

Report No.:

Test Time: 2025-02-15 10:18

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): 20

Luminous Height (mm): 404

Current: 0.068 A

Power Factor: 1.000

Luminous Width (mm): 20

Voltage: 48.0 V

Power: 3.27 W

Photometric Results

CIE Class: Direct

Measurement Flux: 180.4 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%,80%,100%): H60.5,H30.2,H17.2,H1

Vertical Diffuse Angle(10%,50%,80%,100%): V61.6,V30.7,V17.7,V1

Luminaire Efficacy Rating (LER): 55.22

Max. Intensity: 454.08 cd

S/MH(C0/C180): 0.50

Total Rated Lamp Lumens: 180.4 lm

Efficiency: 100%

Upward Ratio: 2%

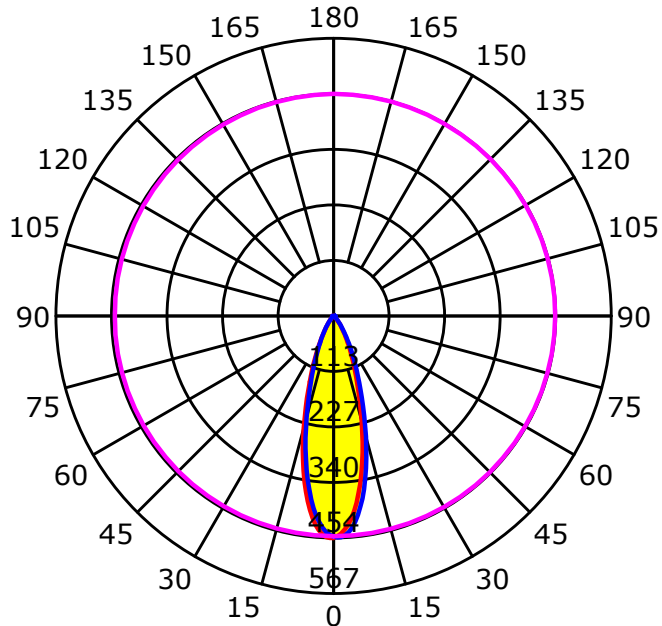
Central Intensity: 453.95 cd

Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.51

Picture Of Luminaire

Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 30.4°

— C0-C180 — C90-C270 — 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

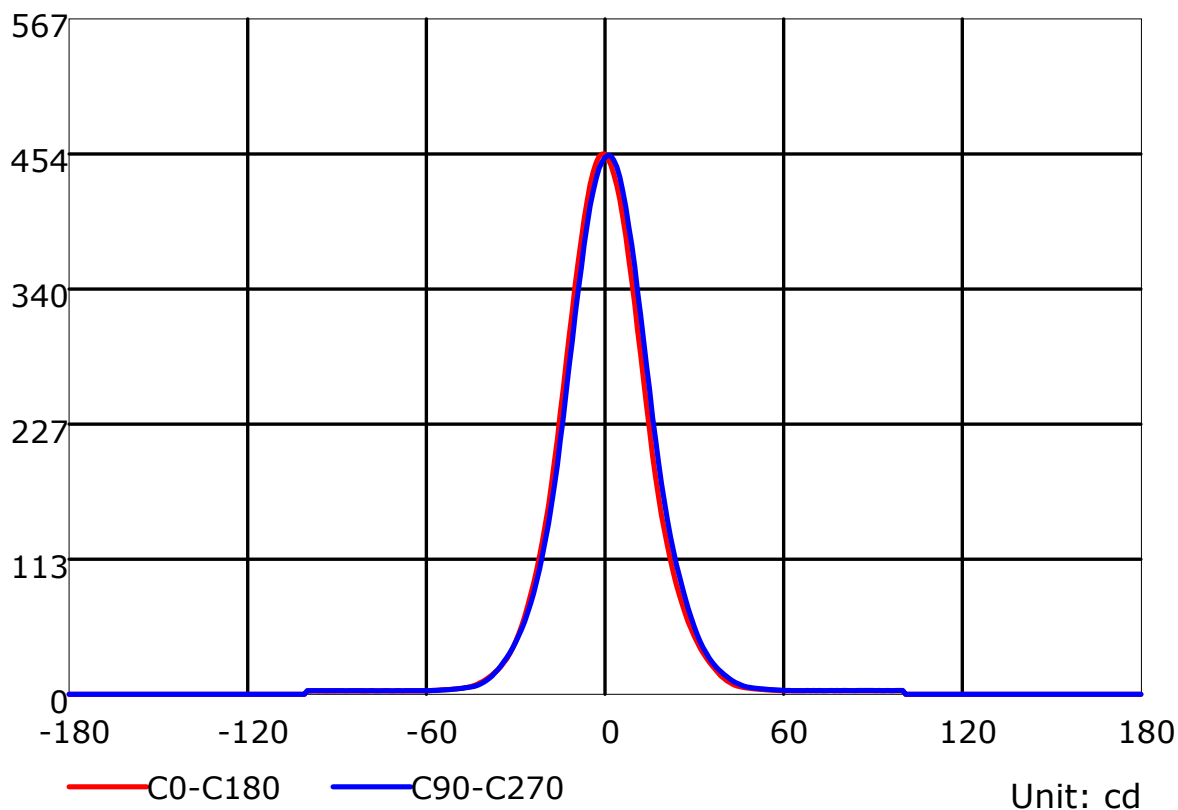
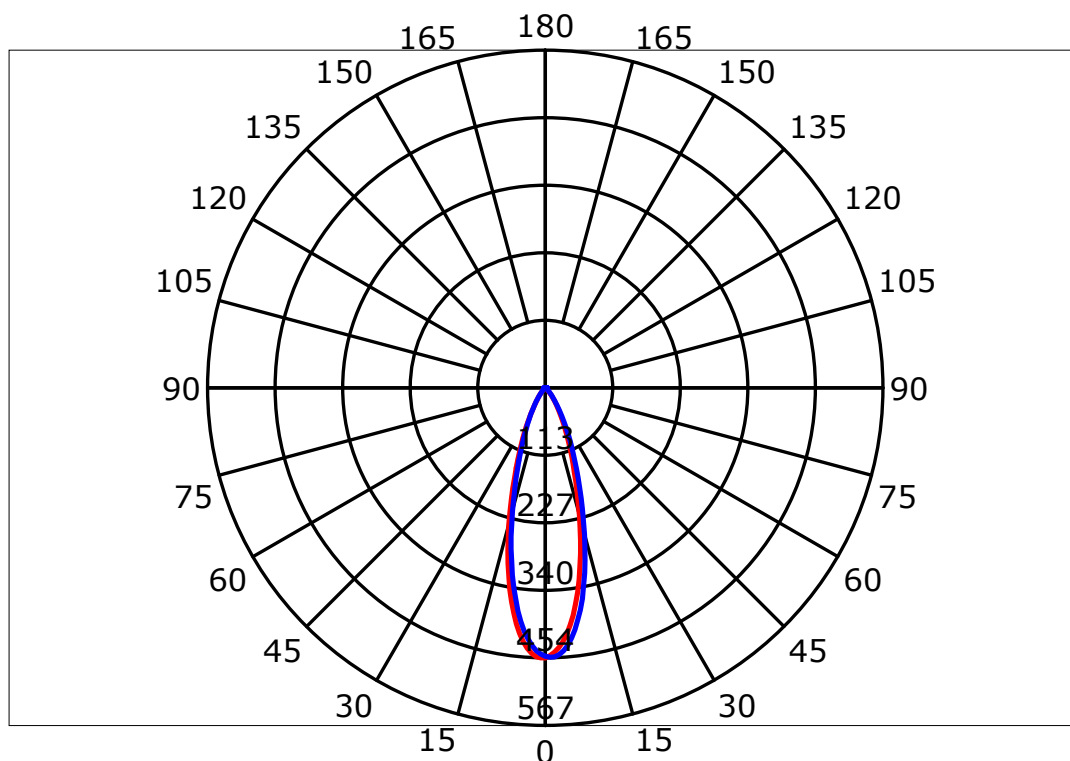
Test Device: GPM-1600L

Distance: 8.443 m

Humidity:

Inspector:

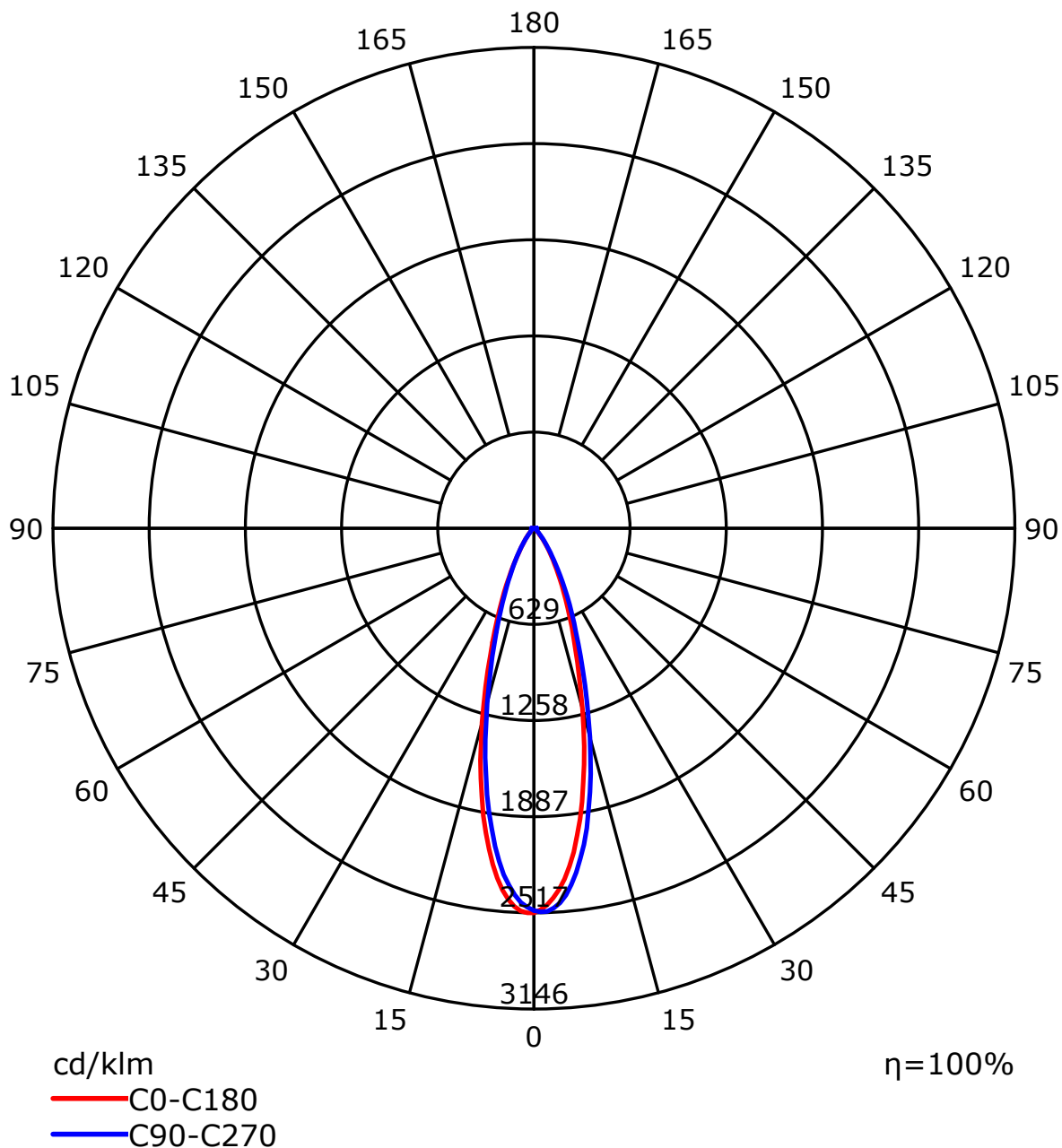
Luminous Intensity Distribution Curve



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-1600L
Distance: 8.443 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



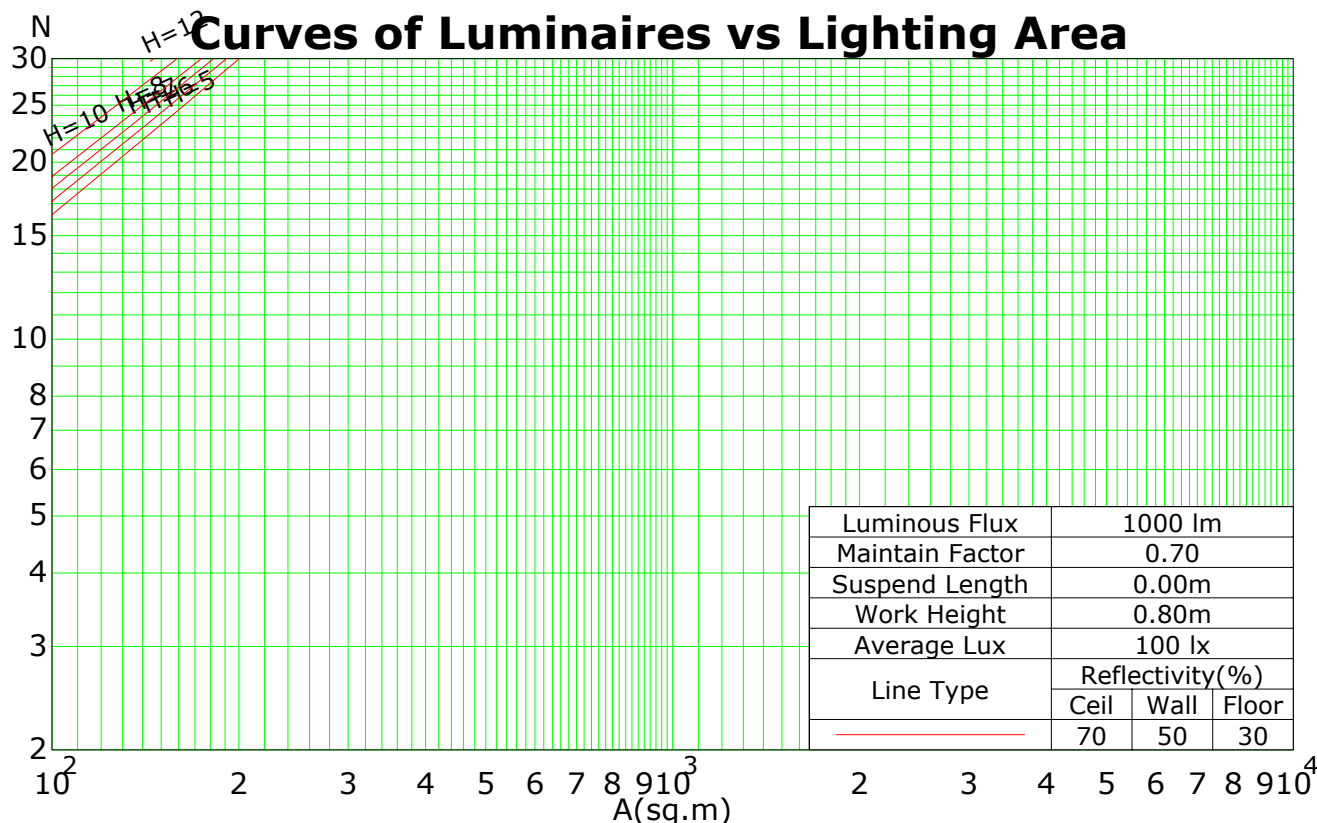
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.443 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	112	109	107	104	110	107	105	102	103	101	99	99	97	96	95	94	93	91
2	107	102	98	95	105	100	96	93	97	94	91	93	91	89	90	88	87	85
3	102	96	91	87	100	94	90	86	91	88	85	89	86	83	86	84	82	80
4	98	91	85	81	96	89	84	81	87	83	79	85	81	78	83	80	77	76
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	79	76	73	72
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	76	73	70	69
7	86	78	72	68	85	77	72	68	76	71	68	74	70	67	73	70	67	65
8	83	74	69	65	82	74	69	65	73	68	65	71	67	64	70	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	60	76	68	63	60	67	62	59	66	62	59	65	62	59	58

Spacing Criteria (0-180): 0.50
Spacing Criteria (90-270): 0.51
Spacing Criteria (Diagonal): 0.53



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

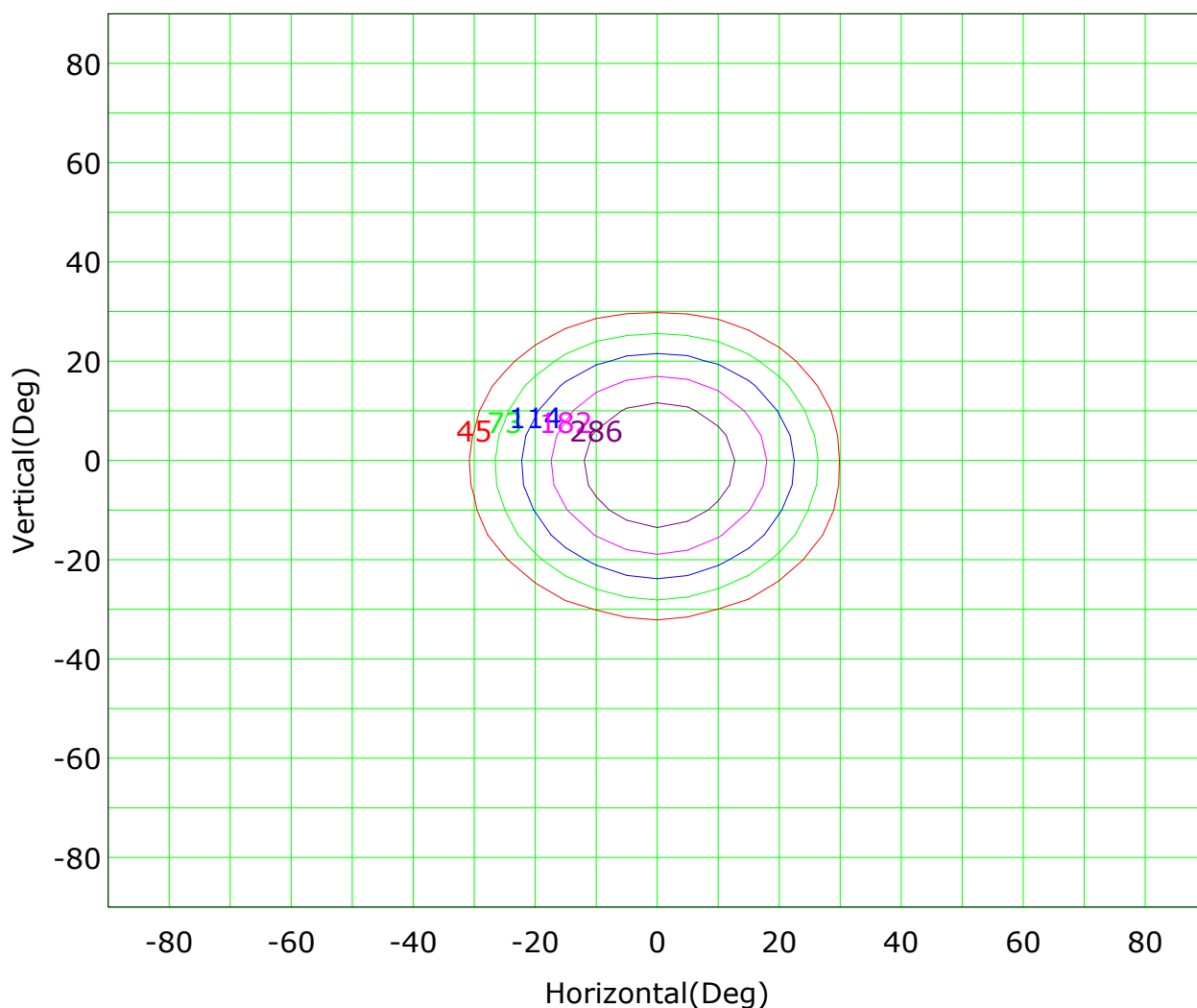
Test Device: GPM-1600L

Distance: 8.443 m

Humidity:

Inspector:

Isocandela (rectangle)



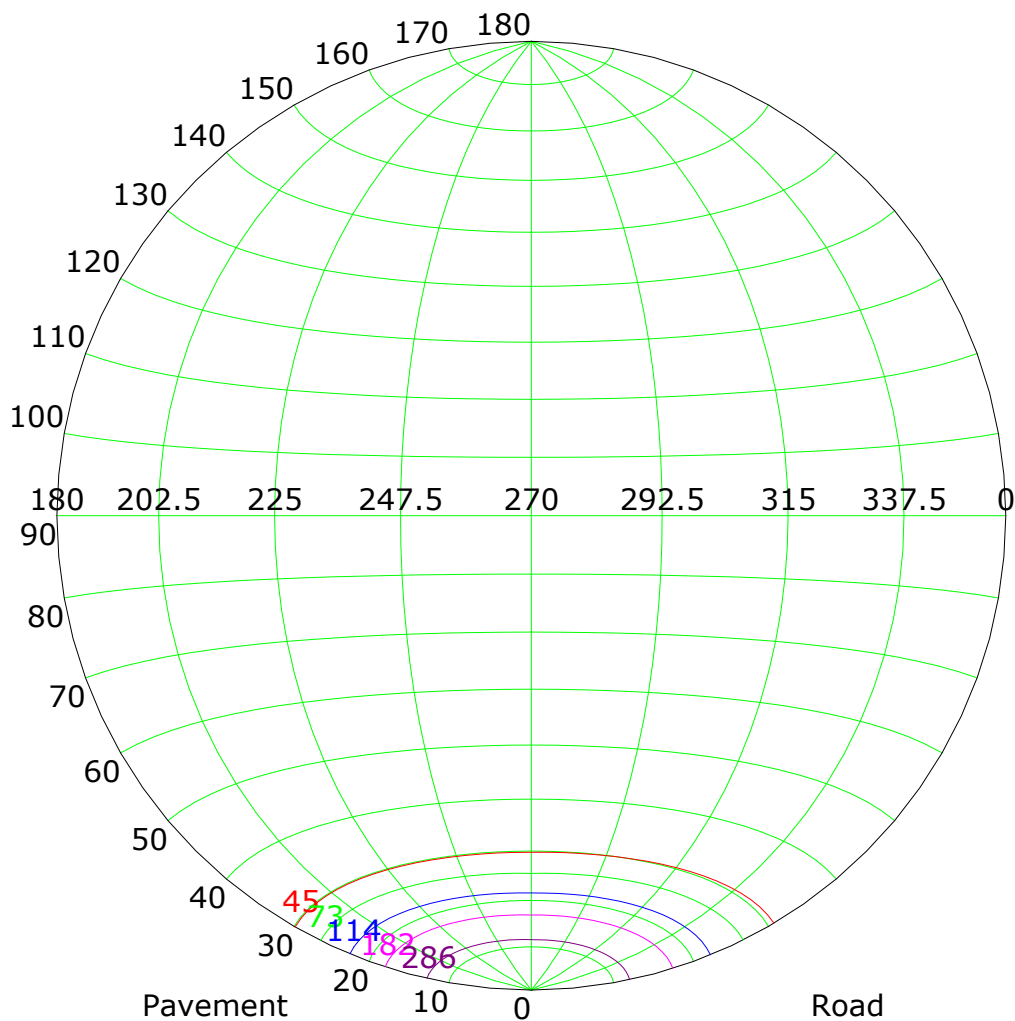
Imax (100%): 454 cd

(10%):	45 cd	(16%):	73 cd
(25%):	114 cd	(40%):	182 cd
(63%):	286 cd	(100%):	454 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-1600L
Distance: 8.443 m
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 454 cd

(10%):	45 cd	(16%):	73 cd
(25%):	114 cd	(40%):	182 cd
(63%):	286 cd	(100%):	454 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

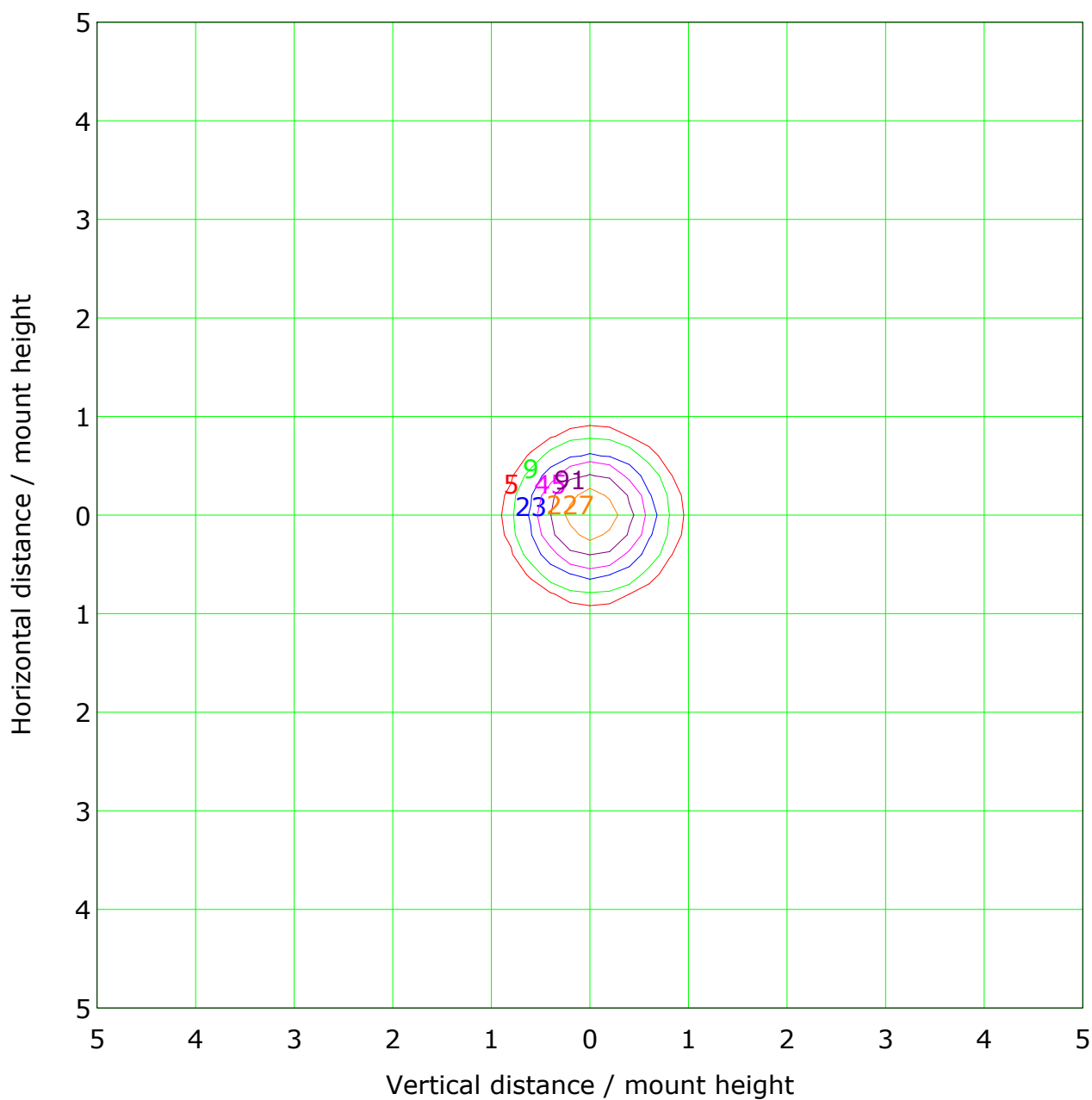
Test Device: GPM-1600L

Distance: 8.443 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 1.0m Max Lux(100%): 454.0 lx

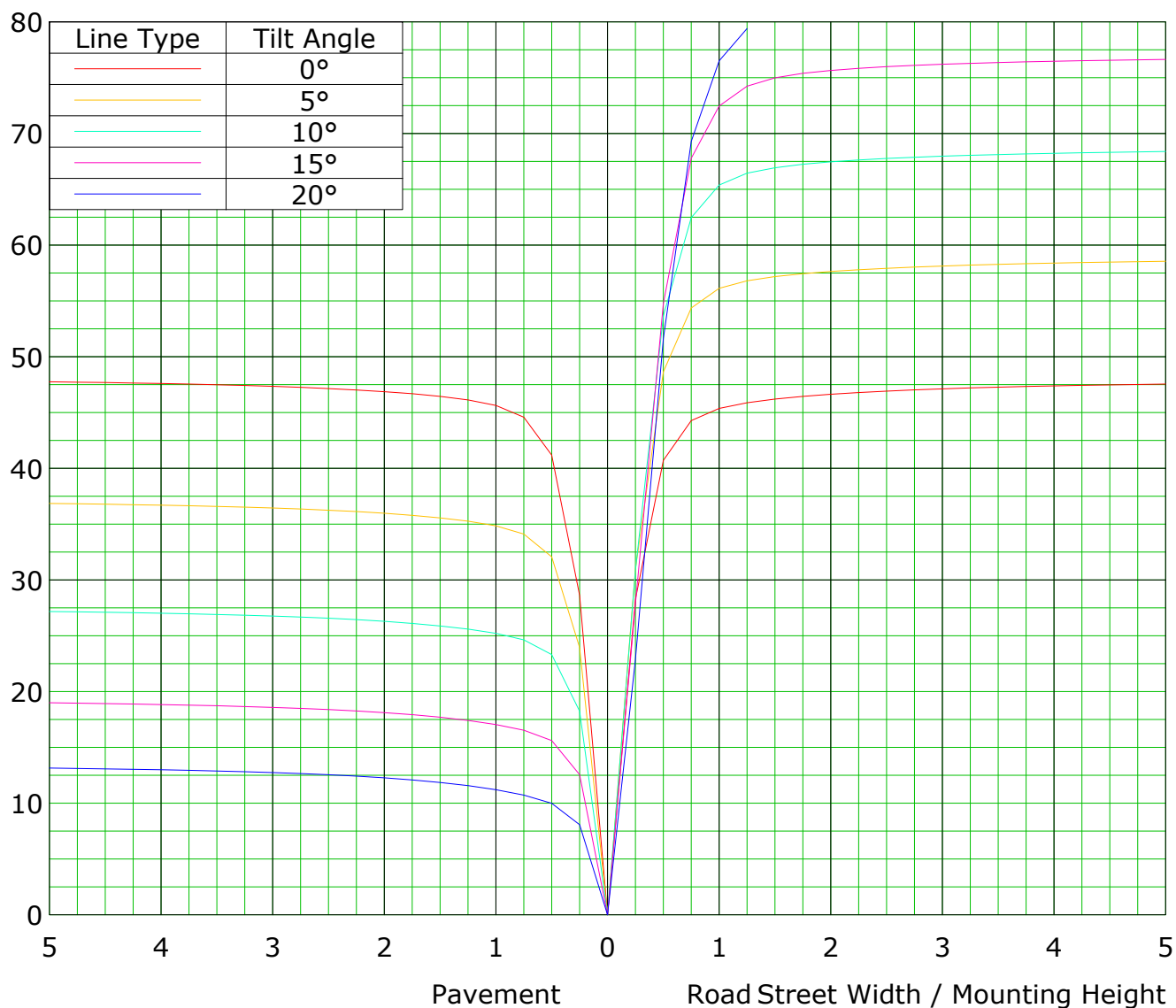
(1%): 4.5 lx	(2%): 9.1 lx
(5%): 22.7 lx	(10%): 45.4 lx
(20%): 90.8 lx	(50%): 227.0 lx
(100%): 454.0 lx	

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-1600L
Distance: 8.443 m
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



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-1600L

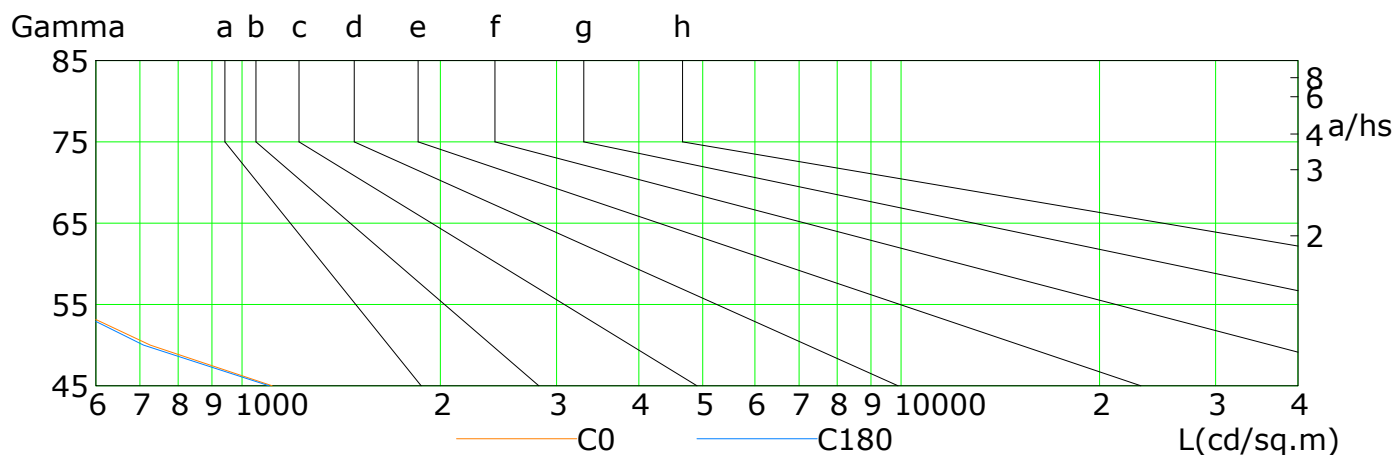
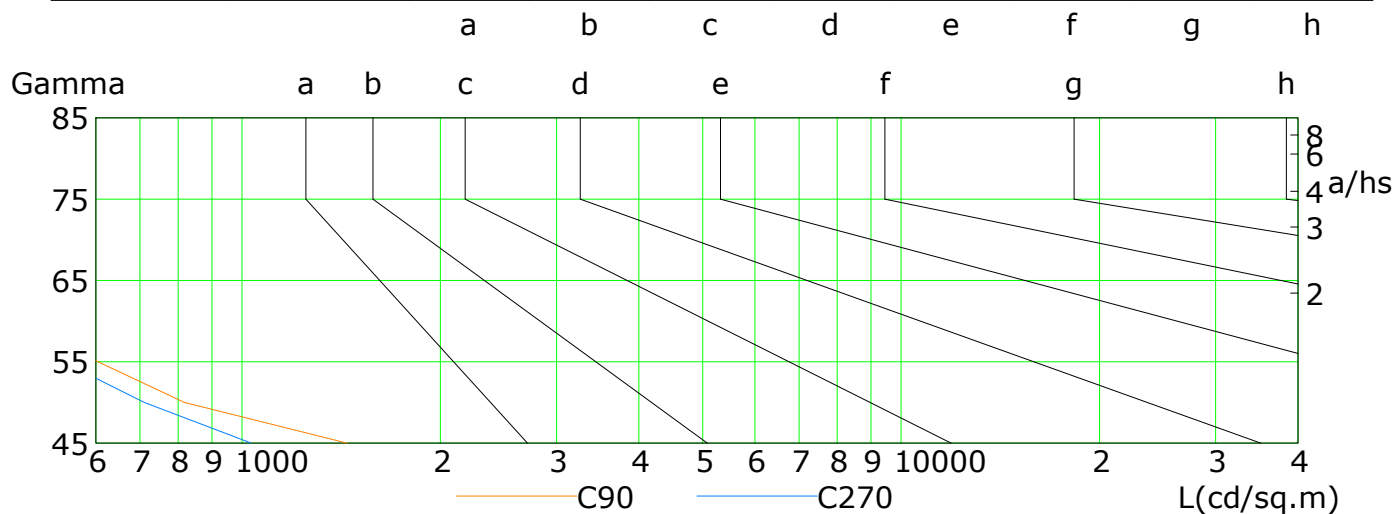
Distance: 8.443 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1111	726	537	425	407	391	393	380	367
C90	1443	817	605	484	427	418	397	412	404
C180	1099	709	533	411	390	373	374	354	351
C270	1032	710	534	443	419	401	386	385	385

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

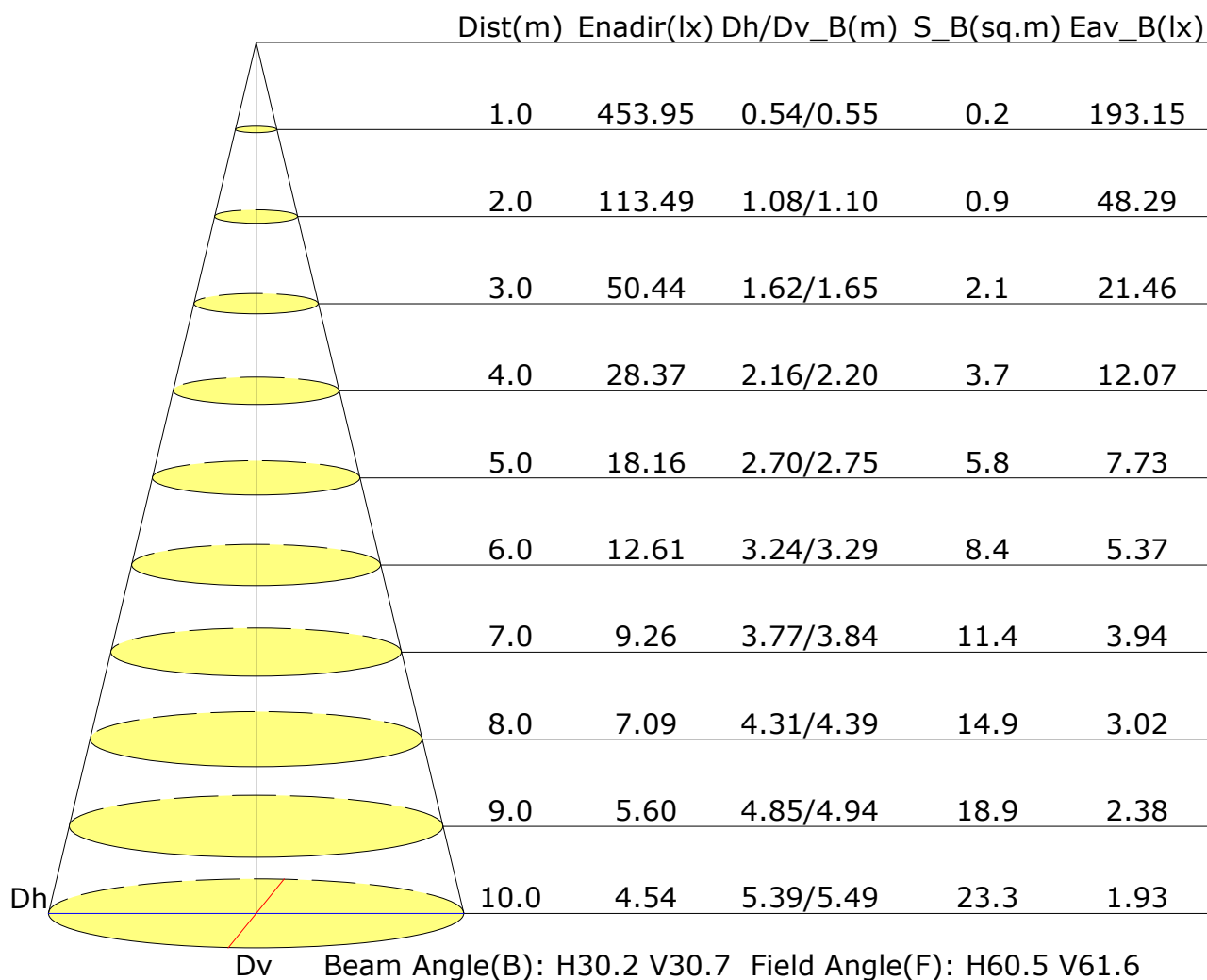
Test Device: GPM-1600L

Distance: 8.443 m

Humidity:

Inspector:

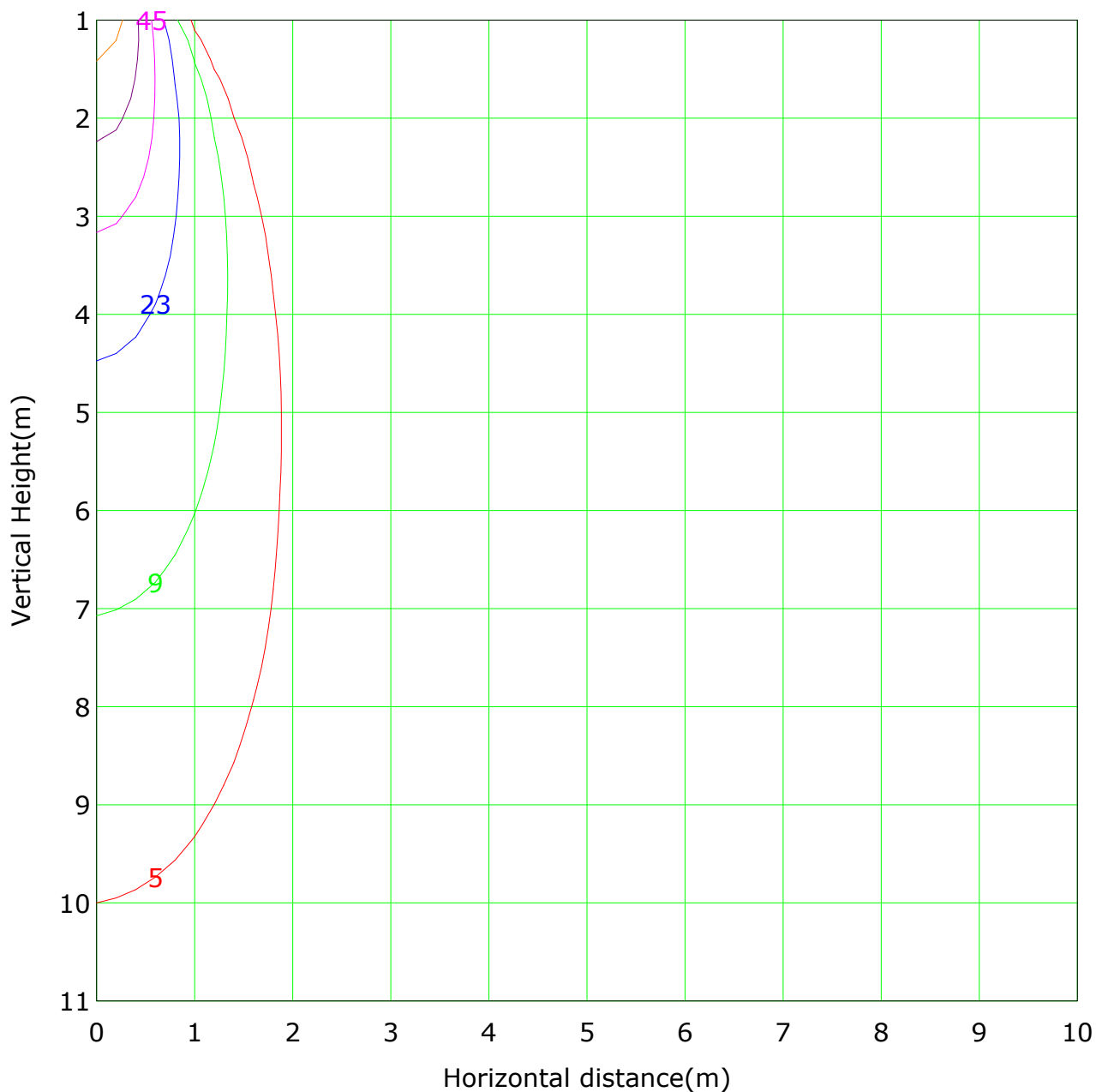
Illuminance at a Distance



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-1600L
Distance: 8.443 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 454.0 lx

(1%): 4.5 lx	(2%): 9.1 lx
(5%): 22.7 lx	(10%): 45.4 lx
(20%): 90.8 lx	(50%): 227.0 lx
(100%): 454.0 lx	

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

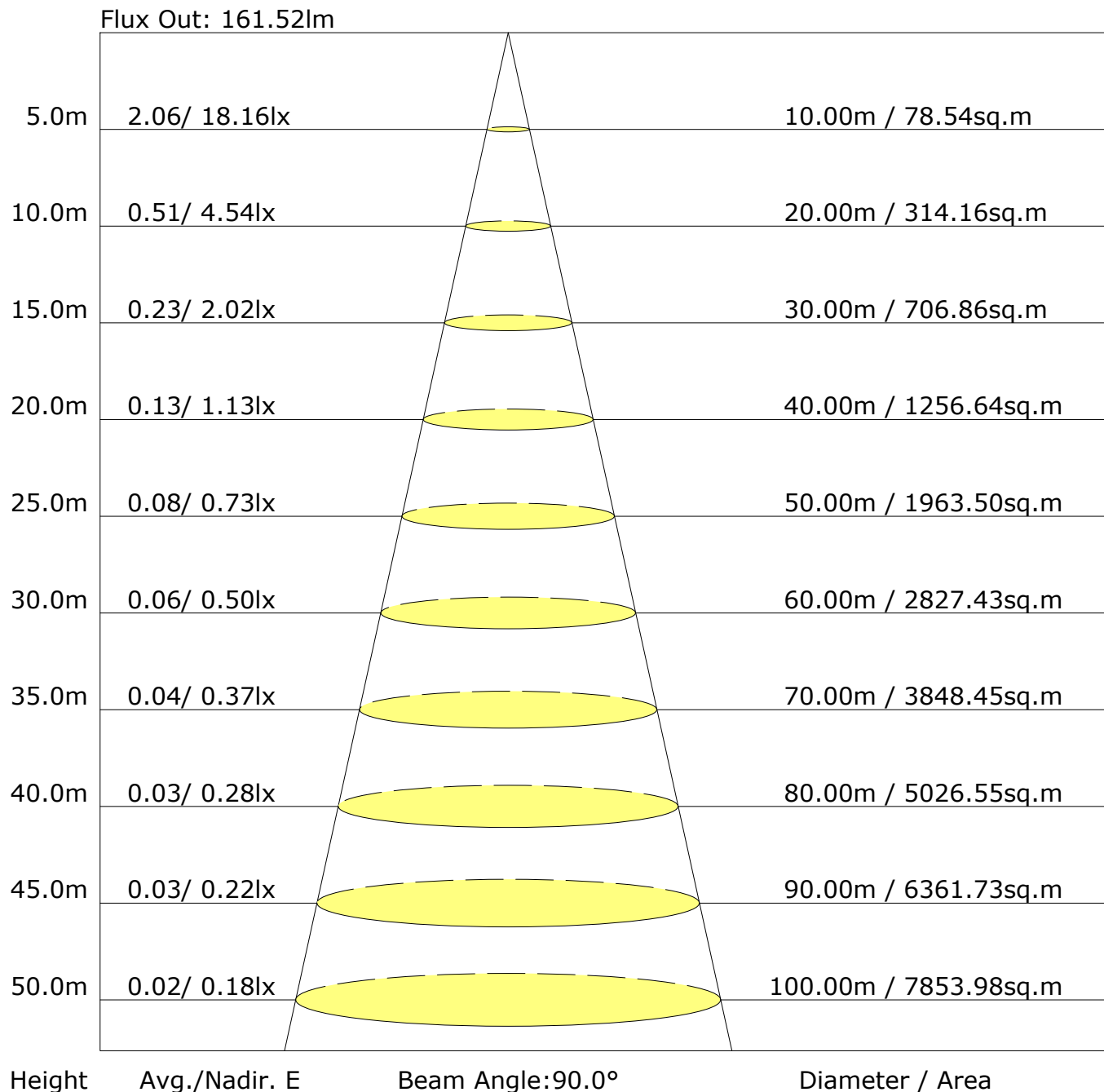
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.443 m
Humidity:
Inspector:

Unit: lm

[illegible]

Test Device: GPM-1600L
Distance: 8.443 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-1600L
Distance: 8.443 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	6.9	7.7	7.2	7.9	8.2	7.1	7.9	7.4	8.1	8.4
3H	7.4	8.2	7.8	8.4	8.7	7.6	8.3	7.9	8.6	8.9
4H	7.9	8.6	8.2	8.9	9.2	8.1	8.7	8.4	9.0	9.3
6H	8.5	9.1	8.8	9.4	9.8	8.6	9.3	9.0	9.6	9.9
8H	8.8	9.4	9.2	9.8	10.1	9.0	9.6	9.3	9.9	10.3
12H	9.1	9.7	9.5	10.1	10.4	9.3	9.9	9.7	10.3	10.6
X=4H Y=2H	6.9	7.6	7.3	7.9	8.2	7.1	7.8	7.4	8.1	8.4
3H	7.7	8.3	8.1	8.6	9.0	7.8	8.4	8.2	8.8	9.1
4H	8.3	8.8	8.7	9.2	9.6	8.5	9.0	8.9	9.4	9.8
6H	9.1	9.6	9.5	10.0	10.4	9.3	9.7	9.7	10.2	10.6
8H	9.6	10.0	10.0	10.4	10.9	9.7	10.2	10.2	10.6	11.1
12H	10.1	10.5	10.5	10.9	11.4	10.2	10.6	10.7	11.1	11.6
X=8H Y=4H	8.5	9.0	9.0	9.4	9.8	8.7	9.1	9.1	9.5	10.0
6H	9.5	9.9	10.0	10.3	10.8	9.7	10.0	10.2	10.5	11.0
8H	10.1	10.5	10.7	10.9	11.5	10.3	10.6	10.8	11.1	11.6
12H	10.8	11.1	11.3	11.6	12.1	11.0	11.2	11.5	11.7	12.3
X=12H Y=4H	8.6	9.0	9.0	9.4	9.9	8.7	9.1	9.2	9.5	10.0
6H	9.6	10.0	10.1	10.4	11.0	9.8	10.1	10.3	10.6	11.1
8H	10.3	10.6	10.8	11.1	11.7	10.5	10.7	11.0	11.2	11.8
Variations with the observer position at spacings:										
S=1.0H	+2.5/-1.2					+2.2/-1.0				
S=1.5H	+4.5/-1.7					+4.1/-1.4				
S=2.0H	+6.2/-2.0					+5.7/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 180lm ($8\log(F/F_0) = -6.0$).

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-1600L
Distance: 8.443 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

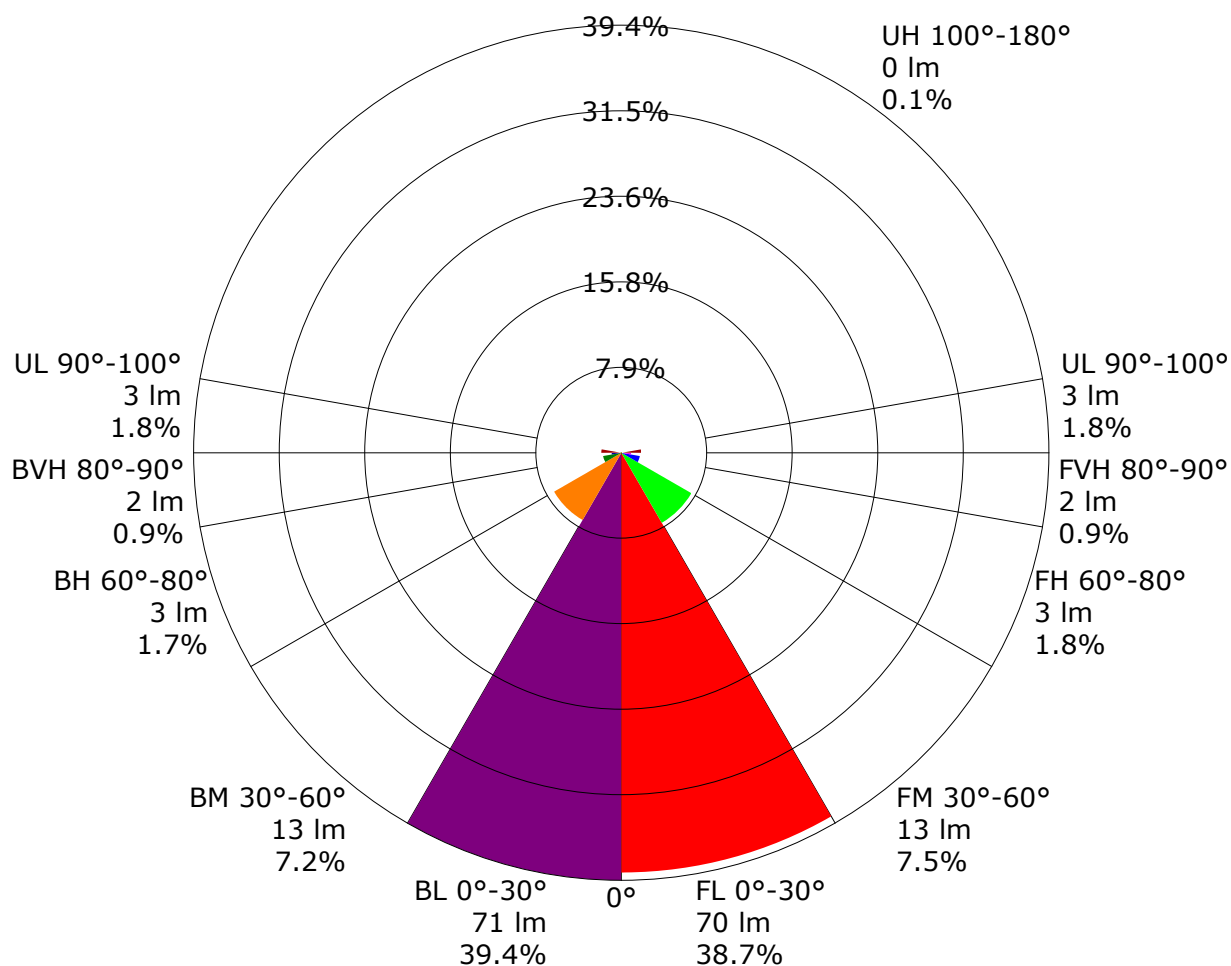
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	88	48.9
	FL (0°-30°)	70	38.7
	FM (30°-60°)	13	7.5
	FH (60°-80°)	3	1.8
	FVH (80°-90°)	2	0.9
	BACK LIGHT	89	49.2
	BL (0°-30°)	71	39.4
	BM (30°-60°)	13	7.2
	BH (60°-80°)	3	1.7
	BVH (80°-90°)	2	0.9
	UP LIGHT	3	1.9
	UL (90°-100°)	3	1.8
	UH (100°-180°)	0	0.1
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U1 G0

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-1600L
Distance: 8.443 m
Humidity:
Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

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-1600L

Distance: 8.443 m

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	0.88	0.93	0.96	0.99	1.03	1.05	1.07	1.09	1.10	
	0.30		0.83	0.89	0.92	0.95	0.99	1.02	1.04	1.06	1.08	
	0.20		0.80	0.85	0.89	0.92	0.96	0.99	1.01	1.04	1.06	
0.50	0.50	0.20	0.86	0.91	0.94	0.96	0.99	1.01	1.03	1.05	1.06	
	0.30		0.82	0.87	0.91	0.93	0.96	0.99	1.00	1.03	1.04	
	0.20		0.80	0.84	0.88	0.90	0.94	0.97	0.98	1.01	1.03	
0.30	0.50	0.20	0.85	0.89	0.92	0.94	0.96	0.98	0.99	1.01	1.02	
	0.30		0.82	0.86	0.89	0.91	0.94	0.96	0.97	0.99	1.01	
	0.20		0.79	0.84	0.87	0.89	0.92	0.94	0.96	0.98	0.99	
0.00	0.00	0.00	0.77	0.81	0.84	0.86	0.89	0.90	0.92	0.93	0.94	
Rating:3W 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 = 0.75									
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	0.55	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
	0.30		0.46	0.39	0.34	0.30	0.25	0.21	0.19	0.15	0.13	
	0.20		0.39	0.34	0.30	0.27	0.23	0.20	0.17	0.14	0.12	
0.50	0.50	0.20	0.52	0.43	0.36	0.32	0.26	0.25	0.19	0.15	0.12	
	0.30		0.44	0.37	0.32	0.28	0.23	0.20	0.17	0.14	0.12	
	0.20		0.38	0.33	0.29	0.26	0.22	0.18	0.16	0.13	0.11	
0.30	0.50	0.20	0.49	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
	0.30		0.42	0.35	0.30	0.27	0.22	0.18	0.16	0.13	0.11	
	0.20		0.37	0.31	0.27	0.24	0.20	0.17	0.15	0.12	0.10	
0.00	0.00	0.00	0.23	0.19	0.16	0.14	0.11	0.10	0.08	0.07	0.06	
Rating:3W 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 = 0.75									
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	0.16	0.17	0.18	0.20	0.21	0.21	0.22	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.21	
	0.20		0.08	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.50	0.50	0.20	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	0.19	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:3W 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	451.9	0.4	0.4	0.24	0.24
1.0-2.0	449.6	1.3	1.7	0.72	0.96
2.0-3.0	444.7	2.1	3.9	1.18	2.13
3.0-4.0	437.3	2.9	6.8	1.62	3.76
4.0-5.0	427.7	3.7	10.5	2.04	5.80
5.0-6.0	415.4	4.4	14.8	2.42	8.22
6.0-7.0	400.8	5.0	19.8	2.76	10.98
7.0-8.0	384.1	5.5	25.3	3.05	14.02
8.0-9.0	366.2	5.9	31.2	3.29	17.31
9.0-10.0	347.6	6.3	37.5	3.49	20.80
10.0-11.0	326.8	6.5	44.1	3.62	24.42
11.0-12.0	305.7	6.7	50.7	3.71	28.13
12.0-13.0	285.2	6.8	57.5	3.75	31.88
13.0-14.0	263.4	6.7	64.2	3.74	35.62
14.0-15.0	242.0	6.6	70.9	3.68	39.30
15.0-16.0	221.2	6.5	77.4	3.59	42.89
16.0-17.0	201.2	6.3	83.6	3.47	46.37
17.0-18.0	183.3	6.0	89.7	3.35	49.72
18.0-19.0	165.9	5.8	95.5	3.20	52.92
19.0-20.0	150.1	5.5	101.0	3.05	55.96
20.0-21.0	136.3	5.2	106.2	2.90	58.86
21.0-22.0	123.2	4.9	111.1	2.74	61.61
22.0-23.0	111.2	4.7	115.8	2.59	64.20
23.0-24.0	100.3	4.4	120.2	2.43	66.63
24.0-25.0	90.2	4.1	124.3	2.27	68.90
25.0-26.0	81.4	3.8	128.1	2.13	71.03
26.0-27.0	72.9	3.6	131.7	1.98	73.01
27.0-28.0	65.0	3.3	135.0	1.83	74.83
28.0-29.0	58.1	3.0	138.0	1.69	76.52
29.0-30.0	51.6	2.8	140.8	1.55	78.06
30.0-31.0	45.8	2.5	143.4	1.41	79.48
31.0-32.0	40.5	2.3	145.7	1.29	80.77
32.0-33.0	35.9	2.1	147.8	1.17	81.94
33.0-34.0	31.9	1.9	149.7	1.07	83.01
34.0-35.0	28.1	1.7	151.5	0.97	83.98
35.0-36.0	24.7	1.6	153.1	0.87	84.85

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-1600L

Distance: 8.443 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	21.8	1.4	154.5	0.79	85.64
37.0-38.0	19.2	1.3	155.8	0.71	86.35
38.0-39.0	16.7	1.1	156.9	0.63	86.98
39.0-40.0	14.5	1.0	157.9	0.56	87.54
40.0-41.0	12.6	0.9	158.8	0.50	88.03
41.0-42.0	11.0	0.8	159.6	0.44	88.48
42.0-43.0	9.6	0.7	160.3	0.39	88.87
43.0-44.0	8.3	0.6	160.9	0.35	89.22
44.0-45.0	7.4	0.6	161.5	0.32	89.53
45.0-46.0	6.7	0.5	162.0	0.29	89.82
46.0-47.0	6.1	0.5	162.5	0.27	90.09
47.0-48.0	5.6	0.5	163.0	0.25	90.35
48.0-49.0	5.3	0.4	163.4	0.24	90.59
49.0-50.0	5.0	0.4	163.8	0.23	90.82
50.0-51.0	4.7	0.4	164.2	0.22	91.03
51.0-52.0	4.4	0.4	164.6	0.21	91.25
52.0-53.0	4.2	0.4	165.0	0.20	91.45
53.0-54.0	4.0	0.4	165.3	0.20	91.65
54.0-55.0	3.9	0.3	165.7	0.19	91.84
55.0-56.0	3.7	0.3	166.0	0.19	92.03
56.0-57.0	3.6	0.3	166.3	0.18	92.21
57.0-58.0	3.4	0.3	166.7	0.18	92.38
58.0-59.0	3.3	0.3	167.0	0.17	92.55
59.0-60.0	3.2	0.3	167.3	0.17	92.72
60.0-61.0	3.1	0.3	167.6	0.17	92.89
61.0-62.0	3.1	0.3	167.9	0.16	93.05
62.0-63.0	3.1	0.3	168.2	0.17	93.22
63.0-64.0	3.1	0.3	168.5	0.17	93.38
64.0-65.0	3.1	0.3	168.8	0.17	93.55
65.0-66.0	3.1	0.3	169.1	0.17	93.72
66.0-67.0	3.1	0.3	169.4	0.17	93.89
67.0-68.0	3.1	0.3	169.7	0.17	94.06
68.0-69.0	3.1	0.3	170.0	0.17	94.24
69.0-70.0	3.1	0.3	170.3	0.17	94.41
70.0-71.0	3.0	0.3	170.6	0.17	94.59
71.0-72.0	3.0	0.3	170.9	0.17	94.76

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-1600L
Distance: 8.443 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	3.1	0.3	171.3	0.18	94.94
73.0-74.0	3.1	0.3	171.6	0.18	95.12
74.0-75.0	3.1	0.3	171.9	0.18	95.30
75.0-76.0	3.1	0.3	172.2	0.18	95.48
76.0-77.0	3.1	0.3	172.6	0.18	95.66
77.0-78.0	3.1	0.3	172.9	0.18	95.84
78.0-79.0	3.1	0.3	173.2	0.18	96.02
79.0-80.0	3.1	0.3	173.6	0.18	96.21
80.0-81.0	3.1	0.3	173.9	0.18	96.39
81.0-82.0	3.1	0.3	174.2	0.18	96.57
82.0-83.0	3.1	0.3	174.5	0.19	96.76
83.0-84.0	3.1	0.3	174.9	0.19	96.94
84.0-85.0	3.0	0.3	175.2	0.18	97.13
85.0-86.0	3.1	0.3	175.6	0.19	97.31
86.0-87.0	3.1	0.3	175.9	0.19	97.50
87.0-88.0	3.1	0.3	176.2	0.19	97.69
88.0-89.0	3.1	0.3	176.6	0.19	97.87
89.0-90.0	3.1	0.3	176.9	0.19	98.06
90.0-91.0	3.1	0.3	177.2	0.19	98.25
91.0-92.0	3.1	0.3	177.6	0.19	98.43
92.0-93.0	3.1	0.3	177.9	0.19	98.62
93.0-94.0	3.0	0.3	178.2	0.18	98.80
94.0-95.0	3.1	0.3	178.6	0.19	98.99
95.0-96.0	3.1	0.3	178.9	0.18	99.17
96.0-97.0	3.0	0.3	179.2	0.18	99.36
97.0-98.0	3.1	0.3	179.6	0.18	99.54
98.0-99.0	3.1	0.3	179.9	0.18	99.72
99.0-100.0	3.1	0.3	180.2	0.18	99.91
100.0-101.0	1.5	0.2	180.4	0.09	100.00
101.0-102.0	0.0	0.0	180.4	0.00	100.00
102.0-103.0	0.0	0.0	180.4	0.00	100.00
103.0-104.0	0.0	0.0	180.4	0.00	100.00
104.0-105.0	0.0	0.0	180.4	0.00	100.00
105.0-106.0	0.0	0.0	180.4	0.00	100.00
106.0-107.0	0.0	0.0	180.4	0.00	100.00
107.0-108.0	0.0	0.0	180.4	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-1600L

Distance: 8.443 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	0.0	0.0	180.4	0.00	100.00
109.0-110.0	0.0	0.0	180.4	0.00	100.00
110.0-111.0	0.0	0.0	180.4	0.00	100.00
111.0-112.0	0.0	0.0	180.4	0.00	100.00
112.0-113.0	0.0	0.0	180.4	0.00	100.00
113.0-114.0	0.0	0.0	180.4	0.00	100.00
114.0-115.0	0.0	0.0	180.4	0.00	100.00
115.0-116.0	0.0	0.0	180.4	0.00	100.00
116.0-117.0	0.0	0.0	180.4	0.00	100.00
117.0-118.0	0.0	0.0	180.4	0.00	100.00
118.0-119.0	0.0	0.0	180.4	0.00	100.00
119.0-120.0	0.0	0.0	180.4	0.00	100.00
120.0-121.0	0.0	0.0	180.4	0.00	100.00
121.0-122.0	0.0	0.0	180.4	0.00	100.00
122.0-123.0	0.0	0.0	180.4	0.00	100.00
123.0-124.0	0.0	0.0	180.4	0.00	100.00
124.0-125.0	0.0	0.0	180.4	0.00	100.00
125.0-126.0	0.0	0.0	180.4	0.00	100.00
126.0-127.0	0.0	0.0	180.4	0.00	100.00
127.0-128.0	0.0	0.0	180.4	0.00	100.00
128.0-129.0	0.0	0.0	180.4	0.00	100.00
129.0-130.0	0.0	0.0	180.4	0.00	100.00
130.0-131.0	0.0	0.0	180.4	0.00	100.00
131.0-132.0	0.0	0.0	180.4	0.00	100.00
132.0-133.0	0.0	0.0	180.4	0.00	100.00
133.0-134.0	0.0	0.0	180.4	0.00	100.00
134.0-135.0	0.0	0.0	180.4	0.00	100.00
135.0-136.0	0.0	0.0	180.4	0.00	100.00
136.0-137.0	0.0	0.0	180.4	0.00	100.00
137.0-138.0	0.0	0.0	180.4	0.00	100.00
138.0-139.0	0.0	0.0	180.4	0.00	100.00
139.0-140.0	0.0	0.0	180.4	0.00	100.00
140.0-141.0	0.0	0.0	180.4	0.00	100.00
141.0-142.0	0.0	0.0	180.4	0.00	100.00
142.0-143.0	0.0	0.0	180.4	0.00	100.00
143.0-144.0	0.0	0.0	180.4	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-1600L

Distance: 8.443 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	0.0	0.0	180.4	0.00	100.00
145.0-146.0	0.0	0.0	180.4	0.00	100.00
146.0-147.0	0.0	0.0	180.4	0.00	100.00
147.0-148.0	0.0	0.0	180.4	0.00	100.00
148.0-149.0	0.0	0.0	180.4	0.00	100.00
149.0-150.0	0.0	0.0	180.4	0.00	100.00
150.0-151.0	0.0	0.0	180.4	0.00	100.00
151.0-152.0	0.0	0.0	180.4	0.00	100.00
152.0-153.0	0.0	0.0	180.4	0.00	100.00
153.0-154.0	0.0	0.0	180.4	0.00	100.00
154.0-155.0	0.0	0.0	180.4	0.00	100.00
155.0-156.0	0.0	0.0	180.4	0.00	100.00
156.0-157.0	0.0	0.0	180.4	0.00	100.00
157.0-158.0	0.0	0.0	180.4	0.00	100.00
158.0-159.0	0.0	0.0	180.4	0.00	100.00
159.0-160.0	0.0	0.0	180.4	0.00	100.00
160.0-161.0	0.0	0.0	180.4	0.00	100.00
161.0-162.0	0.0	0.0	180.4	0.00	100.00
162.0-163.0	0.0	0.0	180.4	0.00	100.00
163.0-164.0	0.0	0.0	180.4	0.00	100.00
164.0-165.0	0.0	0.0	180.4	0.00	100.00
165.0-166.0	0.0	0.0	180.4	0.00	100.00
166.0-167.0	0.0	0.0	180.4	0.00	100.00
167.0-168.0	0.0	0.0	180.4	0.00	100.00
168.0-169.0	0.0	0.0	180.4	0.00	100.00
169.0-170.0	0.0	0.0	180.4	0.00	100.00
170.0-171.0	0.0	0.0	180.4	0.00	100.00
171.0-172.0	0.0	0.0	180.4	0.00	100.00
172.0-173.0	0.0	0.0	180.4	0.00	100.00
173.0-174.0	0.0	0.0	180.4	0.00	100.00
174.0-175.0	0.0	0.0	180.4	0.00	100.00
175.0-176.0	0.0	0.0	180.4	0.00	100.00
176.0-177.0	0.0	0.0	180.4	0.00	100.00
177.0-178.0	0.0	0.0	180.4	0.00	100.00
178.0-179.0	0.0	0.0	180.4	0.00	100.00
179.0-180.0	0.0	0.0	180.4	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-1600L

Distance: 8.443 m

Humidity:

Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	454.0	451.3	454.0	451.3	454.0					
G1.0	450.3	452.9	454.1	447.5	450.3					
G2.0	444.9	452.5	452.1	442.1	444.9					
G3.0	437.0	448.9	446.8	433.6	437.0					
G4.0	427.5	443.2	439.0	422.6	427.5					
G5.0	415.7	434.6	428.5	410.5	415.7					
G6.0	401.1	422.9	415.0	395.0	401.1					
G7.0	385.1	409.5	399.8	378.1	385.1					
G8.0	366.4	393.5	382.3	358.2	366.4					
G9.0	347.7	378.0	363.9	339.7	347.7					
G10.0	327.8	359.5	344.5	319.5	327.8					
G11.0	305.3	338.0	322.4	297.2	305.3					
G12.0	285.2	318.4	302.1	277.2	285.2					
G13.0	264.1	297.6	281.0	256.0	264.1					
G14.0	242.0	275.6	257.5	233.1	242.0					
G15.0	221.4	255.6	237.1	214.0	221.4					
G16.0	200.7	233.1	214.8	193.1	200.7					
G17.0	182.4	214.3	195.6	175.5	182.4					
G18.0	166.6	195.4	176.8	159.6	166.6					
G19.0	150.3	177.1	158.2	143.2	150.3					
G20.0	137.2	161.2	143.4	130.1	137.2					
G21.0	124.9	146.5	129.5	117.7	124.9					
G22.0	113.0	132.5	116.2	105.1	113.0					
G23.0	102.3	121.0	104.5	95.2	102.3					
G24.0	92.1	109.2	93.3	84.9	92.1					
G25.0	83.3	99.4	83.5	76.2	83.3					
G26.0	75.5	89.9	74.3	68.8	75.5					
G27.0	67.8	80.6	65.3	61.1	67.8					
G28.0	60.6	72.1	57.8	55.1	60.6					
G29.0	54.8	64.2	50.7	49.4	54.8					
G30.0	48.8	56.7	44.4	44.0	48.8					
G31.0	43.9	50.3	39.1	39.2	43.9					
G32.0	38.8	44.2	34.2	34.8	38.8					
G33.0	34.7	39.2	30.1	31.0	34.7					
G34.0	30.9	34.9	26.7	27.6	30.9					
G35.0	27.3	30.5	23.3	23.9	27.3					
G36.0	24.2	27.1	20.7	20.8	24.2					

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-1600L

Distance: 8.443 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	21.3	24.0	18.5	18.1	21.3					
G38.0	18.2	21.3	16.3	15.4	18.2					
G39.0	15.5	19.0	14.3	13.3	15.5					
G40.0	13.3	16.7	12.5	11.4	13.3					
G41.0	11.3	14.8	10.9	9.8	11.3					
G42.0	9.8	12.9	9.8	8.5	9.8					
G43.0	8.5	11.2	8.5	7.4	8.5					
G44.0	7.3	9.7	7.5	6.7	7.3					
G45.0	6.7	8.6	6.6	6.2	6.7					
G46.0	6.1	7.5	6.1	5.8	6.1					
G47.0	5.6	6.7	5.6	5.5	5.6					
G48.0	5.3	6.1	5.2	5.1	5.3					
G49.0	5.0	5.7	4.9	4.9	5.0					
G50.0	4.7	5.3	4.6	4.6	4.7					
G51.0	4.5	5.0	4.3	4.3	4.5					
G52.0	4.3	4.8	4.2	4.1	4.3					
G53.0	4.1	4.6	4.0	3.9	4.1					
G54.0	3.8	4.3	3.8	3.8	3.8					
G55.0	3.7	4.1	3.7	3.7	3.7					
G56.0	3.6	4.0	3.5	3.4	3.6					
G57.0	3.5	3.8	3.4	3.3	3.5					
G58.0	3.2	3.7	3.2	3.2	3.2					
G59.0	3.1	3.5	3.1	3.2	3.1					
G60.0	3.1	3.5	3.0	3.2	3.1					
G61.0	3.1	3.2	2.9	3.2	3.1					
G62.0	3.1	3.3	2.9	3.1	3.1					
G63.0	3.1	3.2	2.9	3.1	3.1					
G64.0	3.0	3.2	2.8	3.1	3.0					
G65.0	3.0	3.2	2.9	3.1	3.0					
G66.0	3.1	3.2	2.9	3.1	3.1					
G67.0	3.1	3.2	2.9	3.1	3.1					
G68.0	3.0	3.3	2.9	3.1	3.0					
G69.0	3.1	3.2	2.9	3.1	3.1					
G70.0	3.0	3.2	2.9	3.1	3.0					
G71.0	3.0	3.2	2.9	3.0	3.0					
G72.0	3.0	3.3	2.9	3.1	3.0					
G73.0	3.1	3.2	2.9	3.1	3.1					

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-1600L

Distance: 8.443 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	3.0	3.2	2.9	3.2	3.0					
G75.0	3.1	3.1	3.0	3.0	3.1					
G76.0	3.1	3.2	2.9	3.1	3.1					
G77.0	3.1	3.2	2.9	3.0	3.1					
G78.0	3.0	3.2	2.9	3.1	3.0					
G79.0	3.0	3.2	2.9	3.1	3.0					
G80.0	3.0	3.3	2.8	3.1	3.0					
G81.0	3.1	3.2	2.8	3.1	3.1					
G82.0	3.1	3.2	2.8	3.1	3.1					
G83.0	3.1	3.2	2.9	3.2	3.1					
G84.0	3.0	3.2	2.9	3.2	3.0					
G85.0	3.0	3.3	2.8	3.1	3.0					
G86.0	3.0	3.3	2.9	3.1	3.0					
G87.0	3.0	3.3	2.9	3.1	3.0					
G88.0	3.0	3.3	2.9	3.2	3.0					
G89.0	3.0	3.3	2.8	3.1	3.0					
G90.0	3.1	3.3	2.8	3.2	3.1					
G91.0	3.0	3.2	2.8	3.1	3.0					
G92.0	3.1	3.3	2.8	3.1	3.1					
G93.0	3.0	3.2	2.8	3.1	3.0					
G94.0	3.1	3.2	2.8	3.2	3.1					
G95.0	3.0	3.2	2.9	3.2	3.0					
G96.0	3.0	3.2	2.8	3.1	3.0					
G97.0	3.0	3.2	2.8	3.2	3.0					
G98.0	3.1	3.2	2.8	3.1	3.1					
G99.0	3.0	3.3	2.8	3.1	3.0					
G100.0	3.0	3.3	2.8	3.2	3.0					
G101.0	0.0	0.0	0.0	0.0	0.0					
G102.0	0.0	0.0	0.0	0.0	0.0					
G103.0	0.0	0.0	0.0	0.0	0.0					
G104.0	0.0	0.0	0.0	0.0	0.0					
G105.0	0.0	0.0	0.0	0.0	0.0					
G106.0	0.0	0.0	0.0	0.0	0.0					
G107.0	0.0	0.0	0.0	0.0	0.0					
G108.0	0.0	0.0	0.0	0.0	0.0					
G109.0	0.0	0.0	0.0	0.0	0.0					
G110.0	0.0	0.0	0.0	0.0	0.0					

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-1600L

Distance: 8.443 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	0.0	0.0	0.0	0.0	0.0					
G112.0	0.0	0.0	0.0	0.0	0.0					
G113.0	0.0	0.0	0.0	0.0	0.0					
G114.0	0.0	0.0	0.0	0.0	0.0					
G115.0	0.0	0.0	0.0	0.0	0.0					
G116.0	0.0	0.0	0.0	0.0	0.0					
G117.0	0.0	0.0	0.0	0.0	0.0					
G118.0	0.0	0.0	0.0	0.0	0.0					
G119.0	0.0	0.0	0.0	0.0	0.0					
G120.0	0.0	0.0	0.0	0.0	0.0					
G121.0	0.0	0.0	0.0	0.0	0.0					
G122.0	0.0	0.0	0.0	0.0	0.0					
G123.0	0.0	0.0	0.0	0.0	0.0					
G124.0	0.0	0.0	0.0	0.0	0.0					
G125.0	0.0	0.0	0.0	0.0	0.0					
G126.0	0.0	0.0	0.0	0.0	0.0					
G127.0	0.0	0.0	0.0	0.0	0.0					
G128.0	0.0	0.0	0.0	0.0	0.0					
G129.0	0.0	0.0	0.0	0.0	0.0					
G130.0	0.0	0.0	0.0	0.0	0.0					
G131.0	0.0	0.0	0.0	0.0	0.0					
G132.0	0.0	0.0	0.0	0.0	0.0					
G133.0	0.0	0.0	0.0	0.0	0.0					
G134.0	0.0	0.0	0.0	0.0	0.0					
G135.0	0.0	0.0	0.0	0.0	0.0					
G136.0	0.0	0.0	0.0	0.0	0.0					
G137.0	0.0	0.0	0.0	0.0	0.0					
G138.0	0.0	0.0	0.0	0.0	0.0					
G139.0	0.0	0.0	0.0	0.0	0.0					
G140.0	0.0	0.0	0.0	0.0	0.0					
G141.0	0.0	0.0	0.0	0.0	0.0					
G142.0	0.0	0.0	0.0	0.0	0.0					
G143.0	0.0	0.0	0.0	0.0	0.0					
G144.0	0.0	0.0	0.0	0.0	0.0					
G145.0	0.0	0.0	0.0	0.0	0.0					
G146.0	0.0	0.0	0.0	0.0	0.0					
G147.0	0.0	0.0	0.0	0.0	0.0					

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-1600L

Distance: 8.443 m

Humidity:

Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	0.0	0.0	0.0	0.0	0.0					
G149.0	0.0	0.0	0.0	0.0	0.0					
G150.0	0.0	0.0	0.0	0.0	0.0					
G151.0	0.0	0.0	0.0	0.0	0.0					
G152.0	0.0	0.0	0.0	0.0	0.0					
G153.0	0.0	0.0	0.0	0.0	0.0					
G154.0	0.0	0.0	0.0	0.0	0.0					
G155.0	0.0	0.0	0.0	0.0	0.0					
G156.0	0.0	0.0	0.0	0.0	0.0					
G157.0	0.0	0.0	0.0	0.0	0.0					
G158.0	0.0	0.0	0.0	0.0	0.0					
G159.0	0.0	0.0	0.0	0.0	0.0					
G160.0	0.0	0.0	0.0	0.0	0.0					
G161.0	0.0	0.0	0.0	0.0	0.0					
G162.0	0.0	0.0	0.0	0.0	0.0					
G163.0	0.0	0.0	0.0	0.0	0.0					
G164.0	0.0	0.0	0.0	0.0	0.0					
G165.0	0.0	0.0	0.0	0.0	0.0					
G166.0	0.0	0.0	0.0	0.0	0.0					
G167.0	0.0	0.0	0.0	0.0	0.0					
G168.0	0.0	0.0	0.0	0.0	0.0					
G169.0	0.0	0.0	0.0	0.0	0.0					
G170.0	0.0	0.0	0.0	0.0	0.0					
G171.0	0.0	0.0	0.0	0.0	0.0					
G172.0	0.0	0.0	0.0	0.0	0.0					
G173.0	0.0	0.0	0.0	0.0	0.0					
G174.0	0.0	0.0	0.0	0.0	0.0					
G175.0	0.0	0.0	0.0	0.0	0.0					
G176.0	0.0	0.0	0.0	0.0	0.0					
G177.0	0.0	0.0	0.0	0.0	0.0					
G178.0	0.0	0.0	0.0	0.0	0.0					
G179.0	0.0	0.0	0.0	0.0	0.0					
G180.0	0.0	0.0	0.0	0.0	0.0					

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-1600L

Distance: 8.443 m

Humidity:

Inspector: