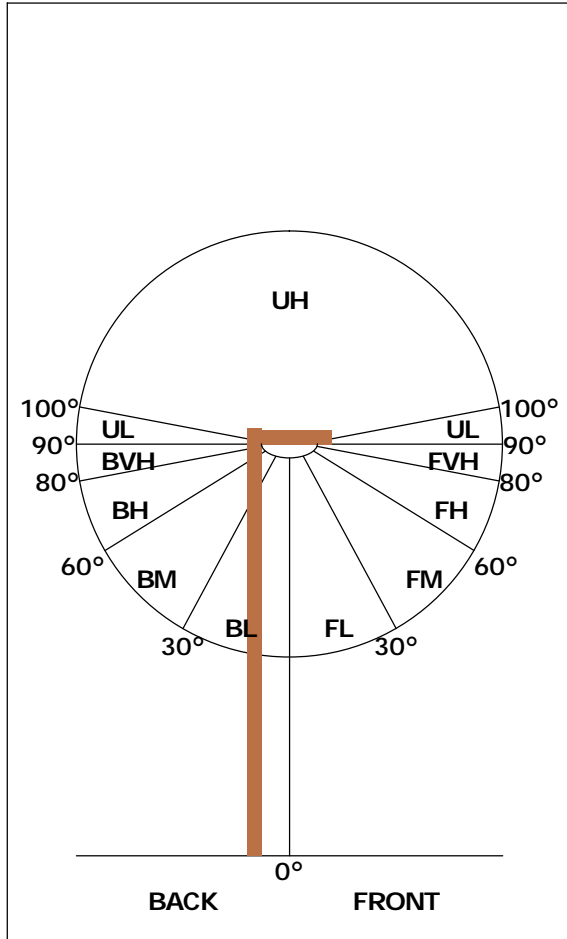
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 669Im ($8\log(F/F_0) = -1.4$).

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	409	61.2
FL (0°-30°)	16	2.4
FM (30°-60°)	142	21.3
FH (60°-80°)	147	22.0
FVH (80°-90°)	104	15.5
BACK LIGHT	29	4.3
BL (0°-30°)	6	0.8
BM (30°-60°)	12	1.9
BH (60°-80°)	8	1.2
BVH (80°-90°)	3	0.4
UP LIGHT	231	34.5
UL (90°-100°)	95	14.2
UH (100°-180°)	136	20.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U3 G1

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 2.50								
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	0.51	0.56	0.63	0.68	0.72	0.77	0.81
	0.30		NA	NA	0.43	0.47	0.54	0.60	0.64	0.70	0.75
	0.20		NA	NA	0.35	0.40	0.47	0.53	0.58	0.64	0.69
0.50	0.50	0.20	NA	NA	0.45	0.48	0.54	0.59	0.62	0.67	0.70
	0.30		NA	NA	0.37	0.41	0.47	0.52	0.56	0.61	0.65
	0.20		NA	NA	0.31	0.35	0.42	0.47	0.51	0.56	0.61
0.30	0.50	0.20	NA	NA	0.38	0.41	0.46	0.50	0.53	0.57	0.60
	0.30		NA	NA	0.32	0.35	0.41	0.45	0.48	0.53	0.56
	0.20		NA	NA	0.27	0.30	0.36	0.41	0.44	0.49	0.53
0.00	0.00	0.00	NA	NA	0.20	0.22	0.27	0.31	0.33	0.37	0.41
<p>Rating: 15W 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: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 2.50									
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	0.85	0.78	0.66	0.58	0.52	0.43	0.37	
	0.30		NA	NA	0.74	0.69	0.60	0.53	0.48	0.41	0.35	
	0.20		NA	NA	0.66	0.62	0.55	0.49	0.45	0.38	0.34	
0.50	0.50	0.20	NA	NA	0.77	0.71	0.60	0.54	0.48	0.40	0.35	
	0.30		NA	NA	0.68	0.64	0.55	0.49	0.45	0.38	0.33	
	0.20		NA	NA	0.61	0.58	0.51	0.46	0.42	0.36	0.32	
0.30	0.50	0.20	NA	NA	0.70	0.64	0.55	0.49	0.44	0.37	0.32	
	0.30		NA	NA	0.63	0.58	0.51	0.45	0.41	0.35	0.31	
	0.20		NA	NA	0.57	0.53	0.47	0.43	0.39	0.34	0.30	
0.00	0.00	0.00	0.66	0.66	0.46	0.44	0.39	0.35	0.33	0.28	0.25	
<p>Rating: 15W 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: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 2.50								
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	0.52	0.53	0.54	0.54	0.55	0.55	0.55
	0.30		NA	NA	0.45	0.46	0.47	0.48	0.49	0.50	0.51
	0.20		NA	NA	0.39	0.40	0.42	0.43	0.44	0.46	0.47
0.50	0.50	0.20	NA	NA	0.50	0.51	0.52	0.52	0.52	0.53	0.53
	0.30		NA	NA	0.44	0.45	0.46	0.47	0.47	0.48	0.49
	0.20		NA	NA	0.39	0.40	0.41	0.42	0.43	0.44	0.45
0.30	0.50	0.20	NA	NA	0.49	0.49	0.50	0.50	0.50	0.51	0.51
	0.30		NA	NA	0.43	0.44	0.45	0.45	0.46	0.47	0.47
	0.20		NA	NA	0.38	0.39	0.40	0.41	0.42	0.43	0.44
0.00	0.00	0.00	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
<p>Rating: 15W 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: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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	16.8	0.0	0.0	0.00	0.00
1.0-2.0	16.9	0.0	0.1	0.01	0.01
2.0-3.0	17.0	0.1	0.1	0.01	0.02
3.0-4.0	17.3	0.1	0.3	0.02	0.04
4.0-5.0	17.7	0.2	0.4	0.02	0.06
5.0-6.0	17.9	0.2	0.6	0.03	0.09
6.0-7.0	17.9	0.2	0.8	0.03	0.12
7.0-8.0	17.9	0.3	1.1	0.04	0.16
8.0-9.0	17.9	0.3	1.4	0.04	0.21
9.0-10.0	18.0	0.3	1.7	0.05	0.25
10.0-11.0	18.1	0.4	2.1	0.05	0.31
11.0-12.0	18.4	0.4	2.5	0.06	0.37
12.0-13.0	18.6	0.4	2.9	0.07	0.43
13.0-14.0	19.0	0.5	3.4	0.07	0.51
14.0-15.0	19.5	0.5	3.9	0.08	0.59
15.0-16.0	20.0	0.6	4.5	0.09	0.67
16.0-17.0	20.6	0.6	5.2	0.10	0.77
17.0-18.0	21.4	0.7	5.9	0.11	0.88
18.0-19.0	22.3	0.8	6.6	0.12	0.99
19.0-20.0	23.3	0.9	7.5	0.13	1.12
20.0-21.0	24.4	0.9	8.4	0.14	1.26
21.0-22.0	25.5	1.0	9.5	0.15	1.41
22.0-23.0	26.8	1.1	10.6	0.17	1.58
23.0-24.0	28.2	1.2	11.8	0.18	1.77
24.0-25.0	29.5	1.3	13.2	0.20	1.97
25.0-26.0	30.8	1.5	14.6	0.22	2.18
26.0-27.0	32.1	1.6	16.2	0.23	2.42
27.0-28.0	33.1	1.7	17.9	0.25	2.67
28.0-29.0	34.0	1.8	19.6	0.27	2.94
29.0-30.0	35.1	1.9	21.5	0.28	3.22
30.0-31.0	36.2	2.0	23.5	0.30	3.52
31.0-32.0	38.3	2.2	25.7	0.33	3.85
32.0-33.0	43.2	2.5	28.3	0.38	4.23
33.0-34.0	48.9	3.0	31.2	0.44	4.67
34.0-35.0	51.9	3.2	34.5	0.48	5.15
35.0-36.0	52.6	3.4	37.8	0.50	5.65

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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	52.4	3.4	41.2	0.51	6.17
37.0-38.0	52.9	3.5	44.8	0.53	6.69
38.0-39.0	54.9	3.8	48.5	0.56	7.25
39.0-40.0	56.9	4.0	52.5	0.59	7.85
40.0-41.0	58.8	4.2	56.7	0.63	8.47
41.0-42.0	61.0	4.4	61.1	0.66	9.14
42.0-43.0	62.4	4.6	65.7	0.69	9.83
43.0-44.0	62.2	4.7	70.4	0.70	10.53
44.0-45.0	62.9	4.8	75.3	0.72	11.25
45.0-46.0	65.3	5.1	80.4	0.76	12.02
46.0-47.0	66.4	5.3	85.6	0.79	12.81
47.0-48.0	65.6	5.3	90.9	0.79	13.60
48.0-49.0	66.8	5.5	96.4	0.82	14.42
49.0-50.0	72.2	6.0	102.5	0.90	15.32
50.0-51.0	81.1	6.9	109.3	1.03	16.35
51.0-52.0	88.8	7.6	116.9	1.14	17.49
52.0-53.0	88.6	7.7	124.6	1.15	18.64
53.0-54.0	83.4	7.3	132.0	1.10	19.74
54.0-55.0	79.8	7.1	139.1	1.06	20.80
55.0-56.0	78.2	7.1	146.2	1.06	21.86
56.0-57.0	78.6	7.2	153.4	1.08	22.94
57.0-58.0	80.4	7.4	160.8	1.11	24.05
58.0-59.0	82.2	7.7	168.5	1.15	25.20
59.0-60.0	83.0	7.8	176.3	1.17	26.37
60.0-61.0	81.0	7.7	184.1	1.16	27.53
61.0-62.0	77.9	7.5	191.6	1.12	28.65
62.0-63.0	75.7	7.4	198.9	1.10	29.75
63.0-64.0	74.7	7.3	206.3	1.10	30.85
64.0-65.0	74.4	7.4	213.6	1.10	31.95
65.0-66.0	73.6	7.3	221.0	1.10	33.04
66.0-67.0	73.1	7.4	228.3	1.10	34.14
67.0-68.0	73.3	7.4	235.8	1.11	35.25
68.0-69.0	73.9	7.5	243.3	1.13	36.38
69.0-70.0	74.8	7.7	251.0	1.15	37.53
70.0-71.0	73.9	7.6	258.6	1.14	38.67
71.0-72.0	72.2	7.5	266.1	1.12	39.79

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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	71.8	7.5	273.6	1.12	40.92
73.0-74.0	72.4	7.6	281.2	1.14	42.06
74.0-75.0	73.3	7.7	289.0	1.16	43.21
75.0-76.0	75.3	8.0	297.0	1.20	44.41
76.0-77.0	79.2	8.4	305.4	1.26	45.67
77.0-78.0	80.9	8.7	314.1	1.30	46.97
78.0-79.0	81.5	8.8	322.9	1.31	48.28
79.0-80.0	82.0	8.8	331.7	1.32	49.60
80.0-81.0	80.0	8.7	340.3	1.29	50.90
81.0-82.0	83.7	9.1	349.4	1.36	52.25
82.0-83.0	93.3	10.1	359.6	1.52	53.77
83.0-84.0	98.8	10.8	370.3	1.61	55.38
84.0-85.0	103.0	11.2	381.6	1.68	57.06
85.0-86.0	107.4	11.7	393.3	1.76	58.82
86.0-87.0	109.4	12.0	405.3	1.79	60.61
87.0-88.0	105.3	11.5	416.8	1.73	62.34
88.0-89.0	98.4	10.8	427.6	1.61	63.95
89.0-90.0	95.6	10.5	438.1	1.57	65.52
90.0-91.0	94.6	10.4	448.5	1.55	67.07
91.0-92.0	92.7	10.2	458.7	1.52	68.59
92.0-93.0	85.1	9.3	468.0	1.40	69.98
93.0-94.0	81.1	8.9	476.9	1.33	71.31
94.0-95.0	84.6	9.2	486.1	1.38	72.69
95.0-96.0	86.5	9.4	495.5	1.41	74.10
96.0-97.0	91.0	9.9	505.5	1.48	75.59
97.0-98.0	97.7	10.6	516.1	1.59	77.18
98.0-99.0	85.2	9.2	525.3	1.38	78.56
99.0-100.0	71.0	7.7	533.0	1.15	79.71
100.0-101.0	73.4	7.9	540.9	1.18	80.89
101.0-102.0	72.0	7.7	548.7	1.16	82.05
102.0-103.0	69.1	7.4	556.1	1.11	83.15
103.0-104.0	66.4	7.1	563.1	1.06	84.21
104.0-105.0	60.5	6.4	569.6	0.96	85.17
105.0-106.0	54.6	5.8	575.3	0.86	86.04
106.0-107.0	50.4	5.3	580.6	0.79	86.83
107.0-108.0	47.5	5.0	585.6	0.74	87.57

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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	45.2	4.7	590.3	0.70	88.27
109.0-110.0	44.1	4.6	594.9	0.68	88.96
110.0-111.0	44.7	4.6	599.4	0.69	89.64
111.0-112.0	46.1	4.7	604.1	0.70	90.35
112.0-113.0	46.1	4.7	608.8	0.70	91.04
113.0-114.0	43.4	4.4	613.2	0.65	91.70
114.0-115.0	38.9	3.9	617.1	0.58	92.28
115.0-116.0	34.6	3.4	620.5	0.51	92.79
116.0-117.0	32.3	3.2	623.7	0.47	93.26
117.0-118.0	30.9	3.0	626.7	0.45	93.71
118.0-119.0	29.2	2.8	629.5	0.42	94.13
119.0-120.0	27.8	2.7	632.1	0.40	94.53
120.0-121.0	27.0	2.5	634.7	0.38	94.91
121.0-122.0	26.1	2.4	637.1	0.36	95.28
122.0-123.0	25.0	2.3	639.4	0.35	95.62
123.0-124.0	23.5	2.1	641.6	0.32	95.94
124.0-125.0	21.7	2.0	643.5	0.29	96.24
125.0-126.0	20.1	1.8	645.3	0.27	96.51
126.0-127.0	18.7	1.6	647.0	0.25	96.75
127.0-128.0	17.3	1.5	648.5	0.23	96.98
128.0-129.0	16.2	1.4	649.9	0.21	97.19
129.0-130.0	15.2	1.3	651.2	0.19	97.38
130.0-131.0	14.1	1.2	652.4	0.18	97.56
131.0-132.0	13.2	1.1	653.4	0.16	97.72
132.0-133.0	12.5	1.0	654.4	0.15	97.87
133.0-134.0	12.0	1.0	655.4	0.14	98.01
134.0-135.0	11.7	0.9	656.3	0.14	98.15
135.0-136.0	11.2	0.9	657.2	0.13	98.28
136.0-137.0	10.7	0.8	658.0	0.12	98.40
137.0-138.0	10.2	0.8	658.7	0.11	98.51
138.0-139.0	9.8	0.7	659.5	0.11	98.62
139.0-140.0	9.4	0.7	660.1	0.10	98.72
140.0-141.0	9.0	0.6	660.8	0.09	98.81
141.0-142.0	8.7	0.6	661.4	0.09	98.90
142.0-143.0	8.6	0.6	661.9	0.09	98.99
143.0-144.0	8.4	0.5	662.5	0.08	99.07

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 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	8.2	0.5	663.0	0.08	99.15
145.0-146.0	7.9	0.5	663.5	0.07	99.22
146.0-147.0	7.5	0.5	663.9	0.07	99.29
147.0-148.0	7.2	0.4	664.4	0.06	99.35
148.0-149.0	6.8	0.4	664.8	0.06	99.41
149.0-150.0	6.5	0.4	665.1	0.05	99.46
150.0-151.0	6.2	0.3	665.4	0.05	99.51
151.0-152.0	6.0	0.3	665.8	0.05	99.56
152.0-153.0	5.7	0.3	666.1	0.04	99.60
153.0-154.0	5.5	0.3	666.3	0.04	99.64
154.0-155.0	5.3	0.3	666.6	0.04	99.68
155.0-156.0	5.1	0.2	666.8	0.03	99.72
156.0-157.0	4.9	0.2	667.0	0.03	99.75
157.0-158.0	4.8	0.2	667.2	0.03	99.78
158.0-159.0	4.6	0.2	667.4	0.03	99.81
159.0-160.0	4.4	0.2	667.6	0.03	99.83
160.0-161.0	4.1	0.2	667.7	0.02	99.85
161.0-162.0	3.8	0.1	667.9	0.02	99.87
162.0-163.0	3.6	0.1	668.0	0.02	99.89
163.0-164.0	3.4	0.1	668.1	0.02	99.91
164.0-165.0	3.2	0.1	668.2	0.01	99.92
165.0-166.0	3.0	0.1	668.3	0.01	99.93
166.0-167.0	2.9	0.1	668.3	0.01	99.95
167.0-168.0	2.7	0.1	668.4	0.01	99.96
168.0-169.0	2.6	0.1	668.5	0.01	99.96
169.0-170.0	2.5	0.0	668.5	0.01	99.97
170.0-171.0	2.4	0.0	668.6	0.01	99.98
171.0-172.0	2.2	0.0	668.6	0.01	99.98
172.0-173.0	2.1	0.0	668.6	0.00	99.99
173.0-174.0	2.0	0.0	668.6	0.00	99.99
174.0-175.0	1.9	0.0	668.7	0.00	99.99
175.0-176.0	1.8	0.0	668.7	0.00	100.00
176.0-177.0	1.7	0.0	668.7	0.00	100.00
177.0-178.0	1.7	0.0	668.7	0.00	100.00
178.0-179.0	1.7	0.0	668.7	0.00	100.00
179.0-180.0	1.7	0.0	668.7	0.00	100.00

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	16.1	17.6	16.1	17.6	16.1					
G1.0	16.1	18.6	16.0	16.7	16.1					
G2.0	16.2	19.6	15.6	16.1	16.2					
G3.0	16.1	21.0	15.6	15.5	16.1					
G4.0	16.3	23.1	15.8	15.0	16.3					
G5.0	16.3	25.1	15.9	14.4	16.3					
G6.0	16.5	25.5	15.8	13.9	16.5					
G7.0	16.5	26.0	15.5	13.4	16.5					
G8.0	16.4	26.6	15.5	13.0	16.4					
G9.0	16.4	27.5	15.6	12.5	16.4					
G10.0	16.3	28.5	15.4	12.0	16.3					
G11.0	16.3	29.8	15.2	11.7	16.3					
G12.0	16.3	31.1	15.0	11.4	16.3					
G13.0	16.5	32.6	14.9	11.1	16.5					
G14.0	16.5	34.9	14.8	10.9	16.5					
G15.0	16.6	36.7	14.7	10.7	16.6					
G16.0	16.6	39.2	14.6	10.6	16.6					
G17.0	16.6	42.5	14.5	10.4	16.6					
G18.0	16.7	46.0	14.4	10.4	16.7					
G19.0	16.9	49.7	14.2	10.4	16.9					
G20.0	17.0	54.0	14.1	10.4	17.0					
G21.0	16.7	58.3	13.9	10.5	16.7					
G22.0	16.5	64.2	13.6	10.6	16.5					
G23.0	16.5	69.2	13.4	10.7	16.5					
G24.0	16.5	75.3	13.2	10.9	16.5					
G25.0	16.3	80.1	12.9	10.9	16.3					
G26.0	16.2	86.5	12.7	11.0	16.2					
G27.0	16.0	91.0	12.5	11.0	16.0					
G28.0	15.9	94.5	12.4	11.2	15.9					
G29.0	15.8	98.7	12.1	11.6	15.8					
G30.0	15.7	103.2	12.0	11.7	15.7					
G31.0	15.8	107.8	11.9	11.6	15.8					
G32.0	15.7	120.3	11.7	11.6	15.7					
G33.0	15.7	147.3	11.6	11.4	15.7					
G34.0	15.7	166.6	11.4	11.4	15.7					
G35.0	15.6	171.6	11.2	11.3	15.6					
G36.0	15.5	173.7	11.0	11.2	15.5					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600

Distance: 7.255 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	15.4	170.3	10.8	10.9	15.4					
G38.0	15.4	178.7	10.6	10.6	15.4					
G39.0	15.3	187.9	10.5	10.4	15.3					
G40.0	15.2	195.6	10.3	10.2	15.2					
G41.0	15.1	203.6	10.1	10.2	15.1					
G42.0	15.0	214.3	9.9	10.0	15.0					
G43.0	14.9	215.1	9.8	10.0	14.9					
G44.0	14.7	213.8	9.6	9.9	14.7					
G45.0	14.5	221.2	9.5	9.8	14.5					
G46.0	14.4	233.6	9.3	9.9	14.4					
G47.0	14.1	231.1	9.2	9.9	14.1					
G48.0	13.8	228.1	9.0	9.8	13.8					
G49.0	13.5	241.9	8.9	9.7	13.5					
G50.0	13.1	272.1	8.8	9.7	13.1					
G51.0	12.9	313.5	8.6	9.7	12.9					
G52.0	12.4	335.4	8.4	9.7	12.4					
G53.0	12.1	312.6	8.3	9.6	12.1					
G54.0	11.8	294.9	8.1	9.6	11.8					
G55.0	11.4	284.8	8.0	9.6	11.4					
G56.0	11.1	283.8	7.8	9.6	11.1					
G57.0	10.7	288.5	7.8	9.7	10.7					
G58.0	10.5	298.4	7.6	9.8	10.5					
G59.0	10.2	303.7	7.4	9.9	10.2					
G60.0	10.1	305.1	7.3	9.9	10.1					
G61.0	9.9	288.6	7.2	9.9	9.9					
G62.0	9.8	280.6	7.1	9.8	9.8					
G63.0	9.7	272.3	7.0	9.6	9.7					
G64.0	9.5	273.3	6.9	9.5	9.5					
G65.0	9.3	270.1	6.8	9.5	9.3					
G66.0	9.1	267.8	6.6	9.4	9.1					
G67.0	8.8	267.6	6.5	9.2	8.8					
G68.0	8.5	270.1	6.4	9.0	8.5					
G69.0	8.3	273.5	6.4	8.9	8.3					
G70.0	8.1	278.1	6.2	8.7	8.1					
G71.0	7.8	267.4	6.1	8.5	7.8					
G72.0	7.6	265.8	6.0	8.3	7.6					
G73.0	7.4	265.1	5.9	8.1	7.4					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	7.3	272.1	5.8	7.8	7.3					
G75.0	7.2	272.8	5.8	7.5	7.2					
G76.0	7.0	289.4	5.7	7.3	7.0					
G77.0	6.8	305.0	5.6	7.1	6.8					
G78.0	6.8	303.8	5.5	6.9	6.8					
G79.0	6.7	310.4	5.5	6.6	6.7					
G80.0	6.6	308.5	5.4	6.3	6.6					
G81.0	6.4	295.7	5.3	6.1	6.4					
G82.0	6.3	338.9	5.3	5.8	6.3					
G83.0	6.3	373.0	5.1	5.5	6.3					
G84.0	6.2	384.1	5.1	5.3	6.2					
G85.0	6.0	407.3	5.0	4.9	6.0					
G86.0	5.9	420.8	4.9	4.7	5.9					
G87.0	5.7	424.0	5.0	4.4	5.7					
G88.0	5.6	389.0	5.0	4.1	5.6					
G89.0	5.5	369.3	5.0	3.8	5.5					
G90.0	5.4	367.2	5.0	3.7	5.4					
G91.0	5.3	361.3	4.9	3.7	5.3					
G92.0	5.2	353.0	4.8	3.7	5.2					
G93.0	5.1	301.0	4.7	3.7	5.1					
G94.0	5.2	320.4	4.7	3.7	5.2					
G95.0	5.0	329.1	4.7	3.8	5.0					
G96.0	4.9	335.9	4.7	3.8	4.9					
G97.0	4.8	366.0	4.5	3.8	4.8					
G98.0	4.7	389.4	4.5	3.8	4.7					
G99.0	4.7	266.0	4.5	3.8	4.7					
G100.0	4.6	276.5	4.5	3.8	4.6					
G101.0	4.7	285.2	4.3	3.8	4.7					
G102.0	4.7	265.1	4.3	3.8	4.7					
G103.0	4.6	262.3	4.4	3.8	4.6					
G104.0	4.7	243.6	4.3	3.8	4.7					
G105.0	4.8	215.3	4.1	3.8	4.8					
G106.0	4.7	196.4	4.1	3.8	4.7					
G107.0	4.7	181.8	4.0	3.8	4.7					
G108.0	4.6	173.2	3.9	3.8	4.6					
G109.0	4.4	164.3	3.8	3.8	4.4					
G110.0	4.3	164.5	3.7	3.8	4.3					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600

Distance: 7.255 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	4.2	170.0	3.3	3.8	4.2					
G112.0	4.0	176.3	3.1	3.9	4.0					
G113.0	3.5	171.1	3.0	4.0	3.5					
G114.0	3.3	155.7	2.9	4.1	3.3					
G115.0	3.2	134.9	2.9	4.2	3.2					
G116.0	3.1	121.3	2.9	4.3	3.1					
G117.0	3.1	116.4	2.8	4.4	3.1					
G118.0	3.0	110.2	2.8	4.5	3.0					
G119.0	3.1	102.3	2.8	4.6	3.1					
G120.0	3.1	99.3	2.8	4.7	3.1					
G121.0	3.0	95.3	2.8	4.8	3.0					
G122.0	2.9	92.2	2.7	4.9	2.9					
G123.0	2.9	86.6	2.7	5.0	2.9					
G124.0	2.8	80.2	2.7	5.0	2.8					
G125.0	2.7	72.8	2.6	5.1	2.7					
G126.0	2.6	67.8	2.5	5.1	2.6					
G127.0	2.4	61.6	2.4	5.2	2.4					
G128.0	2.4	56.9	2.4	5.2	2.4					
G129.0	2.3	53.0	2.4	5.2	2.3					
G130.0	2.3	49.0	2.3	5.3	2.3					
G131.0	2.3	44.3	2.3	5.3	2.3					
G132.0	2.3	41.2	2.3	5.3	2.3					
G133.0	2.2	38.9	2.3	5.3	2.2					
G134.0	2.2	37.5	2.3	5.3	2.2					
G135.0	2.2	36.0	2.4	5.3	2.2					
G136.0	2.2	34.0	2.4	5.3	2.2					
G137.0	2.0	32.0	2.4	5.3	2.0					
G138.0	2.0	30.4	2.3	5.4	2.0					
G139.0	2.0	28.7	2.3	5.6	2.0					
G140.0	1.9	27.2	2.2	5.6	1.9					
G141.0	1.7	25.7	2.2	5.7	1.7					
G142.0	1.5	25.1	2.1	5.8	1.5					
G143.0	1.5	24.6	2.1	5.8	1.5					
G144.0	1.3	23.8	2.1	5.8	1.3					
G145.0	1.3	23.0	2.1	5.8	1.3					
G146.0	1.2	21.8	2.1	5.7	1.2					
G147.0	1.2	20.6	2.1	5.7	1.2					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	1.1	19.1	2.1	5.6	1.1					
G149.0	1.1	17.8	2.1	5.6	1.1					
G150.0	1.0	16.7	2.1	5.5	1.0					
G151.0	1.0	15.7	2.1	5.6	1.0					
G152.0	1.1	14.8	2.2	5.4	1.1					
G153.0	1.1	13.9	2.2	5.3	1.1					
G154.0	1.1	13.2	2.2	5.2	1.1					
G155.0	1.1	12.6	2.1	5.1	1.1					
G156.0	1.1	12.0	2.1	4.9	1.1					
G157.0	1.0	11.7	2.1	4.7	1.0					
G158.0	1.3	11.2	2.1	4.4	1.3					
G159.0	1.5	10.6	2.1	4.1	1.5					
G160.0	1.5	10.0	2.0	3.6	1.5					
G161.0	1.5	9.4	2.0	3.0	1.5					
G162.0	1.4	8.8	1.9	2.7	1.4					
G163.0	1.5	8.2	1.8	2.4	1.5					
G164.0	1.5	7.6	1.8	2.3	1.5					
G165.0	1.4	7.1	1.7	2.2	1.4					
G166.0	1.4	6.6	1.6	2.1	1.4					
G167.0	1.4	6.2	1.6	2.0	1.4					
G168.0	1.5	5.7	1.5	2.0	1.5					
G169.0	1.5	5.3	1.5	1.9	1.5					
G170.0	1.4	4.9	1.5	1.9	1.4					
G171.0	1.4	4.5	1.4	1.8	1.4					
G172.0	1.3	4.1	1.4	1.8	1.3					
G173.0	1.3	3.8	1.3	1.7	1.3					
G174.0	1.3	3.6	1.3	1.7	1.3					
G175.0	1.2	3.1	1.2	1.7	1.2					
G176.0	1.2	2.8	1.2	1.7	1.2					
G177.0	1.2	2.8	1.1	1.7	1.2					
G178.0	1.1	2.7	1.0	1.8	1.1					
G179.0	1.0	2.6	1.1	2.1	1.0					
G180.0	1.1	2.6	1.1	2.3	1.1					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 7.255 m
 Humidity:
 Inspector: