

Report No.:

Test Time: 2025-02-15 09:53

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): 70

Luminous Height (mm): 220

Current: 0.114 A

Power Factor: 1.000

Luminous Width (mm): 70

Voltage: 48.0 V

Power: 5.47 W

Photometric Results

CIE Class: Direct

Measurement Flux: 487.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%,80%,100%): H44.9,H29.3,H18.2,H0

Vertical Diffuse Angle(10%,50%,80%,100%): V46.2,V30.2,V19.1,V2

Luminaire Efficacy Rating (LER): 89.09

Max. Intensity: 1798.68 cd

S/MH(C0/C180): 0.49

Total Rated Lamp Lumens: 487.1 lm

Efficiency: 100%

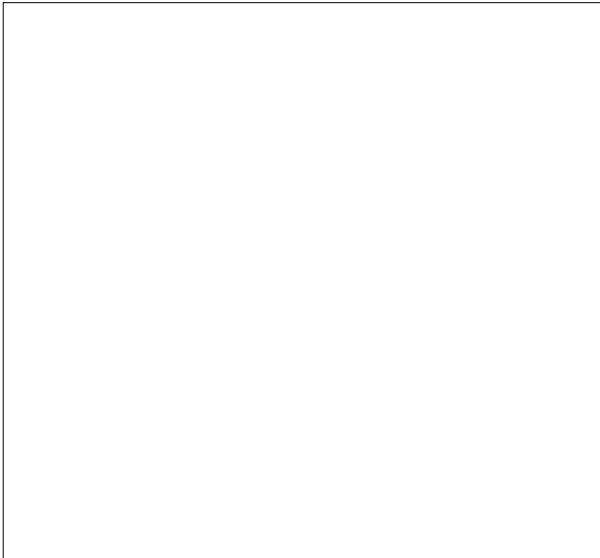
Upward Ratio: 1%

Central Intensity: 1788.71 cd

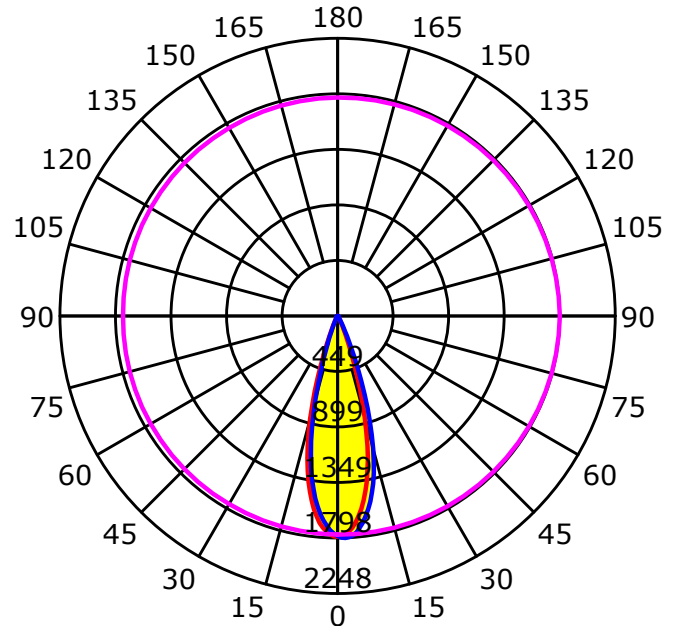
Pos of Max. Intensity: H90 V2

S/MH(C90/C270): 0.51

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 29.7°

— C0-C180 — C90-C270 — G2

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

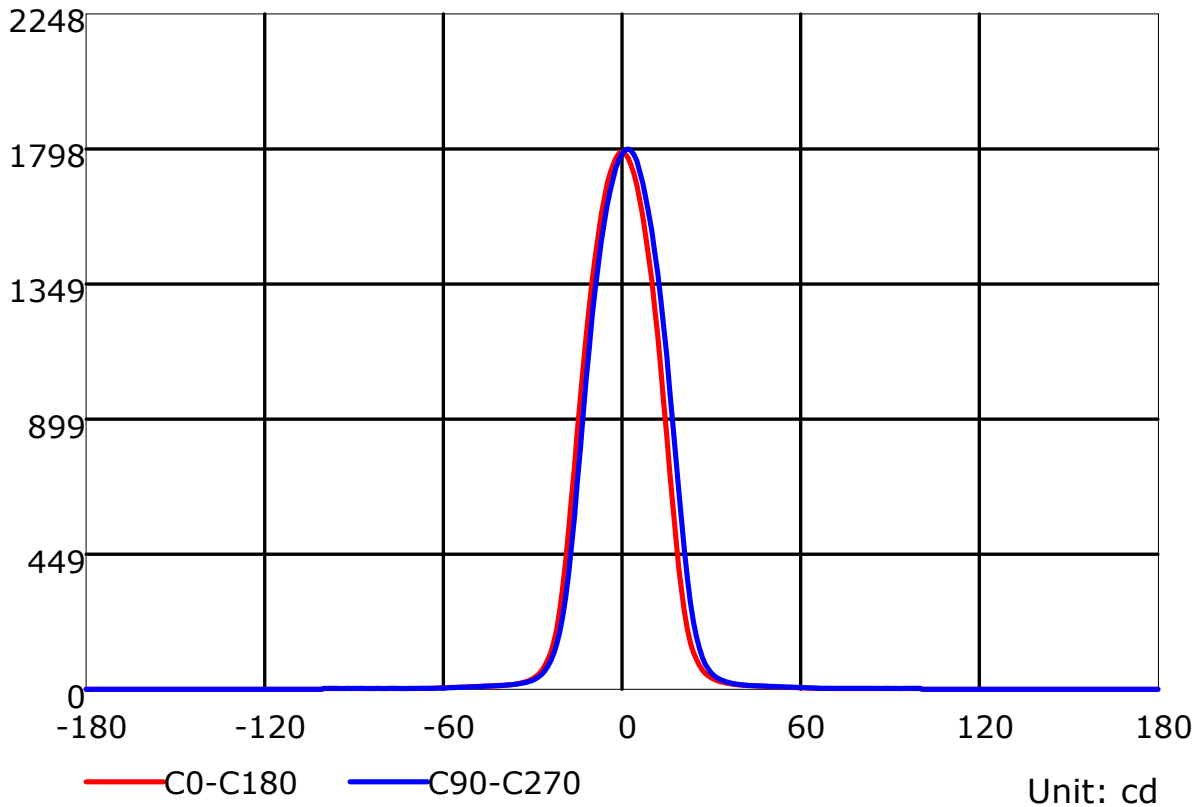
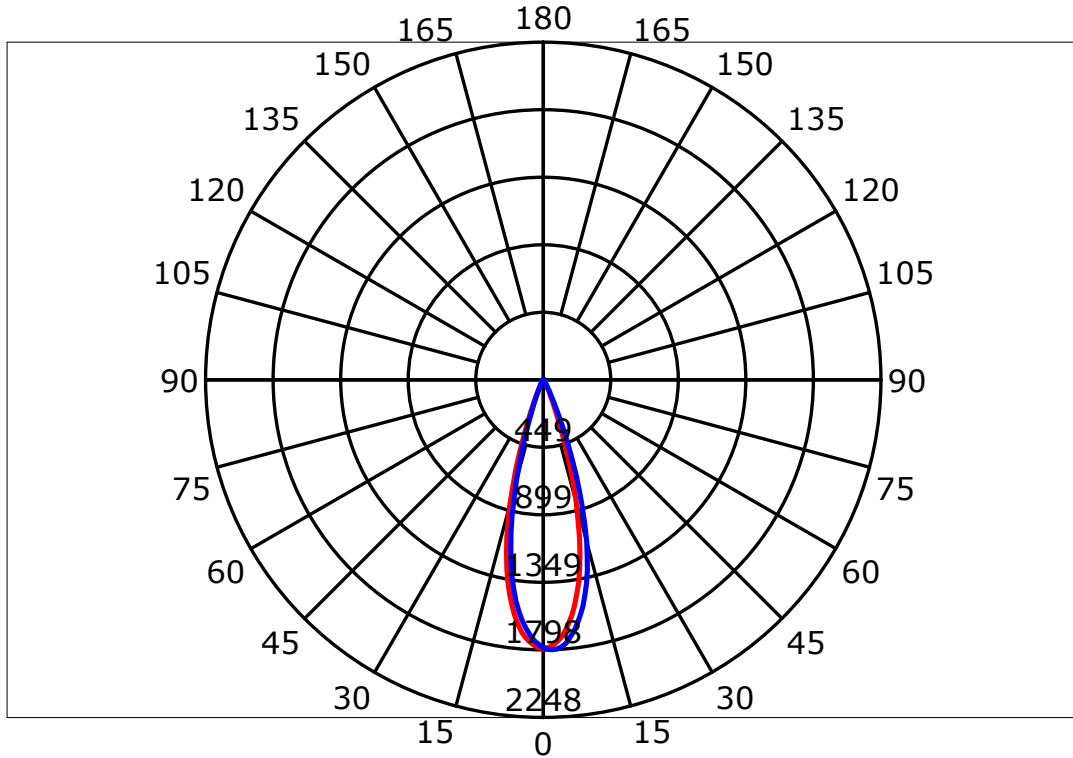
Test Device: GPM-1600L

Distance: 8.443 m

Humidity:

Inspector:

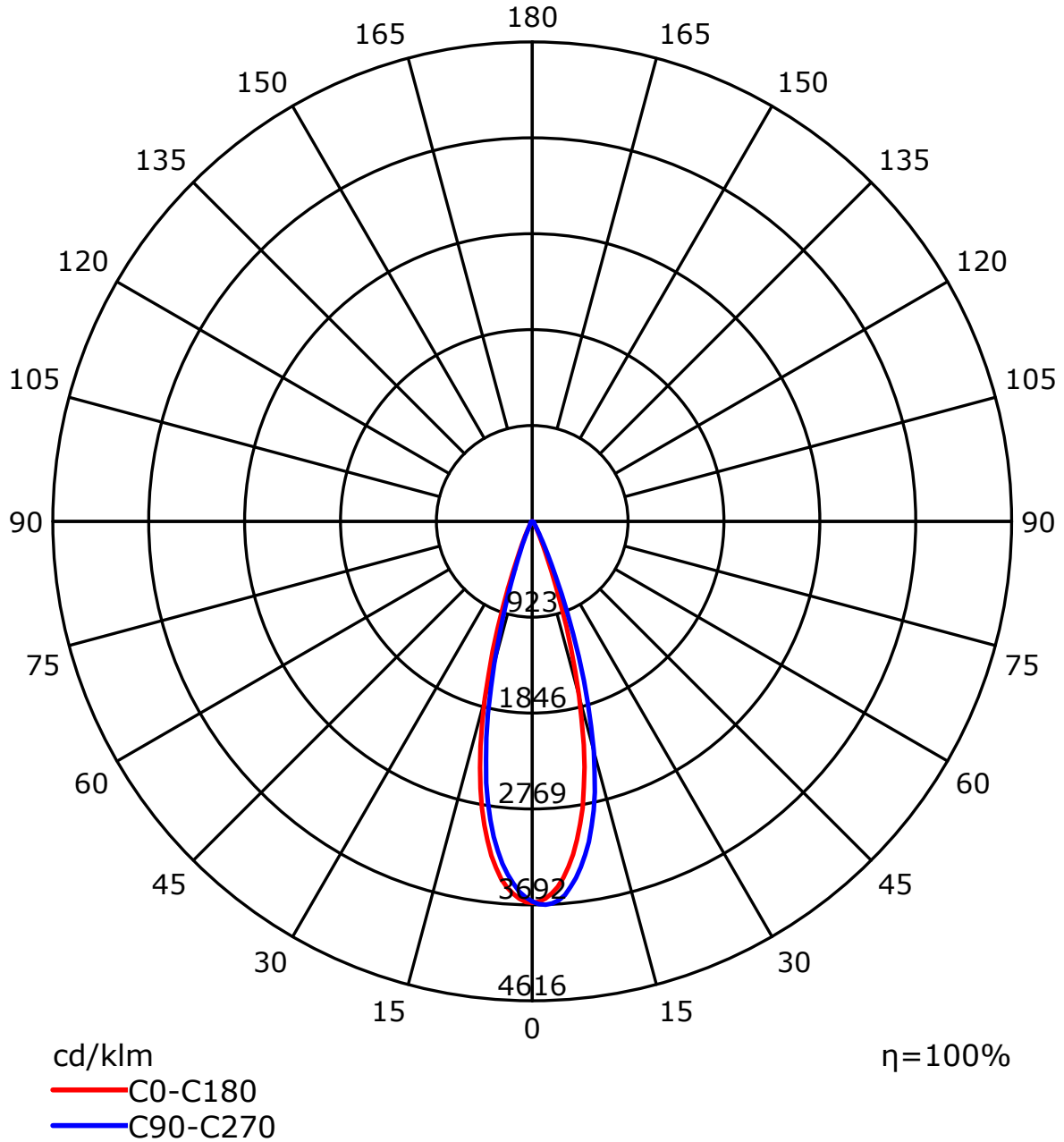
Luminous Intensity Distribution Curve



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)



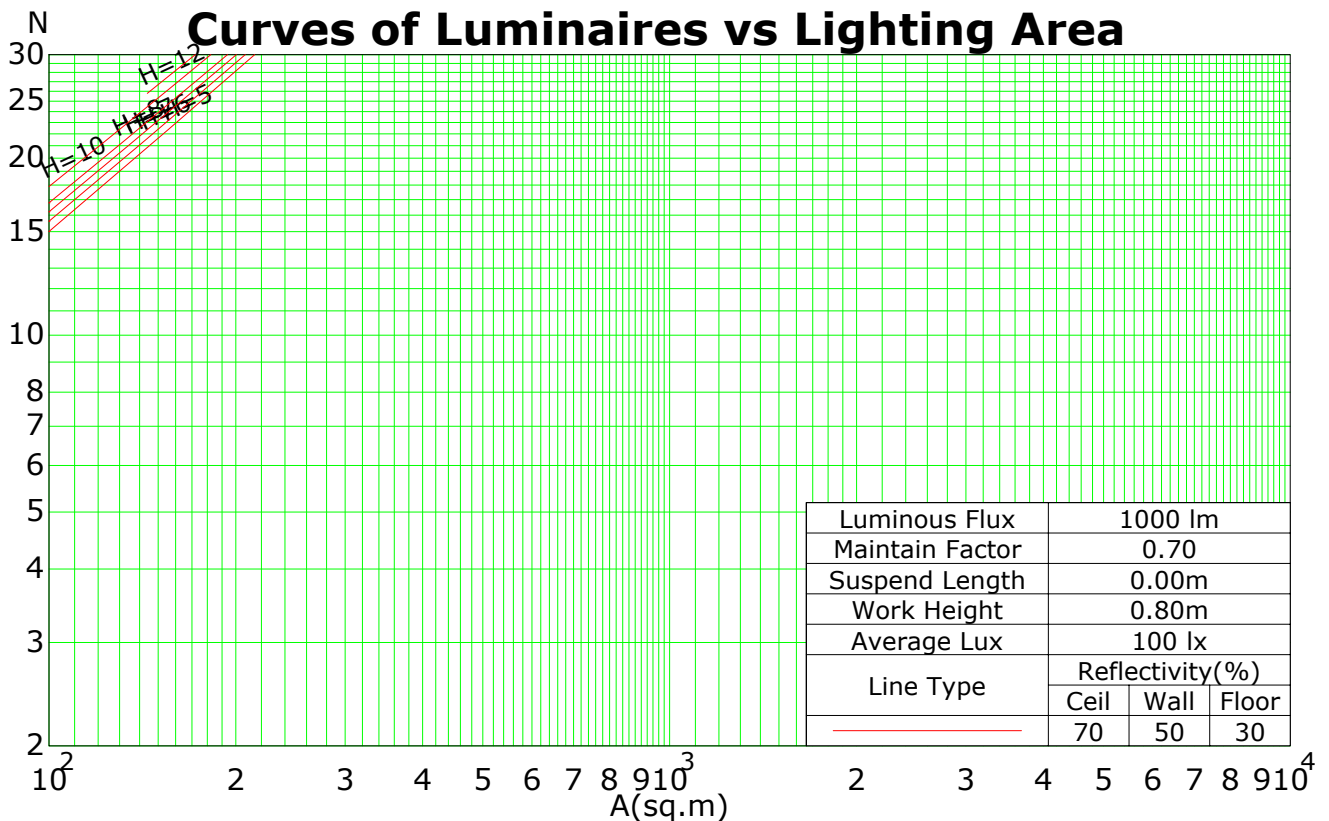
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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
RCCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	114	112	110	108	112	110	108	106	105	104	103	102	100	99	98	97	96	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	92	90	89	87
4	103	97	92	89	101	96	92	89	93	90	88	92	89	86	90	87	85	84
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	82	81
6	96	89	85	82	95	89	85	81	87	84	81	86	83	80	85	82	80	79
7	93	86	82	79	92	86	82	79	85	81	78	83	80	78	82	80	77	76
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74
9	88	81	77	74	87	81	76	74	80	76	73	79	76	73	78	75	73	72
10	86	79	74	72	85	78	74	71	77	74	71	77	73	71	76	73	71	70

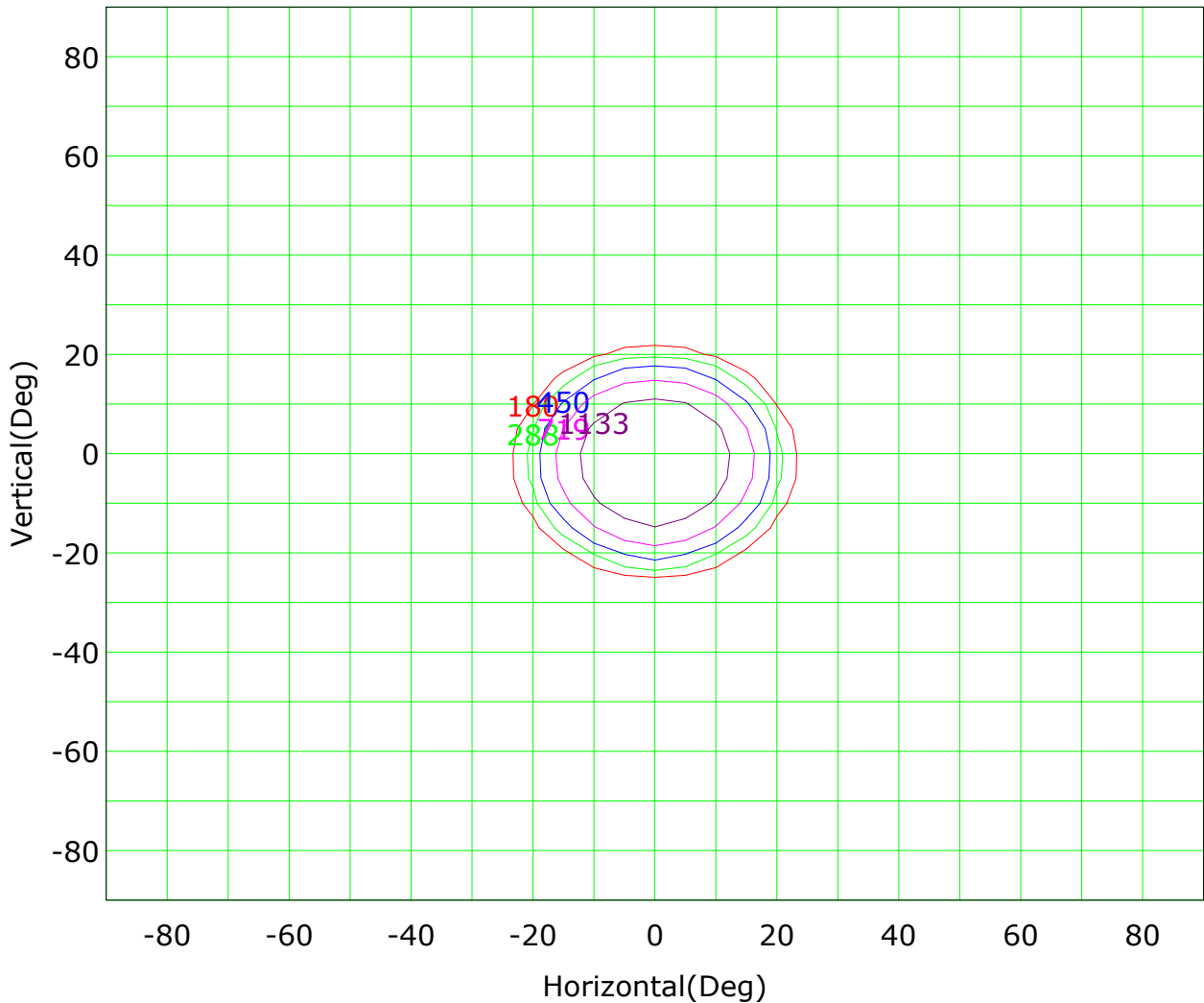
Spacing Criteria (0-180): 0.49
 Spacing Criteria (90-270): 0.51
 Spacing Criteria (Diagonal): 0.47



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)



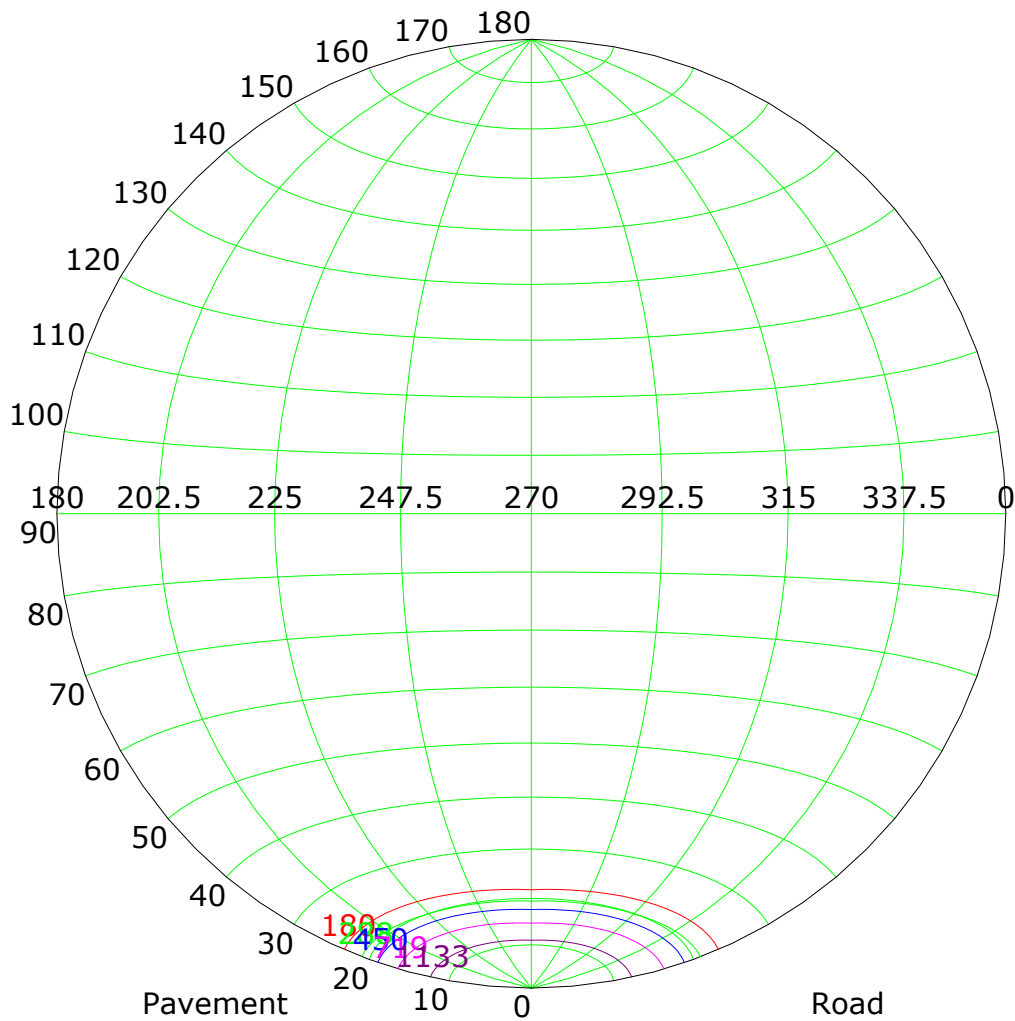
Imax (100%): 1799 cd

— (10%): 180 cd	— (16%): 288 cd
— (25%): 450 cd	— (40%): 719 cd
— (63%): 1133 cd	— (100%): 1799 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)



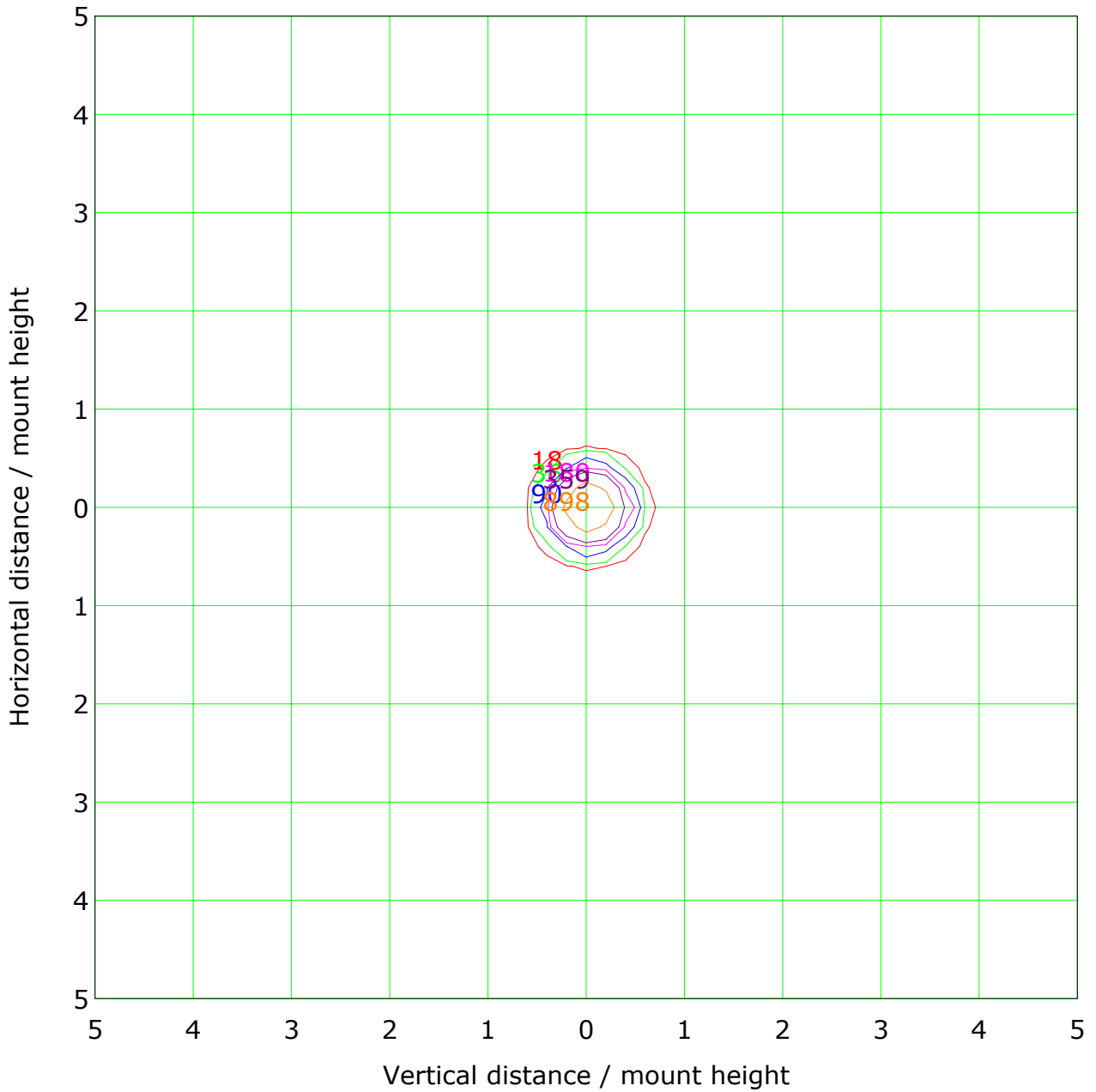
Imax (100%): 1799 cd

— (10%): 180 cd	— (16%): 288 cd
— (25%): 450 cd	— (40%): 719 cd
— (63%): 1133 cd	— (100%): 1799 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



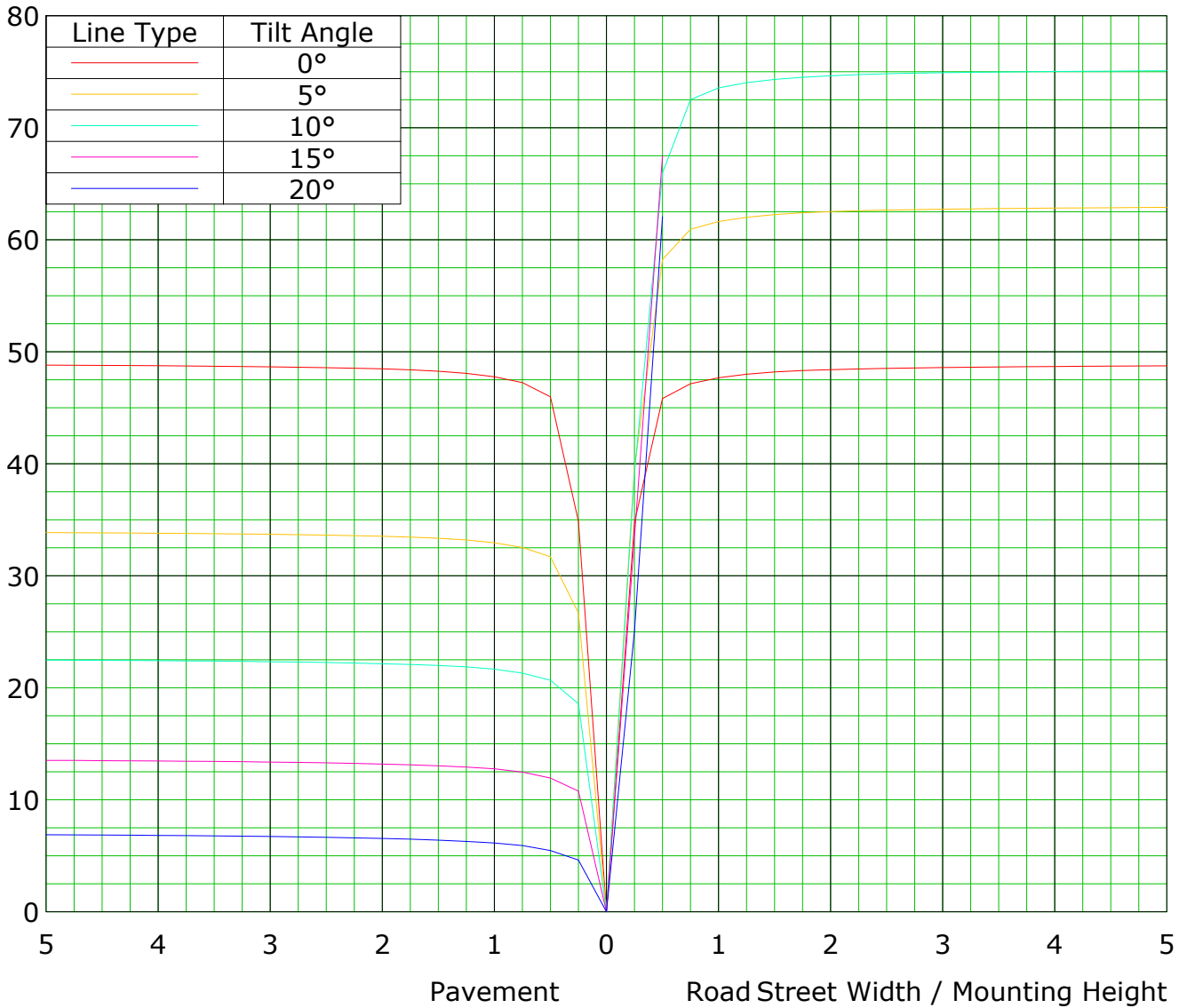
Mounting Height: 1.0m		Max Lux(100%): 1795.4 lx
<ul style="list-style-type: none"> — (1%): 18.0 lx — (5%): 89.8 lx — (20%): 359.1 lx — (100%):1795.4 lx 	<ul style="list-style-type: none"> — (2%): 35.9 lx — (10%): 179.5 lx — (50%): 897.7 lx 	

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(%)



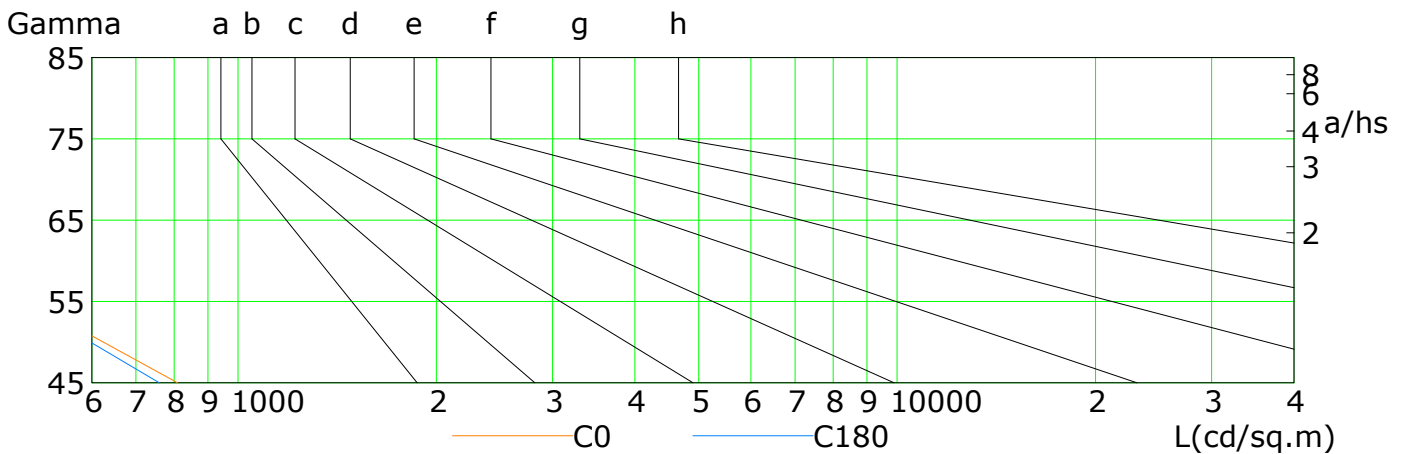
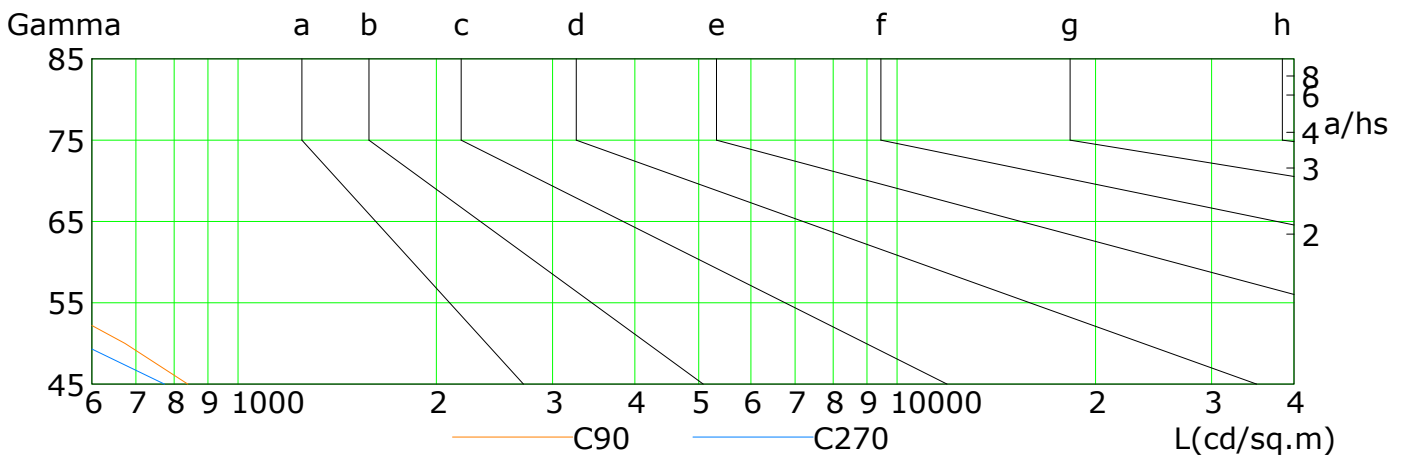
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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)							
		2000	1000	500	<=300				
1.15	A								
1.50	B								
1.85	C								
2.20	D								
2.55	E								

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	810	625	481	335	213	193	180	182	194
C90	839	674	518	398	275	216	199	204	204
C180	759	597	458	335	213	190	183	175	188
C270	773	576	427	296	213	199	196	198	201

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

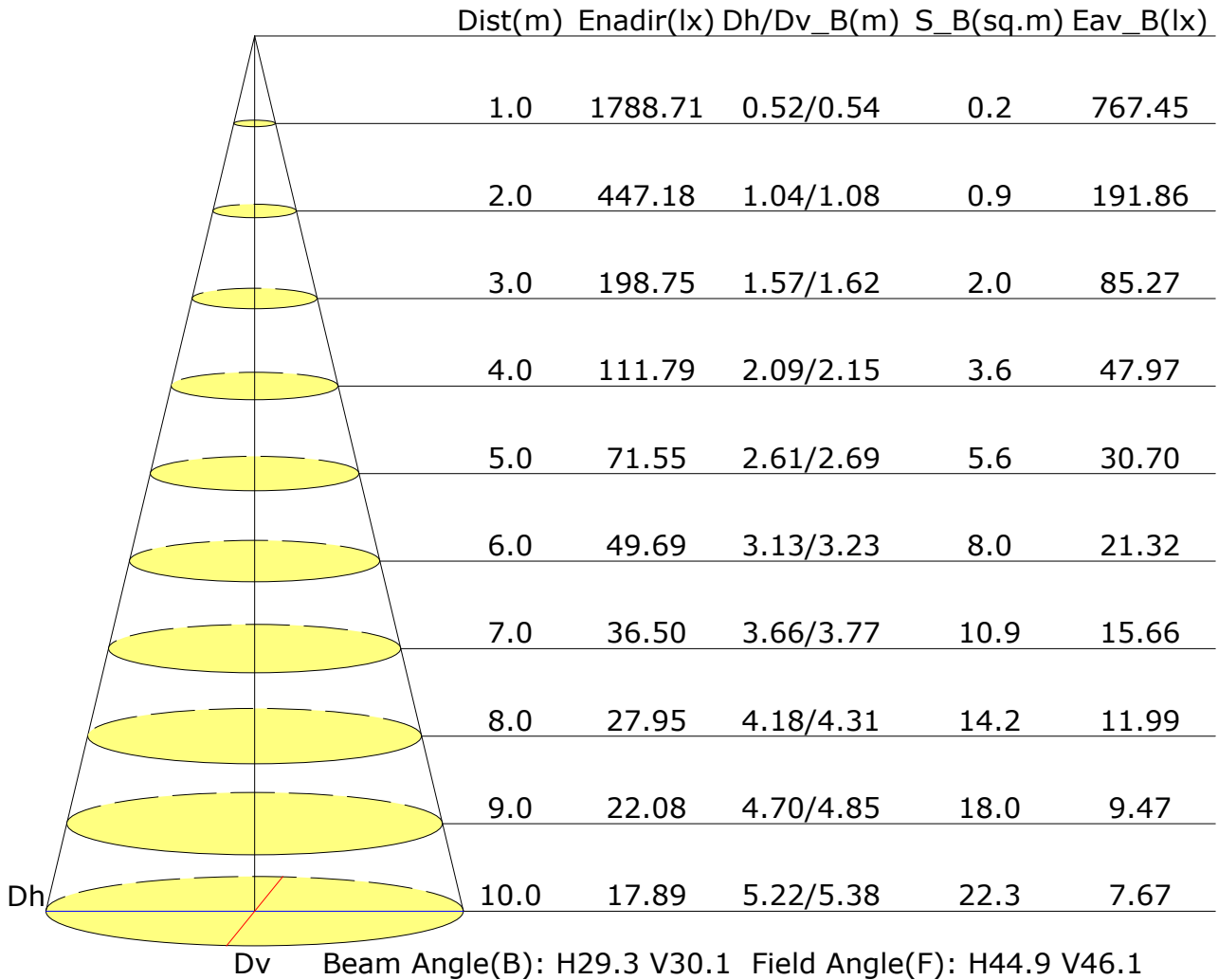
Test Device: GPM-1600L

Distance: 8.443 m

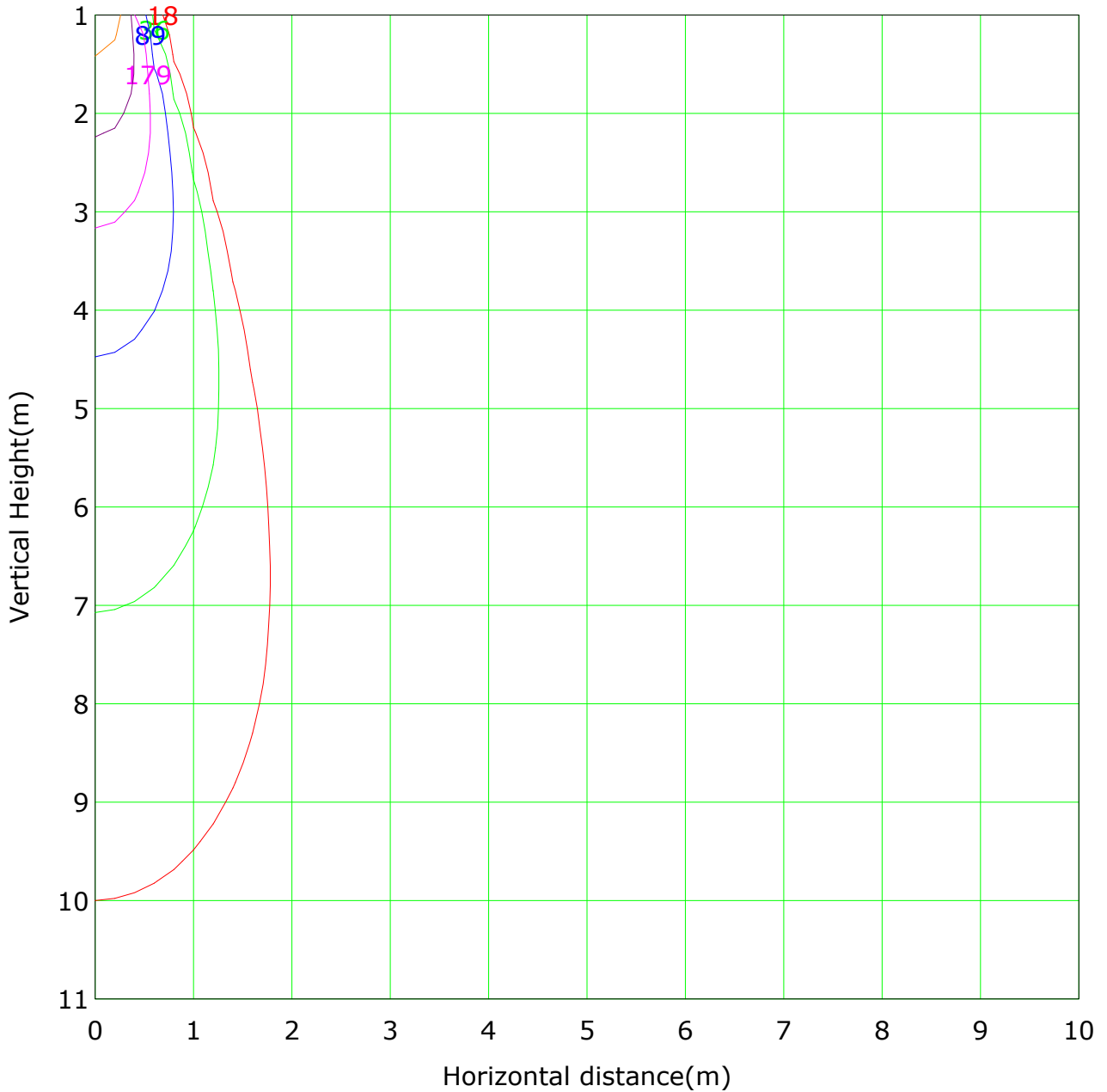
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1788.7 lx

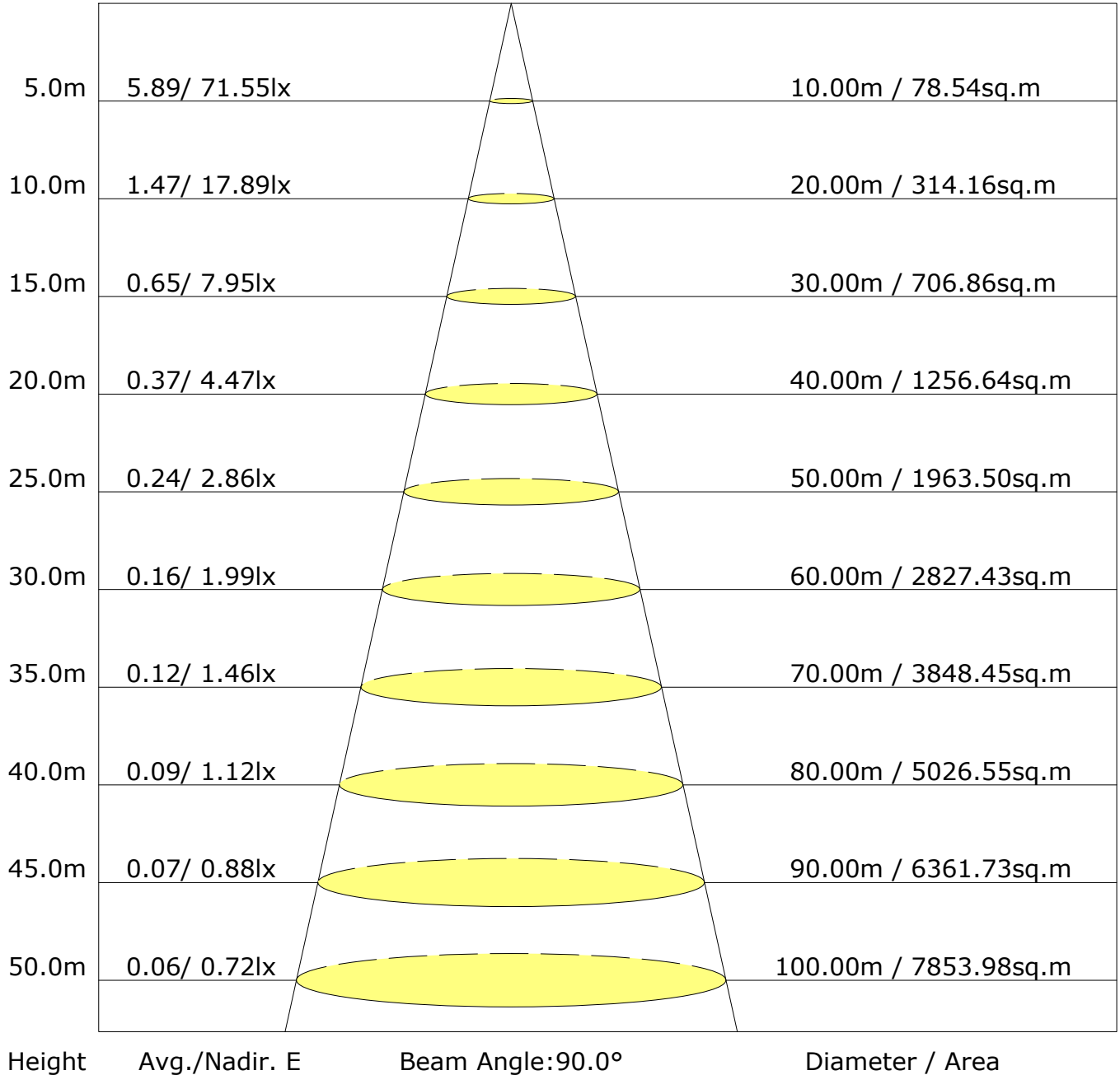
— (1%): 17.9 lx	— (2%): 35.8 lx
— (5%): 89.4 lx	— (10%): 178.9 lx
— (20%): 357.7 lx	— (50%): 894.4 lx
— (100%):1788.7 lx	

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:

The Average Illuminance Effective Figure

Flux Out: 462.36lm



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	1.9	2.5	2.1	2.7	2.9	2.0	2.6	2.2	2.8	3.0
3H	2.3	2.9	2.6	3.2	3.4	2.5	3.1	2.8	3.3	3.6
4H	2.7	3.2	3.0	3.5	3.8	2.9	3.4	3.2	3.7	4.0
6H	3.1	3.7	3.5	3.9	4.2	3.4	3.9	3.7	4.2	4.5
8H	3.4	3.9	3.8	4.2	4.5	3.7	4.2	4.0	4.5	4.8
12H	3.7	4.2	4.1	4.5	4.9	4.0	4.5	4.4	4.8	5.2
X=4H Y=2H	2.0	2.6	2.3	2.8	3.1	2.1	2.7	2.4	3.0	3.2
3H	2.6	3.1	3.0	3.4	3.8	2.8	3.3	3.2	3.6	3.9
4H	3.1	3.5	3.5	3.9	4.2	3.3	3.7	3.7	4.1	4.5
6H	3.8	4.2	4.2	4.5	4.9	4.0	4.4	4.4	4.8	5.2
8H	4.2	4.5	4.6	4.9	5.3	4.4	4.8	4.9	5.2	5.6
12H	4.6	4.9	5.1	5.4	5.8	4.9	5.2	5.3	5.6	6.1
X=8H Y=4H	3.3	3.6	3.7	4.0	4.4	3.5	3.8	3.9	4.2	4.6
6H	4.1	4.4	4.6	4.8	5.3	4.4	4.6	4.8	5.1	5.6
8H	4.7	4.9	5.1	5.4	5.9	4.9	5.2	5.4	5.6	6.1
12H	5.3	5.5	5.8	6.0	6.5	5.5	5.8	6.0	6.3	6.8
X=12H Y=4H	3.3	3.6	3.7	4.0	4.5	3.5	3.8	3.9	4.2	4.7
6H	4.2	4.5	4.7	4.9	5.4	4.4	4.7	4.9	5.2	5.6
8H	4.8	5.0	5.3	5.5	6.0	5.1	5.3	5.6	5.8	6.3
Variations with the observer position at spacings:										
S=1.0H	+1.1/-0.7					+0.7/-0.6				
S=1.5H	+2.2/-1.5					+1.5/-1.4				
S=2.0H	+3.5/-2.2					+2.6/-1.9				

Calculate in accordance with CIE Pub.117. The table is revised with 487lm ($8\log(F/F_0) = -2.5$).

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-1600L
Distance: 8.443 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	242	49.6
	FL (0°-30°)	222	45.5
	FM (30°-60°)	15	3.1
	FH (60°-80°)	4	0.7
	FVH (80°-90°)	2	0.3
	BACK LIGHT	242	49.6
	BL (0°-30°)	222	45.6
	BM (30°-60°)	14	3.0
	BH (60°-80°)	4	0.7
	BVH (80°-90°)	2	0.3
	UP LIGHT	4	0.7
	UL (90°-100°)	3	0.7
	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)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 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:

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	1.00	1.03	1.05	1.07	1.09	1.11	1.12	1.14	1.15	
	0.30		0.97	1.00	1.02	1.04	1.07	1.09	1.10	1.12	1.13	
	0.20		0.95	0.98	1.00	1.02	1.05	1.07	1.08	1.10	1.12	
0.50	0.50	0.20	0.99	1.01	1.03	1.05	1.06	1.08	1.09	1.10	1.11	
	0.30		0.96	0.99	1.01	1.02	1.04	1.06	1.07	1.08	1.09	
	0.20		0.94	0.97	0.99	1.00	1.03	1.04	1.05	1.07	1.08	
0.30	0.50	0.20	0.98	1.00	1.01	1.02	1.04	1.05	1.05	1.06	1.07	
	0.30		0.96	0.98	0.99	1.01	1.02	1.03	1.04	1.05	1.06	
	0.20		0.94	0.96	0.98	0.99	1.01	1.02	1.03	1.04	1.05	
0.00	0.00	0.00	0.92	0.94	0.95	0.96	0.98	0.98	0.99	1.00	1.00	
<p>Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.39	0.33	0.28	0.25	0.20	0.17	0.15	0.12	0.10	
	0.30		0.33	0.28	0.25	0.22	0.18	0.16	0.14	0.11	0.09	
	0.20		0.28	0.25	0.22	0.20	0.17	0.15	0.13	0.10	0.09	
0.50	0.50	0.20	0.36	0.30	0.26	0.23	0.18	0.20	0.13	0.10	0.09	
	0.30		0.31	0.26	0.23	0.20	0.17	0.14	0.12	0.10	0.08	
	0.20		0.27	0.23	0.21	0.19	0.16	0.13	0.12	0.09	0.08	
0.30	0.50	0.20	0.34	0.28	0.24	0.21	0.17	0.14	0.12	0.09	0.08	
	0.30		0.29	0.25	0.21	0.19	0.15	0.13	0.11	0.09	0.07	
	0.20		0.26	0.22	0.19	0.17	0.14	0.12	0.11	0.08	0.07	
0.00	0.00	0.00	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02	
<p>Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.12	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	
	0.30		0.09	0.11	0.13	0.14	0.16	0.18	0.18	0.20	0.21	
	0.20		0.07	0.09	0.11	0.13	0.15	0.16	0.17	0.19	0.20	
0.50	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	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.19	
0.30	0.50	0.20	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<p>Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1783.7	1.7	1.7	0.35	0.35
1.0-2.0	1775.7	5.1	6.8	1.05	1.40
2.0-3.0	1758.3	8.4	15.2	1.73	3.12
3.0-4.0	1733.3	11.6	26.8	2.38	5.51
4.0-5.0	1701.1	14.6	41.5	3.00	8.51
5.0-6.0	1658.4	17.4	58.9	3.58	12.09
6.0-7.0	1608.0	20.0	78.8	4.10	16.19
7.0-8.0	1549.7	22.2	101.0	4.55	20.74
8.0-9.0	1483.2	24.0	125.1	4.94	25.68
9.0-10.0	1412.0	25.6	150.6	5.25	30.92
10.0-11.0	1330.0	26.6	177.2	5.46	36.38
11.0-12.0	1240.5	27.1	204.3	5.57	41.95
12.0-13.0	1146.1	27.2	231.5	5.59	47.54
13.0-14.0	1040.1	26.6	258.2	5.47	53.00
14.0-15.0	931.6	25.6	283.7	5.25	58.25
15.0-16.0	820.3	24.0	307.8	4.94	63.19
16.0-17.0	708.4	22.1	329.8	4.53	67.72
17.0-18.0	604.7	19.9	349.8	4.09	71.81
18.0-19.0	502.6	17.5	367.3	3.59	75.40
19.0-20.0	408.7	15.0	382.2	3.07	78.48
20.0-21.0	328.9	12.6	394.9	2.59	81.07
21.0-22.0	259.9	10.4	405.3	2.14	83.21
22.0-23.0	204.0	8.6	413.9	1.76	84.97
23.0-24.0	160.3	7.0	420.9	1.44	86.41
24.0-25.0	126.3	5.7	426.6	1.18	87.59
25.0-26.0	100.7	4.8	431.4	0.98	88.57
26.0-27.0	80.1	3.9	435.3	0.80	89.37
27.0-28.0	64.0	3.2	438.5	0.67	90.04
28.0-29.0	52.5	2.7	441.3	0.56	90.60
29.0-30.0	43.6	2.4	443.6	0.48	91.08
30.0-31.0	36.8	2.1	445.7	0.42	91.50
31.0-32.0	31.8	1.8	447.5	0.37	91.88
32.0-33.0	27.7	1.6	449.1	0.34	92.21
33.0-34.0	24.7	1.5	450.6	0.31	92.52
34.0-35.0	22.0	1.4	452.0	0.28	92.80
35.0-36.0	19.9	1.3	453.3	0.26	93.06

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	18.2	1.2	454.5	0.24	93.30
37.0-38.0	16.7	1.1	455.6	0.23	93.53
38.0-39.0	15.6	1.1	456.6	0.22	93.75
39.0-40.0	14.6	1.0	457.7	0.21	93.96
40.0-41.0	13.8	1.0	458.6	0.20	94.16
41.0-42.0	13.2	1.0	459.6	0.20	94.36
42.0-43.0	12.7	0.9	460.5	0.19	94.55
43.0-44.0	12.1	0.9	461.5	0.19	94.74
44.0-45.0	11.7	0.9	462.4	0.18	94.93
45.0-46.0	11.2	0.9	463.2	0.18	95.11
46.0-47.0	10.8	0.9	464.1	0.18	95.28
47.0-48.0	10.4	0.8	464.9	0.17	95.46
48.0-49.0	10.0	0.8	465.8	0.17	95.62
49.0-50.0	9.5	0.8	466.5	0.16	95.79
50.0-51.0	9.0	0.8	467.3	0.16	95.94
51.0-52.0	8.6	0.7	468.0	0.15	96.09
52.0-53.0	8.2	0.7	468.8	0.15	96.24
53.0-54.0	7.8	0.7	469.4	0.14	96.38
54.0-55.0	7.4	0.7	470.1	0.14	96.52
55.0-56.0	7.1	0.6	470.8	0.13	96.65
56.0-57.0	6.7	0.6	471.4	0.13	96.78
57.0-58.0	6.3	0.6	472.0	0.12	96.90
58.0-59.0	5.9	0.6	472.5	0.11	97.01
59.0-60.0	5.6	0.5	473.0	0.11	97.12
60.0-61.0	5.2	0.5	473.5	0.10	97.22
61.0-62.0	4.7	0.5	474.0	0.09	97.31
62.0-63.0	4.4	0.4	474.4	0.09	97.40
63.0-64.0	4.0	0.4	474.8	0.08	97.48
64.0-65.0	3.8	0.4	475.2	0.08	97.56
65.0-66.0	3.6	0.4	475.5	0.07	97.63
66.0-67.0	3.4	0.3	475.9	0.07	97.70
67.0-68.0	3.3	0.3	476.2	0.07	97.77
68.0-69.0	3.3	0.3	476.5	0.07	97.84
69.0-70.0	3.2	0.3	476.9	0.07	97.91
70.0-71.0	3.2	0.3	477.2	0.07	97.97
71.0-72.0	3.2	0.3	477.5	0.07	98.04

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	477.9	0.07	98.11
73.0-74.0	3.1	0.3	478.2	0.07	98.18
74.0-75.0	3.1	0.3	478.5	0.07	98.24
75.0-76.0	3.1	0.3	478.8	0.07	98.31
76.0-77.0	3.1	0.3	479.2	0.07	98.38
77.0-78.0	3.1	0.3	479.5	0.07	98.45
78.0-79.0	3.1	0.3	479.8	0.07	98.51
79.0-80.0	3.1	0.3	480.2	0.07	98.58
80.0-81.0	3.1	0.3	480.5	0.07	98.65
81.0-82.0	3.1	0.3	480.8	0.07	98.72
82.0-83.0	3.1	0.3	481.2	0.07	98.79
83.0-84.0	3.1	0.3	481.5	0.07	98.86
84.0-85.0	3.1	0.3	481.8	0.07	98.93
85.0-86.0	3.1	0.3	482.2	0.07	99.00
86.0-87.0	3.1	0.3	482.5	0.07	99.07
87.0-88.0	3.1	0.3	482.9	0.07	99.13
88.0-89.0	3.1	0.3	483.2	0.07	99.20
89.0-90.0	3.1	0.3	483.5	0.07	99.27
90.0-91.0	3.1	0.3	483.9	0.07	99.34
91.0-92.0	3.1	0.3	484.2	0.07	99.41
92.0-93.0	3.1	0.3	484.5	0.07	99.48
93.0-94.0	3.1	0.3	484.9	0.07	99.55
94.0-95.0	3.1	0.3	485.2	0.07	99.62
95.0-96.0	3.1	0.3	485.6	0.07	99.69
96.0-97.0	3.1	0.3	485.9	0.07	99.76
97.0-98.0	3.1	0.3	486.2	0.07	99.83
98.0-99.0	3.1	0.3	486.6	0.07	99.90
99.0-100.0	3.1	0.3	486.9	0.07	99.97
100.0-101.0	1.5	0.2	487.1	0.03	100.00
101.0-102.0	0.0	0.0	487.1	0.00	100.00
102.0-103.0	0.0	0.0	487.1	0.00	100.00
103.0-104.0	0.0	0.0	487.1	0.00	100.00
104.0-105.0	0.0	0.0	487.1	0.00	100.00
105.0-106.0	0.0	0.0	487.1	0.00	100.00
106.0-107.0	0.0	0.0	487.1	0.00	100.00
107.0-108.0	0.0	0.0	487.1	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	487.1	0.00	100.00
109.0-110.0	0.0	0.0	487.1	0.00	100.00
110.0-111.0	0.0	0.0	487.1	0.00	100.00
111.0-112.0	0.0	0.0	487.1	0.00	100.00
112.0-113.0	0.0	0.0	487.1	0.00	100.00
113.0-114.0	0.0	0.0	487.1	0.00	100.00
114.0-115.0	0.0	0.0	487.1	0.00	100.00
115.0-116.0	0.0	0.0	487.1	0.00	100.00
116.0-117.0	0.0	0.0	487.1	0.00	100.00
117.0-118.0	0.0	0.0	487.1	0.00	100.00
118.0-119.0	0.0	0.0	487.1	0.00	100.00
119.0-120.0	0.0	0.0	487.1	0.00	100.00
120.0-121.0	0.0	0.0	487.1	0.00	100.00
121.0-122.0	0.0	0.0	487.1	0.00	100.00
122.0-123.0	0.0	0.0	487.1	0.00	100.00
123.0-124.0	0.0	0.0	487.1	0.00	100.00
124.0-125.0	0.0	0.0	487.1	0.00	100.00
125.0-126.0	0.0	0.0	487.1	0.00	100.00
126.0-127.0	0.0	0.0	487.1	0.00	100.00
127.0-128.0	0.0	0.0	487.1	0.00	100.00
128.0-129.0	0.0	0.0	487.1	0.00	100.00
129.0-130.0	0.0	0.0	487.1	0.00	100.00
130.0-131.0	0.0	0.0	487.1	0.00	100.00
131.0-132.0	0.0	0.0	487.1	0.00	100.00
132.0-133.0	0.0	0.0	487.1	0.00	100.00
133.0-134.0	0.0	0.0	487.1	0.00	100.00
134.0-135.0	0.0	0.0	487.1	0.00	100.00
135.0-136.0	0.0	0.0	487.1	0.00	100.00
136.0-137.0	0.0	0.0	487.1	0.00	100.00
137.0-138.0	0.0	0.0	487.1	0.00	100.00
138.0-139.0	0.0	0.0	487.1	0.00	100.00
139.0-140.0	0.0	0.0	487.1	0.00	100.00
140.0-141.0	0.0	0.0	487.1	0.00	100.00
141.0-142.0	0.0	0.0	487.1	0.00	100.00
142.0-143.0	0.0	0.0	487.1	0.00	100.00
143.0-144.0	0.0	0.0	487.1	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	487.1	0.00	100.00
145.0-146.0	0.0	0.0	487.1	0.00	100.00
146.0-147.0	0.0	0.0	487.1	0.00	100.00
147.0-148.0	0.0	0.0	487.1	0.00	100.00
148.0-149.0	0.0	0.0	487.1	0.00	100.00
149.0-150.0	0.0	0.0	487.1	0.00	100.00
150.0-151.0	0.0	0.0	487.1	0.00	100.00
151.0-152.0	0.0	0.0	487.1	0.00	100.00
152.0-153.0	0.0	0.0	487.1	0.00	100.00
153.0-154.0	0.0	0.0	487.1	0.00	100.00
154.0-155.0	0.0	0.0	487.1	0.00	100.00
155.0-156.0	0.0	0.0	487.1	0.00	100.00
156.0-157.0	0.0	0.0	487.1	0.00	100.00
157.0-158.0	0.0	0.0	487.1	0.00	100.00
158.0-159.0	0.0	0.0	487.1	0.00	100.00
159.0-160.0	0.0	0.0	487.1	0.00	100.00
160.0-161.0	0.0	0.0	487.1	0.00	100.00
161.0-162.0	0.0	0.0	487.1	0.00	100.00
162.0-163.0	0.0	0.0	487.1	0.00	100.00
163.0-164.0	0.0	0.0	487.1	0.00	100.00
164.0-165.0	0.0	0.0	487.1	0.00	100.00
165.0-166.0	0.0	0.0	487.1	0.00	100.00
166.0-167.0	0.0	0.0	487.1	0.00	100.00
167.0-168.0	0.0	0.0	487.1	0.00	100.00
168.0-169.0	0.0	0.0	487.1	0.00	100.00
169.0-170.0	0.0	0.0	487.1	0.00	100.00
170.0-171.0	0.0	0.0	487.1	0.00	100.00
171.0-172.0	0.0	0.0	487.1	0.00	100.00
172.0-173.0	0.0	0.0	487.1	0.00	100.00
173.0-174.0	0.0	0.0	487.1	0.00	100.00
174.0-175.0	0.0	0.0	487.1	0.00	100.00
175.0-176.0	0.0	0.0	487.1	0.00	100.00
176.0-177.0	0.0	0.0	487.1	0.00	100.00
177.0-178.0	0.0	0.0	487.1	0.00	100.00
178.0-179.0	0.0	0.0	487.1	0.00	100.00
179.0-180.0	0.0	0.0	487.1	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	1788.7	1782.1	1788.7	1782.1	1788.7					
G1.0	1783.6	1795.4	1785.3	1763.7	1783.6					
G2.0	1770.2	1798.7	1769.9	1738.6	1770.2					
G3.0	1746.7	1794.4	1746.7	1700.9	1746.7					
G4.0	1718.1	1781.0	1719.2	1659.6	1718.1					
G5.0	1678.1	1759.1	1682.6	1611.0	1678.1					
G6.0	1628.2	1722.7	1632.3	1553.0	1628.2					
G7.0	1573.9	1685.0	1579.2	1489.6	1573.9					
G8.0	1508.6	1636.8	1511.1	1413.2	1508.6					
G9.0	1437.2	1583.5	1441.3	1334.1	1437.2					
G10.0	1364.1	1527.0	1363.8	1245.3	1364.1					
G11.0	1269.4	1456.6	1275.9	1138.3	1269.4					
G12.0	1178.7	1386.7	1181.4	1036.9	1178.7					
G13.0	1075.3	1303.8	1081.4	925.0	1075.3					
G14.0	955.5	1208.5	971.3	800.2	955.5					
G15.0	848.5	1115.7	861.3	692.0	848.5					
G16.0	731.0	1001.9	740.1	572.0	731.0					
G17.0	620.7	891.9	635.9	473.9	620.7					
G18.0	519.3	785.7	527.5	382.4	519.3					
G19.0	411.7	671.3	421.7	301.3	411.7					
G20.0	329.5	562.8	332.9	238.6	329.5					
G21.0	257.9	461.9	259.6	188.4	257.9					
G22.0	198.4	367.5	196.8	148.6	198.4					
G23.0	155.9	290.3	155.6	118.7	155.9					
G24.0	122.8	224.9	120.6	93.9	122.8					
G25.0	99.8	175.4	97.4	75.3	99.8					
G26.0	80.5	138.4	78.1	60.9	80.5					
G27.0	64.3	106.5	62.3	49.7	64.3					
G28.0	53.0	84.0	50.8	41.6	53.0					
G29.0	44.9	67.9	42.3	35.5	44.9					
G30.0	37.9	54.4	35.6	30.4	37.9					
G31.0	33.2	45.7	30.7	26.8	33.2					
G32.0	29.0	38.2	26.6	23.8	29.0					
G33.0	26.0	33.2	23.5	21.5	26.0					
G34.0	23.5	29.0	21.1	19.7	23.5					
G35.0	21.0	25.2	18.8	18.1	21.0					
G36.0	19.2	22.5	17.2	16.9	19.2					

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	17.6	20.2	15.9	15.8	17.6					
G38.0	16.4	18.3	14.8	14.9	16.4					
G39.0	15.4	16.8	14.0	14.3	15.4					
G40.0	14.4	15.5	13.1	13.6	14.4					
G41.0	13.8	14.4	12.6	13.2	13.8					
G42.0	13.2	13.8	12.2	12.7	13.2					
G43.0	12.7	13.0	11.7	12.1	12.7					
G44.0	12.1	12.6	11.3	11.7	12.1					
G45.0	11.6	12.0	10.9	11.1	11.6					
G46.0	11.3	11.6	10.5	10.7	11.3					
G47.0	10.9	11.2	10.2	10.1	10.9					
G48.0	10.5	10.9	9.9	9.6	10.5					
G49.0	9.8	10.5	9.6	9.0	9.8					
G50.0	9.3	10.1	8.9	8.6	9.3					
G51.0	9.0	9.7	8.5	8.3	9.0					
G52.0	8.5	9.1	8.1	7.8	8.5					
G53.0	8.1	8.7	7.8	7.4	8.1					
G54.0	7.8	8.3	7.4	6.9	7.8					
G55.0	7.4	8.0	7.1	6.6	7.4					
G56.0	6.9	7.7	6.8	6.1	6.9					
G57.0	6.6	7.3	6.4	5.8	6.6					
G58.0	6.2	6.9	5.9	5.4	6.2					
G59.0	5.8	6.5	5.7	5.0	5.8					
G60.0	5.3	6.3	5.3	4.7	5.3					
G61.0	4.8	5.9	4.9	4.2	4.8					
G62.0	4.4	5.5	4.4	3.8	4.4					
G63.0	4.0	5.1	4.1	3.5	4.0					
G64.0	3.6	4.8	3.6	3.4	3.6					
G65.0	3.4	4.4	3.4	3.4	3.4					
G66.0	3.2	4.1	3.2	3.4	3.2					
G67.0	3.2	3.7	3.2	3.3	3.2					
G68.0	3.2	3.5	3.1	3.3	3.2					
G69.0	3.1	3.5	3.1	3.3	3.1					
G70.0	3.1	3.5	3.1	3.2	3.1					
G71.0	3.0	3.4	3.1	3.2	3.0					
G72.0	3.0	3.4	3.0	3.2	3.0					
G73.0	3.0	3.3	2.9	3.2	3.0					

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 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	3.0	3.3	2.8	3.2	3.0					
G75.0	2.9	3.2	3.0	3.2	2.9					
G76.0	3.0	3.3	3.0	3.2	3.0					
G77.0	3.0	3.2	2.9	3.2	3.0					
G78.0	3.0	3.3	3.0	3.3	3.0					
G79.0	3.0	3.3	2.9	3.2	3.0					
G80.0	2.9	3.3	2.8	3.2	2.9					
G81.0	3.0	3.3	2.9	3.1	3.0					
G82.0	3.0	3.3	3.0	3.2	3.0					
G83.0	3.1	3.3	2.8	3.2	3.1					
G84.0	3.0	3.3	2.9	3.1	3.0					
G85.0	3.1	3.2	3.0	3.2	3.1					
G86.0	3.1	3.2	3.0	3.2	3.1					
G87.0	3.0	3.2	2.9	3.2	3.0					
G88.0	3.0	3.2	2.8	3.2	3.0					
G89.0	3.0	3.2	3.0	3.3	3.0					
G90.0	3.0	3.2	2.9	3.2	3.0					
G91.0	3.0	3.2	2.9	3.2	3.0					
G92.0	3.0	3.2	3.0	3.2	3.0					
G93.0	3.0	3.2	2.9	3.2	3.0					
G94.0	3.0	3.2	3.0	3.1	3.0					
G95.0	2.9	3.2	2.9	3.2	2.9					
G96.0	3.0	3.3	2.8	3.2	3.0					
G97.0	3.1	3.3	2.9	3.3	3.1					
G98.0	3.1	3.3	2.9	3.2	3.1					
G99.0	3.0	3.3	3.0	3.2	3.0					
G100.0	3.0	3.2	2.9	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: