

Report No.:

Test Time: 2023-03-29 13:42

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: SPOTLIGHT

Lamp Catalog: LED

Number of Lamps: 1

Current: 0.000 A

Power Factor: 1.000

Luminaire Description: EMD2W

Lamp Description: 5050

Voltage: 0.0 V

Power: 0.00 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 158.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H159.7

Vertical Diffuse Angle(50%): V63.5

Luminaire Efficacy Rating (LER): 158.40

Max. Intensity: 173.15 cd

S/MH(C0/C180): 3.10

Total Rated Lamp Lumens: 158.4 lm

Efficiency: 100%

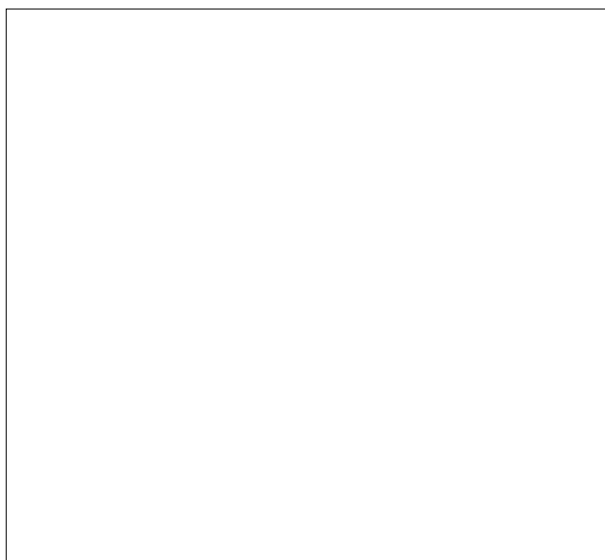
Upward Ratio: 0%

Central Intensity: 35.81 cd

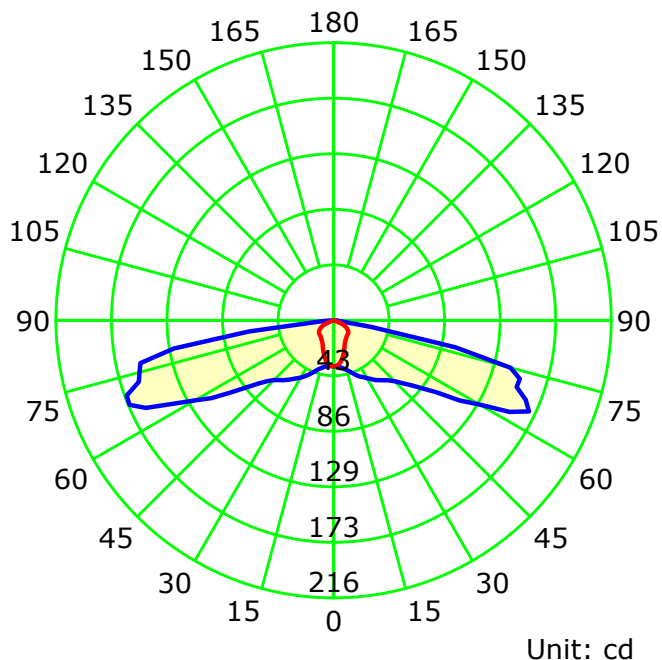
Pos of Max. Intensity: H175 V70

S/MH(C90/C270): 0.81

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

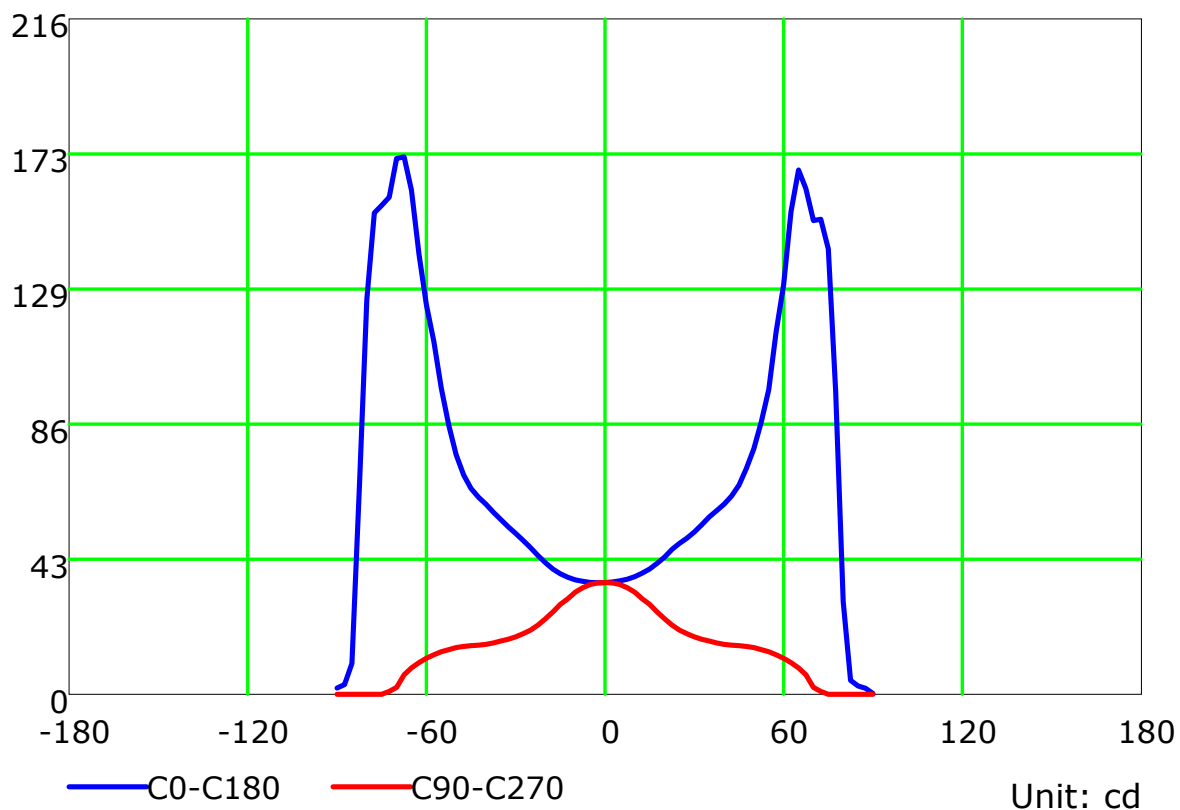
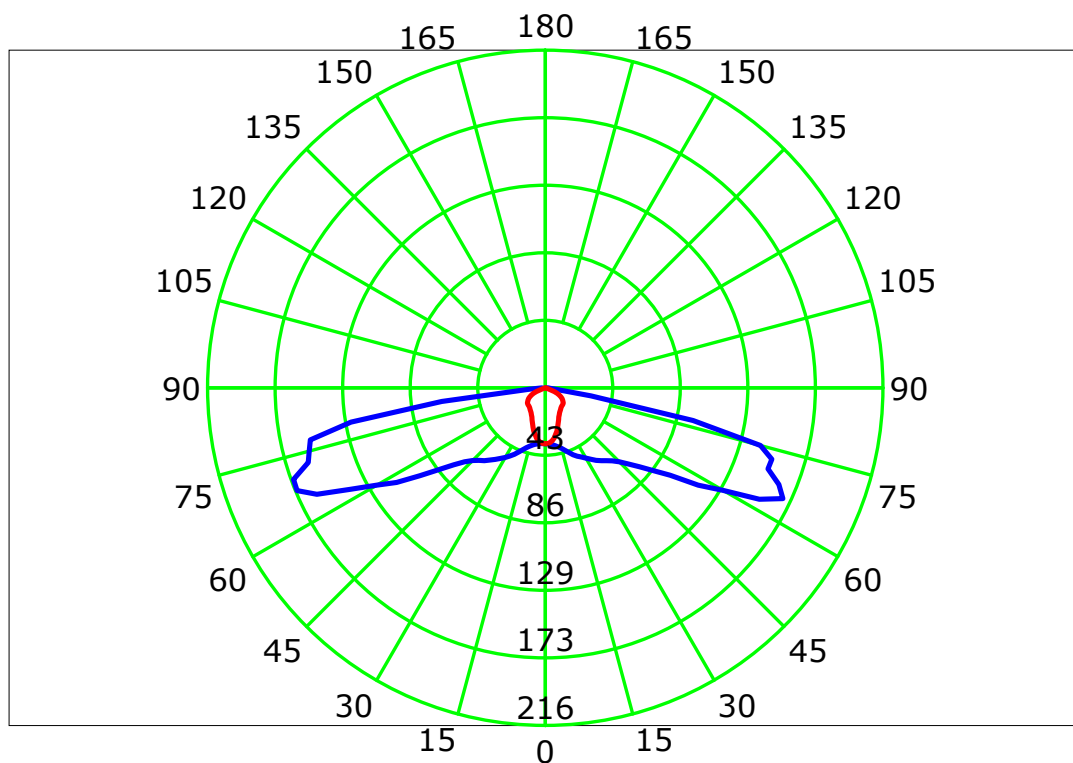
Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

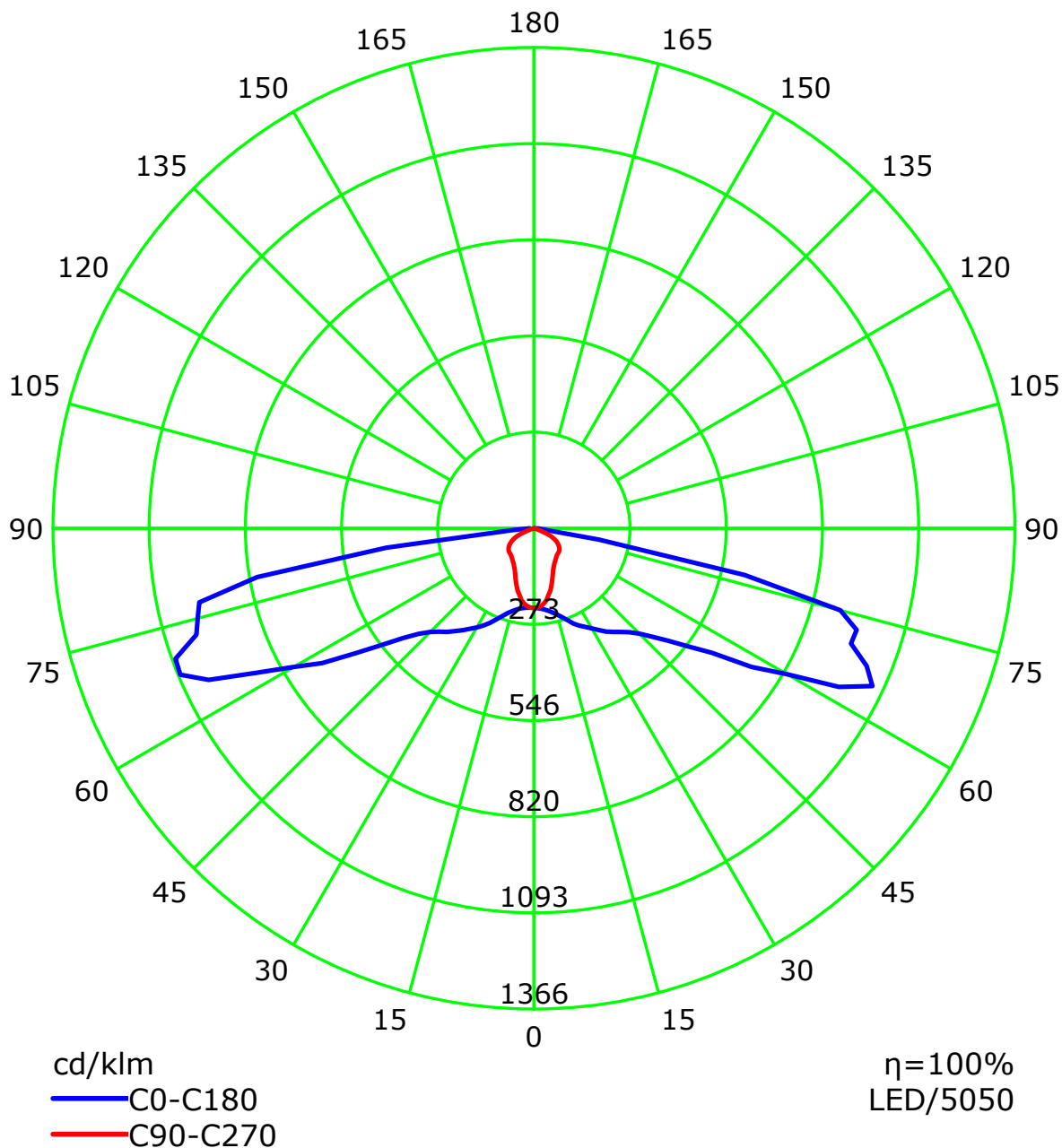
## Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



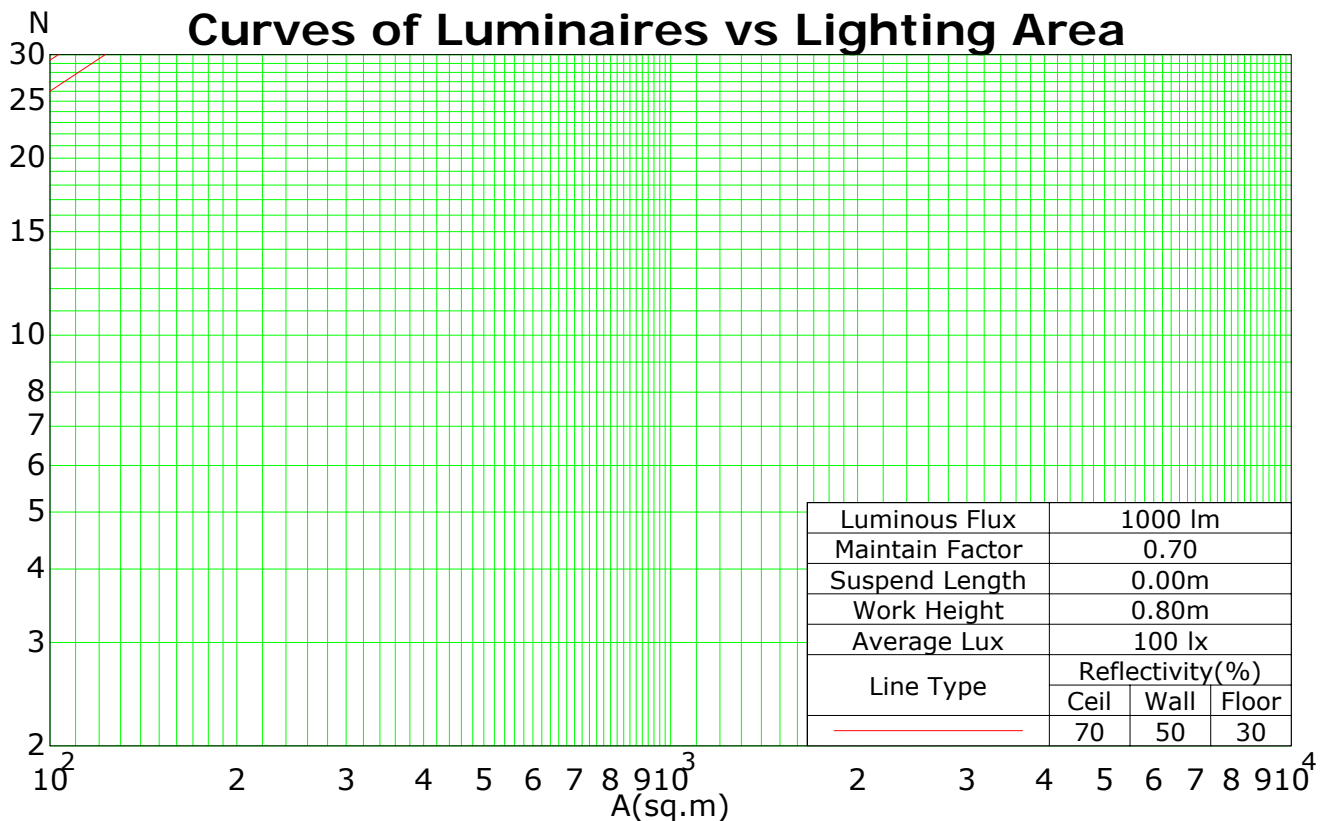
C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 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	111	111	111	106	106	106	102	102	102	100
1	106	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	81	78
2	94	84	76	69	91	82	74	68	78	72	66	75	69	65	72	67	63	61
3	84	71	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48
4	76	62	52	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	36	49	41	35	47	40	35	32
6	63	48	38	31	61	47	38	31	45	37	30	43	36	30	42	35	30	27
7	58	43	33	27	56	42	33	26	41	32	26	39	32	26	38	31	26	24
8	54	39	30	23	52	38	29	23	37	29	23	36	28	23	34	28	23	21
9	50	36	27	21	49	35	26	21	34	26	20	33	26	20	32	25	20	18
10	47	33	24	19	46	32	24	18	31	24	18	30	23	18	29	23	18	16

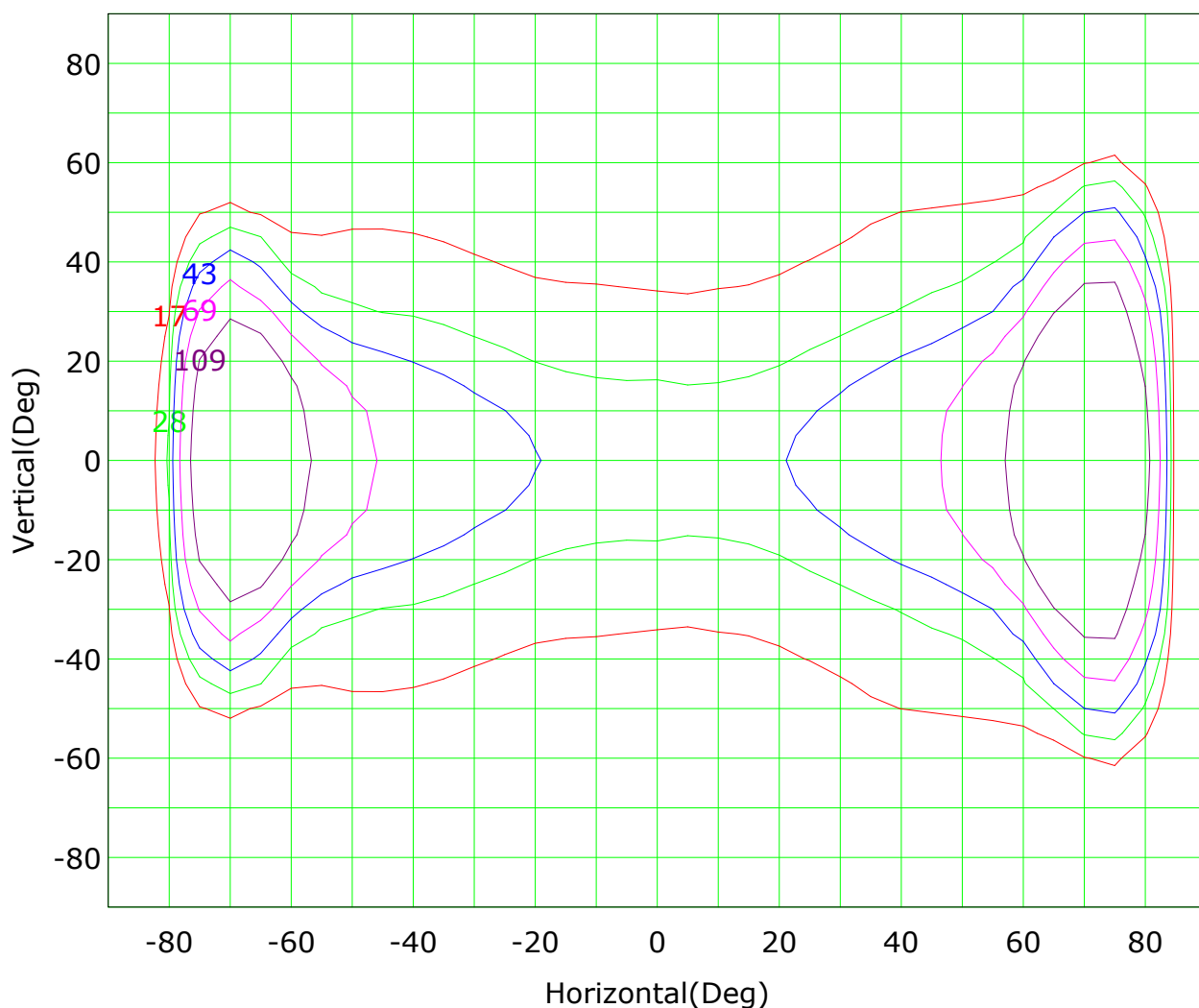
Spacing Criteria (0-180): 3.10  
 Spacing Criteria (90-270): 0.81  
 Spacing Criteria (Diagonal): 1.24



C Plane (°):0.0-180.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:2.5  
 Test Device: GPM-1600L  
 Distance: 4.839 m  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



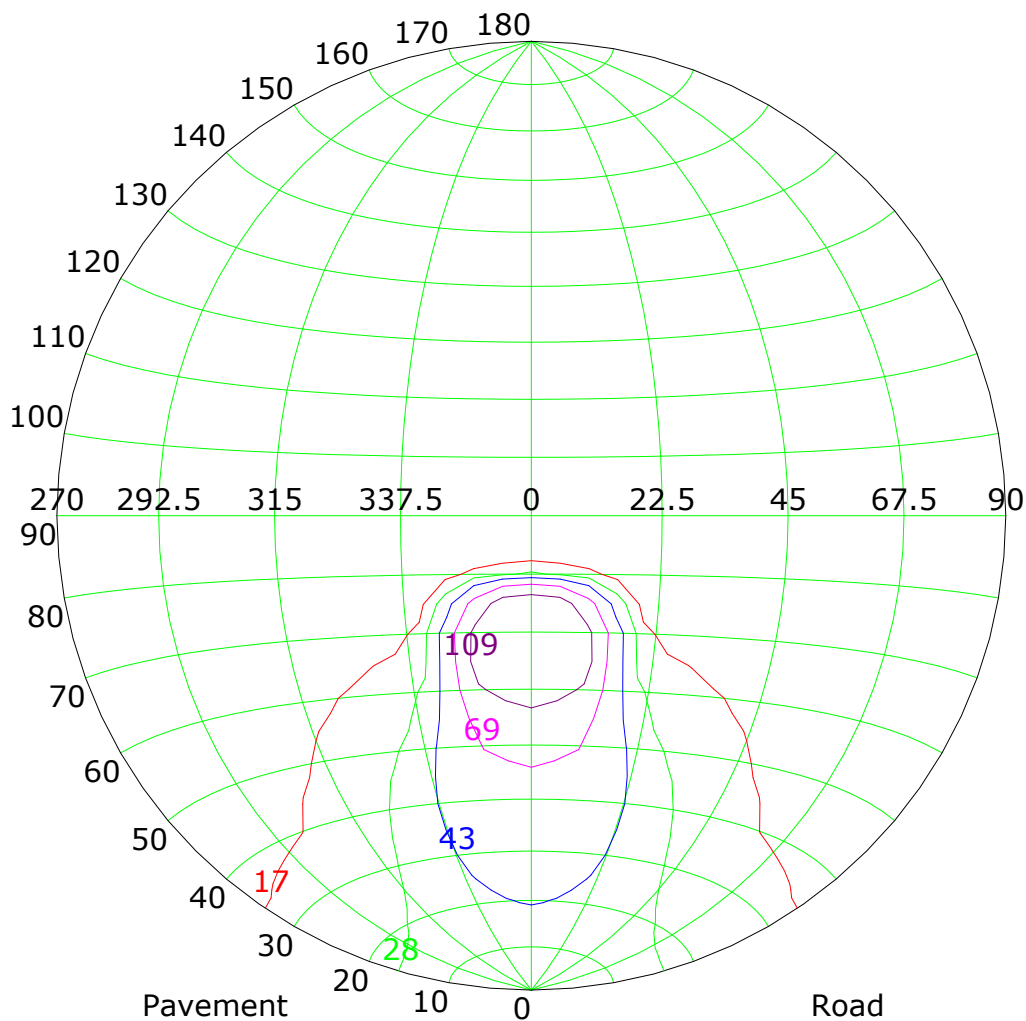
Imax (100%): 173 cd

( 10%):	17 cd	( 16%):	28 cd
( 25%):	43 cd	( 40%):	69 cd
( 63%):	109 cd	(100%):	173 cd

C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

## Isocandela (sphere)



Imax (100%): 173 cd

( 10%):	17 cd	( 16%):	28 cd
( 25%):	43 cd	( 40%):	69 cd
( 63%):	109 cd	(100%):	173 cd

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

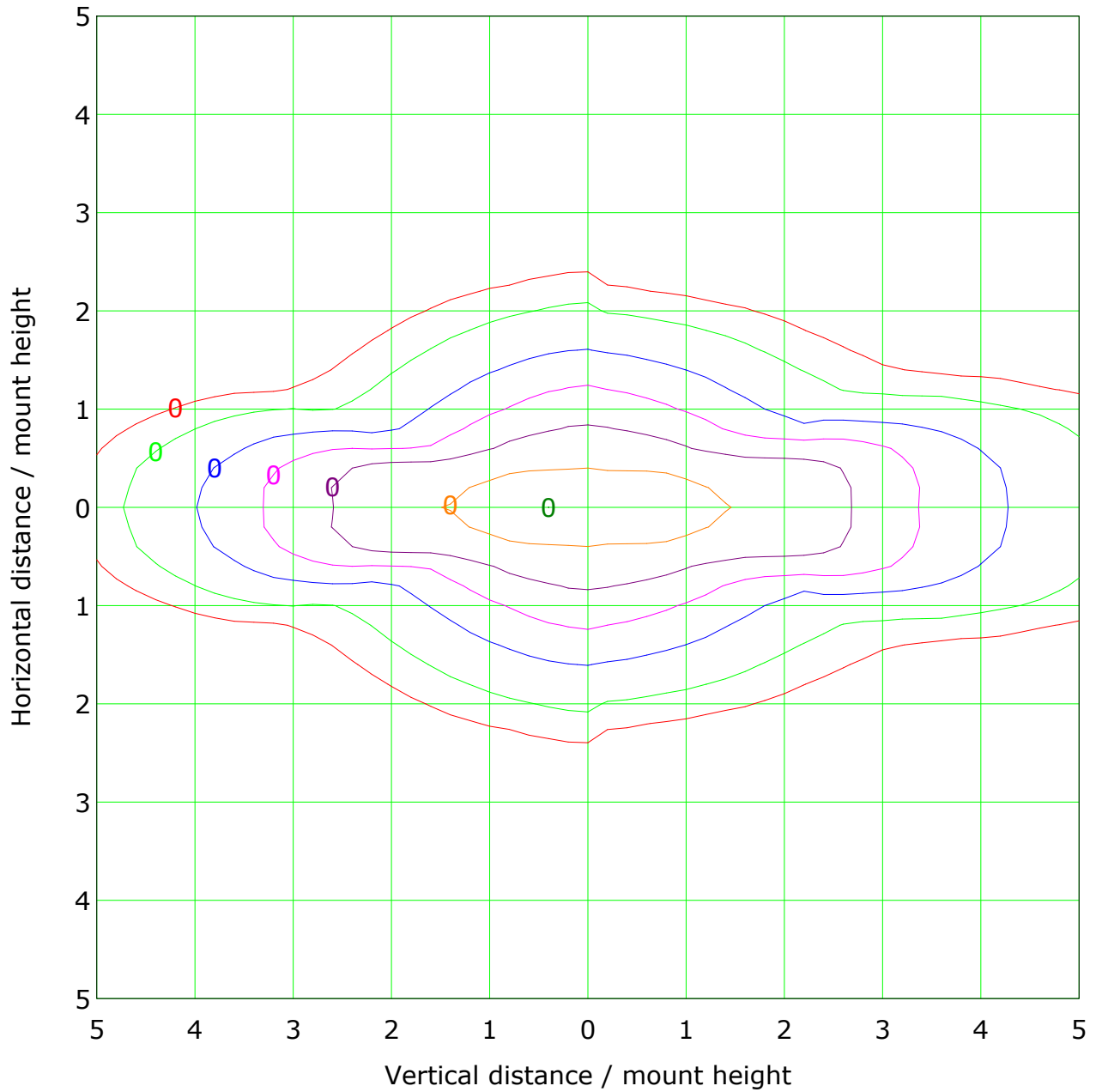
Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 0.4 lx

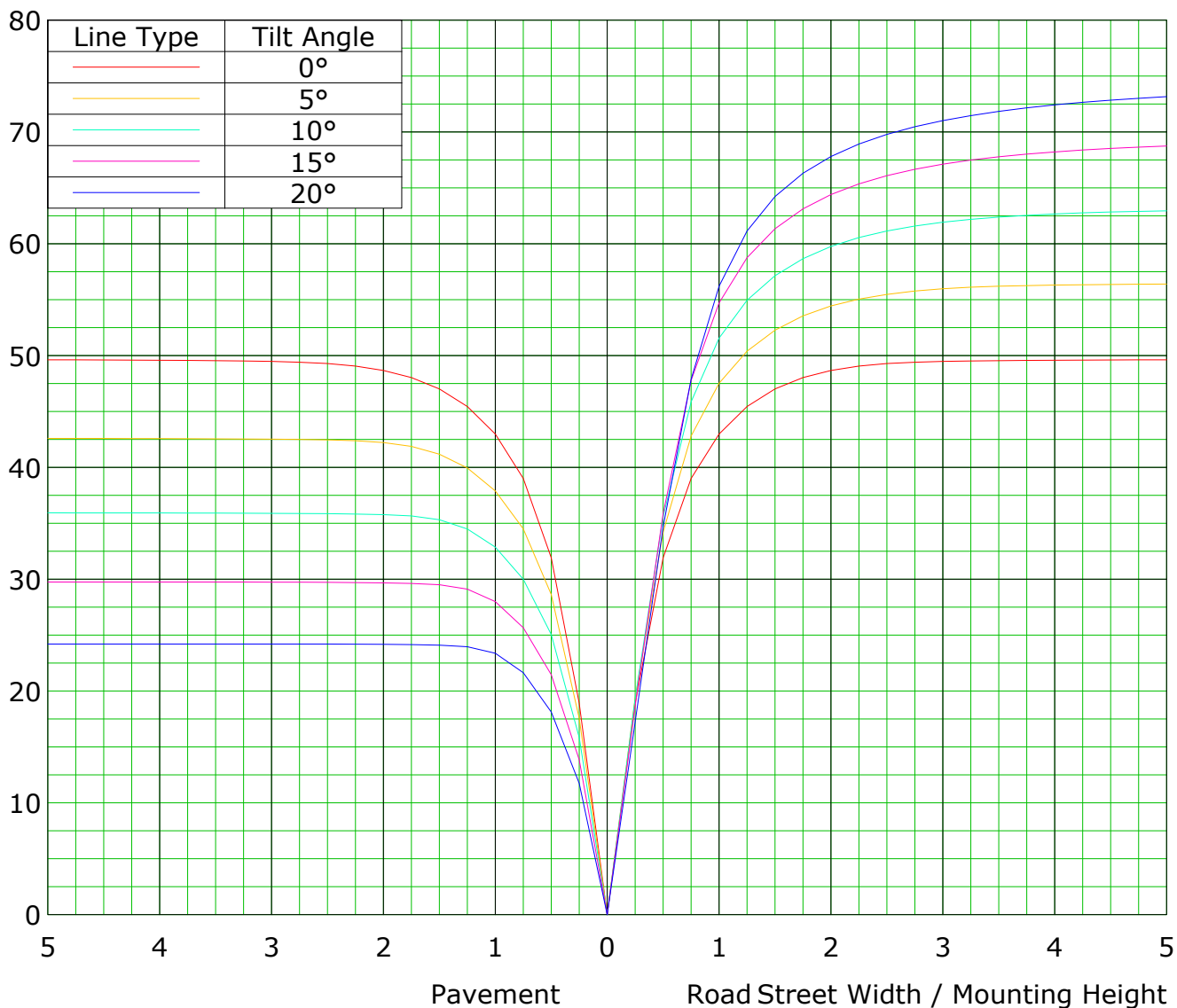
( 1%): 0.0 lx	( 2%): 0.0 lx
( 5%): 0.0 lx	( 10%): 0.0 lx
( 20%): 0.1 lx	( 50%): 0.2 lx
(100%): 0.4 lx	

C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

## Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

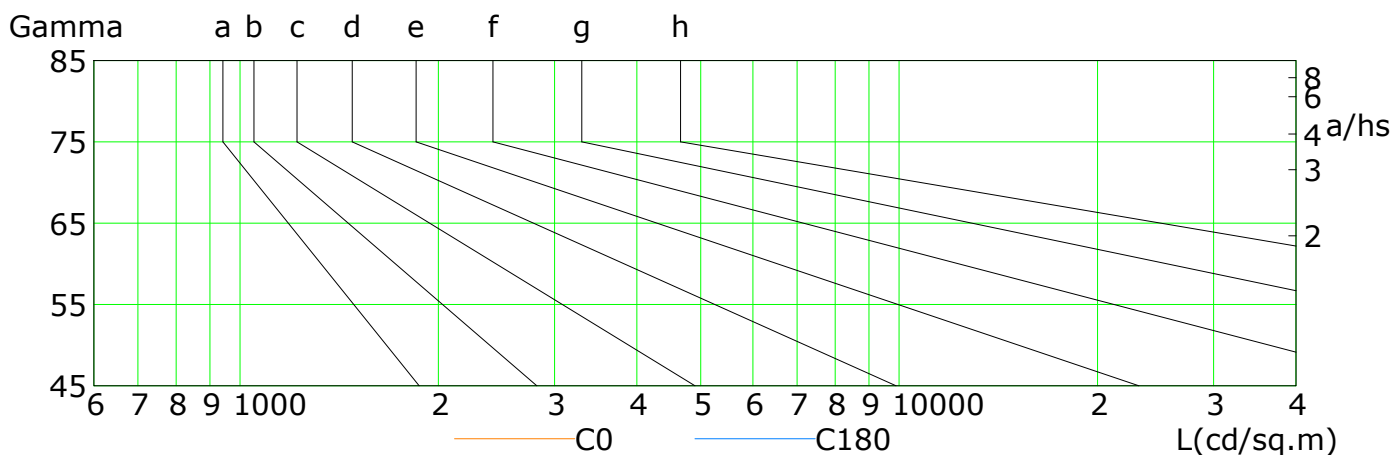
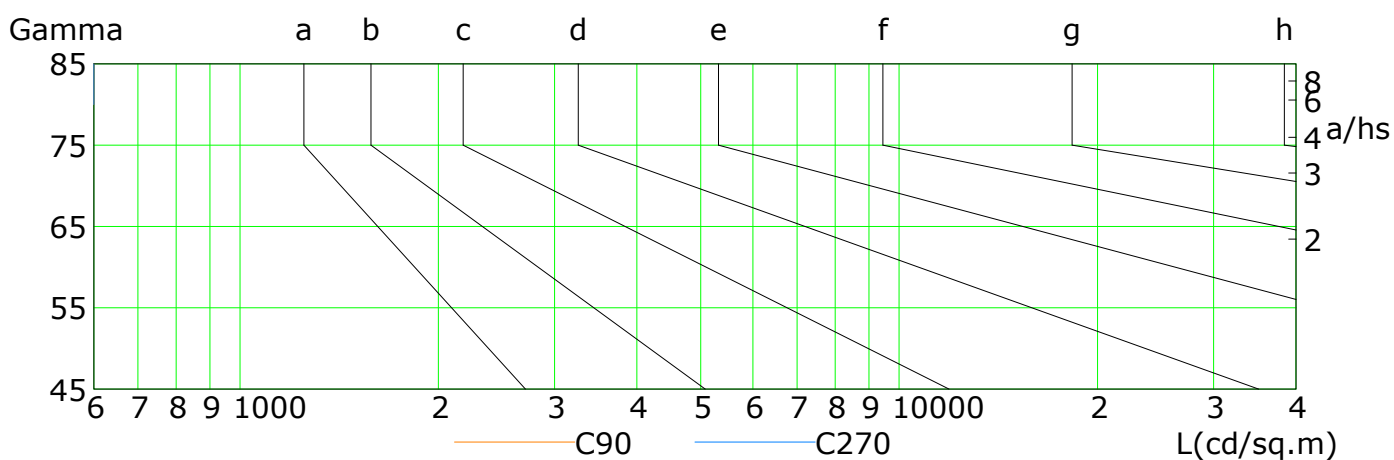
Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:



## 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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	67	79	98	131	168	152	143	30	3
C90	16	15	14	12	8	2	0	0	0
C180	66	77	98	125	162	172	157	127	10
C270	16	15	14	12	8	2	0	0	0

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

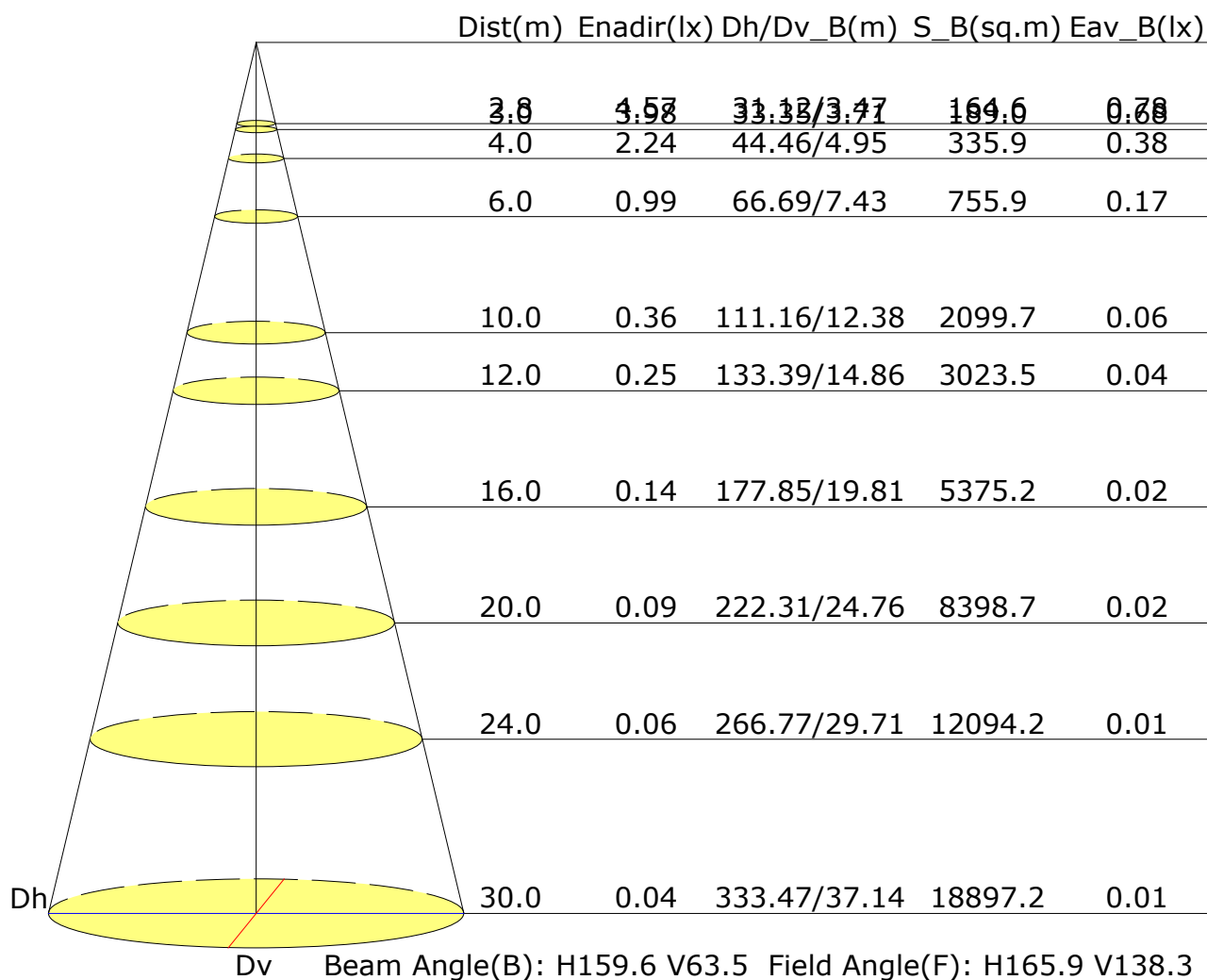
Test Device: GPM-1600L

Distance: 4.839 m

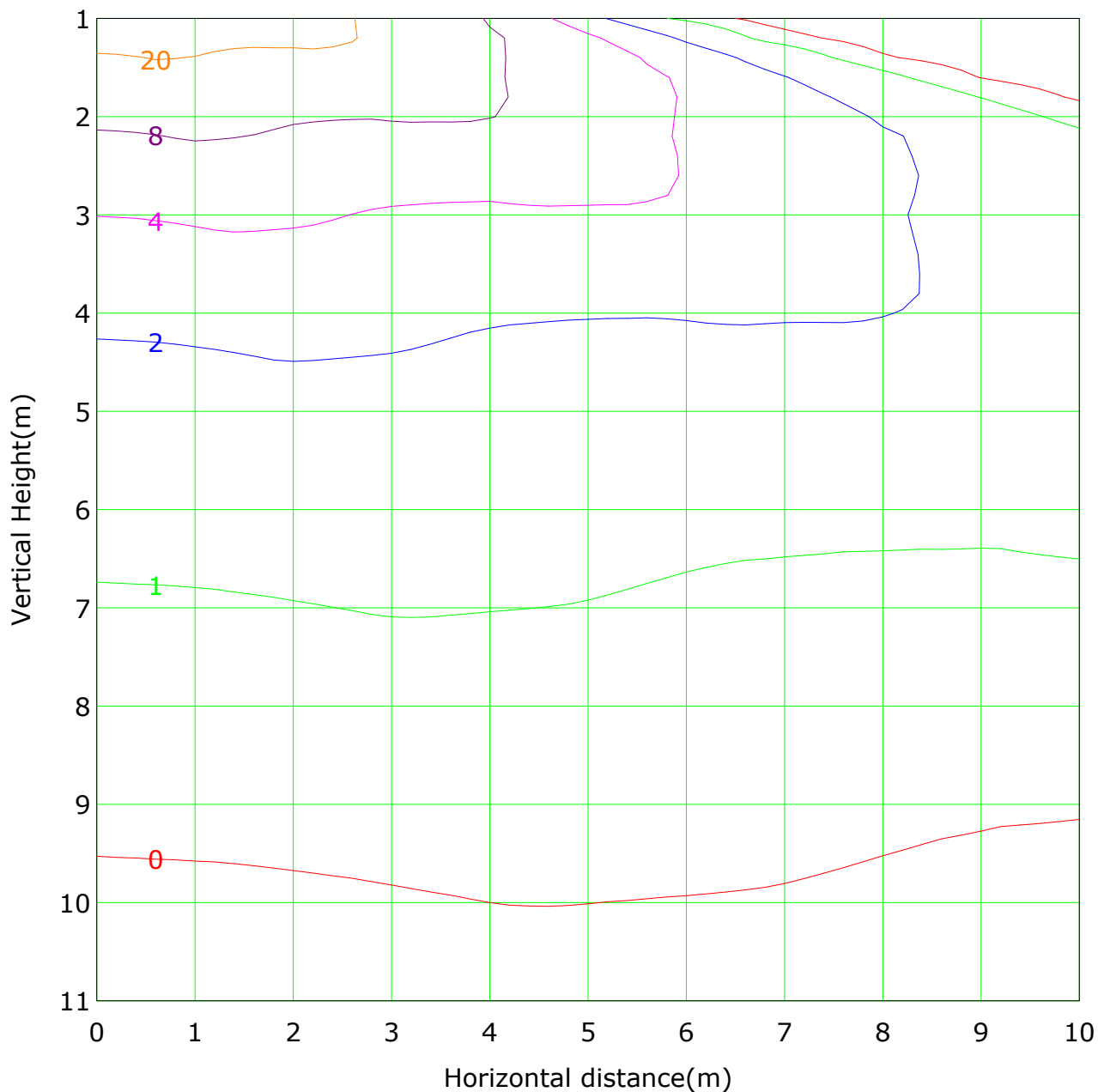
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 39.4 lx

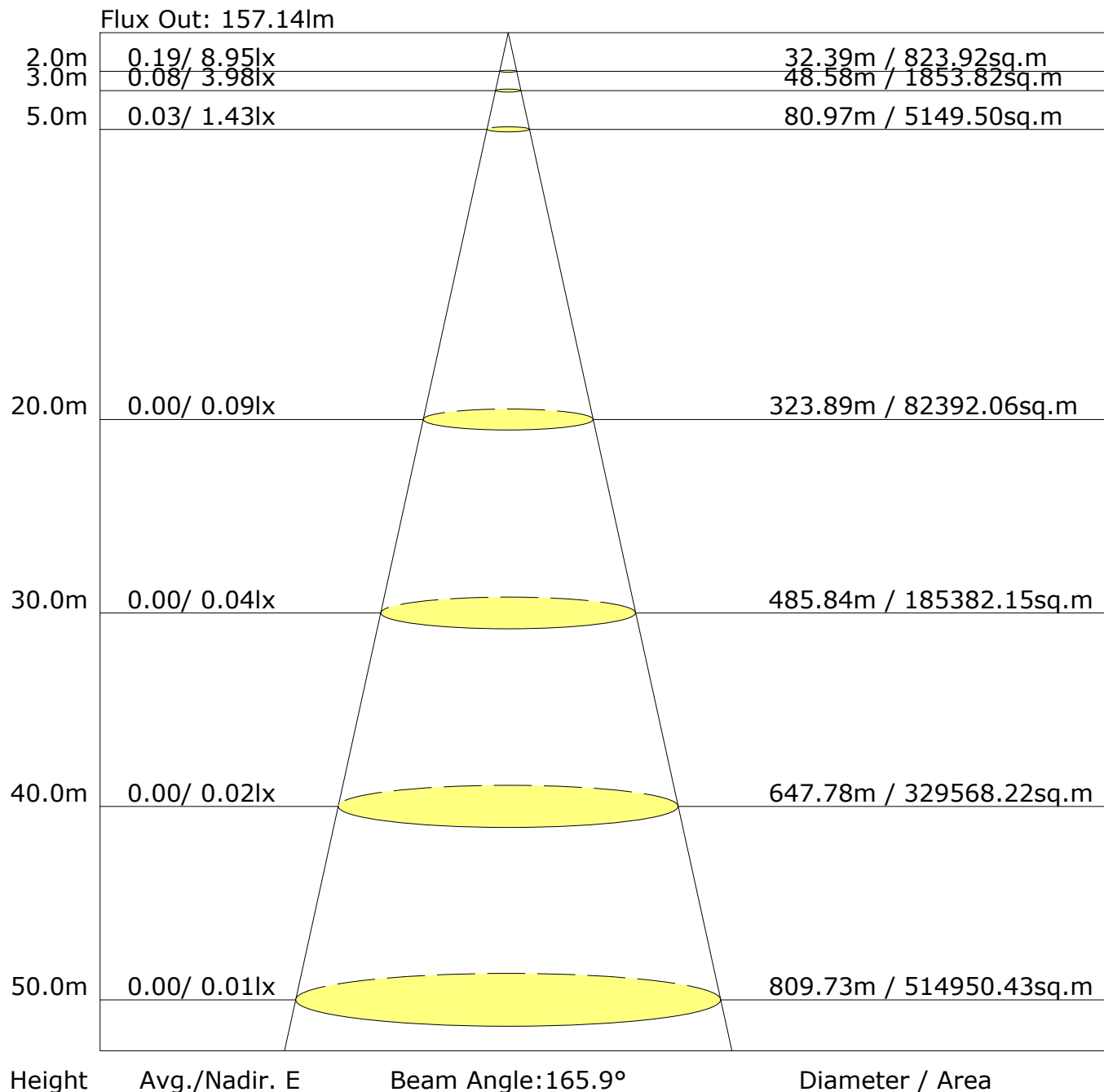
( 1%): 0.4 lx	( 2%): 0.8 lx
( 5%): 2.0 lx	( 10%): 3.9 lx
( 20%): 7.9 lx	( 50%): 19.7 lx
(100%): 39.4 lx	

C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

## The Average Illuminance Effective Figure



## 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  $158\text{lm}$  ( $8\log(F/F_0) = -6.4$ ).

C Plane (°):0.0-180.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:2.5  
 Test Device: GPM-1600L  
 Distance: 4.839 m  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

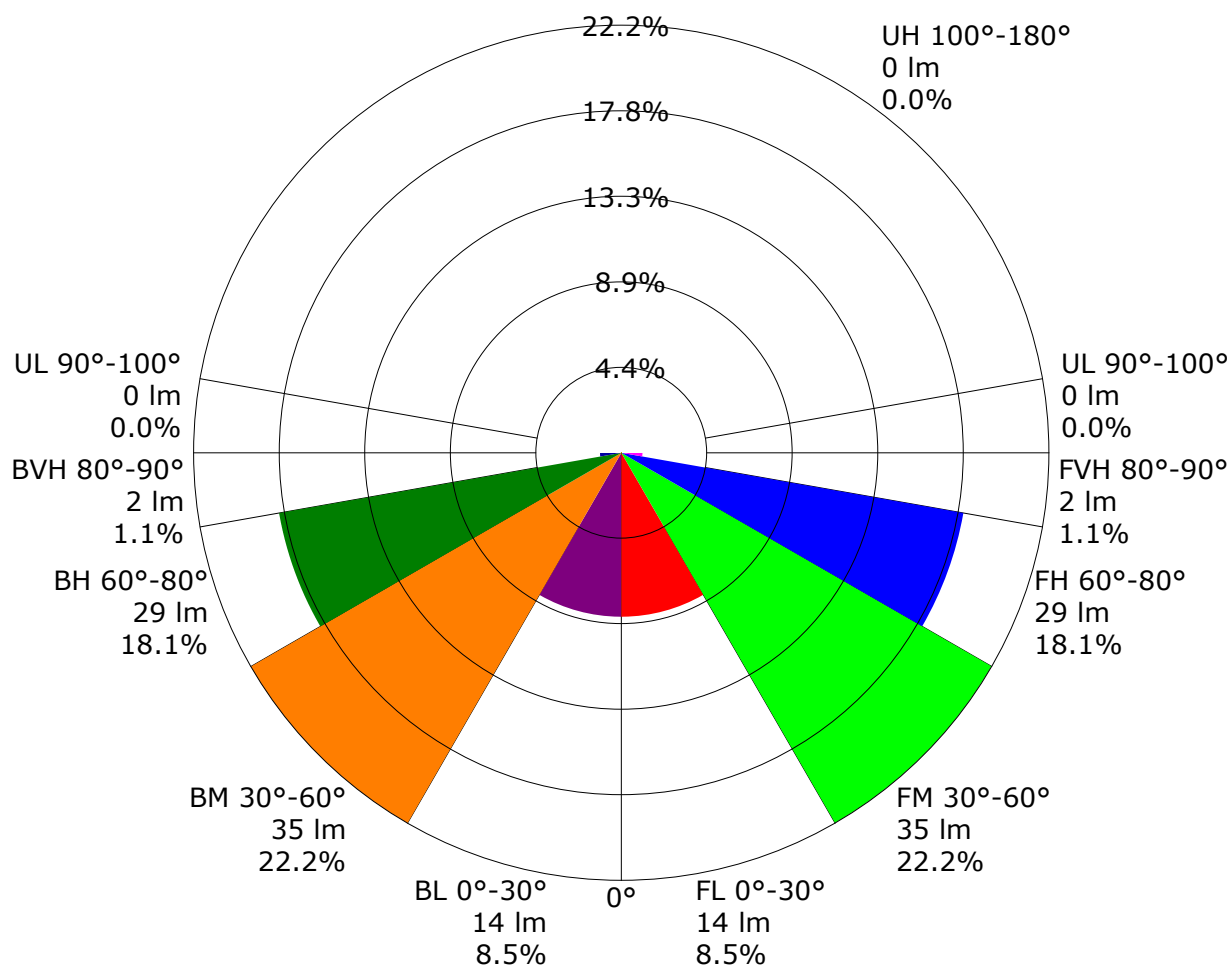
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	79	50.0
	FL ( 0°-30°)	14	8.5
	FM (30°-60°)	35	22.2
	FH (60°-80°)	29	18.1
	FVH (80°-90°)	2	1.1
	BACK LIGHT	79	50.0
	BL ( 0°-30°)	14	8.5
	BM (30°-60°)	35	22.2
	BH (60°-80°)	29	18.1
	BVH (80°-90°)	2	1.1
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

C Plane (°):0.0-180.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:2.5  
Test Device: GPM-1600L  
Distance: 4.839 m  
Humidity:  
Inspector:

## LCS Graph



**Back Light**

**Forward Light**

Scale= MAX LCS%

Trapped Light:NA,NA



## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.50	0.58	0.68	0.74	0.84	0.90	0.95	1.02	1.06	
	0.30		0.40	0.48	0.58	0.65	0.75	0.83	0.88	0.96	1.01	
	0.20		0.33	0.41	0.50	0.57	0.68	0.76	0.83	0.91	0.97	
0.50	0.50	0.20	0.48	0.56	0.65	0.71	0.80	0.86	0.91	0.97	1.01	
	0.30		0.39	0.47	0.56	0.63	0.73	0.80	0.85	0.93	0.97	
	0.20		0.33	0.40	0.49	0.56	0.67	0.74	0.80	0.88	0.94	
0.30	0.50	0.20	0.46	0.54	0.62	0.68	0.77	0.83	0.87	0.93	0.97	
	0.30		0.38	0.46	0.55	0.61	0.71	0.77	0.83	0.89	0.94	
	0.20		0.32	0.40	0.49	0.55	0.65	0.73	0.78	0.86	0.91	
0.00	0.00	0.00	0.30	0.37	0.45	0.52	0.61	0.69	0.74	0.81	0.86	
Rating:0W 1.50m Mounted:On Ceiling 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 = 1.50									
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	1.23	1.08	0.92	0.82	0.66	0.55	0.47	0.36	0.29	
	0.30		1.02	0.92	0.81	0.72	0.60	0.50	0.44	0.34	0.28	
	0.20		0.88	0.80	0.72	0.65	0.54	0.47	0.41	0.32	0.27	
0.50	0.50	0.20	1.19	1.04	0.89	0.79	0.64	0.56	0.45	0.35	0.28	
	0.30		1.01	0.90	0.79	0.71	0.58	0.49	0.42	0.33	0.27	
	0.20		0.87	0.80	0.71	0.64	0.54	0.46	0.40	0.31	0.26	
0.30	0.50	0.20	1.16	1.00	0.86	0.76	0.61	0.51	0.44	0.34	0.27	
	0.30		0.99	0.88	0.77	0.69	0.57	0.48	0.41	0.32	0.26	
	0.20		0.86	0.79	0.70	0.63	0.53	0.45	0.39	0.31	0.25	
0.00	0.00	0.00	0.77	0.70	0.61	0.55	0.45	0.38	0.33	0.26	0.21	
Rating:0W 1.50m Mounted:On Ceiling 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 = 1.50									
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	0.19	0.21	0.21	0.22	0.23	0.23	0.23	0.24	0.24	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.20	
	0.20		0.04	0.06	0.07	0.08	0.11	0.12	0.14	0.16	0.17	
0.50	0.50	0.20	0.18	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.04	0.06	0.07	0.08	0.10	0.12	0.13	0.15	0.17	
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.04	0.06	0.07	0.08	0.10	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:0W 1.50m Mounted:On Ceiling Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-2.5	35.8	0.2	0.2	0.14	0.14
2.5-5.0	35.6	0.6	0.9	0.40	0.54
5.0-7.5	35.3	1.1	1.9	0.67	1.20
7.5-10.0	34.9	1.5	3.4	0.92	2.12
10.0-12.5	34.2	1.8	5.2	1.16	3.28
12.5-15.0	33.6	2.2	7.4	1.38	4.66
15.0-17.5	32.9	2.5	9.9	1.59	6.25
17.5-20.0	32.2	2.8	12.7	1.79	8.04
20.0-22.5	31.5	3.1	15.9	1.98	10.02
22.5-25.0	31.1	3.4	19.3	2.17	12.19
25.0-27.5	30.8	3.7	23.0	2.36	14.54
27.5-30.0	30.6	4.0	27.1	2.55	17.09
30.0-32.5	30.5	4.3	31.4	2.74	19.83
32.5-35.0	30.5	4.6	36.1	2.93	22.77
35.0-37.5	30.4	4.9	41.0	3.11	25.88
37.5-40.0	30.3	5.2	46.2	3.28	29.17
40.0-42.5	30.2	5.5	51.6	3.45	32.61
42.5-45.0	30.1	5.7	57.4	3.61	36.22
45.0-47.5	30.1	6.0	63.3	3.76	39.98
47.5-50.0	30.1	6.2	69.5	3.91	43.90
50.0-52.5	30.2	6.5	76.0	4.08	47.98
52.5-55.0	30.7	6.8	82.8	4.28	52.26
55.0-57.5	31.4	7.2	89.9	4.52	56.79
57.5-60.0	32.4	7.6	97.5	4.80	61.59
60.0-62.5	33.4	8.0	105.5	5.07	66.65
62.5-65.0	34.2	8.4	114.0	5.31	71.97
65.0-67.5	34.5	8.7	122.6	5.46	77.43
67.5-70.0	32.9	8.4	131.0	5.31	82.74
70.0-72.5	29.8	7.7	138.8	4.89	87.63
72.5-75.0	25.8	6.8	145.6	4.29	91.92
75.0-77.5	20.6	5.5	151.0	3.46	95.38
77.5-80.0	14.0	3.8	154.8	2.38	97.76
80.0-82.5	7.7	2.1	156.9	1.32	99.08
82.5-85.0	3.5	0.9	157.8	0.60	99.67
85.0-87.5	1.3	0.4	158.2	0.23	99.90
87.5-90.0	0.6	0.2	158.3	0.10	100.00

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

## Candlepower Table

Unit: cd

G\C	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0	C40.0	C45.0
G0.0	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
G2.5	36.0	36.0	36.0	36.0	36.0	35.9	35.9	35.9	35.8	35.8
G5.0	36.4	36.4	36.4	36.3	36.2	36.1	36.0	35.9	35.8	35.7
G7.5	36.9	36.9	36.8	36.7	36.5	36.3	36.1	35.8	35.6	35.4
G10.0	37.7	37.7	37.5	37.3	36.9	36.5	36.2	35.8	35.4	34.9
G12.5	38.9	38.7	38.5	38.0	37.5	36.9	36.3	35.6	34.9	34.2
G15.0	40.2	40.0	39.6	39.0	38.3	37.4	36.4	35.4	34.3	33.2
G17.5	42.0	41.7	41.1	40.2	39.2	37.9	36.5	35.0	33.5	32.0
G20.0	44.0	43.6	42.8	41.5	40.2	38.4	36.6	34.5	32.5	30.9
G22.5	46.4	46.0	45.0	43.3	41.4	39.2	36.5	33.8	31.5	29.5
G25.0	48.4	47.9	46.8	45.1	42.9	39.9	36.4	33.3	30.5	28.1
G27.5	50.0	49.6	48.4	46.5	44.0	40.3	36.1	32.6	29.5	26.8
G30.0	52.0	51.4	50.1	47.9	45.2	40.8	35.9	32.0	28.3	25.6
G32.5	54.3	53.6	52.0	49.6	46.1	40.6	35.8	31.1	27.2	24.7
G35.0	56.8	56.1	54.3	51.5	47.0	40.4	35.3	29.8	26.2	23.7
G37.5	58.8	58.1	56.4	53.2	47.2	40.5	34.4	28.8	25.3	22.6
G40.0	61.0	60.1	58.8	54.7	46.8	40.4	32.8	27.8	24.0	21.4
G42.5	63.5	62.3	60.8	56.1	46.4	39.8	31.1	26.5	22.8	20.4
G45.0	67.1	65.1	63.4	57.0	45.9	37.8	29.6	25.0	21.6	19.4
G47.5	72.4	69.6	66.5	57.3	45.1	34.4	27.6	23.8	20.8	19.0
G50.0	78.8	74.8	70.2	57.2	43.5	31.3	25.7	22.7	20.1	18.2
G52.5	87.2	81.7	75.1	57.0	40.7	28.4	24.1	21.5	19.0	17.5
G55.0	97.7	90.3	81.1	56.6	36.9	26.2	23.0	20.5	18.3	17.0
G57.5	116.2	107.0	89.4	56.5	33.1	24.6	22.0	19.4	17.6	16.3
G60.0	131.3	121.8	104.6	56.4	30.3	23.0	20.7	18.2	16.5	15.4
G62.5	154.7	141.4	112.8	55.2	27.5	21.2	18.8	16.7	15.1	14.0
G65.0	168.0	161.3	126.2	55.0	24.8	19.1	17.0	14.9	13.5	12.3
G67.5	162.0	167.2	129.6	56.2	22.3	16.7	14.8	12.9	11.3	10.2
G70.0	151.9	158.6	120.3	53.6	20.1	14.0	12.2	10.3	9.0	7.9
G72.5	152.2	155.7	110.1	47.6	17.7	11.0	9.2	7.5	6.4	5.5
G75.0	142.8	130.2	79.4	35.0	13.1	6.8	5.3	4.4	3.8	3.2
G77.5	97.0	82.8	46.5	19.6	8.8	4.0	3.1	2.8	2.3	1.5
G80.0	29.7	25.7	20.3	13.7	6.5	3.3	2.3	2.3	1.6	0.9
G82.5	4.5	9.5	10.5	8.4	4.4	2.2	1.8	1.7	1.1	0.6
G85.0	2.7	3.4	4.9	3.8	2.2	1.1	1.2	0.9	0.8	0.4
G87.5	2.0	1.9	1.8	1.3	1.0	0.6	0.8	0.7	0.6	0.2
G90.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C50.0	C55.0	C60.0	C65.0	C70.0	C75.0	C80.0	C85.0	C90.0	C95.0
G0.0	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
G2.5	35.8	35.8	35.7	35.8	35.7	35.7	35.7	35.7	35.7	35.4
G5.0	35.6	35.5	35.4	35.3	35.2	35.2	35.2	35.2	35.2	34.6
G7.5	35.2	34.9	34.7	34.6	34.4	34.3	34.2	34.2	34.2	33.5
G10.0	34.4	34.1	33.7	33.4	33.1	32.9	32.8	32.8	32.8	31.9
G12.5	33.5	32.8	32.1	31.7	31.2	31.0	30.7	30.7	30.6	29.8
G15.0	32.1	31.2	30.4	29.9	29.4	29.2	28.9	28.9	28.8	28.0
G17.5	30.8	29.8	28.8	28.0	27.4	26.9	26.5	26.6	26.4	25.4
G20.0	29.3	28.0	26.8	25.9	25.0	24.6	24.4	24.3	24.2	23.2
G22.5	27.7	26.1	24.8	23.9	23.2	22.8	22.4	22.3	22.3	21.2
G25.0	26.0	24.5	23.2	22.3	21.6	21.1	20.7	20.6	20.6	19.8
G27.5	24.7	23.2	22.0	21.1	20.4	19.9	19.6	19.4	19.4	18.8
G30.0	23.6	22.3	21.0	20.2	19.4	18.9	18.6	18.4	18.4	18.1
G32.5	22.8	21.3	20.1	19.3	18.6	18.2	18.0	17.7	17.7	17.6
G35.0	21.7	20.2	19.1	18.4	17.8	17.7	17.4	17.1	17.1	16.9
G37.5	20.5	19.1	18.1	17.5	17.2	17.0	16.7	16.5	16.5	16.2
G40.0	19.3	18.1	17.2	16.8	16.7	16.4	16.2	16.0	16.0	15.9
G42.5	18.5	17.4	16.7	16.5	16.4	16.1	15.8	15.7	15.8	15.6
G45.0	18.0	17.1	16.5	16.2	16.1	15.8	15.6	15.6	15.6	15.2
G47.5	17.5	16.6	16.0	15.8	15.8	15.4	15.2	15.3	15.4	14.8
G50.0	16.8	15.8	15.4	15.1	15.0	14.9	14.8	14.9	15.0	14.4
G52.5	16.3	15.5	15.0	14.7	14.5	14.3	14.2	14.3	14.3	13.8
G55.0	15.9	15.1	14.6	14.1	13.7	13.6	13.5	13.6	13.6	13.2
G57.5	15.3	14.3	13.7	13.2	12.9	12.7	12.7	12.7	12.7	12.0
G60.0	14.4	13.4	12.6	12.3	11.8	11.6	11.5	11.5	11.6	10.5
G62.5	13.0	12.1	11.3	10.8	10.3	10.2	10.0	10.1	10.2	8.6
G65.0	11.2	10.3	9.5	9.0	8.5	8.4	8.3	8.4	8.5	6.4
G67.5	9.2	8.4	7.6	7.0	6.4	6.4	6.1	6.3	6.3	4.4
G70.0	6.9	6.2	5.3	4.8	2.5	2.3	2.2	2.2	2.2	1.7
G72.5	4.6	2.7	2.1	1.6	1.2	1.2	1.1	1.0	0.9	0.4
G75.0	1.8	1.3	0.8	0.6	0.3	0.2	0.2	0.1	0.0	0.0
G77.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G80.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G82.5	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
G87.5	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

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C100.0	C105.0	C110.0	C115.0	C120.0	C125.0	C130.0	C135.0	C140.0	C145.0
G0.0	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
G2.5	35.5	35.5	35.5	35.5	35.5	35.5	35.6	35.6	35.7	35.7
G5.0	34.7	34.7	34.8	34.8	34.9	35.0	35.1	35.2	35.3	35.4
G7.5	33.6	33.7	33.8	33.9	34.1	34.3	34.5	34.7	34.9	35.1
G10.0	32.1	32.2	32.5	32.7	33.1	33.4	33.7	34.1	34.5	34.8
G12.5	29.9	30.0	30.4	30.8	31.4	32.0	32.7	33.3	33.9	34.5
G15.0	28.1	28.3	28.7	29.0	29.6	30.3	31.2	32.2	33.2	34.2
G17.5	25.6	26.0	26.5	27.2	28.0	28.8	29.8	30.9	32.3	33.8
G20.0	23.3	23.6	24.2	24.9	25.9	27.0	28.3	29.7	31.4	33.4
G22.5	21.4	21.6	22.3	22.9	23.9	25.0	26.7	28.5	30.6	32.9
G25.0	19.9	20.1	20.6	21.2	22.2	23.4	25.0	27.1	29.7	32.5
G27.5	19.0	19.2	19.6	20.2	21.0	22.2	23.8	25.9	28.7	32.1
G30.0	18.3	18.5	18.9	19.4	20.2	21.3	22.9	24.9	27.7	31.5
G32.5	17.8	18.1	18.4	18.8	19.5	20.6	22.2	24.2	26.9	30.7
G35.0	17.1	17.4	17.7	18.1	18.7	19.8	21.3	23.4	26.1	29.7
G37.5	16.4	16.7	17.1	17.4	18.0	18.9	20.4	22.5	25.4	28.9
G40.0	16.0	16.3	16.7	16.9	17.3	18.2	19.5	21.6	24.5	28.0
G42.5	15.7	15.9	16.3	16.6	17.0	17.8	18.9	20.7	23.5	27.0
G45.0	15.3	15.5	15.9	16.1	16.6	17.4	18.6	20.1	22.5	25.8
G47.5	14.8	14.9	15.2	15.5	16.0	16.9	18.0	19.6	21.8	24.8
G50.0	14.4	14.5	14.7	15.0	15.5	16.3	17.4	18.9	21.2	24.1
G52.5	13.9	14.0	14.1	14.5	15.2	16.0	17.0	18.3	20.0	23.2
G55.0	13.4	13.5	13.6	14.0	14.8	15.7	16.8	18.0	19.5	21.7
G57.5	12.2	12.5	12.8	13.2	14.1	15.1	16.3	17.6	19.1	21.0
G60.0	10.7	10.9	11.3	12.0	13.0	14.2	15.5	16.8	18.3	20.2
G62.5	8.8	9.0	9.3	10.1	11.3	12.5	13.9	15.5	17.1	19.2
G65.0	6.6	6.8	7.3	8.0	9.2	10.5	11.9	13.6	15.3	17.7
G67.5	4.6	4.7	5.2	5.8	7.0	8.1	9.6	11.1	13.1	15.4
G70.0	1.6	1.6	1.7	2.0	2.5	5.7	7.1	8.6	10.5	12.9
G72.5	0.4	0.5	0.6	0.8	1.2	1.6	2.3	5.9	7.7	9.9
G75.0	0.0	0.0	0.0	0.0	0.2	0.5	1.0	1.8	4.1	6.0
G77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	2.0	2.9
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.6	2.4
G82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.1	1.8
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.0
G87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.7
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C150.0	C155.0	C160.0	C165.0	C170.0	C175.0	C180.0			
G0.0	35.8	35.8	35.8	35.8	35.8	35.8	35.8			
G2.5	35.7	35.8	35.8	35.8	35.8	35.8	35.8			
G5.0	35.5	35.6	35.7	35.8	35.9	35.9	35.9			
G7.5	35.3	35.5	35.8	35.9	36.1	36.2	36.2			
G10.0	35.1	35.5	35.8	36.2	36.4	36.6	36.7			
G12.5	35.1	35.6	36.1	36.6	37.0	37.4	37.5			
G15.0	35.1	36.0	36.7	37.4	38.0	38.5	38.7			
G17.5	35.3	36.5	37.5	38.5	39.2	39.9	40.1			
G20.0	35.3	37.1	38.6	39.9	41.0	41.8	42.2			
G22.5	35.5	37.8	39.8	41.7	42.9	44.1	44.4			
G25.0	35.7	38.8	41.3	43.5	45.3	46.5	47.0			
G27.5	35.7	39.6	42.7	45.3	47.5	48.9	49.3			
G30.0	35.7	40.3	44.2	47.2	49.5	51.2	51.6			
G32.5	35.6	40.6	45.7	49.2	51.6	53.3	53.7			
G35.0	35.3	40.9	47.1	51.2	53.9	55.7	56.0			
G37.5	34.5	41.1	47.8	53.3	56.2	58.0	58.4			
G40.0	33.0	41.2	48.3	55.4	58.9	60.5	61.0			
G42.5	31.9	40.7	48.8	57.3	61.2	62.5	63.2			
G45.0	30.7	39.8	49.0	58.9	63.4	65.4	66.0			
G47.5	29.4	37.4	48.7	59.9	66.7	69.2	70.3			
G50.0	28.3	34.6	48.0	61.1	70.7	75.2	76.8			
G52.5	27.4	32.5	46.8	62.8	76.4	83.3	86.2			
G55.0	26.3	30.9	44.6	64.2	83.5	94.0	98.2			
G57.5	24.5	29.8	41.2	66.0	93.4	107.9	113.0			
G60.0	23.3	28.1	39.4	67.8	107.7	121.4	124.9			
G62.5	22.1	26.8	37.1	69.5	121.8	134.9	141.0			
G65.0	20.6	25.2	34.8	74.7	134.4	153.7	161.5			
G67.5	18.7	22.9	32.4	79.1	151.5	169.1	172.2			
G70.0	16.1	20.3	30.1	80.0	156.2	173.1	171.7			
G72.5	13.0	17.5	27.7	72.7	145.9	162.0	159.3			
G75.0	8.7	13.1	23.8	62.7	128.1	161.4	156.7			
G77.5	4.3	7.6	16.6	45.2	107.3	148.4	154.3			
G80.0	2.8	4.4	10.0	24.7	63.2	108.5	126.5			
G82.5	2.1	3.4	7.1	14.6	26.5	49.3	66.9			
G85.0	1.1	2.0	4.7	8.1	11.4	12.0	9.9			
G87.5	0.7	1.0	2.1	3.9	5.0	3.4	3.2			
G90.0	0.5	0.5	0.8	1.4	2.0	2.2	2.0			

C Plane (°):0.0-180.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 4.839 m

Humidity:

Inspector: