

Report No.:

Test Time:

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Height (mm): 45

Current: 0.273 A

Power Factor: 0.994

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 119.9 V

Power: 32.53 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4505.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.6, 159.1, 165.8, 166.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 108.8, 112.6, 112.3

Luminaire Efficacy Rating (LER): 138.55

Max. Intensity: 1534.11 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4505.4 lm

Efficiency: 100%

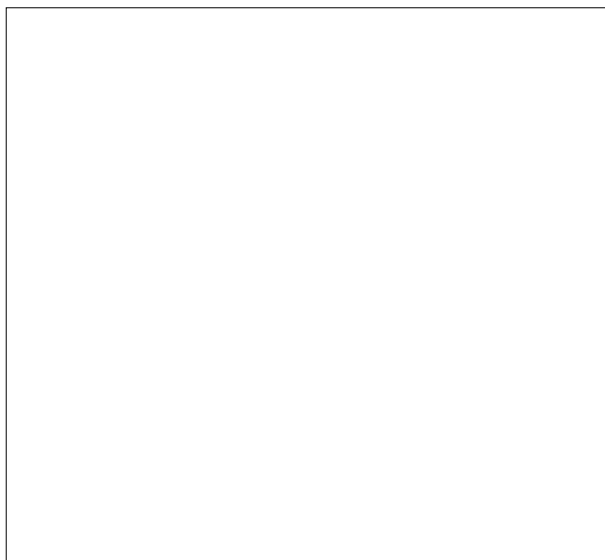
Upward Ratio: 1%

C0r0 Intensity: 1532.62 cd

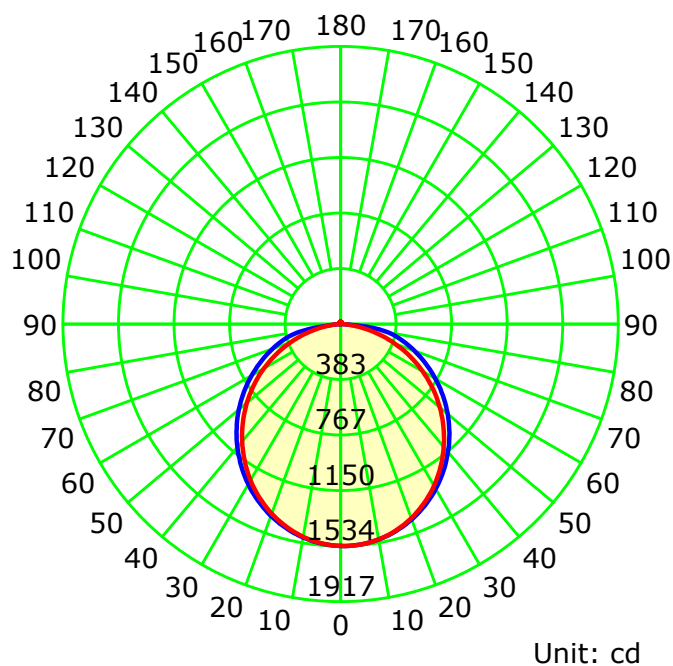
Pos of Max. Intensity: H60 V2

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

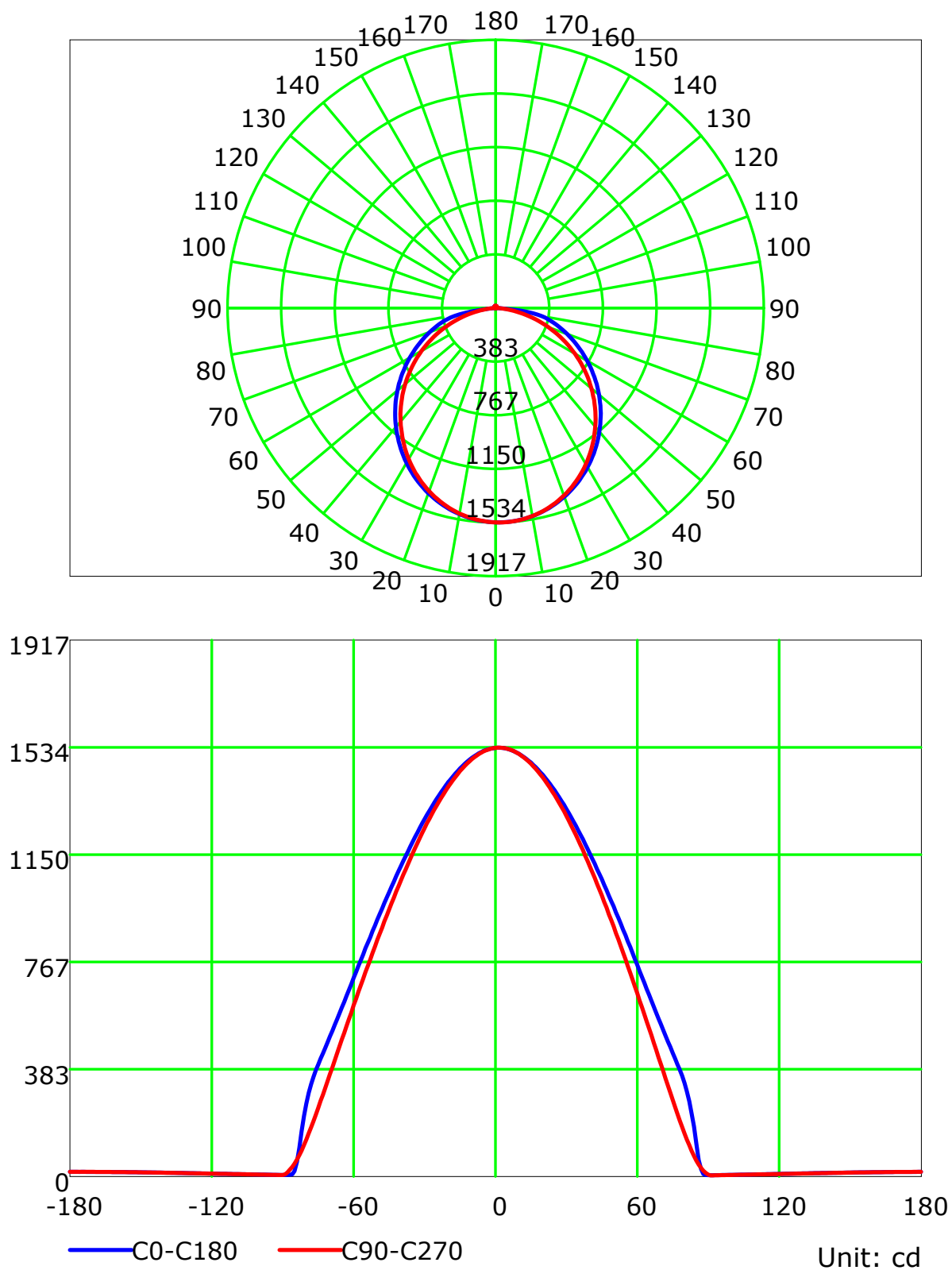
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

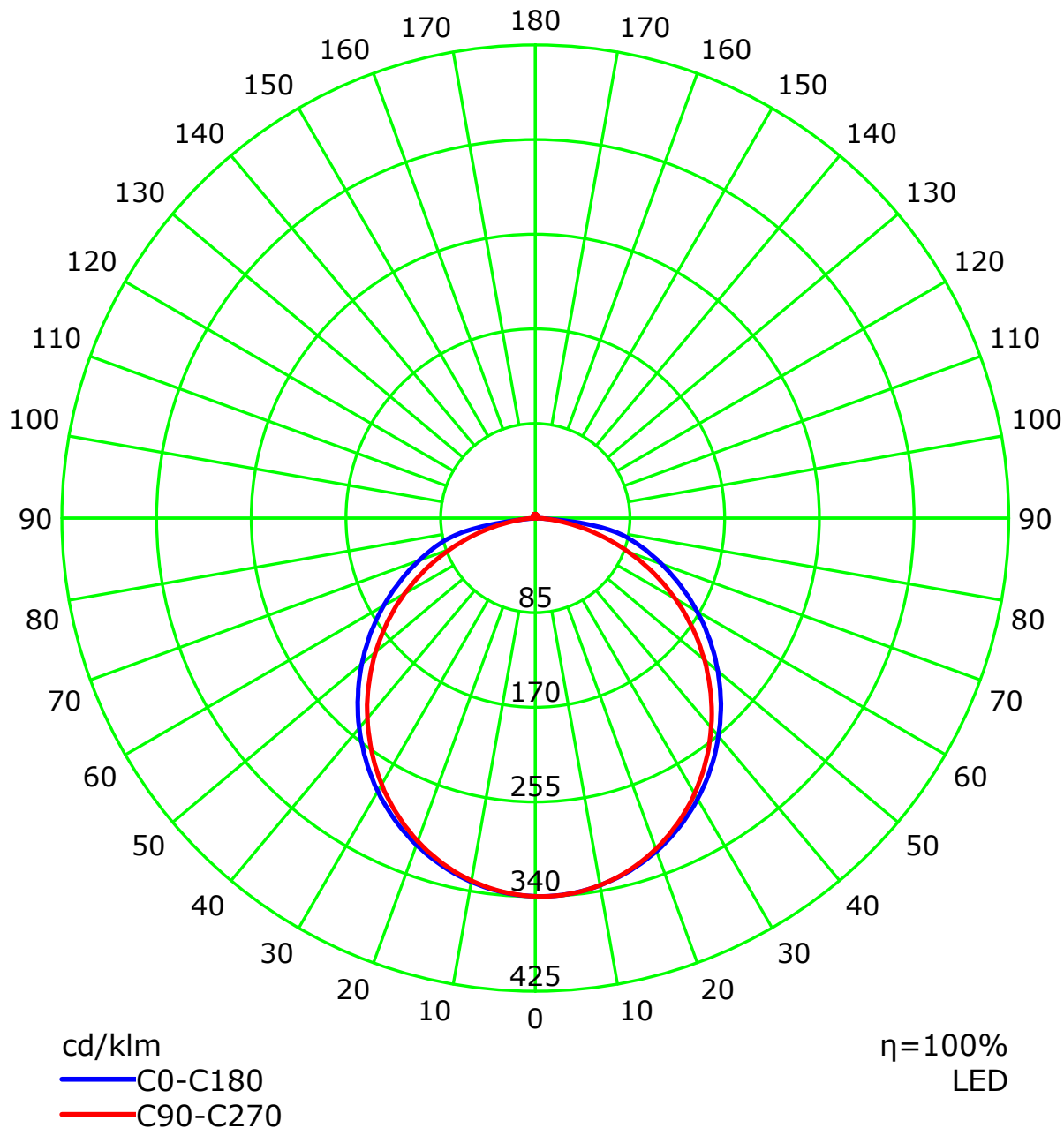
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



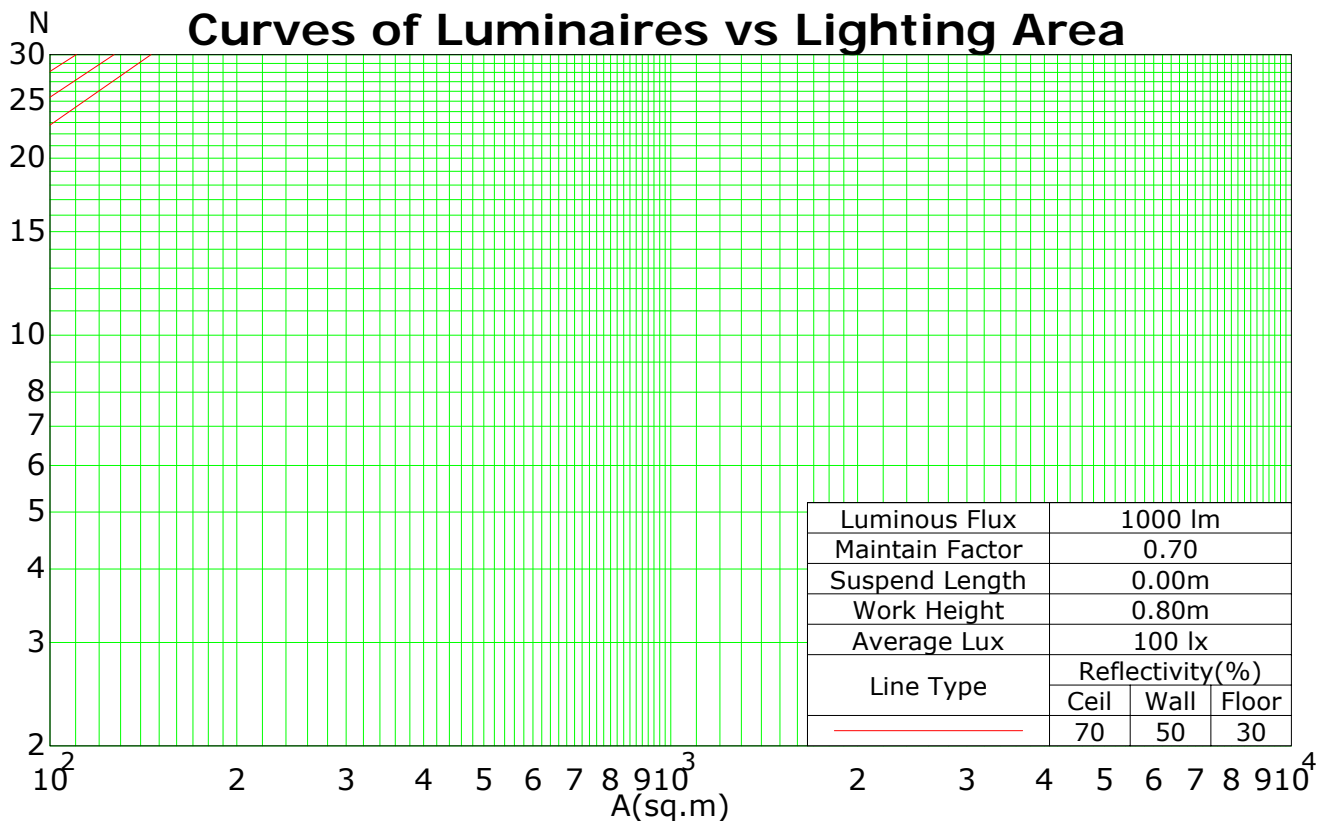
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.82
2	0.98	0.89	0.82	0.77	0.95	0.87	0.81	0.76	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.89	0.78	0.70	0.63	0.86	0.77	0.69	0.63	0.73	0.67	0.61	0.70	0.65	0.60	0.68	0.63	0.59	0.57
4	0.82	0.69	0.60	0.53	0.79	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.75	0.62	0.53	0.46	0.73	0.61	0.52	0.46	0.58	0.51	0.45	0.56	0.50	0.44	0.54	0.48	0.44	0.42
6	0.69	0.56	0.47	0.40	0.67	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38	0.36
7	0.64	0.50	0.42	0.35	0.62	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
8	0.60	0.46	0.37	0.31	0.58	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.30	0.29
9	0.56	0.42	0.34	0.28	0.54	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27	0.26
10	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

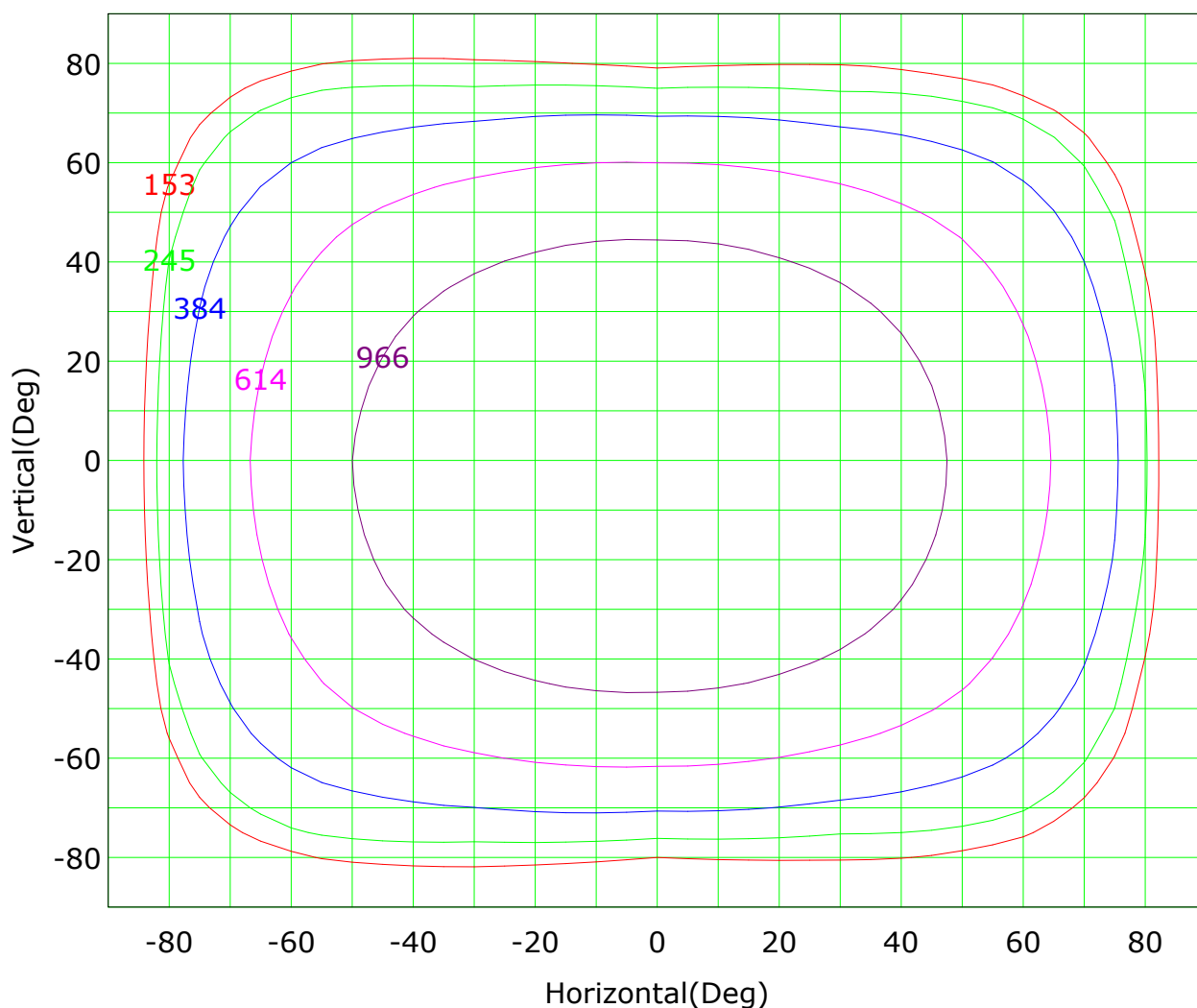
Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.23
Spacing Criteria (Diagonal): 1.37



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Isocandela (rectangle)



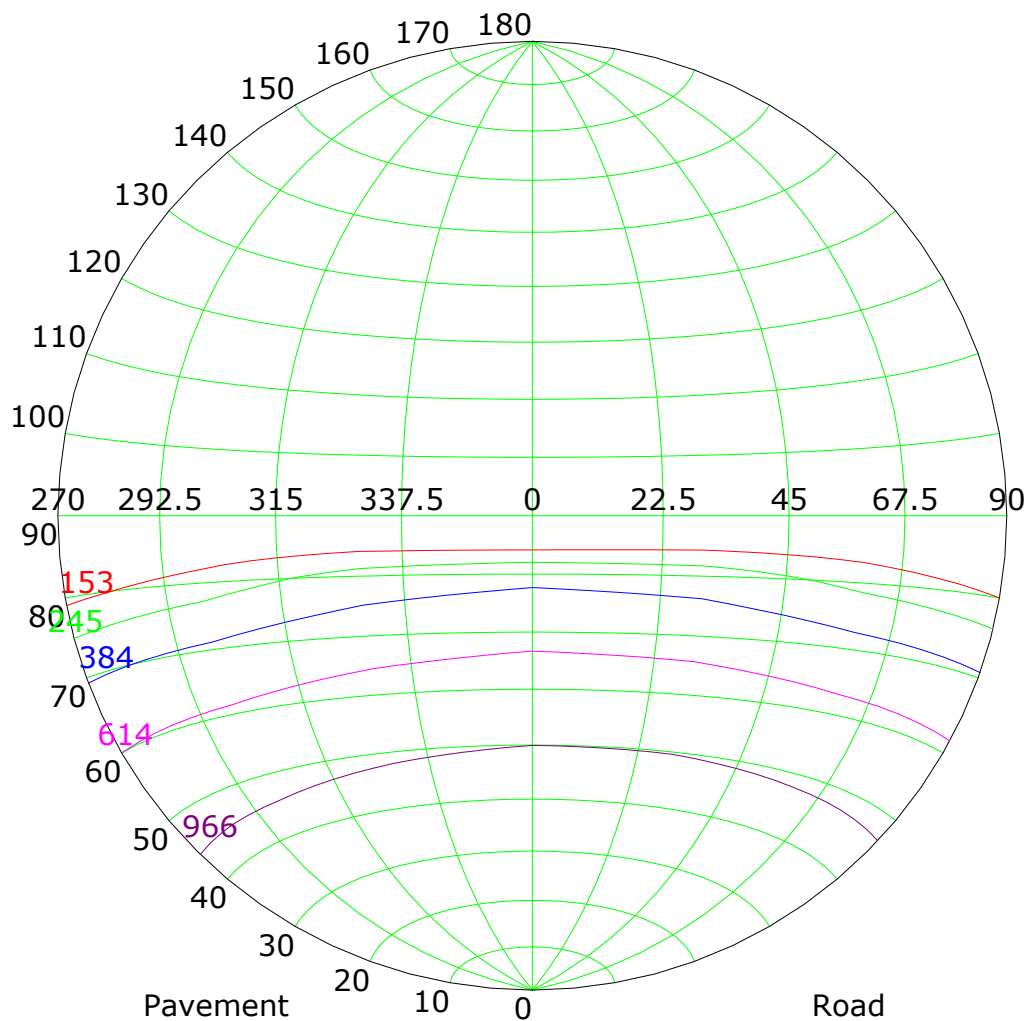
Imax (100%): 1534 cd

(10%): 153 cd	(16%): 245 cd
(25%): 384 cd	(40%): 614 cd
(63%): 966 cd	(100%): 1534 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 1534 cd

(10%): 153 cd	(16%): 245 cd
(25%): 384 cd	(40%): 614 cd
(63%): 966 cd	(100%): 1534 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

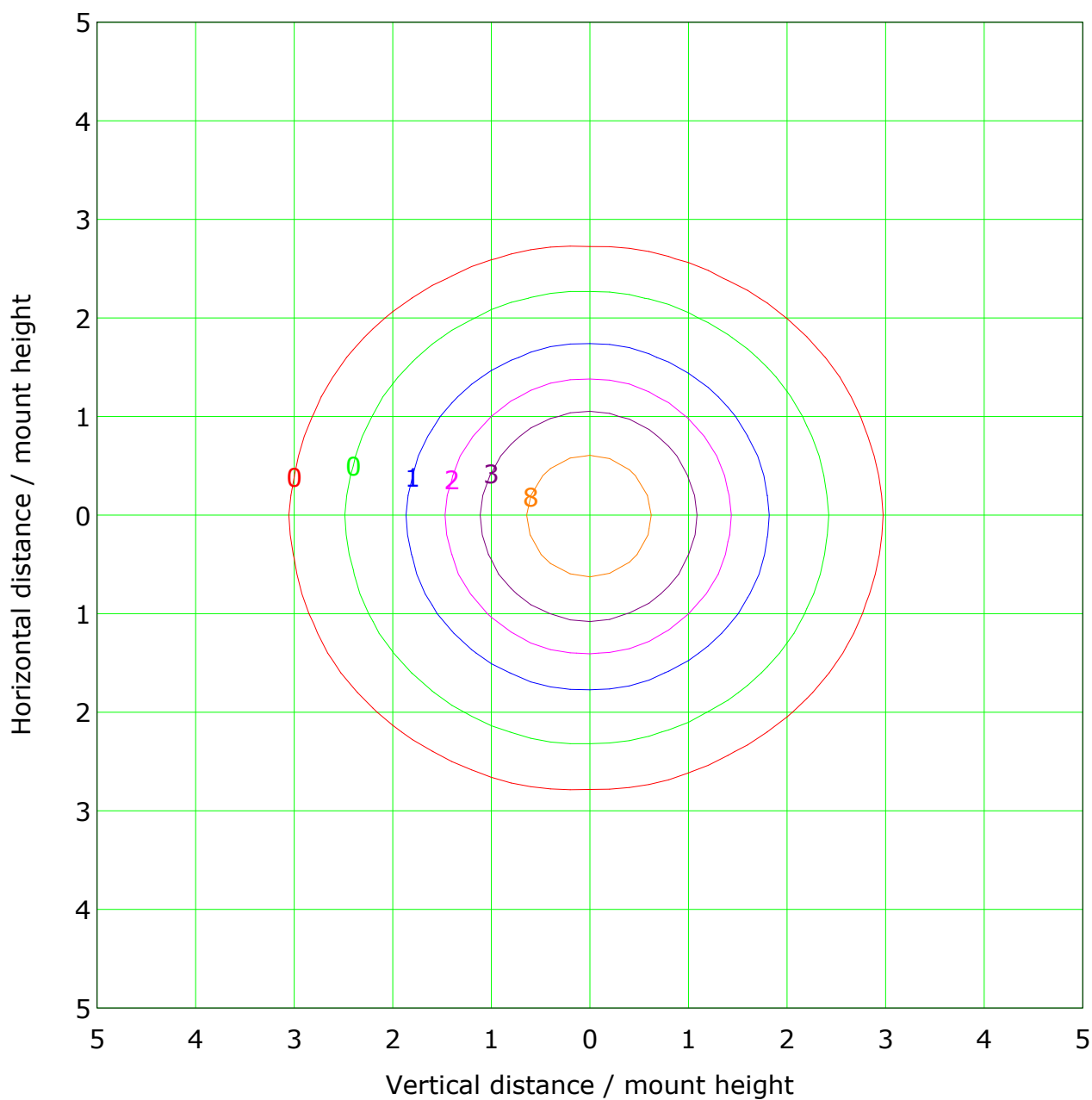
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



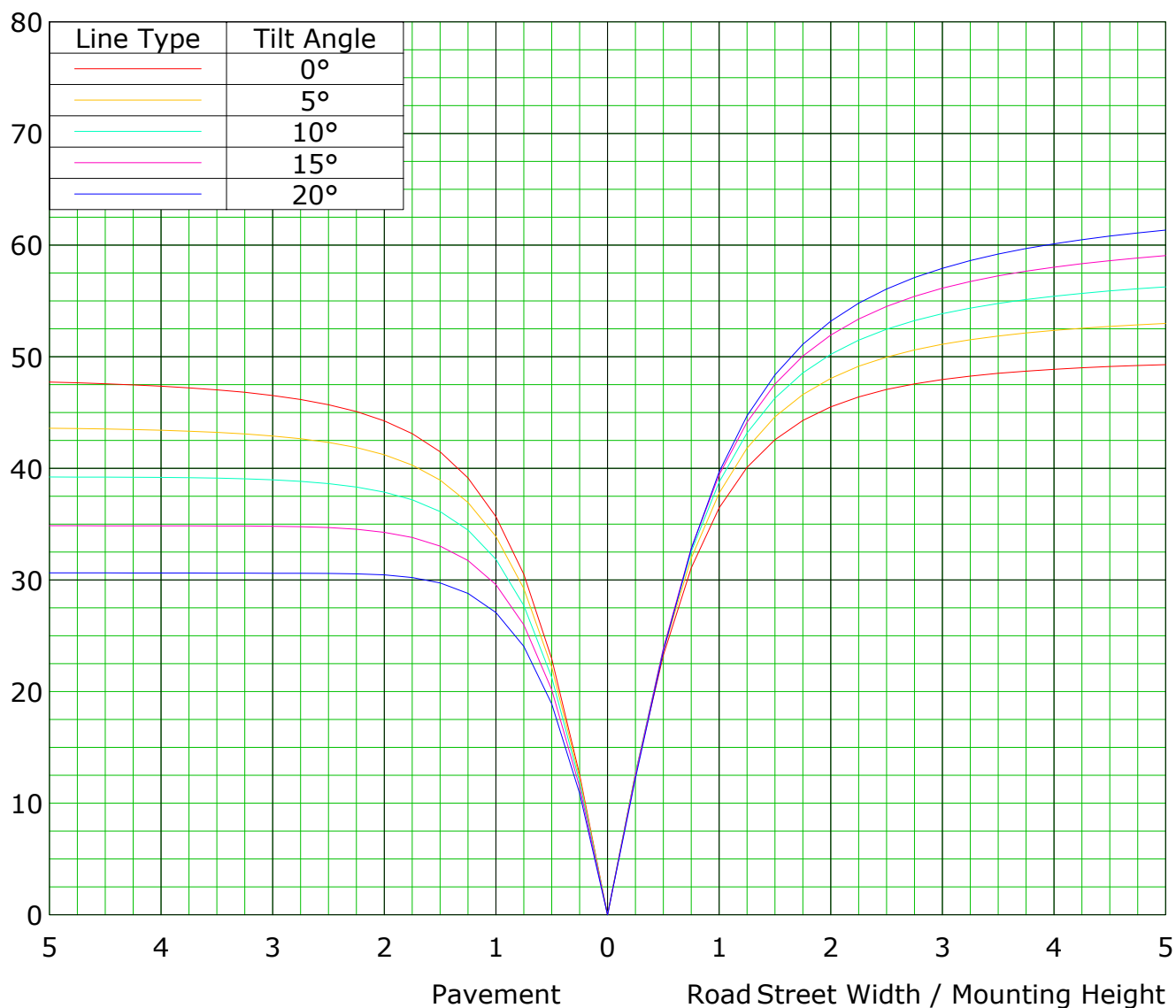
Mounting Height: 10.0m Max Lux(100%): 15.3 lx	
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.1 lx	(50%): 7.7 lx
(100%): 15.3 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

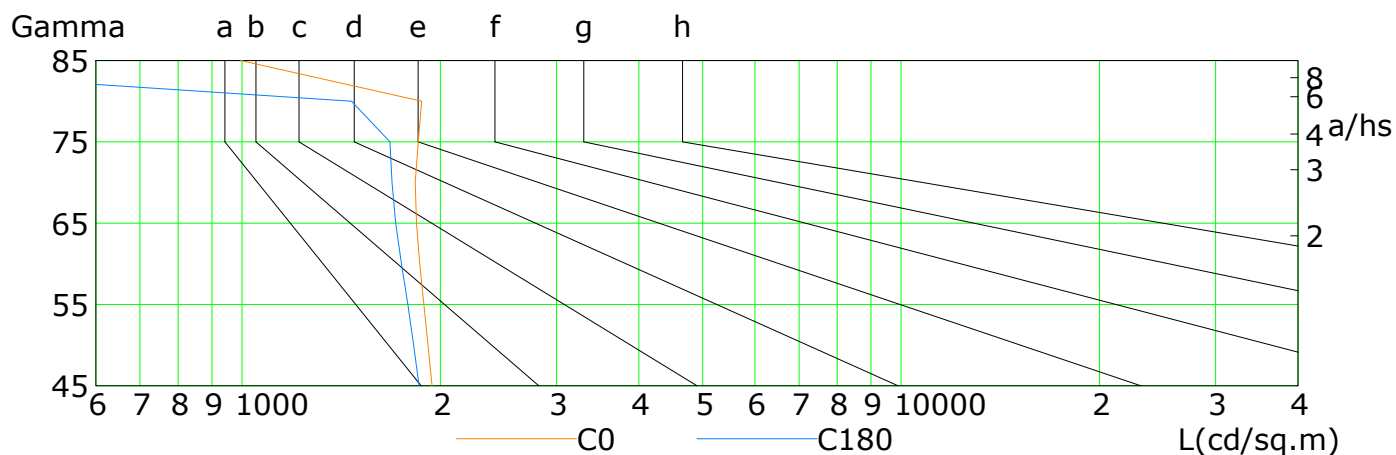
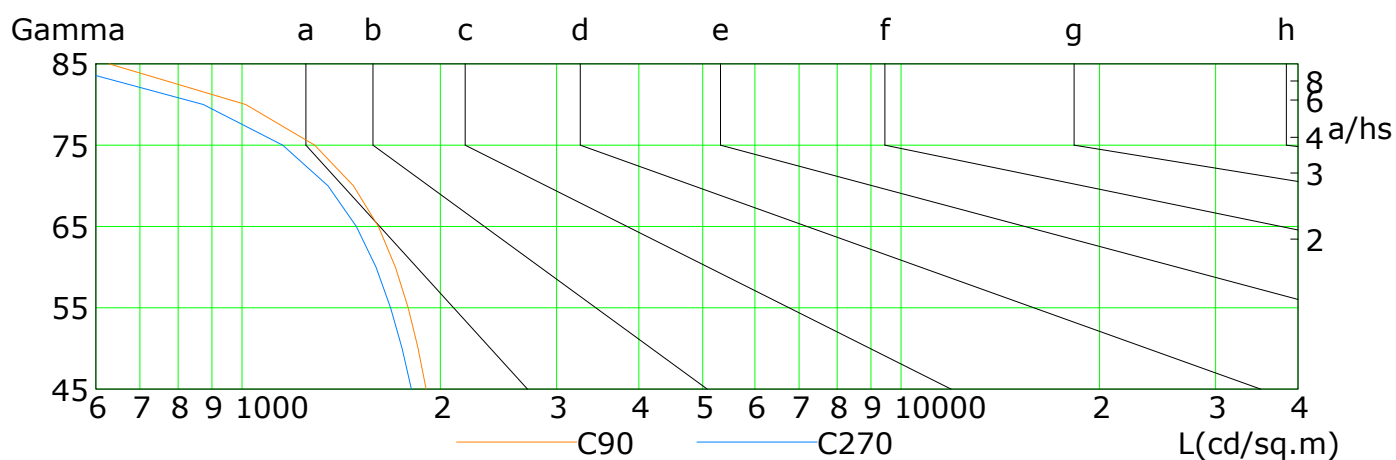
Humidity:

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	1942	1915	1888	1860	1839	1832	1850	1873	996
C90	1902	1850	1787	1709	1610	1476	1289	1013	629
C180	1856	1821	1785	1746	1711	1688	1676	1466	171
C270	1807	1749	1680	1597	1491	1350	1153	873	517

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

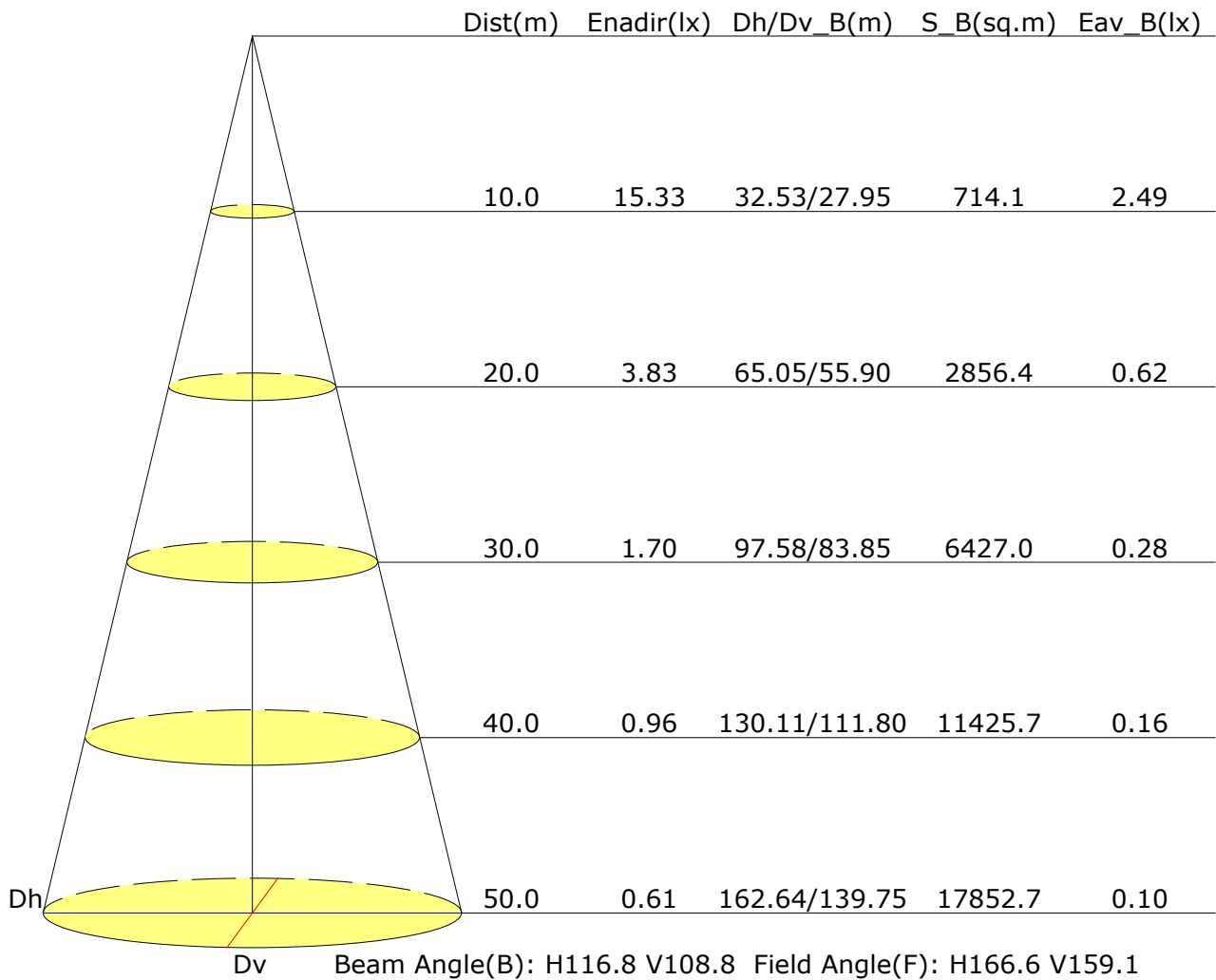
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

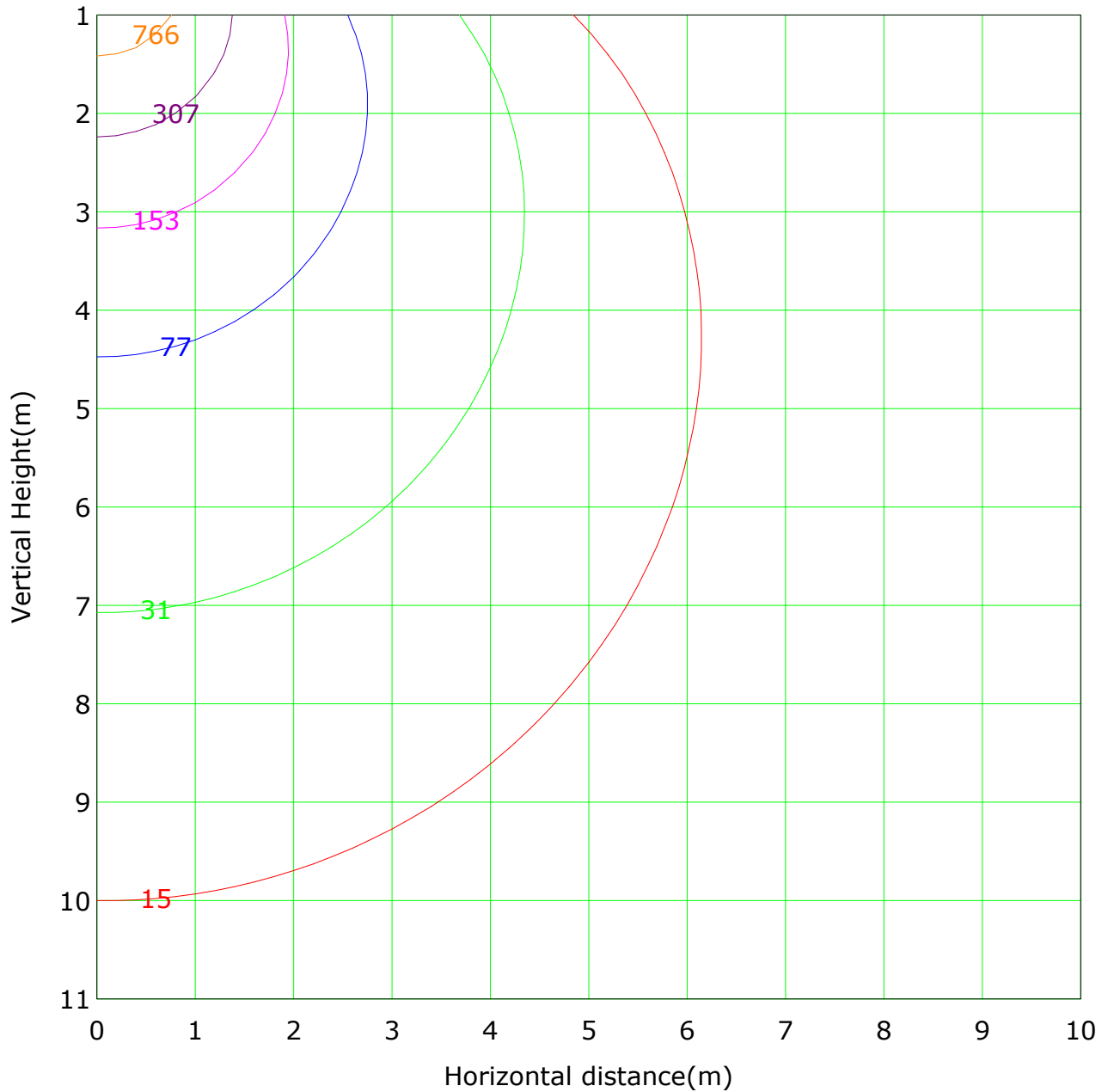
Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1532.6 lx

— (1%): 15.3 lx	— (2%): 30.7 lx
— (5%): 76.6 lx	— (10%): 153.3 lx
— (20%): 306.5 lx	— (50%): 766.3 lx
— (100%):1532.6 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Area Flux Table

Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(TT)	Flux(E)	0.0	0.0	0.1	0.2	0.6	1.1	1.5	1.7	1.7	1.8	2.1	2.2	2.0	1.5	0.9	0.3	0.1	0.0	18.0	1.0	
		0.0	0.1	1.0	2.8	4.6	5.8	6.7	7.4	7.6	7.7	7.6	7.1	6.3	5.4	4.1	2.3	0.6	0.0	77.0	73.0	
		0.0	0.7	3.1	5.7	8.0	10.3	12.3	14.0	14.8	14.9	14.3	12.8	10.9	8.6	6.3	3.9	1.5	0.1	142.3	141.4	
		0.0	1.5	4.5	7.7	11.2	14.8	18.1	20.7	22.0	22.2	21.1	18.7	15.5	11.9	8.3	5.0	2.2	0.2	205.6	205.1	
		0.1	2.1	5.5	9.6	14.3	19.2	23.5	26.9	28.8	28.9	27.3	24.2	19.9	15.1	10.2	5.9	2.6	0.3	264.3	264.0	
		0.2	2.6	6.3	11.2	17.0	23.0	28.3	32.4	34.8	34.9	32.9	29.0	23.8	17.8	11.9	6.8	3.0	0.4	316.3	316.1	
		0.2	2.9	7.0	12.6	19.2	26.1	32.3	37.1	39.8	40.0	37.6	33.0	26.9	20.1	13.3	7.5	3.2	0.5	359.3	359.2	
		0.3	3.1	7.5	13.6	20.8	28.3	35.2	40.5	43.5	43.7	41.1	36.0	29.2	21.7	14.3	8.0	3.4	0.5	390.7	390.6	
		0.3	3.2	7.8	14.2	21.7	29.6	36.8	42.4	45.6	45.8	43.0	37.6	30.5	22.6	15.0	8.4	3.5	0.5	408.5	408.3	
		0.3	3.2	7.8	14.2	21.7	29.6	36.8	42.4	45.6	45.8	43.0	37.6	30.5	22.6	15.0	8.4	3.5	0.5	410.8	410.6	
Flux(E)	Flux(TT)	0.3	3.2	7.8	14.2	21.8	29.7	37.0	42.7	45.9	46.1	43.3	37.9	30.7	22.8	15.0	8.4	3.5	0.5	410.8	410.6	
		0.3	3.1	7.5	13.7	21.1	28.8	35.8	41.3	44.3	44.5	41.8	36.6	29.7	22.0	14.5	8.1	3.4	0.5	397.1	396.9	
		0.2	2.9	7.1	12.8	19.7	26.8	33.2	38.2	41.0	41.2	38.7	34.0	27.7	20.6	13.6	7.6	3.3	0.5	368.9	368.7	
		0.2	2.6	6.4	11.5	17.6	23.8	29.4	33.7	36.2	36.4	34.3	30.2	24.7	18.5	12.3	7.0	3.0	0.4	327.8	327.6	
		0.1	2.2	5.6	9.9	14.9	20.0	24.6	28.2	30.2	30.4	28.7	25.4	20.9	15.8	10.6	6.1	2.7	0.3	276.5	276.2	
		0.1	1.6	4.6	8.0	11.7	15.6	19.1	21.9	23.4	23.6	22.4	19.9	16.5	12.6	8.7	5.2	2.2	0.2	217.1	216.7	
		0.0	0.8	3.4	6.0	8.4	10.9	13.1	15.0	16.0	16.1	15.5	13.9	11.7	9.2	6.7	4.1	1.5	0.1	152.4	151.6	
		0.0	0.2	1.5	3.5	5.1	6.2	7.2	8.1	8.4	8.6	8.5	7.9	7.0	5.9	4.4	2.4	0.6	0.0	85.3	82.7	
		0.0	0.0	0.1	0.5	1.1	1.7	2.1	2.2	2.1	2.2	2.4	2.5	2.2	1.7	0.9	0.3	0.1	0.0	22.1	4.0	
		2.4	32.7	86.7	157.6	238.8	321.6	396.3	454.3	486.0	488.9	462.7	408.8	336.2	253.7	171.1	97.2	40.3	5.0	4440		
1.1	30.8	84.9	155.7	236.5	318.6	393.1	450.7	481.8	484.8	458.6	405.3	333.2	251.5	169.3	95.6	38.7	3.6		4394			
Horizontal plane																						

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

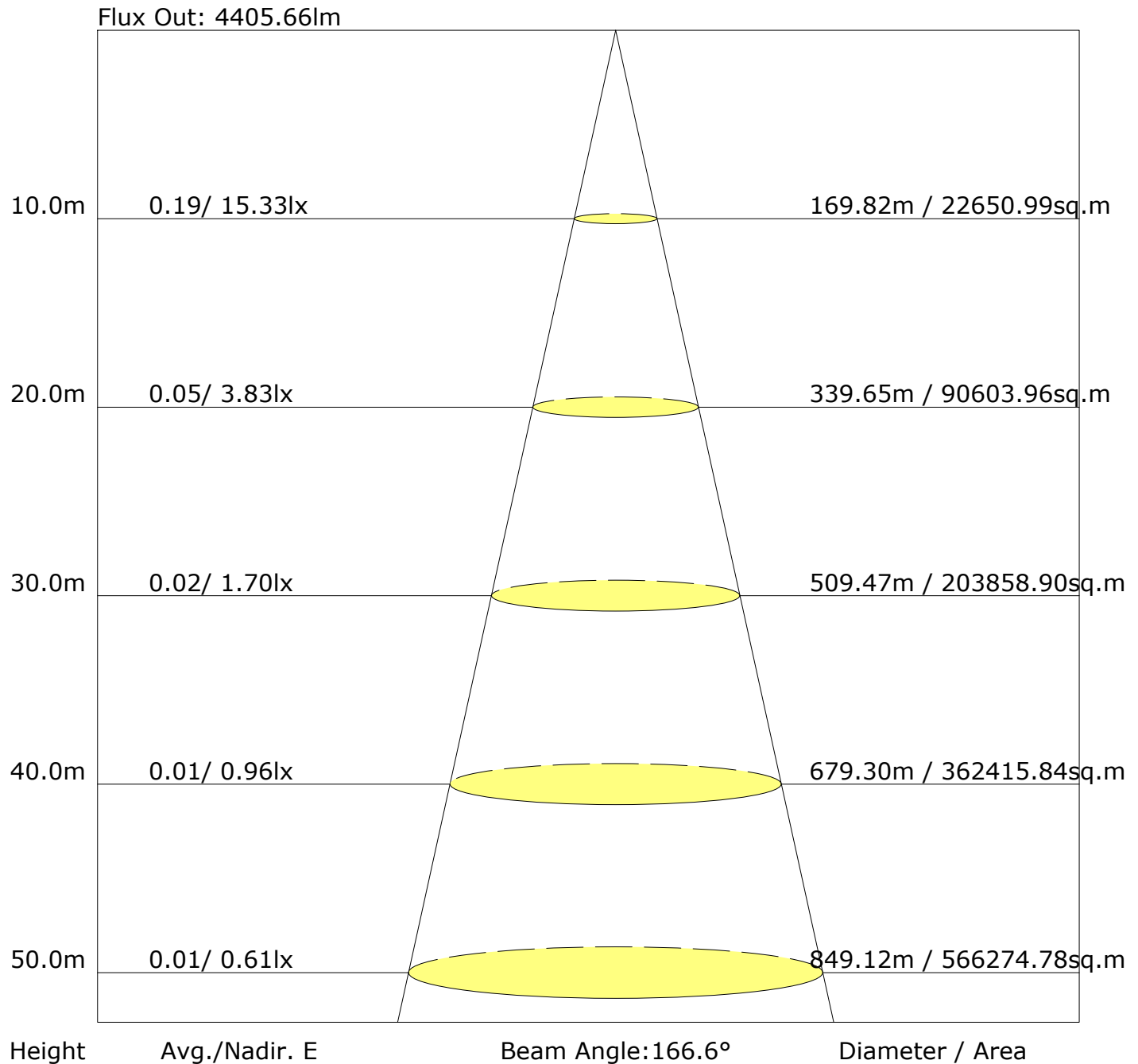
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

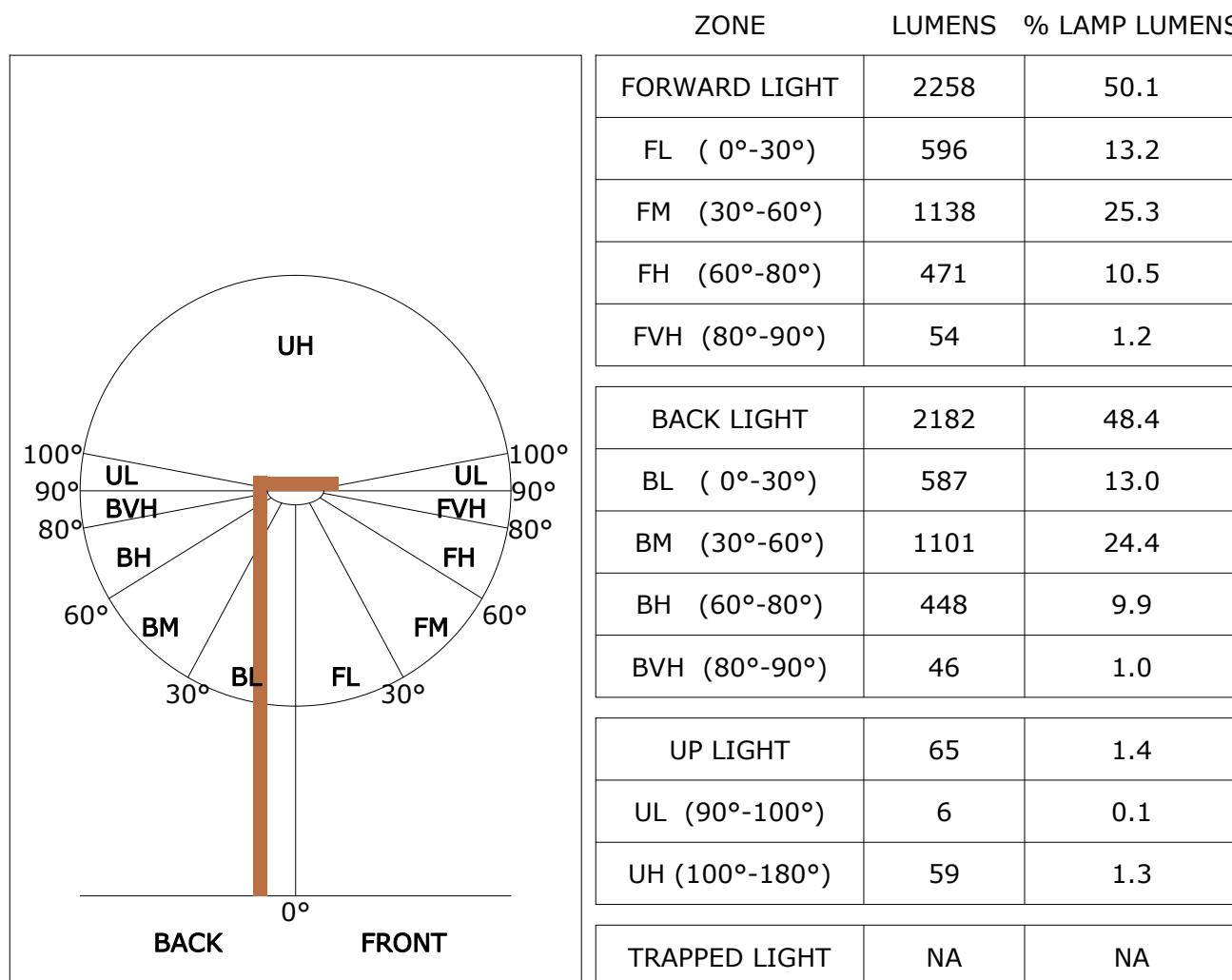
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	14.9	16.3	15.2	16.5	16.8	14.3	15.7	14.6	16.0	16.2
3H	16.7	18.0	17.1	18.3	18.6	15.8	17.0	16.1	17.3	17.6
4H	17.6	18.8	18.0	19.1	19.4	16.3	17.5	16.7	17.8	18.1
6H	18.4	19.5	18.8	19.8	20.2	16.7	17.8	17.0	18.1	18.5
8H	18.7	19.8	19.1	20.1	20.5	16.7	17.8	17.1	18.2	18.5
12H	18.8	19.9	19.2	20.2	20.6	16.8	17.8	17.2	18.2	18.5
X=4H Y=2H	15.5	16.7	15.9	17.0	17.3	15.1	16.2	15.4	16.6	16.9
3H	17.5	18.6	17.9	18.9	19.3	16.7	17.7	17.1	18.1	18.5
4H	18.6	19.5	19.0	19.9	20.3	17.4	18.3	17.8	18.7	19.1
6H	19.5	20.4	20.0	20.8	21.2	17.8	18.7	18.3	19.1	19.5
8H	19.9	20.7	20.4	21.1	21.6	18.0	18.7	18.4	19.2	19.6
12H	20.1	20.8	20.6	21.2	21.7	18.0	18.7	18.5	19.2	19.7
X=8H Y=4H	18.9	19.6	19.3	20.0	20.5	17.8	18.6	18.3	19.0	19.4
6H	20.0	20.6	20.5	21.1	21.6	18.4	19.0	18.9	19.5	20.0
8H	20.5	21.0	21.0	21.5	22.0	18.7	19.2	19.2	19.7	20.2
12H	20.8	21.2	21.3	21.7	22.3	18.8	19.3	19.3	19.8	20.3
X=12H Y=4H	18.9	19.5	19.3	20.0	20.5	17.9	18.6	18.3	19.0	19.5
6H	20.1	20.6	20.6	21.1	21.6	18.6	19.1	19.1	19.6	20.1
8H	20.6	21.1	21.1	21.6	22.1	18.8	19.3	19.4	19.8	20.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.7					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4505lm ($8\log(F/F_0) = 5.2$).

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

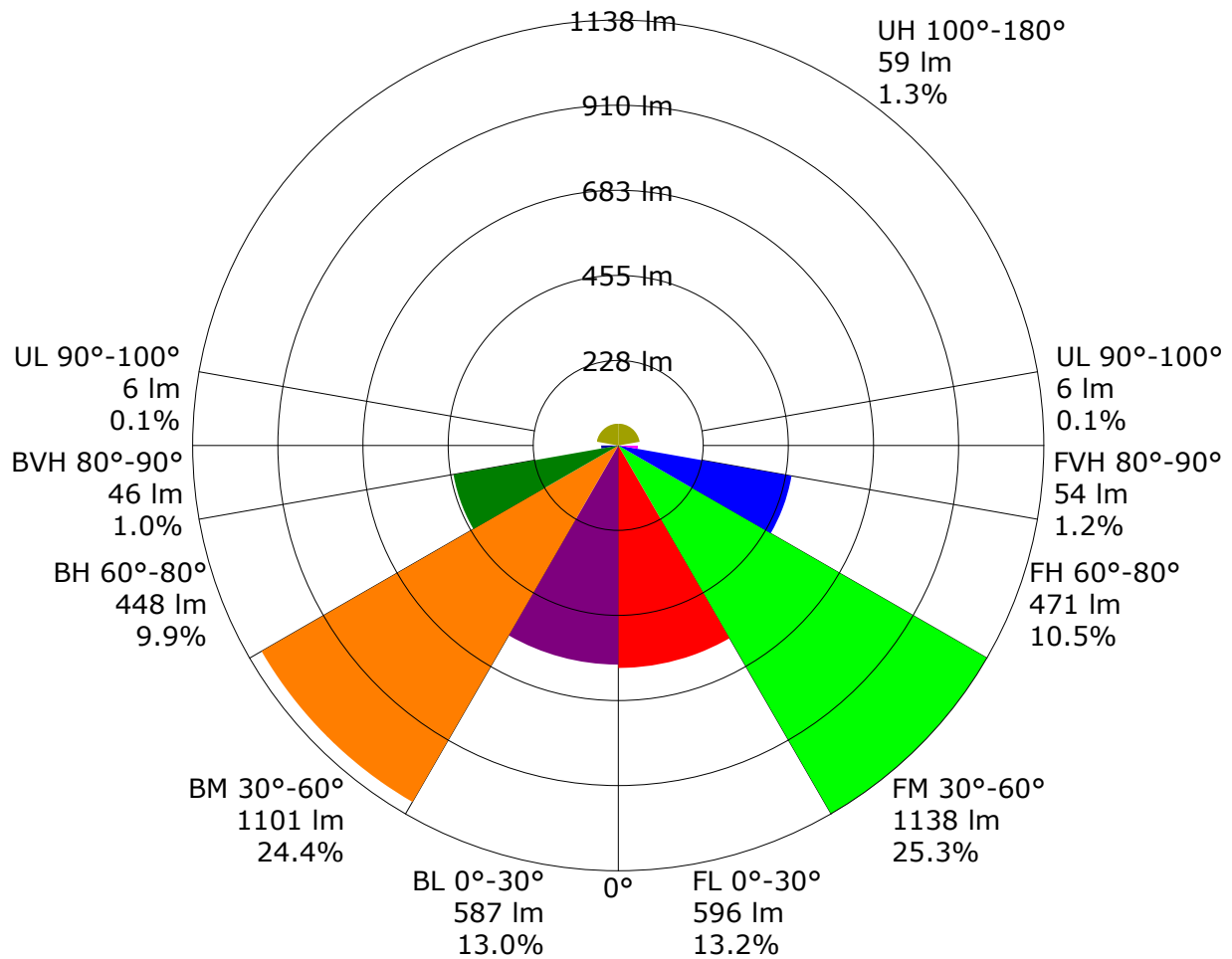
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LCS Graph



Back Light

Forward Light

Scale= 1138 lm

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.59	0.65	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.46	0.56	0.64	0.69	0.77	0.82	0.86	0.91	0.95	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.30		0.46	0.55	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.50	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.38	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
<p>Rating:33W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
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:33W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	1532.5	1.5	1.5	0.03	0.03
1.0-2.0	1531.9	4.4	5.9	0.10	0.13
2.0-3.0	1530.7	7.3	13.2	0.16	0.29
3.0-4.0	1528.8	10.2	23.4	0.23	0.52
4.0-5.0	1526.5	13.1	36.6	0.29	0.81
5.0-6.0	1523.5	16.0	52.6	0.36	1.17
6.0-7.0	1519.9	18.9	71.4	0.42	1.59
7.0-8.0	1515.7	21.7	93.1	0.48	2.07
8.0-9.0	1510.8	24.5	117.6	0.54	2.61
9.0-10.0	1505.5	27.2	144.9	0.60	3.22
10.0-11.0	1499.7	30.0	174.8	0.67	3.88
11.0-12.0	1493.1	32.6	207.5	0.72	4.61
12.0-13.0	1486.3	35.3	242.8	0.78	5.39
13.0-14.0	1478.8	37.9	280.6	0.84	6.23
14.0-15.0	1470.6	40.4	321.0	0.90	7.12
15.0-16.0	1461.8	42.8	363.8	0.95	8.08
16.0-17.0	1452.5	45.2	409.1	1.00	9.08
17.0-18.0	1443.2	47.6	456.7	1.06	10.14
18.0-19.0	1432.9	49.9	506.5	1.11	11.24
19.0-20.0	1422.1	52.1	558.6	1.16	12.40
20.0-21.0	1411.3	54.2	612.8	1.20	13.60
21.0-22.0	1399.4	56.2	669.0	1.25	14.85
22.0-23.0	1387.2	58.2	727.2	1.29	16.14
23.0-24.0	1374.5	60.1	787.3	1.33	17.48
24.0-25.0	1361.3	61.9	849.2	1.37	18.85
25.0-26.0	1348.2	63.7	912.9	1.41	20.26
26.0-27.0	1334.1	65.3	978.2	1.45	21.71
27.0-28.0	1319.6	66.8	1045.0	1.48	23.19
28.0-29.0	1305.3	68.3	1113.3	1.52	24.71
29.0-30.0	1290.0	69.7	1182.9	1.55	26.26
30.0-31.0	1274.1	70.9	1253.9	1.57	27.83
31.0-32.0	1258.0	72.1	1325.9	1.60	29.43
32.0-33.0	1241.4	73.1	1399.1	1.62	31.05
33.0-34.0	1225.0	74.1	1473.2	1.65	32.70
34.0-35.0	1207.5	75.0	1548.2	1.66	34.36
35.0-36.0	1190.0	75.8	1624.0	1.68	36.05

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	1172.3	76.5	1700.5	1.70	37.74
37.0-38.0	1154.0	77.0	1777.5	1.71	39.45
38.0-39.0	1135.7	77.5	1855.1	1.72	41.17
39.0-40.0	1116.7	77.9	1932.9	1.73	42.90
40.0-41.0	1097.6	78.2	2011.1	1.73	44.64
41.0-42.0	1078.9	78.4	2089.5	1.74	46.38
42.0-43.0	1059.2	78.5	2168.0	1.74	48.12
43.0-44.0	1039.3	78.4	2246.4	1.74	49.86
44.0-45.0	1019.2	78.3	2324.8	1.74	51.60
45.0-46.0	998.6	78.1	2402.9	1.73	53.33
46.0-47.0	978.3	77.8	2480.7	1.73	55.06
47.0-48.0	957.3	77.4	2558.1	1.72	56.78
48.0-49.0	936.0	76.9	2635.0	1.71	58.48
49.0-50.0	915.5	76.3	2711.3	1.69	60.18
50.0-51.0	893.8	75.6	2786.9	1.68	61.86
51.0-52.0	872.0	74.8	2861.8	1.66	63.52
52.0-53.0	850.4	74.0	2935.8	1.64	65.16
53.0-54.0	828.1	73.0	3008.8	1.62	66.78
54.0-55.0	806.2	72.0	3080.7	1.60	68.38
55.0-56.0	783.6	70.8	3151.6	1.57	69.95
56.0-57.0	761.0	69.6	3221.1	1.54	71.49
57.0-58.0	739.1	68.4	3289.5	1.52	73.01
58.0-59.0	716.0	66.9	3356.4	1.49	74.50
59.0-60.0	692.8	65.5	3421.9	1.45	75.95
60.0-61.0	669.7	63.9	3485.8	1.42	77.37
61.0-62.0	646.4	62.3	3548.1	1.38	78.75
62.0-63.0	624.1	60.7	3608.8	1.35	80.10
63.0-64.0	600.6	58.9	3667.8	1.31	81.41
64.0-65.0	577.2	57.1	3724.9	1.27	82.68
65.0-66.0	554.9	55.4	3780.3	1.23	83.91
66.0-67.0	531.5	53.5	3833.7	1.19	85.09
67.0-68.0	508.3	51.5	3885.2	1.14	86.23
68.0-69.0	485.1	49.5	3934.7	1.10	87.33
69.0-70.0	462.0	47.5	3982.2	1.05	88.39
70.0-71.0	439.8	45.5	4027.6	1.01	89.40
71.0-72.0	417.0	43.4	4071.0	0.96	90.36

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	394.2	41.2	4112.2	0.92	91.27
73.0-74.0	372.7	39.2	4151.4	0.87	92.14
74.0-75.0	350.5	37.0	4188.5	0.82	92.97
75.0-76.0	328.3	34.9	4223.3	0.77	93.74
76.0-77.0	306.3	32.7	4256.0	0.72	94.46
77.0-78.0	284.4	30.4	4286.4	0.68	95.14
78.0-79.0	263.0	28.3	4314.7	0.63	95.77
79.0-80.0	239.6	25.8	4340.5	0.57	96.34
80.0-81.0	214.8	23.2	4363.7	0.52	96.86
81.0-82.0	188.0	20.4	4384.1	0.45	97.31
82.0-83.0	158.0	17.2	4401.3	0.38	97.69
83.0-84.0	126.4	13.8	4415.1	0.31	98.00
84.0-85.0	93.8	10.2	4425.3	0.23	98.22
85.0-86.0	62.7	6.9	4432.2	0.15	98.37
86.0-87.0	38.3	4.2	4436.4	0.09	98.47
87.0-88.0	20.5	2.3	4438.6	0.05	98.52
88.0-89.0	10.0	1.1	4439.7	0.02	98.54
89.0-90.0	6.4	0.7	4440.4	0.02	98.56
90.0-91.0	5.4	0.6	4441.0	0.01	98.57
91.0-92.0	5.2	0.6	4441.6	0.01	98.58
92.0-93.0	5.3	0.6	4442.2	0.01	98.60
93.0-94.0	5.5	0.6	4442.8	0.01	98.61
94.0-95.0	5.7	0.6	4443.4	0.01	98.62
95.0-96.0	5.9	0.6	4444.1	0.01	98.64
96.0-97.0	6.0	0.7	4444.7	0.01	98.65
97.0-98.0	6.2	0.7	4445.4	0.01	98.67
98.0-99.0	6.4	0.7	4446.1	0.02	98.68
99.0-100.0	6.6	0.7	4446.8	0.02	98.70
100.0-101.0	6.7	0.7	4447.5	0.02	98.72
101.0-102.0	6.9	0.7	4448.3	0.02	98.73
102.0-103.0	7.1	0.8	4449.0	0.02	98.75
103.0-104.0	7.2	0.8	4449.8	0.02	98.77
104.0-105.0	7.4	0.8	4450.6	0.02	98.78
105.0-106.0	7.6	0.8	4451.4	0.02	98.80
106.0-107.0	7.7	0.8	4452.2	0.02	98.82
107.0-108.0	7.9	0.8	4453.0	0.02	98.84

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	8.1	0.8	4453.8	0.02	98.86
109.0-110.0	8.2	0.9	4454.7	0.02	98.87
110.0-111.0	8.4	0.9	4455.6	0.02	98.89
111.0-112.0	8.6	0.9	4456.4	0.02	98.91
112.0-113.0	8.8	0.9	4457.3	0.02	98.93
113.0-114.0	8.9	0.9	4458.2	0.02	98.95
114.0-115.0	9.1	0.9	4459.1	0.02	98.97
115.0-116.0	9.2	0.9	4460.0	0.02	98.99
116.0-117.0	9.4	0.9	4461.0	0.02	99.01
117.0-118.0	9.6	0.9	4461.9	0.02	99.03
118.0-119.0	9.7	0.9	4462.8	0.02	99.06
119.0-120.0	9.9	0.9	4463.8	0.02	99.08
120.0-121.0	10.1	1.0	4464.7	0.02	99.10
121.0-122.0	10.3	1.0	4465.7	0.02	99.12
122.0-123.0	10.4	1.0	4466.7	0.02	99.14
123.0-124.0	10.6	1.0	4467.6	0.02	99.16
124.0-125.0	10.8	1.0	4468.6	0.02	99.18
125.0-126.0	11.0	1.0	4469.6	0.02	99.21
126.0-127.0	11.1	1.0	4470.6	0.02	99.23
127.0-128.0	11.3	1.0	4471.6	0.02	99.25
128.0-129.0	11.5	1.0	4472.5	0.02	99.27
129.0-130.0	11.7	1.0	4473.5	0.02	99.29
130.0-131.0	11.9	1.0	4474.5	0.02	99.31
131.0-132.0	12.1	1.0	4475.5	0.02	99.34
132.0-133.0	12.2	1.0	4476.5	0.02	99.36
133.0-134.0	12.4	1.0	4477.5	0.02	99.38
134.0-135.0	12.6	1.0	4478.5	0.02	99.40
135.0-136.0	12.7	1.0	4479.4	0.02	99.42
136.0-137.0	12.9	1.0	4480.4	0.02	99.45
137.0-138.0	13.0	1.0	4481.4	0.02	99.47
138.0-139.0	13.2	1.0	4482.3	0.02	99.49
139.0-140.0	13.3	0.9	4483.3	0.02	99.51
140.0-141.0	13.5	0.9	4484.2	0.02	99.53
141.0-142.0	13.6	0.9	4485.2	0.02	99.55
142.0-143.0	13.8	0.9	4486.1	0.02	99.57
143.0-144.0	13.9	0.9	4487.0	0.02	99.59

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	14.0	0.9	4487.9	0.02	99.61
145.0-146.0	14.2	0.9	4488.8	0.02	99.63
146.0-147.0	14.3	0.9	4489.6	0.02	99.65
147.0-148.0	14.5	0.9	4490.5	0.02	99.67
148.0-149.0	14.6	0.8	4491.3	0.02	99.69
149.0-150.0	14.7	0.8	4492.1	0.02	99.71
150.0-151.0	14.8	0.8	4492.9	0.02	99.72
151.0-152.0	14.9	0.8	4493.7	0.02	99.74
152.0-153.0	15.1	0.8	4494.5	0.02	99.76
153.0-154.0	15.2	0.7	4495.2	0.02	99.77
154.0-155.0	15.3	0.7	4495.9	0.02	99.79
155.0-156.0	15.4	0.7	4496.6	0.02	99.81
156.0-157.0	15.5	0.7	4497.3	0.02	99.82
157.0-158.0	15.6	0.7	4498.0	0.01	99.84
158.0-159.0	15.7	0.6	4498.6	0.01	99.85
159.0-160.0	15.8	0.6	4499.2	0.01	99.86
160.0-161.0	15.9	0.6	4499.8	0.01	99.88
161.0-162.0	16.0	0.6	4500.4	0.01	99.89
162.0-163.0	16.1	0.5	4500.9	0.01	99.90
163.0-164.0	16.1	0.5	4501.4	0.01	99.91
164.0-165.0	16.2	0.5	4501.9	0.01	99.92
165.0-166.0	16.3	0.4	4502.3	0.01	99.93
166.0-167.0	16.4	0.4	4502.7	0.01	99.94
167.0-168.0	16.4	0.4	4503.1	0.01	99.95
168.0-169.0	16.5	0.4	4503.5	0.01	99.96
169.0-170.0	16.6	0.3	4503.8	0.01	99.96
170.0-171.0	16.6	0.3	4504.1	0.01	99.97
171.0-172.0	16.7	0.3	4504.4	0.01	99.98
172.0-173.0	16.7	0.2	4504.6	0.01	99.98
173.0-174.0	16.8	0.2	4504.8	0.00	99.99
174.0-175.0	16.8	0.2	4505.0	0.00	99.99
175.0-176.0	16.8	0.1	4505.1	0.00	99.99
176.0-177.0	16.9	0.1	4505.3	0.00	100.00
177.0-178.0	16.9	0.1	4505.3	0.00	100.00
178.0-179.0	16.9	0.0	4505.4	0.00	100.00
179.0-180.0	16.9	0.0	4505.4	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 2324.77 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 3421.91 lm

%lum = 76.0%

%lamp = 76.0%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6
G1.0	1533.3	1533.4	1533.7	1533.5	1532.9	1532.2	1531.4	1531.1	1530.9	1531.6
G2.0	1533.1	1533.6	1534.1	1533.6	1532.5	1531.5	1530.0	1529.2	1529.1	1529.7
G3.0	1532.4	1533.5	1533.6	1532.7	1530.8	1529.6	1527.7	1526.6	1525.8	1526.7
G4.0	1531.1	1532.3	1532.6	1531.6	1529.2	1527.6	1525.2	1523.4	1522.6	1524.0
G5.0	1529.4	1530.9	1530.8	1529.5	1527.0	1525.2	1522.1	1520.1	1519.1	1520.2
G6.0	1526.7	1528.5	1528.8	1527.0	1524.0	1522.2	1517.7	1515.5	1514.3	1515.7
G7.0	1523.5	1526.2	1525.7	1524.1	1520.5	1518.3	1513.6	1511.1	1509.2	1510.7
G8.0	1520.0	1522.8	1522.4	1520.2	1516.6	1514.2	1508.2	1505.7	1503.3	1504.7
G9.0	1515.9	1518.8	1518.1	1515.1	1511.6	1508.4	1502.6	1499.8	1496.6	1498.7
G10.0	1511.2	1514.8	1513.6	1510.5	1506.5	1503.4	1496.8	1493.4	1490.0	1492.3
G11.0	1505.5	1509.6	1508.1	1504.6	1500.3	1497.6	1490.2	1486.2	1482.6	1484.1
G12.0	1499.8	1504.2	1502.4	1498.3	1493.8	1490.4	1483.1	1479.0	1474.6	1476.6
G13.0	1493.9	1498.5	1496.2	1491.8	1487.0	1484.2	1475.8	1471.3	1466.5	1468.6
G14.0	1486.7	1491.4	1488.6	1484.3	1479.0	1475.8	1467.3	1461.9	1457.4	1458.9
G15.0	1480.2	1484.6	1481.4	1476.0	1471.4	1468.2	1458.7	1453.5	1447.8	1449.6
G16.0	1471.4	1476.5	1472.5	1467.1	1461.6	1458.8	1449.5	1443.6	1436.7	1439.1
G17.0	1463.7	1468.7	1464.2	1457.9	1452.6	1450.3	1440.3	1433.8	1426.8	1428.0
G18.0	1455.0	1459.8	1455.6	1448.5	1443.2	1440.5	1430.3	1423.7	1415.9	1417.6
G19.0	1445.2	1450.3	1445.0	1437.4	1431.7	1429.9	1419.6	1412.3	1403.9	1405.5
G20.0	1436.6	1441.0	1435.2	1426.9	1421.6	1419.8	1409.3	1401.0	1392.0	1393.4
G21.0	1426.4	1430.5	1424.1	1416.0	1410.2	1408.5	1398.3	1389.6	1379.7	1380.9
G22.0	1415.2	1419.6	1412.2	1402.9	1397.5	1396.3	1386.0	1376.3	1366.2	1366.9
G23.0	1404.7	1409.1	1401.0	1391.3	1385.0	1384.9	1374.2	1364.0	1352.9	1353.9
G24.0	1392.5	1396.4	1387.4	1376.9	1371.5	1371.0	1361.1	1350.3	1338.2	1339.3
G25.0	1381.0	1384.7	1375.4	1364.3	1359.1	1358.7	1348.5	1337.4	1324.5	1324.5
G26.0	1368.6	1372.3	1362.1	1350.5	1345.2	1345.1	1335.5	1323.4	1309.7	1310.6
G27.0	1355.2	1358.7	1347.7	1335.4	1330.0	1330.8	1321.0	1308.4	1293.9	1294.4
G28.0	1342.0	1346.0	1334.3	1321.2	1315.8	1317.1	1307.0	1293.6	1278.2	1278.5
G29.0	1329.2	1332.2	1319.3	1306.6	1301.1	1302.7	1292.9	1279.0	1263.3	1263.4
G30.0	1314.1	1317.5	1302.8	1289.3	1283.8	1287.0	1277.5	1262.9	1246.1	1245.3
G31.0	1300.2	1302.8	1287.9	1273.5	1268.9	1271.3	1263.1	1247.8	1229.6	1229.0
G32.0	1285.0	1287.0	1271.1	1255.7	1251.4	1255.3	1246.5	1230.2	1211.7	1210.9
G33.0	1269.8	1272.2	1254.8	1239.2	1234.6	1239.2	1230.5	1213.7	1194.1	1193.2
G34.0	1254.9	1256.8	1238.8	1222.1	1218.2	1223.2	1214.3	1196.9	1176.4	1175.0
G35.0	1237.7	1238.9	1220.1	1203.5	1199.0	1205.1	1197.0	1178.7	1157.4	1155.9
G36.0	1222.3	1223.3	1203.4	1185.3	1181.8	1188.7	1181.0	1162.1	1140.1	1137.2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	1206.2	1206.4	1185.9	1167.6	1163.5	1171.1	1162.3	1142.7	1119.5	1117.2
G38.0	1188.4	1188.4	1166.7	1146.7	1144.3	1152.4	1146.0	1125.5	1101.4	1098.2
G39.0	1171.4	1170.9	1147.8	1127.9	1125.1	1134.6	1128.5	1107.3	1082.2	1079.6
G40.0	1153.2	1152.1	1128.1	1107.2	1104.9	1115.1	1109.8	1087.6	1061.8	1058.6
G41.0	1135.7	1134.0	1108.8	1088.2	1085.6	1096.6	1092.5	1069.0	1042.9	1038.6
G42.0	1118.6	1116.4	1090.3	1068.2	1066.5	1078.3	1074.0	1050.6	1022.9	1019.0
G43.0	1098.8	1097.1	1069.7	1046.7	1044.6	1057.6	1054.7	1030.5	1001.7	997.4
G44.0	1081.5	1078.0	1049.6	1025.9	1025.0	1039.0	1035.9	1011.9	980.9	976.6
G45.0	1063.0	1058.8	1029.0	1004.8	1004.1	1019.3	1015.9	990.4	959.3	954.5
G46.0	1043.1	1038.6	1007.4	982.3	981.4	998.4	997.6	970.5	939.3	933.0
G47.0	1024.1	1018.8	986.5	961.9	961.0	978.2	978.3	951.5	918.2	912.6
G48.0	1003.9	998.0	964.4	937.8	938.6	957.0	957.8	929.6	895.8	889.1
G49.0	984.4	977.5	943.0	917.0	916.6	936.5	938.0	910.1	874.3	867.9
G50.0	965.7	958.4	922.3	894.5	895.8	916.7	918.0	889.6	852.6	845.8
G51.0	944.0	936.0	898.5	869.9	871.7	893.9	897.1	867.9	829.7	822.3
G52.0	924.8	916.2	877.1	848.0	850.2	874.0	877.7	847.8	808.6	799.7
G53.0	904.9	895.4	855.0	825.2	827.5	852.7	855.4	824.8	784.3	776.0
G54.0	882.6	872.2	831.5	801.0	802.6	829.3	835.9	804.6	762.7	753.1
G55.0	863.2	852.1	808.7	777.4	780.8	808.8	816.3	783.5	740.1	731.1
G56.0	840.7	828.5	783.8	752.5	755.2	785.2	793.6	761.1	716.4	706.9
G57.0	821.2	808.2	761.6	728.8	733.2	764.4	772.7	739.6	694.5	683.4
G58.0	800.1	786.4	738.2	704.8	709.7	742.5	753.0	719.1	671.5	660.9
G59.0	777.4	762.7	712.7	679.4	684.0	718.6	731.1	695.5	647.3	635.0
G60.0	756.6	741.7	689.0	655.2	661.2	697.5	710.0	674.6	624.0	612.3
G61.0	734.4	717.6	664.3	628.6	635.3	673.4	688.2	652.1	599.8	586.1
G62.0	713.2	696.8	641.7	605.0	611.4	651.2	666.9	629.9	576.3	563.0
G63.0	693.1	674.7	617.7	580.4	588.4	630.0	646.8	609.3	553.9	539.0
G64.0	669.9	650.3	591.5	554.3	561.9	606.7	623.9	585.3	528.5	513.4
G65.0	649.6	629.0	568.5	529.3	538.6	584.3	604.3	564.5	506.0	490.1
G66.0	628.7	607.8	544.3	505.3	514.5	562.1	583.8	542.9	482.5	465.9
G67.0	606.7	583.2	518.9	477.9	489.2	539.1	562.5	520.5	458.1	440.4
G68.0	586.0	561.2	494.8	453.7	464.8	517.1	543.0	500.2	435.7	415.9
G69.0	564.5	538.3	469.5	426.1	439.5	494.6	520.8	477.4	410.3	390.1
G70.0	544.0	516.6	445.5	400.8	415.3	473.3	501.4	457.6	388.2	366.8
G71.0	523.7	496.1	421.4	376.7	391.4	452.1	481.2	436.9	365.1	342.5
G72.0	502.5	473.0	396.4	349.1	366.5	430.3	460.2	415.4	341.2	317.1
G73.0	482.3	451.5	372.6	325.1	342.7	409.3	440.4	395.1	318.8	292.9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	463.1	431.5	350.0	299.9	320.3	389.6	421.5	375.8	297.5	270.5
G75.0	441.4	409.5	325.4	273.8	295.1	368.0	399.8	353.8	274.0	244.9
G76.0	422.3	388.9	302.4	249.3	273.3	347.6	380.7	334.6	253.7	221.6
G77.0	400.6	366.2	277.8	223.9	249.1	325.6	356.0	312.7	231.4	197.8
G78.0	381.8	346.6	257.0	200.2	228.9	306.3	330.8	291.4	212.5	176.7
G79.0	360.3	326.1	235.8	177.1	208.4	285.2	299.8	264.9	193.1	155.2
G80.0	333.7	304.6	214.2	153.6	186.5	259.9	261.2	231.8	173.6	132.4
G81.0	304.0	280.1	194.2	132.2	168.1	232.1	217.5	195.1	154.9	113.5
G82.0	269.1	251.6	174.4	112.3	149.4	198.6	162.8	149.3	135.4	93.1
G83.0	226.0	216.7	154.3	92.0	131.0	157.3	102.3	96.9	112.8	76.6
G84.0	179.2	179.6	135.3	74.0	113.3	110.0	52.1	45.5	87.5	60.8
G85.0	116.0	128.8	113.2	56.4	93.1	55.6	20.0	17.6	53.2	46.3
G86.0	58.9	75.2	89.0	42.7	71.0	21.6	7.8	10.0	18.9	34.5
G87.0	26.7	32.0	60.2	30.8	46.1	7.1	6.4	8.5	10.5	24.9
G88.0	8.7	11.7	24.6	20.6	15.6	5.2	6.0	7.0	6.9	15.0
G89.0	5.7	7.8	9.6	12.8	5.8	4.7	5.7	5.8	5.4	7.9
G90.0	5.2	6.5	7.0	7.0	4.3	4.7	5.6	5.7	5.6	5.5
G91.0	4.9	5.4	4.3	4.3	4.5	4.9	5.8	5.9	5.8	5.6
G92.0	4.8	4.6	4.4	4.5	4.7	5.0	6.0	6.1	6.0	5.8
G93.0	5.0	4.7	4.5	4.8	4.8	5.2	6.2	6.3	6.1	6.0
G94.0	5.1	4.9	4.7	4.9	5.1	5.3	6.3	6.4	6.4	6.2
G95.0	5.3	5.0	4.9	5.0	5.2	5.4	6.4	6.6	6.5	6.3
G96.0	5.5	5.2	5.1	5.2	5.3	5.7	6.6	6.8	6.7	6.6
G97.0	5.6	5.4	5.2	5.3	5.5	5.9	6.9	6.9	6.9	6.7
G98.0	5.8	5.5	5.4	5.5	5.7	6.1	7.0	7.1	7.1	6.9
G99.0	6.0	5.7	5.6	5.7	6.0	6.2	7.2	7.3	7.3	7.1
G100.0	6.1	5.9	5.7	5.9	6.1	6.4	7.3	7.4	7.3	7.2
G101.0	6.3	6.0	5.9	6.1	6.4	6.5	7.5	7.5	7.5	7.4
G102.0	6.5	6.2	6.1	6.2	6.5	6.8	7.6	7.8	7.8	7.6
G103.0	6.6	6.3	6.3	6.4	6.6	6.9	7.8	7.9	7.9	7.7
G104.0	6.9	6.6	6.4	6.5	6.8	7.1	7.9	8.1	8.0	7.8
G105.0	7.0	6.7	6.6	6.7	6.9	7.2	8.2	8.2	8.2	8.1
G106.0	7.2	6.9	6.8	6.9	7.1	7.5	8.3	8.4	8.4	8.2
G107.0	7.4	7.1	6.9	7.1	7.3	7.6	8.4	8.5	8.5	8.5
G108.0	7.5	7.2	7.1	7.2	7.5	7.9	8.6	8.8	8.8	8.7
G109.0	7.7	7.3	7.3	7.4	7.7	7.8	8.8	8.9	9.0	8.8
G110.0	7.8	7.5	7.4	7.6	7.9	8.1	8.9	9.1	9.2	8.9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	8.1	7.7	7.6	7.8	8.1	8.3	9.1	9.2	9.4	9.1
G112.0	8.2	7.9	7.8	8.0	8.3	8.4	9.3	9.3	9.6	9.3
G113.0	8.3	8.0	7.9	8.0	8.5	8.6	9.4	9.5	9.7	9.4
G114.0	8.6	8.2	8.2	8.2	8.5	8.7	9.6	9.7	9.9	9.6
G115.0	8.7	8.4	8.3	8.4	8.6	8.9	9.8	9.8	9.9	9.8
G116.0	8.9	8.5	8.5	8.6	8.9	9.1	9.9	10.0	10.0	9.9
G117.0	9.0	8.7	8.6	8.8	9.0	9.3	10.0	10.2	10.2	10.0
G118.0	9.1	8.8	8.9	9.0	9.3	9.5	10.2	10.3	10.4	10.2
G119.0	9.3	9.0	9.0	9.1	9.4	9.7	10.4	10.5	10.6	10.3
G120.0	9.6	9.2	9.2	9.2	9.7	9.9	10.6	10.7	10.8	10.6
G121.0	9.7	9.4	9.3	9.4	9.8	10.1	10.7	10.8	10.9	10.7
G122.0	10.0	9.6	9.5	9.6	9.8	10.3	11.0	11.0	11.0	10.8
G123.0	10.0	9.8	9.7	9.8	10.1	10.4	11.1	11.2	11.2	11.0
G124.0	10.2	9.9	9.9	9.9	10.1	10.7	11.3	11.4	11.4	11.2
G125.0	10.4	10.2	10.0	10.1	10.4	10.8	11.5	11.6	11.6	11.4
G126.0	10.6	10.2	10.2	10.3	10.6	11.0	11.6	11.8	11.8	11.5
G127.0	10.8	10.4	10.3	10.5	10.7	11.2	11.9	11.9	11.9	11.7
G128.0	11.0	10.7	10.6	10.6	10.9	11.4	12.1	12.1	12.1	11.9
G129.0	11.2	10.9	10.8	10.8	11.1	11.5	12.2	12.3	12.2	12.0
G130.0	11.4	11.1	10.9	11.0	11.2	11.8	12.4	12.5	12.5	12.2
G131.0	11.6	11.3	11.1	11.2	11.4	11.9	12.7	12.7	12.6	12.5
G132.0	11.8	11.4	11.3	11.3	11.7	12.1	12.8	12.9	12.7	12.5
G133.0	12.0	11.7	11.4	11.6	11.8	12.3	12.9	13.0	12.9	12.8
G134.0	12.2	11.8	11.6	11.8	12.0	12.4	13.1	13.2	13.0	12.9
G135.0	12.3	11.9	11.8	11.9	12.1	12.6	13.3	13.2	13.4	13.1
G136.0	12.5	12.1	11.9	12.1	12.3	12.8	13.3	13.5	13.4	13.2
G137.0	12.7	12.3	12.1	12.2	12.4	13.2	13.4	13.8	13.5	13.4
G138.0	12.8	12.3	12.3	12.4	12.6	13.3	13.7	13.9	13.7	13.5
G139.0	12.8	12.6	12.5	12.6	12.8	13.3	13.9	14.0	13.8	13.6
G140.0	13.0	12.7	12.6	12.7	13.0	13.4	14.0	14.1	14.0	13.8
G141.0	13.3	12.9	12.8	12.9	13.1	13.3	14.1	14.3	14.1	13.9
G142.0	13.3	13.1	12.9	13.1	13.3	13.7	14.2	14.3	14.3	14.1
G143.0	13.3	13.2	13.2	13.3	13.3	13.8	14.4	14.5	14.5	14.2
G144.0	13.5	13.2	13.4	13.4	13.6	13.9	14.5	14.7	14.6	14.4
G145.0	13.8	13.5	13.3	13.4	13.7	14.1	14.6	14.8	14.7	14.5
G146.0	13.9	13.6	13.4	13.6	13.8	14.2	14.8	14.9	14.8	14.6
G147.0	14.0	13.7	13.7	13.8	14.0	14.3	15.0	15.0	14.9	14.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	14.2	13.8	13.8	14.0	14.1	14.4	15.0	15.1	15.1	14.9
G149.0	14.3	14.0	13.9	14.1	14.3	14.6	15.2	15.2	15.2	15.0
G150.0	14.4	14.1	14.0	14.2	14.3	14.7	15.3	15.2	15.4	15.1
G151.0	14.7	14.2	14.2	14.4	14.6	14.8	15.4	15.4	15.4	15.3
G152.0	14.8	14.4	14.3	14.6	14.6	14.9	15.5	15.5	15.5	15.5
G153.0	14.9	14.5	14.5	14.6	14.7	15.1	15.6	15.6	15.6	15.6
G154.0	15.0	14.7	14.6	14.8	14.9	15.2	15.8	15.7	15.7	15.7
G155.0	15.1	14.7	14.7	14.9	14.9	15.2	15.8	15.7	15.8	15.7
G156.0	15.2	14.8	14.8	15.0	15.2	15.4	15.9	15.8	15.9	15.8
G157.0	15.4	15.0	15.0	15.1	15.2	15.5	15.9	15.9	16.0	15.9
G158.0	15.4	15.0	15.1	15.3	15.4	15.6	16.0	16.0	16.1	16.1
G159.0	15.5	15.1	15.2	15.4	15.5	15.8	16.1	16.1	16.2	16.2
G160.0	15.7	15.3	15.3	15.5	15.6	15.8	16.1	16.2	16.2	16.2
G161.0	15.7	15.4	15.4	15.6	15.7	15.9	16.2	16.3	16.3	16.2
G162.0	15.9	15.5	15.5	15.7	15.8	16.1	16.3	16.3	16.4	16.4
G163.0	15.9	15.6	15.6	15.8	15.9	16.1	16.4	16.4	16.5	16.5
G164.0	15.9	15.7	15.8	15.9	16.0	16.2	16.4	16.5	16.5	16.5
G165.0	16.0	15.8	15.8	16.0	16.0	16.3	16.5	16.6	16.6	16.5
G166.0	16.1	15.9	15.9	16.1	16.1	16.4	16.5	16.6	16.6	16.6
G167.0	16.2	16.0	16.0	16.2	16.2	16.5	16.5	16.7	16.7	16.7
G168.0	16.2	16.0	16.1	16.2	16.3	16.6	16.7	16.7	16.8	16.7
G169.0	16.4	16.1	16.1	16.4	16.4	16.6	16.7	16.8	16.7	16.8
G170.0	16.4	16.2	16.2	16.5	16.5	16.7	16.8	16.8	16.7	16.8
G171.0	16.5	16.3	16.3	16.6	16.5	16.8	16.8	16.8	16.9	16.9
G172.0	16.5	16.4	16.4	16.7	16.6	16.8	16.8	16.9	16.9	16.9
G173.0	16.7	16.5	16.5	16.6	16.7	16.9	16.8	16.8	16.9	16.9
G174.0	16.7	16.5	16.6	16.7	16.7	16.9	16.9	16.9	16.9	16.9
G175.0	16.7	16.6	16.6	16.7	16.7	17.0	16.9	16.9	16.9	17.0
G176.0	16.8	16.7	16.7	16.8	16.8	17.0	16.8	16.9	16.9	17.0
G177.0	16.8	16.8	16.7	16.9	16.8	17.0	16.9	16.9	16.9	17.0
G178.0	16.8	16.9	16.8	16.9	16.9	17.0	16.9	16.9	16.9	17.0
G179.0	16.9	16.9	16.9	16.9	16.9	17.1	16.9	16.9	16.9	17.0
G180.0	17.0	16.9	16.9	16.9	16.9	17.0	16.9	16.9	16.9	17.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1532.6	1532.6	1532.6							
G1.0	1531.7	1532.5	1533.3							
G2.0	1530.2	1531.7	1533.1							
G3.0	1528.4	1529.9	1532.4							
G4.0	1525.7	1528.2	1531.1							
G5.0	1522.5	1525.9	1529.4							
G6.0	1518.5	1522.4	1526.7							
G7.0	1513.8	1519.0	1523.5							
G8.0	1508.7	1514.7	1520.0							
G9.0	1503.0	1509.6	1515.9							
G10.0	1497.3	1504.6	1511.2							
G11.0	1490.2	1498.5	1505.5							
G12.0	1483.2	1492.0	1499.8							
G13.0	1475.4	1485.3	1493.9							
G14.0	1466.9	1477.6	1486.7							
G15.0	1457.3	1469.2	1480.2							
G16.0	1447.7	1460.6	1471.4							
G17.0	1437.7	1451.4	1463.7							
G18.0	1427.6	1442.3	1455.0							
G19.0	1416.0	1432.0	1445.2							
G20.0	1404.3	1421.4	1436.6							
G21.0	1393.1	1411.0	1426.4							
G22.0	1379.9	1398.6	1415.2							
G23.0	1367.7	1387.3	1404.7							
G24.0	1353.0	1374.5	1392.5							
G25.0	1339.8	1362.1	1381.0							
G26.0	1325.7	1349.1	1368.6							
G27.0	1310.2	1334.6	1355.2							
G28.0	1295.0	1320.9	1342.0							
G29.0	1280.4	1307.3	1329.2							
G30.0	1263.4	1291.7	1314.1							
G31.0	1247.1	1276.7	1300.2							
G32.0	1229.8	1260.4	1285.0							
G33.0	1212.9	1244.5	1269.8							
G34.0	1196.0	1227.9	1254.9							
G35.0	1176.5	1210.7	1237.7							
G36.0	1159.2	1194.6	1222.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1139.1	1175.7	1206.2							
G38.0	1121.2	1159.0	1188.4							
G39.0	1103.0	1141.1	1171.4							
G40.0	1082.0	1122.3	1153.2							
G41.0	1063.6	1103.6	1135.7							
G42.0	1043.6	1085.9	1118.6							
G43.0	1022.8	1066.1	1098.8							
G44.0	1003.2	1046.9	1081.5							
G45.0	980.9	1026.5	1063.0							
G46.0	961.0	1007.5	1043.1							
G47.0	940.0	987.9	1024.1							
G48.0	918.0	965.8	1003.9							
G49.0	896.4	946.6	984.4							
G50.0	875.8	927.3	965.7							
G51.0	852.1	904.9	944.0							
G52.0	830.9	884.9	924.8							
G53.0	807.0	862.2	904.9							
G54.0	785.5	841.8	882.6							
G55.0	763.6	820.6	863.2							
G56.0	739.1	798.5	840.7							
G57.0	717.1	777.1	821.2							
G58.0	694.2	756.6	800.1							
G59.0	670.2	732.9	777.4							
G60.0	646.9	712.3	756.6							
G61.0	622.5	689.4	734.4							
G62.0	600.1	667.3	713.2							
G63.0	576.4	646.4	693.1							
G64.0	550.9	622.5	669.9							
G65.0	528.3	601.5	649.6							
G66.0	505.7	579.5	628.7							
G67.0	480.0	556.6	606.7							
G68.0	457.5	535.8	586.0							
G69.0	432.9	512.3	564.5							
G70.0	409.6	491.9	544.0							
G71.0	387.2	470.8	523.7							
G72.0	362.1	449.2	502.5							
G73.0	339.1	428.7	482.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	317.4	409.1	463.1							
G75.0	292.9	387.2	441.4							
G76.0	272.0	368.0	422.3							
G77.0	248.8	346.4	400.6							
G78.0	229.0	327.6	381.8							
G79.0	209.1	308.1	360.3							
G80.0	189.2	286.5	333.7							
G81.0	170.4	264.9	304.0							
G82.0	151.8	237.4	269.1							
G83.0	134.7	206.3	226.0							
G84.0	118.8	171.4	179.2							
G85.0	99.4	123.6	116.0							
G86.0	79.5	71.9	58.9							
G87.0	54.1	32.3	26.7							
G88.0	22.7	9.8	8.7							
G89.0	8.2	6.6	5.7							
G90.0	5.4	5.7	5.2							
G91.0	5.5	5.6	4.9							
G92.0	5.6	5.6	4.8							
G93.0	5.9	5.9	5.0							
G94.0	6.0	6.1	5.1							
G95.0	6.2	6.2	5.3							
G96.0	6.4	6.4	5.5							
G97.0	6.5	6.5	5.6							
G98.0	6.8	6.7	5.8							
G99.0	6.9	6.9	6.0							
G100.0	7.1	7.1	6.1							
G101.0	7.3	7.2	6.3							
G102.0	7.4	7.5	6.5							
G103.0	7.7	7.7	6.6							
G104.0	7.8	7.7	6.9							
G105.0	7.9	7.8	7.0							
G106.0	8.1	8.0	7.2							
G107.0	8.3	8.2	7.4							
G108.0	8.4	8.4	7.5							
G109.0	8.7	8.6	7.7							
G110.0	8.9	8.7	7.8							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	9.1	9.0	8.1							
G112.0	9.3	9.1	8.2							
G113.0	9.4	9.2	8.3							
G114.0	9.7	9.5	8.6							
G115.0	9.8	9.5	8.7							
G116.0	9.9	9.8	8.9							
G117.0	10.0	9.9	9.0							
G118.0	10.1	10.0	9.1							
G119.0	10.3	10.2	9.3							
G120.0	10.5	10.4	9.6							
G121.0	10.6	10.6	9.7							
G122.0	10.8	10.8	10.0							
G123.0	10.9	11.0	10.0							
G124.0	11.1	11.1	10.2							
G125.0	11.3	11.3	10.4							
G126.0	11.4	11.6	10.6							
G127.0	11.6	11.7	10.8							
G128.0	11.8	11.9	11.0							
G129.0	12.0	12.1	11.2							
G130.0	12.1	12.4	11.4							
G131.0	12.3	12.5	11.6							
G132.0	12.4	12.6	11.8							
G133.0	12.7	12.7	12.0							
G134.0	12.8	12.9	12.2							
G135.0	13.0	13.0	12.3							
G136.0	13.2	13.3	12.5							
G137.0	13.3	13.3	12.7							
G138.0	13.3	13.5	12.8							
G139.0	13.6	13.6	12.8							
G140.0	13.7	13.8	13.0							
G141.0	13.9	13.9	13.3							
G142.0	14.0	14.0	13.3							
G143.0	14.2	14.2	13.3							
G144.0	14.3	14.3	13.5							
G145.0	14.4	14.6	13.8							
G146.0	14.5	14.6	13.9							
G147.0	14.7	14.7	14.0							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	14.8	14.8	14.2							
G149.0	14.9	15.0	14.3							
G150.0	15.1	15.1	14.4							
G151.0	15.1	15.2	14.7							
G152.0	15.3	15.3	14.8							
G153.0	15.5	15.5	14.9							
G154.0	15.5	15.6	15.0							
G155.0	15.6	15.7	15.1							
G156.0	15.8	15.7	15.2							
G157.0	15.8	15.8	15.4							
G158.0	15.9	15.9	15.4							
G159.0	16.0	16.0	15.5							
G160.0	16.0	16.1	15.7							
G161.0	16.1	16.2	15.7							
G162.0	16.1	16.3	15.9							
G163.0	16.2	16.2	15.9							
G164.0	16.3	16.4	15.9							
G165.0	16.4	16.5	16.0							
G166.0	16.3	16.5	16.1							
G167.0	16.5	16.6	16.2							
G168.0	16.6	16.6	16.2							
G169.0	16.6	16.7	16.4							
G170.0	16.7	16.7	16.4							
G171.0	16.7	16.8	16.5							
G172.0	16.8	16.8	16.5							
G173.0	16.8	16.9	16.7							
G174.0	16.9	16.9	16.7							
G175.0	16.9	17.0	16.7							
G176.0	16.9	17.0	16.8							
G177.0	16.9	17.0	16.8							
G178.0	16.9	17.0	16.8							
G179.0	16.9	17.0	16.9							
G180.0	17.0	17.0	17.0							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	2060.48
L 0-180(75) av	2257.03
L 0-180(85) av	1083.78
L 90-270(65) av	1675.21
L 90-270(75) av	1391.58
L 90-270(85) av	818.28
L 45(65) av	1857.14
L 45(75) av	1815.08
L 45(85) av	1363.54

Standard: GB/T 29293-2012