

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: 0.313 A

Power Factor: 0.996

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 119.9 V

Power: 37.33 W

Photometric Results

CIE Class: Direct

Measurement Flux: 5091.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.5, 159.1, 165.7, 166.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 108.9, 112.6, 112.4

Luminaire Efficacy Rating (LER): 136.45

Max. Intensity: 1732.89 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 5091.8 lm

Efficiency: 100%

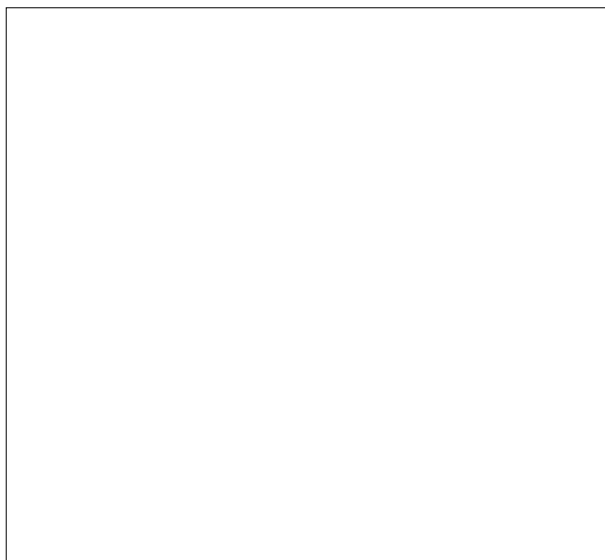
Upward Ratio: 1%

C0r0 Intensity: 1731.71 cd

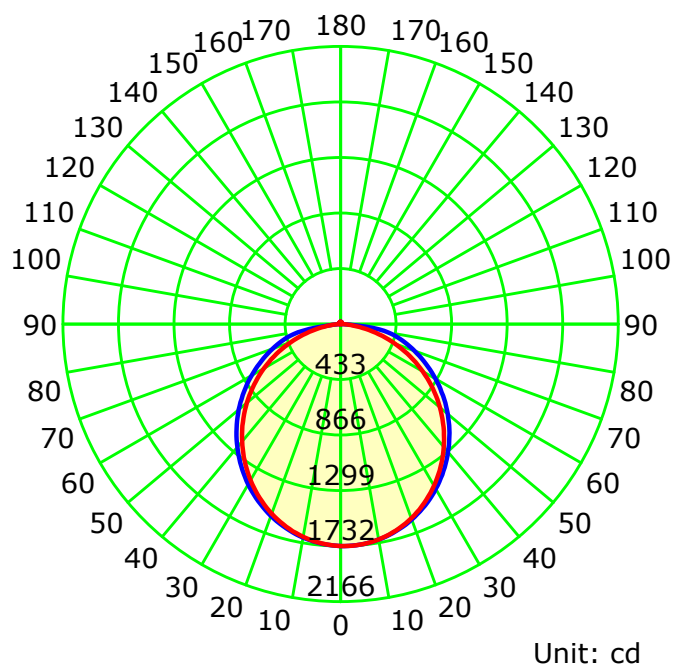
Pos of Max. Intensity: H30 V2

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

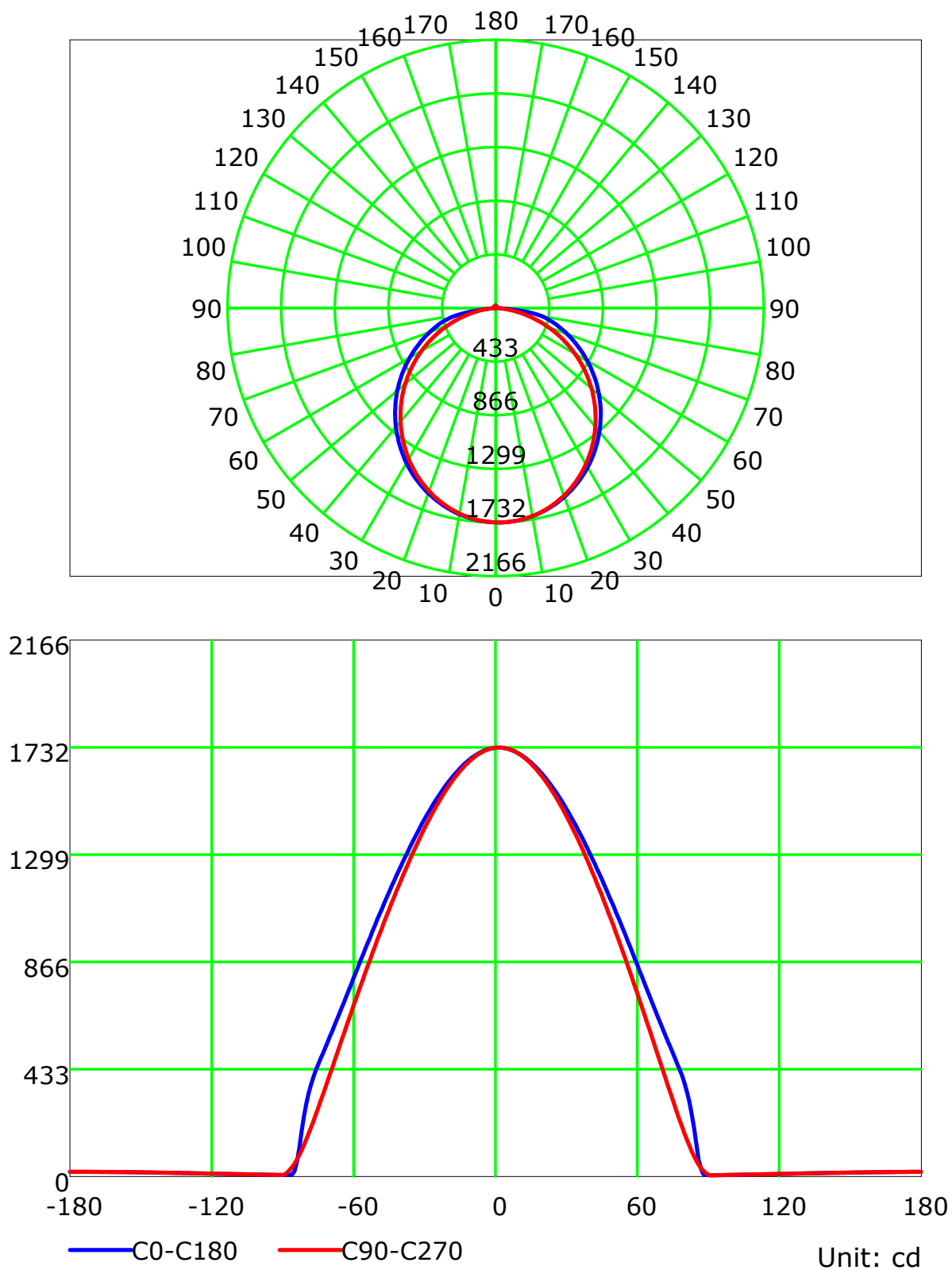
Test Device: GPM-1600L

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

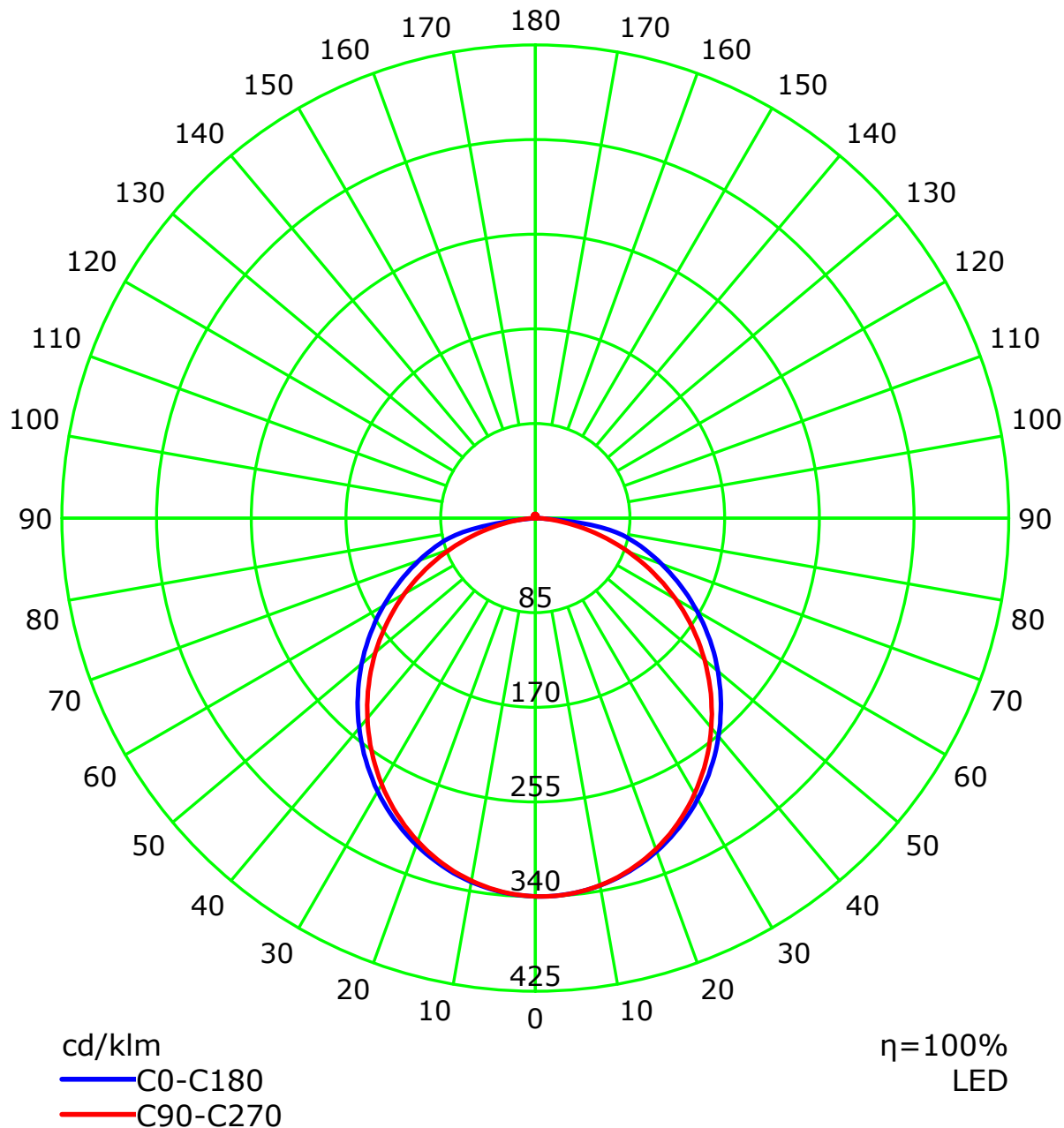
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



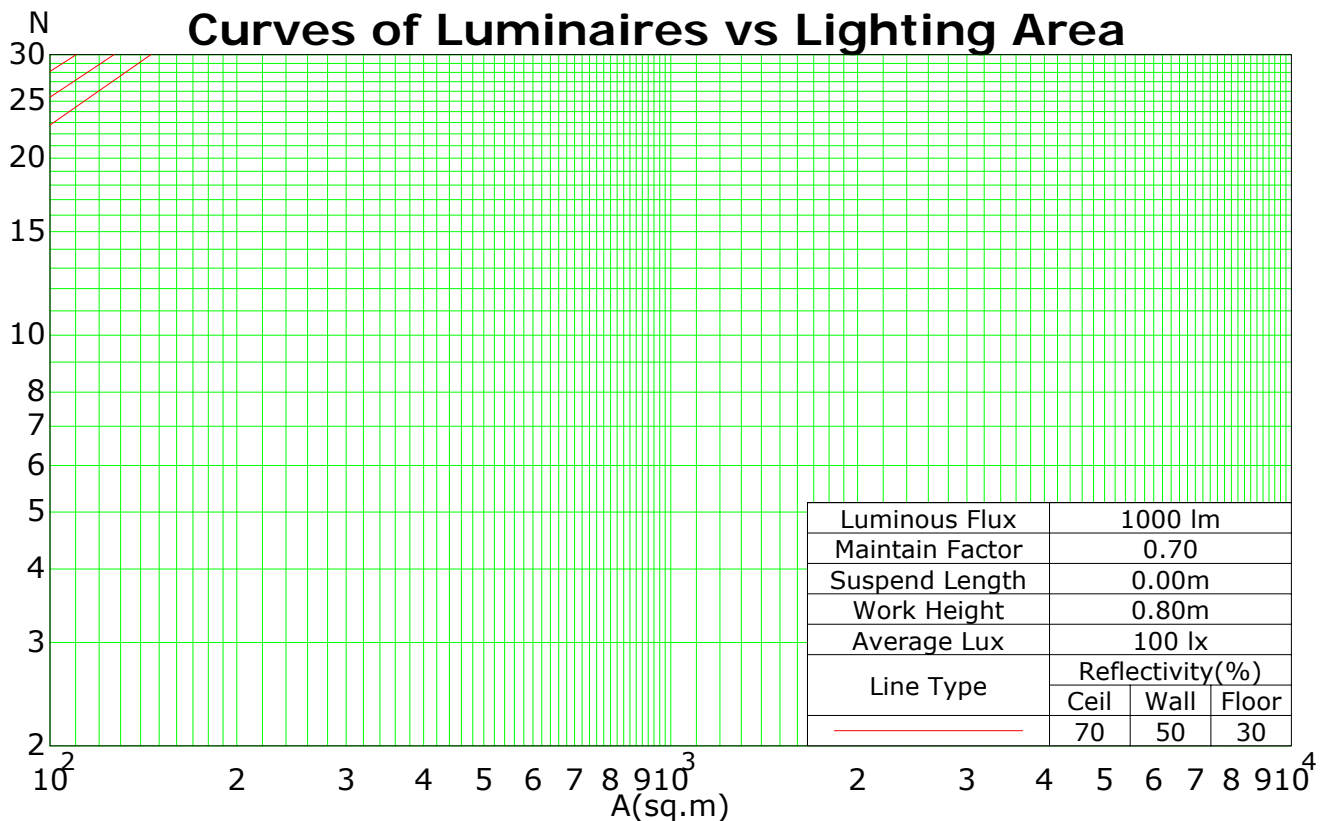
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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

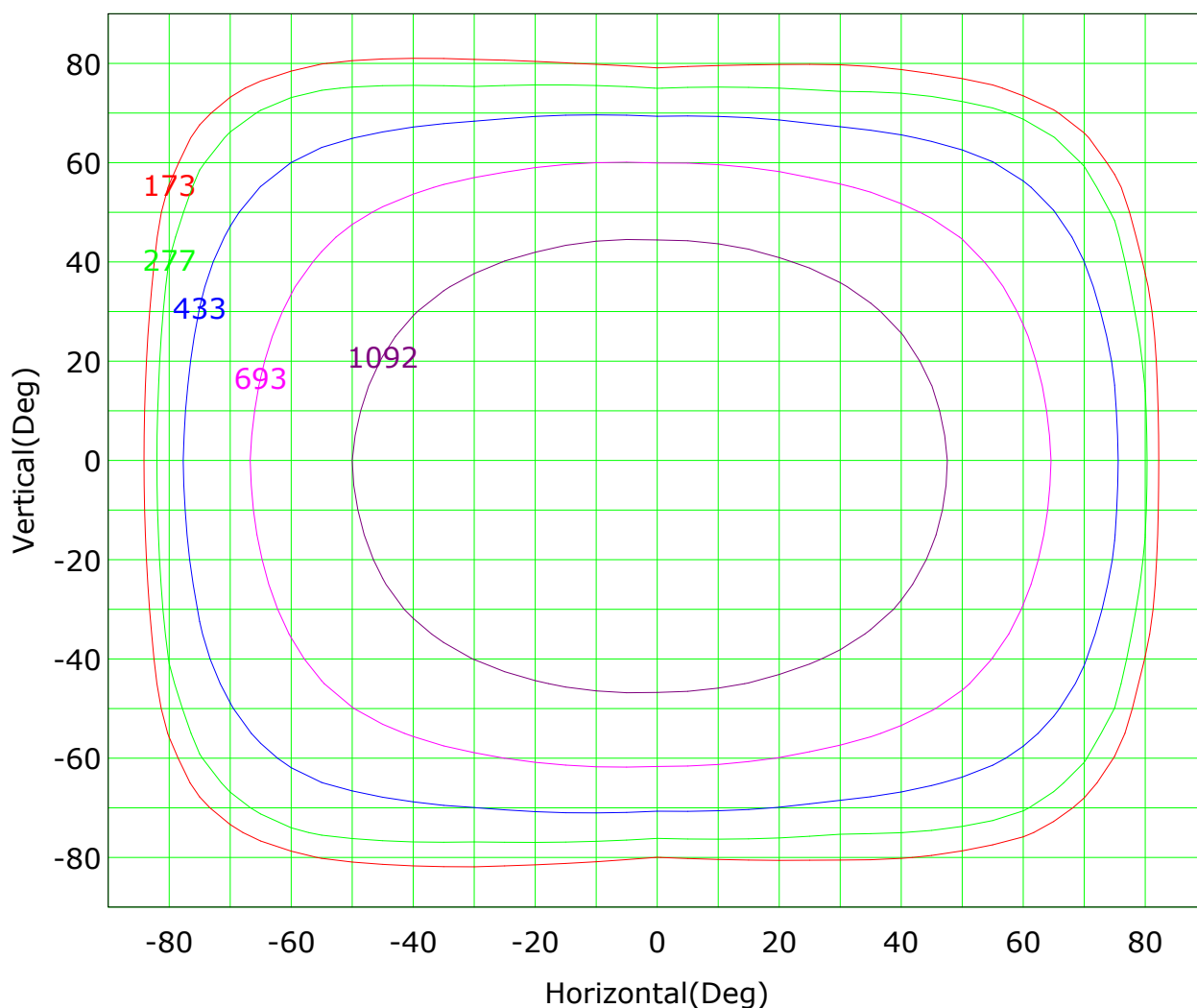
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (rectangle)



I_{max} (100%): 1733 cd

(10%): 173 cd	(16%): 277 cd
(25%): 433 cd	(40%): 693 cd
(63%): 1092 cd	(100%): 1733 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

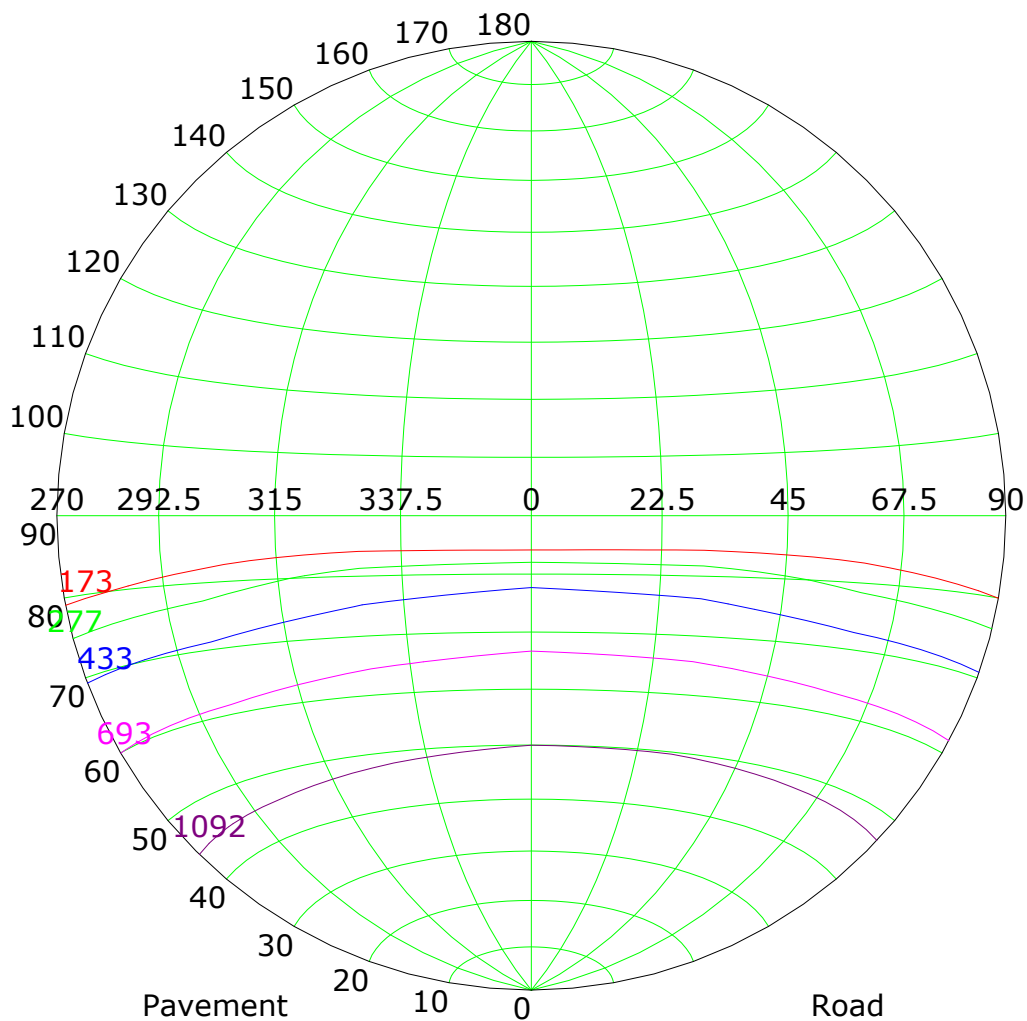
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 1733 cd

(10%): 173 cd	(16%): 277 cd
(25%): 433 cd	(40%): 693 cd
(63%): 1092 cd	(100%): 1733 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

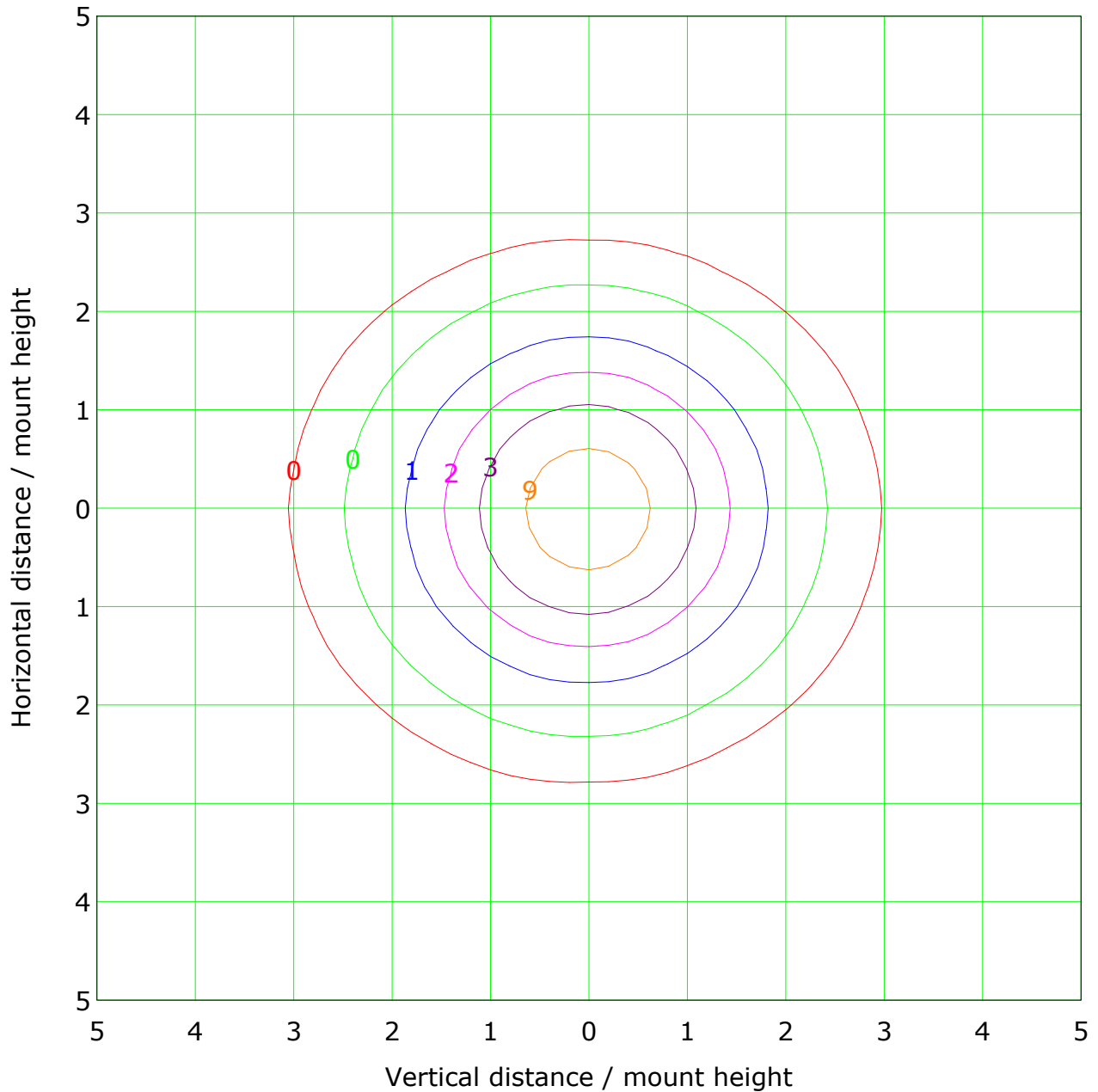
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 17.3 lx

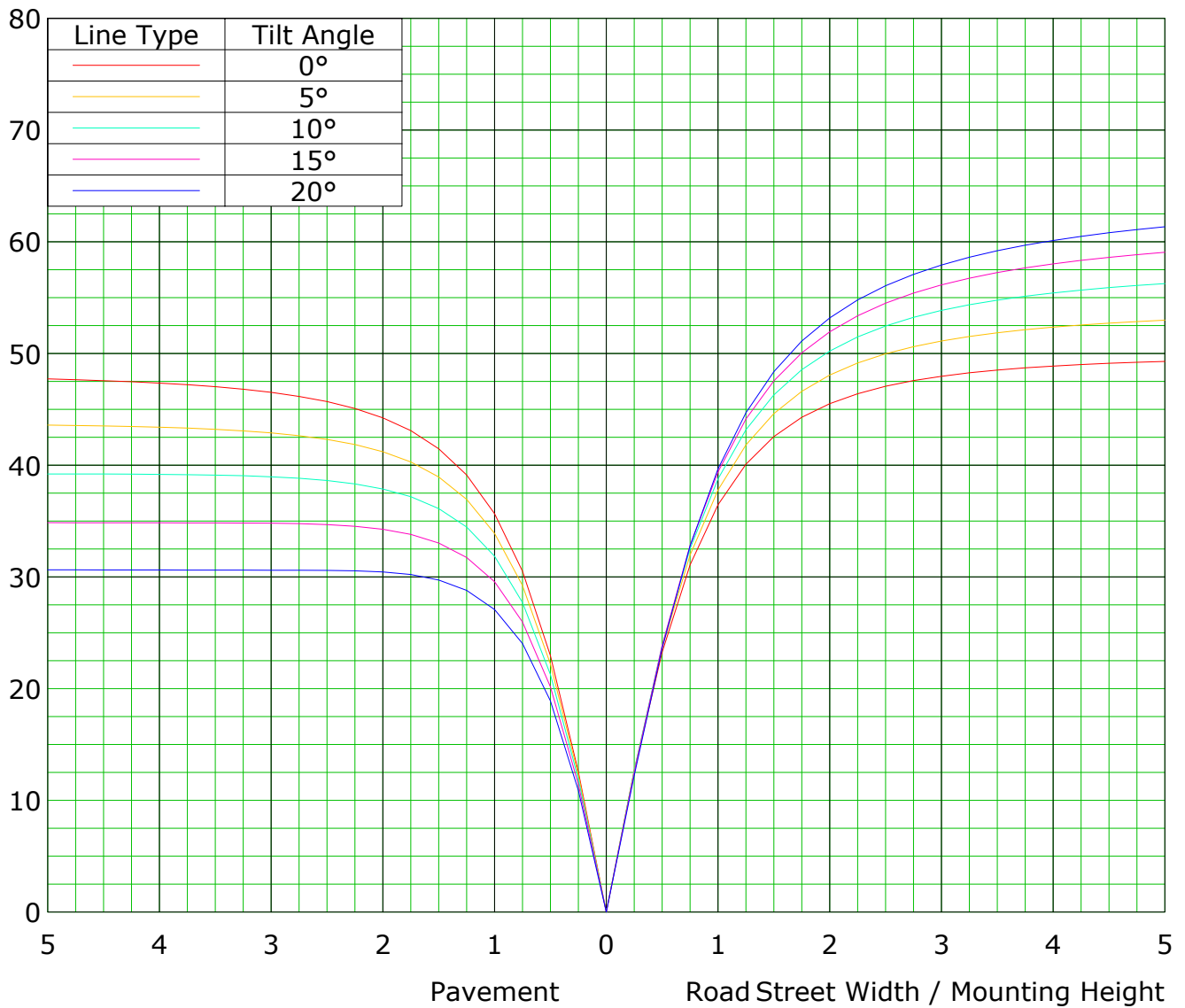
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.9 lx	(10%): 1.7 lx
(20%): 3.5 lx	(50%): 8.7 lx
(100%): 17.3 lx	

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

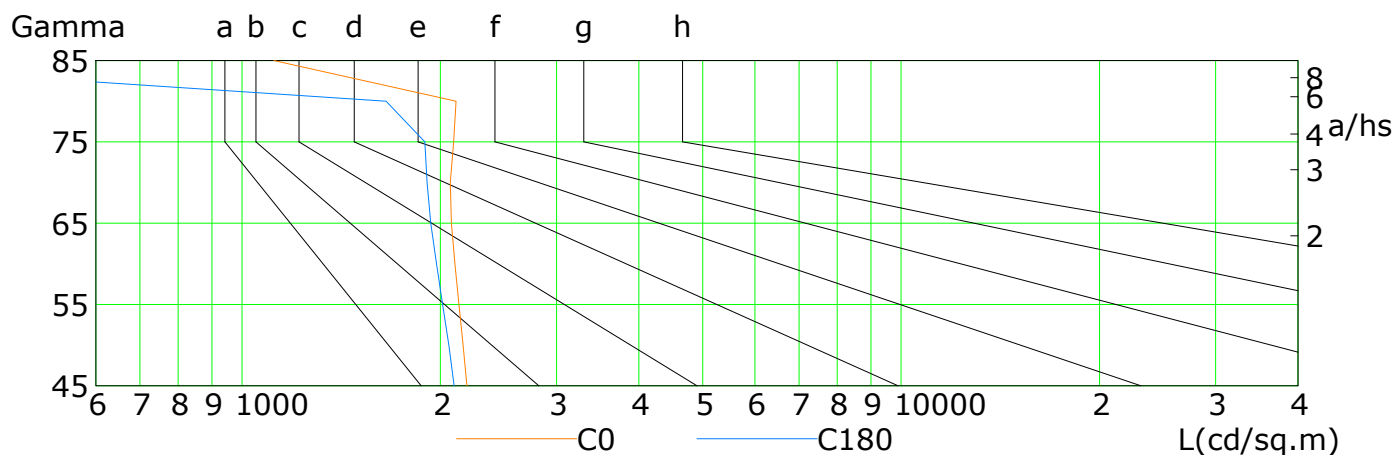
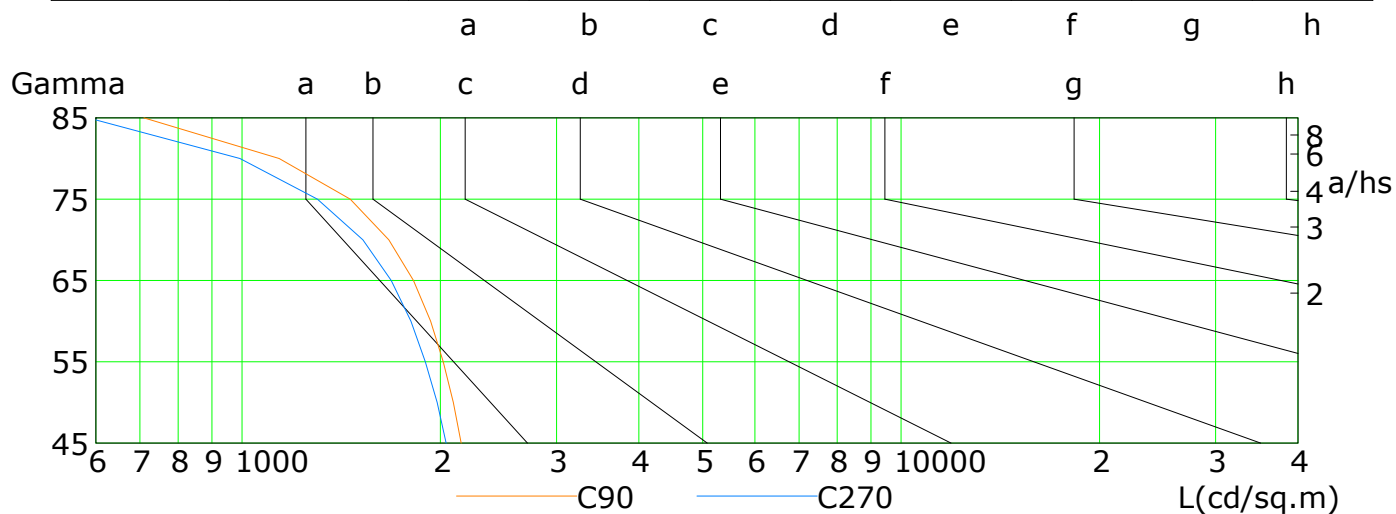
Distance: 9.011 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2194	2165	2134	2104	2078	2070	2094	2113	1118
C90	2151	2092	2020	1932	1820	1670	1459	1139	710
C180	2097	2060	2015	1972	1934	1909	1894	1654	194
C270	2041	1978	1897	1804	1685	1525	1302	993	584

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

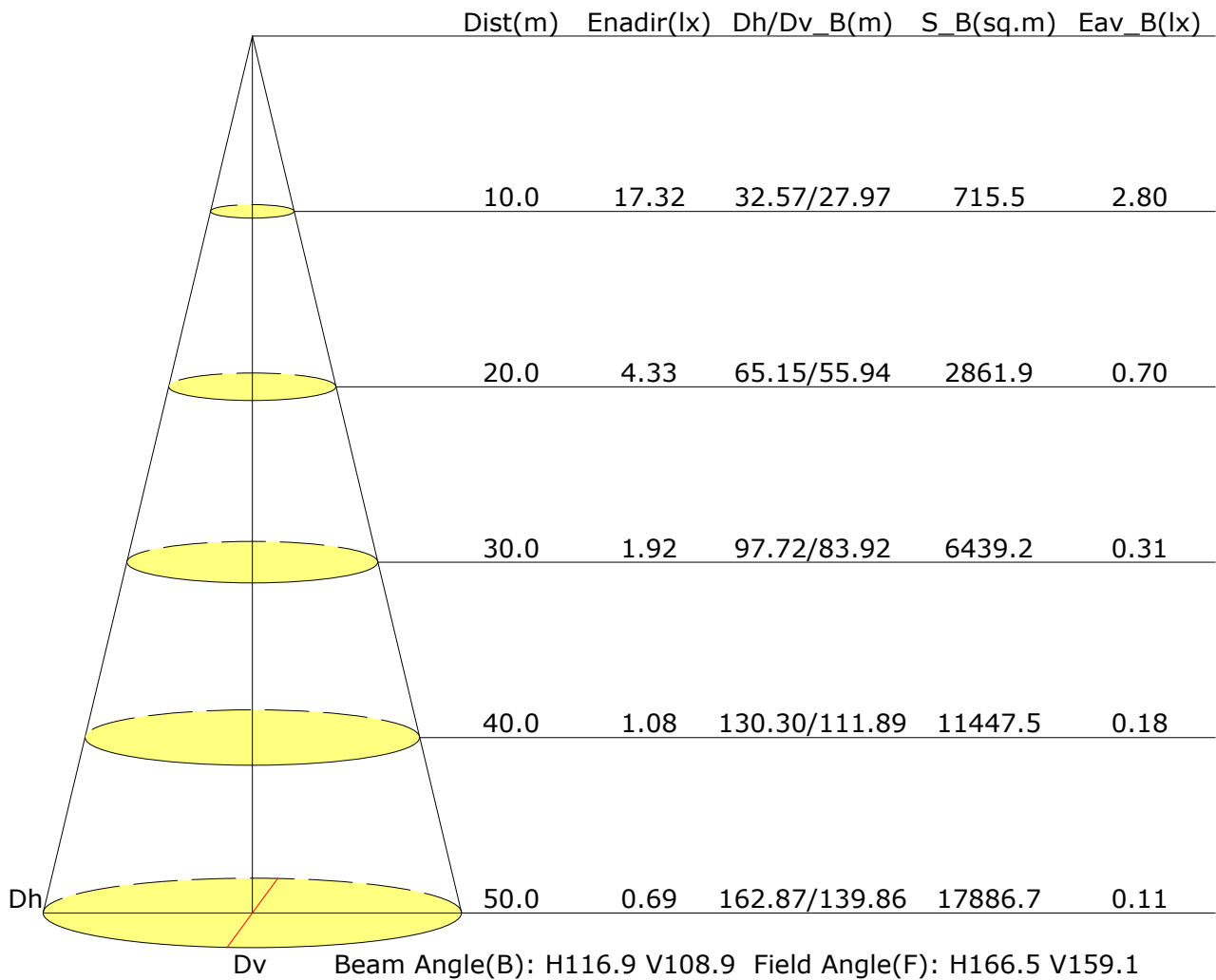
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

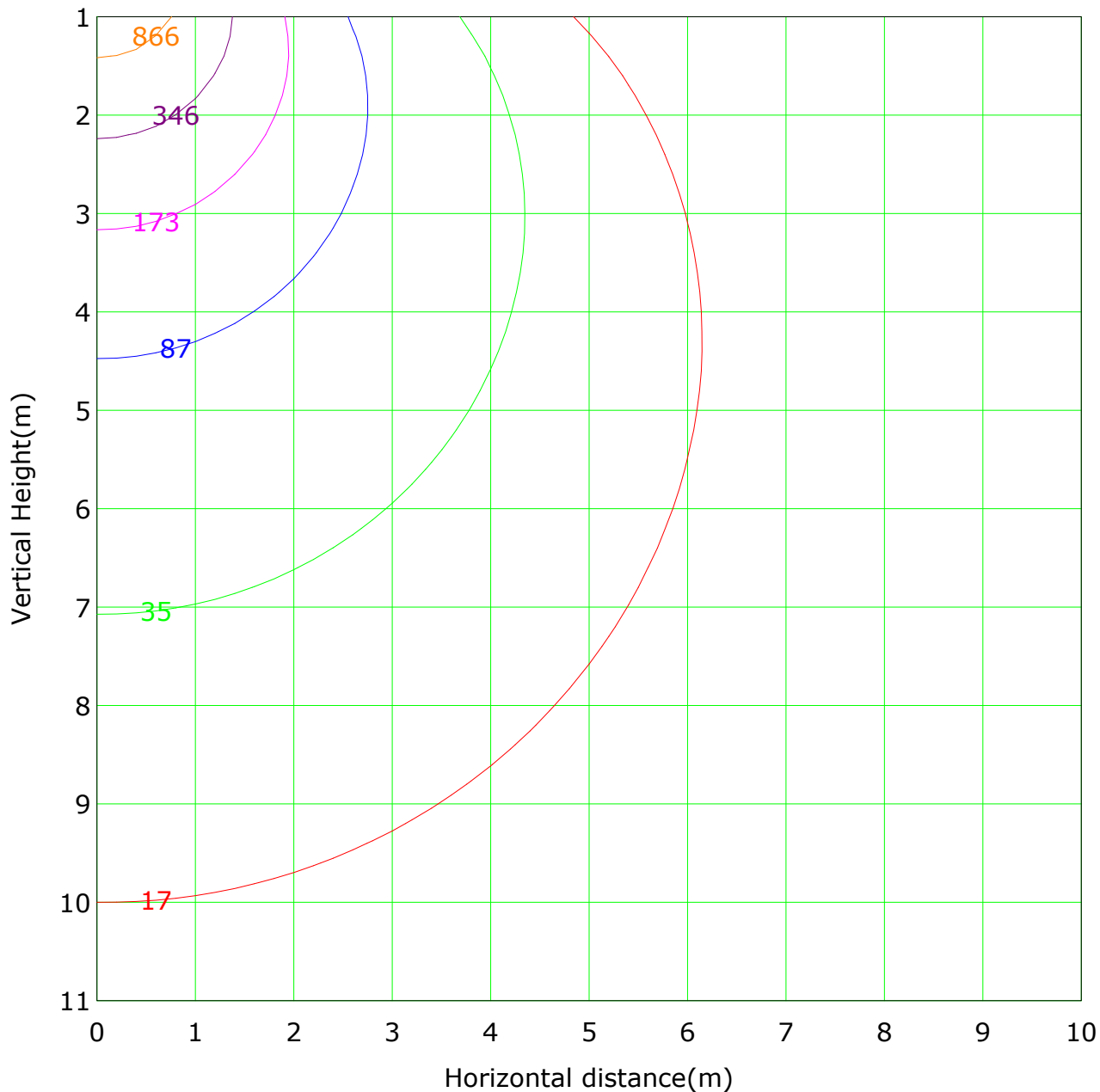
Illuminance at a Distance



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: 1731.7 lx

— (1%): 17.3 lx	— (2%): 34.6 lx
— (5%): 86.6 lx	— (10%): 173.2 lx
— (20%): 346.3 lx	— (50%): 865.9 lx
— (100%):1731.7 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

		Orbit, km																		
-90	0.0	0.1	0.1	0.3	0.7	1.3	1.7	1.9	1.9	2.1	2.4	2.5	2.3	1.7	1.0	0.4	0.1	0.0	20.4	1.2
-80	0.0	0.1	1.1	3.2	5.2	6.5	7.5	8.3	8.6	8.7	8.6	8.0	7.2	6.1	4.6	2.6	0.6	0.0	87.0	82.5
-70	0.0	0.7	3.5	6.4	9.1	11.6	13.9	15.8	16.8	16.9	16.2	14.5	12.3	9.8	7.1	4.4	1.7	0.1	160.8	159.8
-60	0.0	1.7	5.1	8.7	12.7	16.8	20.4	23.3	24.9	25.1	23.8	21.1	17.6	13.5	9.4	5.6	2.4	0.2	232.3	231.7
-50	0.1	2.4	6.2	10.8	16.2	21.7	26.5	30.4	32.5	32.7	30.9	27.3	22.5	17.0	11.5	6.7	2.9	0.3	298.7	298.3
-40	0.2	2.9	7.1	12.7	19.2	26.0	32.0	36.7	39.3	39.5	37.2	32.8	26.9	20.2	13.5	7.7	3.3	0.4	357.4	357.2
-30	0.3	3.2	7.9	14.2	21.7	29.5	36.5	41.9	45.0	45.2	42.5	37.3	30.4	22.7	15.1	8.5	3.6	0.5	406.0	405.8
-20	0.3	3.5	8.5	15.3	23.5	32.0	39.8	45.8	49.2	49.4	46.4	40.7	33.0	24.5	16.2	9.1	3.9	0.6	441.5	441.3
-10	0.3	3.6	8.8	16.0	24.5	33.4	41.6	48.0	51.5	51.8	48.6	42.5	34.5	25.6	16.9	9.4	4.0	0.6	461.6	461.4
0	0.3	3.6	8.8	16.1	24.6	33.6	41.8	48.3	51.9	52.1	48.9	42.8	34.7	25.7	17.0	9.5	4.0	0.6	464.2	464.0
10	0.3	3.5	8.5	15.5	23.8	32.5	40.5	46.6	50.0	50.3	47.2	41.4	33.6	24.9	16.4	9.2	3.9	0.6	448.8	448.6
20	0.3	3.3	8.0	14.5	22.2	30.3	37.5	43.1	46.3	46.5	43.8	38.4	31.3	23.3	15.4	8.6	3.7	0.5	416.9	416.7
30	0.2	2.9	7.2	13.0	19.9	26.9	33.2	38.1	40.9	41.1	38.7	34.1	27.9	20.9	13.9	7.9	3.4	0.4	370.5	370.3
40	0.1	2.5	6.3	11.1	16.8	22.6	27.8	31.9	34.1	34.3	32.5	28.7	23.6	17.8	12.0	6.9	3.0	0.3	312.5	312.2
50	0.1	1.8	5.2	9.0	13.3	17.6	21.6	24.7	26.5	26.6	25.3	22.4	18.6	14.2	9.9	5.8	2.5	0.2	245.4	244.9
60	0.0	1.0	3.8	6.7	9.5	12.3	14.8	17.0	18.1	18.2	17.5	15.7	13.2	10.4	7.5	4.6	1.7	0.1	172.3	171.3
70	0.0	0.2	1.7	4.0	5.7	7.0	8.1	9.1	9.5	9.7	9.6	8.9	7.9	6.6	4.9	2.7	0.7	0.0	96.3	93.5
80	0.0	0.0	0.1	0.5	1.2	2.0	2.4	2.5	2.4	2.4	2.7	2.8	2.5	1.9	1.1	0.4	0.1	0.0	25.0	4.6
90	2.7	36.9	97.9	178.1	269.9	363.4	447.9	513.3	549.1	552.4	522.8	462.0	379.9	286.8	193.4	109.9	45.5	5.6	5018	
Flux(T)	1.2	34.8	96.0	176.0	267.3	360.1	444.2	509.3	544.4	547.9	518.3	458.1	376.6	284.3	191.3	108.0	43.6	4.1		4965
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
</																				

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

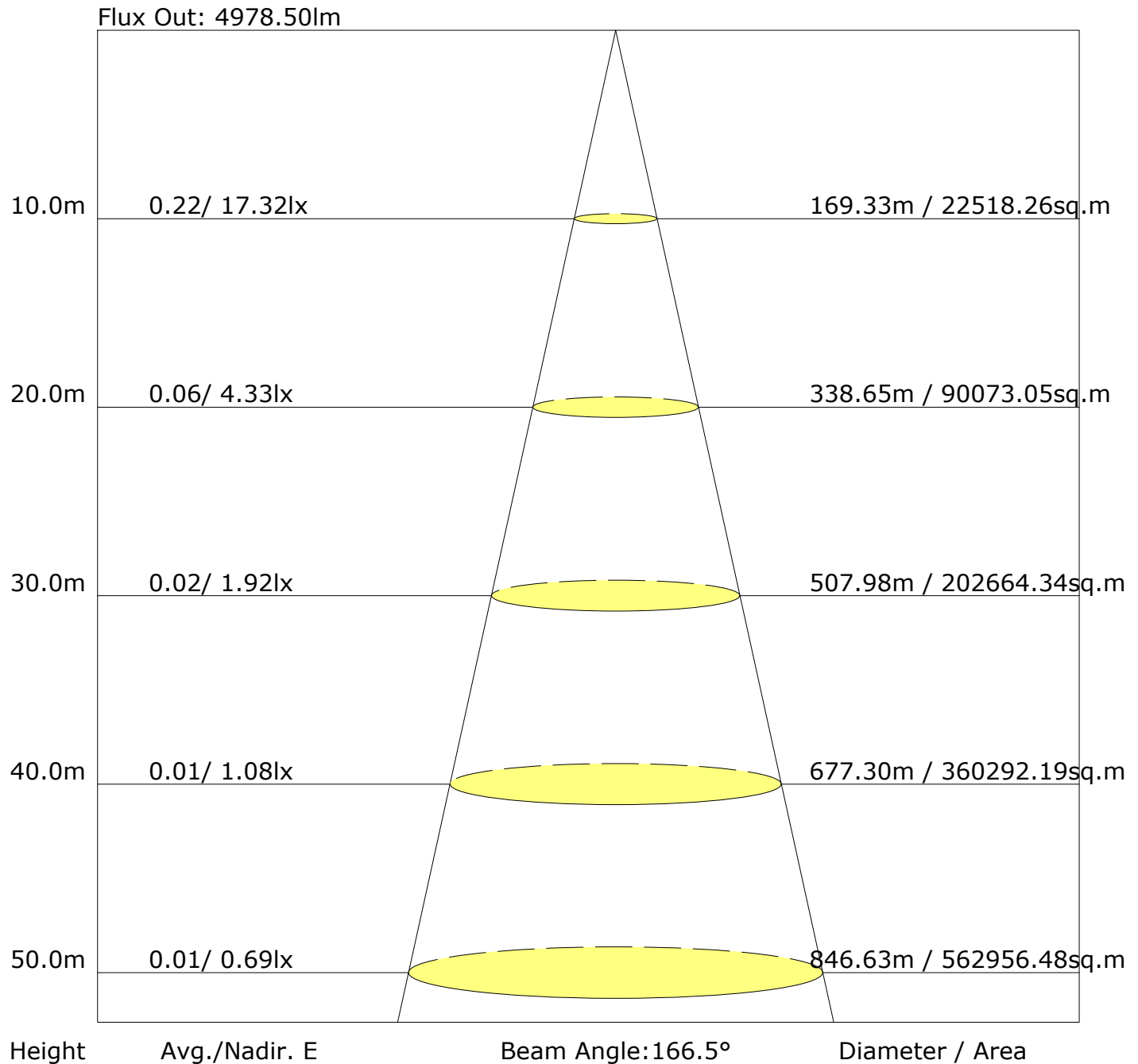
Test Device: GPM-1600L

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:

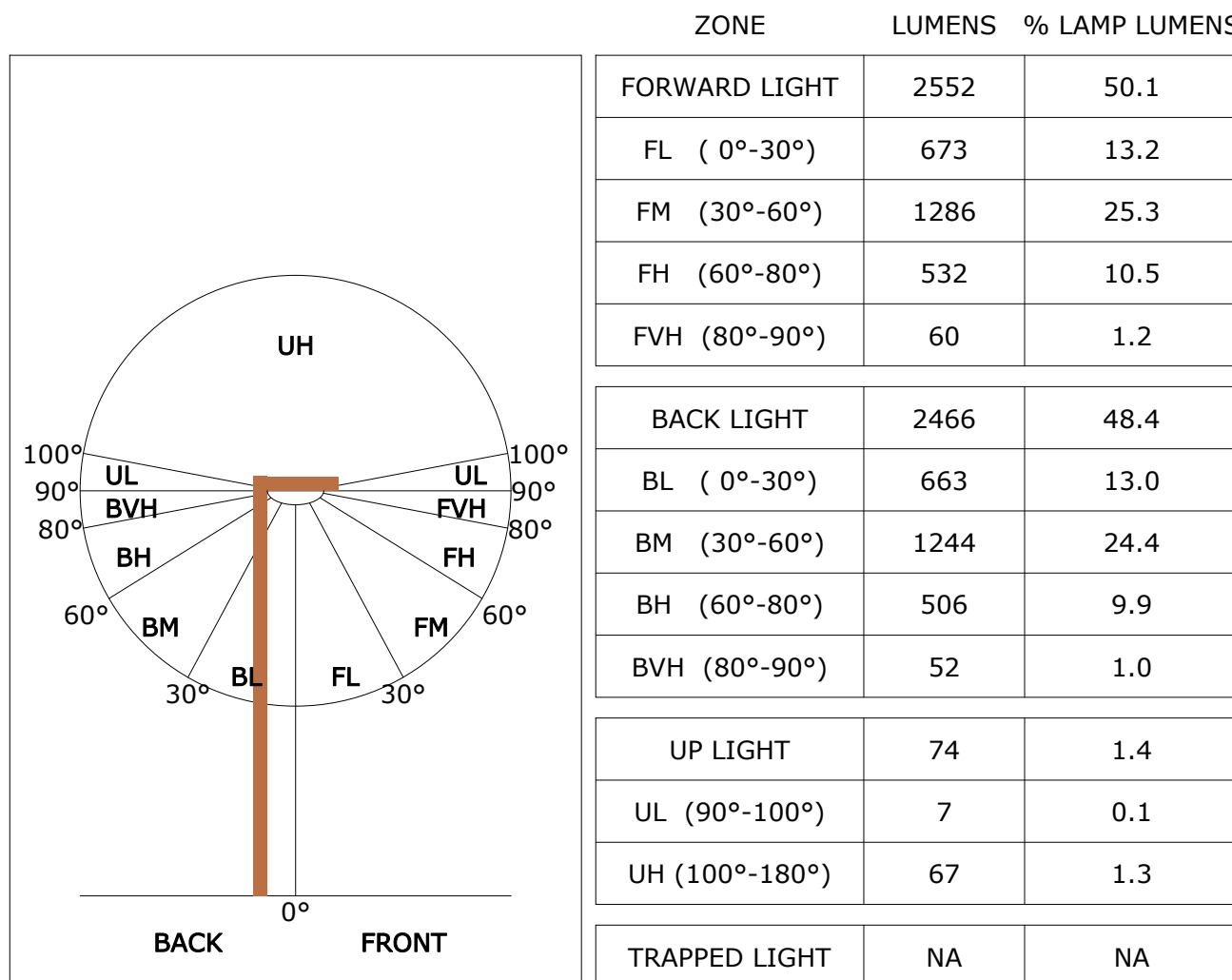
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	15.3	16.7	15.6	17.0	17.2	14.7	16.1	15.1	16.4	16.7
3H	17.1	18.4	17.5	18.7	19.0	16.2	17.5	16.5	17.7	18.1
4H	18.0	19.2	18.4	19.5	19.9	16.7	17.9	17.1	18.2	18.6
6H	18.8	19.9	19.2	20.3	20.6	17.1	18.2	17.5	18.5	18.9
8H	19.1	20.2	19.5	20.5	20.9	17.2	18.2	17.6	18.6	18.9
12H	19.3	20.3	19.7	20.7	21.0	17.2	18.2	17.6	18.6	19.0
X=4H Y=2H	15.9	17.1	16.3	17.4	17.8	15.5	16.7	15.8	17.0	17.3
3H	18.0	19.0	18.4	19.4	19.7	17.1	18.2	17.5	18.5	18.9
4H	19.0	19.9	19.4	20.3	20.7	17.8	18.7	18.2	19.1	19.5
6H	20.0	20.8	20.4	21.2	21.6	18.3	19.1	18.7	19.5	19.9
8H	20.3	21.1	20.8	21.5	22.0	18.4	19.2	18.9	19.6	20.0
12H	20.5	21.2	21.0	21.7	22.1	18.5	19.2	18.9	19.6	20.1
X=8H Y=4H	19.3	20.0	19.7	20.5	20.9	18.2	19.0	18.7	19.4	19.9
6H	20.4	21.0	20.9	21.5	22.0	18.9	19.5	19.3	19.9	20.4
8H	20.9	21.5	21.4	21.9	22.5	19.1	19.6	19.6	20.1	20.6
12H	21.2	21.7	21.7	22.2	22.7	19.2	19.7	19.7	20.2	20.7
X=12H Y=4H	19.3	20.0	19.8	20.4	20.9	18.3	19.0	18.8	19.4	19.9
6H	20.5	21.0	21.0	21.5	22.0	19.0	19.5	19.5	20.0	20.5
8H	21.0	21.5	21.6	22.0	22.5	19.3	19.7	19.8	20.2	20.8
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 5092lm ($8\log(F/F_0) = 5.7$).

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 G2
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

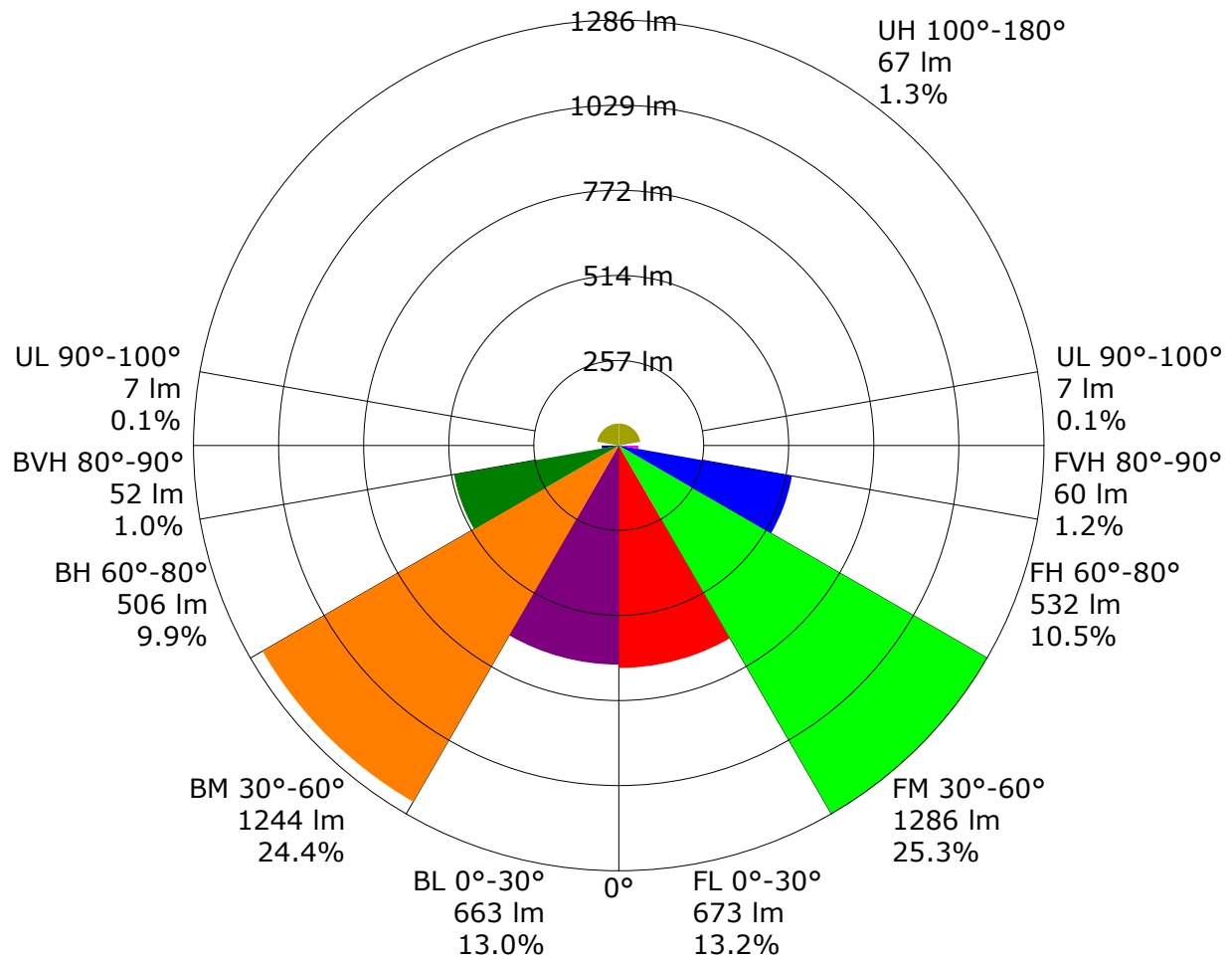
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LCS Graph



Back Light

Forward Light

Scale= 1286 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	
Rating:37W 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(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	
<p>Rating:37W 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>												

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	0.16	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:37W 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	1731.5	1.7	1.7	0.03	0.03
1.0-2.0	1730.8	5.0	6.6	0.10	0.13
2.0-3.0	1729.4	8.3	14.9	0.16	0.29
3.0-4.0	1727.4	11.6	26.5	0.23	0.52
4.0-5.0	1724.8	14.8	41.3	0.29	0.81
5.0-6.0	1721.4	18.1	59.4	0.36	1.17
6.0-7.0	1717.3	21.3	80.7	0.42	1.59
7.0-8.0	1712.6	24.5	105.2	0.48	2.07
8.0-9.0	1707.2	27.7	132.9	0.54	2.61
9.0-10.0	1701.3	30.8	163.7	0.60	3.21
10.0-11.0	1694.7	33.9	197.6	0.67	3.88
11.0-12.0	1687.3	36.9	234.4	0.72	4.60
12.0-13.0	1679.6	39.9	274.3	0.78	5.39
13.0-14.0	1671.1	42.8	317.1	0.84	6.23
14.0-15.0	1661.8	45.6	362.7	0.90	7.12
15.0-16.0	1651.9	48.4	411.1	0.95	8.07
16.0-17.0	1641.5	51.1	462.3	1.00	9.08
17.0-18.0	1630.9	53.8	516.0	1.06	10.13
18.0-19.0	1619.3	56.3	572.4	1.11	11.24
19.0-20.0	1607.1	58.8	631.2	1.16	12.40
20.0-21.0	1594.9	61.2	692.5	1.20	13.60
21.0-22.0	1581.4	63.6	756.0	1.25	14.85
22.0-23.0	1567.5	65.8	821.8	1.29	16.14
23.0-24.0	1553.1	67.9	889.7	1.33	17.47
24.0-25.0	1538.2	69.9	959.7	1.37	18.85
25.0-26.0	1523.4	71.9	1031.6	1.41	20.26
26.0-27.0	1507.4	73.8	1105.3	1.45	21.71
27.0-28.0	1491.0	75.5	1180.8	1.48	23.19
28.0-29.0	1474.8	77.2	1258.0	1.52	24.71
29.0-30.0	1457.4	78.7	1336.7	1.55	26.25
30.0-31.0	1439.6	80.1	1416.8	1.57	27.83
31.0-32.0	1421.4	81.4	1498.3	1.60	29.43
32.0-33.0	1402.5	82.6	1580.9	1.62	31.05
33.0-34.0	1384.0	83.8	1664.7	1.65	32.69
34.0-35.0	1364.5	84.8	1749.4	1.66	34.36
35.0-36.0	1344.6	85.6	1835.1	1.68	36.04

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	1324.6	86.4	1921.5	1.70	37.74
37.0-38.0	1303.9	87.0	2008.5	1.71	39.45
38.0-39.0	1283.3	87.6	2096.1	1.72	41.17
39.0-40.0	1261.9	88.0	2184.1	1.73	42.89
40.0-41.0	1240.2	88.3	2272.5	1.73	44.63
41.0-42.0	1219.1	88.6	2361.0	1.74	46.37
42.0-43.0	1196.9	88.7	2449.7	1.74	48.11
43.0-44.0	1174.3	88.6	2538.4	1.74	49.85
44.0-45.0	1151.9	88.5	2626.9	1.74	51.59
45.0-46.0	1128.6	88.3	2715.2	1.73	53.32
46.0-47.0	1105.6	87.9	2803.1	1.73	55.05
47.0-48.0	1081.8	87.5	2890.6	1.72	56.77
48.0-49.0	1057.9	86.9	2977.5	1.71	58.48
49.0-50.0	1034.8	86.3	3063.8	1.69	60.17
50.0-51.0	1010.2	85.5	3149.2	1.68	61.85
51.0-52.0	985.5	84.6	3233.8	1.66	63.51
52.0-53.0	961.2	83.6	3317.4	1.64	65.15
53.0-54.0	936.2	82.5	3400.0	1.62	66.77
54.0-55.0	911.4	81.4	3481.3	1.60	68.37
55.0-56.0	885.9	80.1	3561.4	1.57	69.94
56.0-57.0	860.3	78.7	3640.1	1.55	71.49
57.0-58.0	835.4	77.3	3717.3	1.52	73.01
58.0-59.0	809.3	75.7	3793.0	1.49	74.49
59.0-60.0	783.2	74.0	3867.0	1.45	75.95
60.0-61.0	757.0	72.3	3939.3	1.42	77.36
61.0-62.0	730.7	70.4	4009.7	1.38	78.75
62.0-63.0	705.3	68.6	4078.3	1.35	80.10
63.0-64.0	678.9	66.6	4144.9	1.31	81.40
64.0-65.0	652.5	64.6	4209.5	1.27	82.67
65.0-66.0	627.0	62.6	4272.1	1.23	83.90
66.0-67.0	600.7	60.4	4332.5	1.19	85.09
67.0-68.0	574.5	58.2	4390.7	1.14	86.23
68.0-69.0	548.3	55.9	4446.6	1.10	87.33
69.0-70.0	522.1	53.6	4500.2	1.05	88.38
70.0-71.0	497.1	51.4	4551.6	1.01	89.39
71.0-72.0	471.4	49.0	4600.7	0.96	90.35

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	445.7	46.6	4647.3	0.92	91.27
73.0-74.0	421.2	44.3	4691.6	0.87	92.14
74.0-75.0	396.1	41.9	4733.4	0.82	92.96
75.0-76.0	371.1	39.4	4772.8	0.77	93.73
76.0-77.0	346.1	36.9	4809.7	0.72	94.46
77.0-78.0	321.3	34.4	4844.1	0.68	95.14
78.0-79.0	297.1	31.9	4876.0	0.63	95.76
79.0-80.0	270.7	29.2	4905.2	0.57	96.34
80.0-81.0	242.7	26.2	4931.5	0.52	96.85
81.0-82.0	212.4	23.0	4954.5	0.45	97.30
82.0-83.0	178.5	19.4	4973.9	0.38	97.68
83.0-84.0	142.6	15.5	4989.5	0.31	97.99
84.0-85.0	105.7	11.5	5001.0	0.23	98.22
85.0-86.0	70.9	7.7	5008.7	0.15	98.37
86.0-87.0	43.4	4.8	5013.5	0.09	98.46
87.0-88.0	23.2	2.5	5016.0	0.05	98.51
88.0-89.0	11.3	1.2	5017.3	0.02	98.54
89.0-90.0	7.3	0.8	5018.1	0.02	98.55
90.0-91.0	6.2	0.7	5018.8	0.01	98.57
91.0-92.0	5.9	0.6	5019.4	0.01	98.58
92.0-93.0	6.1	0.7	5020.1	0.01	98.59
93.0-94.0	6.3	0.7	5020.8	0.01	98.60
94.0-95.0	6.5	0.7	5021.5	0.01	98.62
95.0-96.0	6.7	0.7	5022.2	0.01	98.63
96.0-97.0	6.8	0.7	5022.9	0.01	98.65
97.0-98.0	7.0	0.8	5023.7	0.02	98.66
98.0-99.0	7.3	0.8	5024.5	0.02	98.68
99.0-100.0	7.5	0.8	5025.3	0.02	98.69
100.0-101.0	7.7	0.8	5026.1	0.02	98.71
101.0-102.0	7.8	0.8	5027.0	0.02	98.73
102.0-103.0	8.0	0.9	5027.8	0.02	98.74
103.0-104.0	8.2	0.9	5028.7	0.02	98.76
104.0-105.0	8.4	0.9	5029.6	0.02	98.78
105.0-106.0	8.6	0.9	5030.5	0.02	98.80
106.0-107.0	8.8	0.9	5031.4	0.02	98.81
107.0-108.0	9.0	0.9	5032.4	0.02	98.83

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	9.2	1.0	5033.3	0.02	98.85
109.0-110.0	9.4	1.0	5034.3	0.02	98.87
110.0-111.0	9.6	1.0	5035.3	0.02	98.89
111.0-112.0	9.7	1.0	5036.3	0.02	98.91
112.0-113.0	9.9	1.0	5037.3	0.02	98.93
113.0-114.0	10.2	1.0	5038.3	0.02	98.95
114.0-115.0	10.3	1.0	5039.3	0.02	98.97
115.0-116.0	10.5	1.0	5040.4	0.02	98.99
116.0-117.0	10.7	1.0	5041.4	0.02	99.01
117.0-118.0	10.9	1.1	5042.5	0.02	99.03
118.0-119.0	11.1	1.1	5043.5	0.02	99.05
119.0-120.0	11.2	1.1	5044.6	0.02	99.07
120.0-121.0	11.4	1.1	5045.7	0.02	99.09
121.0-122.0	11.6	1.1	5046.8	0.02	99.12
122.0-123.0	11.9	1.1	5047.9	0.02	99.14
123.0-124.0	12.1	1.1	5049.0	0.02	99.16
124.0-125.0	12.2	1.1	5050.1	0.02	99.18
125.0-126.0	12.4	1.1	5051.2	0.02	99.20
126.0-127.0	12.7	1.1	5052.3	0.02	99.22
127.0-128.0	12.9	1.1	5053.4	0.02	99.25
128.0-129.0	13.0	1.1	5054.5	0.02	99.27
129.0-130.0	13.2	1.1	5055.7	0.02	99.29
130.0-131.0	13.4	1.1	5056.8	0.02	99.31
131.0-132.0	13.6	1.1	5057.9	0.02	99.33
132.0-133.0	13.8	1.1	5059.0	0.02	99.36
133.0-134.0	14.0	1.1	5060.1	0.02	99.38
134.0-135.0	14.2	1.1	5061.2	0.02	99.40
135.0-136.0	14.4	1.1	5062.4	0.02	99.42
136.0-137.0	14.6	1.1	5063.5	0.02	99.44
137.0-138.0	14.8	1.1	5064.5	0.02	99.46
138.0-139.0	15.0	1.1	5065.6	0.02	99.49
139.0-140.0	15.1	1.1	5066.7	0.02	99.51
140.0-141.0	15.3	1.1	5067.8	0.02	99.53
141.0-142.0	15.5	1.1	5068.8	0.02	99.55
142.0-143.0	15.6	1.0	5069.9	0.02	99.57
143.0-144.0	15.8	1.0	5070.9	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	15.9	1.0	5071.9	0.02	99.61
145.0-146.0	16.1	1.0	5072.9	0.02	99.63
146.0-147.0	16.3	1.0	5073.9	0.02	99.65
147.0-148.0	16.4	1.0	5074.9	0.02	99.67
148.0-149.0	16.5	0.9	5075.8	0.02	99.69
149.0-150.0	16.7	0.9	5076.7	0.02	99.70
150.0-151.0	16.8	0.9	5077.7	0.02	99.72
151.0-152.0	17.0	0.9	5078.5	0.02	99.74
152.0-153.0	17.1	0.9	5079.4	0.02	99.76
153.0-154.0	17.2	0.8	5080.2	0.02	99.77
154.0-155.0	17.3	0.8	5081.1	0.02	99.79
155.0-156.0	17.5	0.8	5081.9	0.02	99.80
156.0-157.0	17.6	0.8	5082.6	0.02	99.82
157.0-158.0	17.7	0.7	5083.4	0.01	99.83
158.0-159.0	17.8	0.7	5084.1	0.01	99.85
159.0-160.0	17.9	0.7	5084.8	0.01	99.86
160.0-161.0	18.0	0.7	5085.4	0.01	99.87
161.0-162.0	18.1	0.6	5086.1	0.01	99.89
162.0-163.0	18.2	0.6	5086.7	0.01	99.90
163.0-164.0	18.3	0.6	5087.2	0.01	99.91
164.0-165.0	18.4	0.5	5087.8	0.01	99.92
165.0-166.0	18.5	0.5	5088.3	0.01	99.93
166.0-167.0	18.6	0.5	5088.8	0.01	99.94
167.0-168.0	18.7	0.4	5089.2	0.01	99.95
168.0-169.0	18.8	0.4	5089.6	0.01	99.96
169.0-170.0	18.8	0.4	5090.0	0.01	99.96
170.0-171.0	18.9	0.3	5090.3	0.01	99.97
171.0-172.0	19.0	0.3	5090.6	0.01	99.98
172.0-173.0	19.0	0.3	5090.9	0.01	99.98
173.0-174.0	19.1	0.2	5091.2	0.00	99.99
174.0-175.0	19.2	0.2	5091.4	0.00	99.99
175.0-176.0	19.2	0.2	5091.5	0.00	99.99
176.0-177.0	19.3	0.1	5091.6	0.00	100.00
177.0-178.0	19.3	0.1	5091.7	0.00	100.00
178.0-179.0	19.4	0.1	5091.8	0.00	100.00
179.0-180.0	19.4	0.0	5091.8	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°): 2626.89 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 3867.01 lm

%lum = 75.9%

%lamp = 75.9%

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	1731.7	1731.7	1731.7	1731.7	1731.7	1731.7	1731.7	1731.7	1731.7	1731.7
G1.0	1732.2	1732.7	1732.5	1732.3	1731.7	1731.7	1730.3	1730.0	1729.7	1729.9
G2.0	1732.2	1732.9	1732.7	1732.4	1731.3	1730.7	1728.5	1727.7	1727.3	1728.0
G3.0	1731.4	1732.6	1732.3	1731.9	1730.1	1728.9	1726.2	1724.7	1723.9	1725.0
G4.0	1729.8	1731.5	1731.2	1730.2	1728.4	1726.8	1723.0	1721.2	1720.6	1721.7
G5.0	1727.8	1729.8	1729.5	1727.9	1725.9	1723.9	1719.5	1717.7	1716.1	1717.7
G6.0	1725.1	1727.3	1727.0	1725.4	1722.6	1720.1	1714.5	1712.7	1710.3	1712.1
G7.0	1721.5	1724.1	1724.0	1721.4	1718.5	1716.0	1709.9	1707.0	1705.3	1707.0
G8.0	1717.8	1721.3	1720.1	1717.7	1713.8	1711.3	1703.7	1700.9	1698.1	1700.1
G9.0	1712.7	1716.6	1715.3	1712.3	1708.6	1705.7	1697.8	1694.2	1691.3	1693.2
G10.0	1707.6	1711.7	1710.6	1706.7	1702.5	1699.6	1691.4	1687.7	1684.0	1685.9
G11.0	1701.9	1705.9	1704.4	1700.2	1695.4	1692.3	1684.0	1679.1	1674.9	1677.0
G12.0	1695.2	1699.7	1697.9	1693.0	1688.0	1685.4	1675.9	1670.9	1666.3	1668.2
G13.0	1688.4	1693.3	1690.8	1685.6	1680.8	1677.5	1667.8	1662.5	1657.1	1659.4
G14.0	1680.5	1685.6	1682.6	1676.5	1671.6	1668.3	1658.3	1652.6	1646.3	1648.2
G15.0	1672.5	1677.7	1674.0	1667.8	1662.1	1659.2	1648.6	1642.6	1635.8	1637.8
G16.0	1663.1	1668.7	1664.3	1657.4	1652.0	1649.0	1637.9	1631.4	1623.8	1625.9
G17.0	1654.3	1659.7	1654.7	1647.6	1641.5	1638.8	1627.2	1620.0	1611.9	1613.8
G18.0	1644.9	1649.8	1644.8	1636.3	1631.0	1628.4	1616.4	1608.9	1600.2	1601.5
G19.0	1633.9	1639.0	1633.4	1624.2	1618.0	1616.4	1604.6	1596.1	1585.5	1587.7
G20.0	1623.4	1628.6	1621.6	1612.7	1606.3	1604.5	1592.2	1583.1	1572.7	1573.9
G21.0	1611.9	1617.0	1610.1	1599.8	1594.1	1592.4	1580.3	1570.3	1558.3	1560.2
G22.0	1599.2	1604.1	1595.7	1585.6	1579.2	1578.4	1566.1	1555.1	1543.1	1544.6
G23.0	1587.5	1592.3	1582.9	1572.3	1565.7	1564.9	1552.5	1541.0	1528.5	1529.2
G24.0	1573.6	1577.9	1568.3	1556.5	1549.8	1550.0	1537.7	1525.6	1511.8	1512.4
G25.0	1560.8	1565.2	1553.9	1541.9	1535.5	1535.4	1523.9	1510.8	1495.4	1496.6
G26.0	1546.6	1551.1	1539.5	1525.8	1520.5	1520.8	1508.9	1494.7	1479.9	1479.8
G27.0	1531.8	1535.6	1523.2	1508.9	1503.1	1504.0	1492.8	1477.8	1461.1	1461.7
G28.0	1517.3	1520.9	1507.1	1492.7	1487.0	1488.7	1476.7	1461.2	1444.2	1443.7
G29.0	1501.8	1505.3	1491.1	1475.5	1470.2	1472.9	1461.2	1444.9	1427.1	1426.4
G30.0	1484.5	1488.6	1472.6	1456.2	1451.4	1454.0	1443.5	1426.7	1407.0	1406.8
G31.0	1469.2	1472.3	1455.9	1438.6	1434.2	1437.6	1427.5	1408.9	1389.2	1387.5
G32.0	1451.6	1454.5	1436.0	1418.9	1413.9	1418.2	1408.0	1389.7	1368.9	1367.0
G33.0	1434.7	1437.5	1418.5	1399.6	1395.6	1400.7	1390.0	1370.9	1349.2	1347.0
G34.0	1418.1	1419.9	1400.2	1381.0	1376.3	1382.2	1372.0	1351.7	1329.3	1326.7
G35.0	1398.5	1399.9	1379.1	1360.2	1355.6	1362.5	1352.7	1331.6	1307.9	1305.1
G36.0	1381.4	1382.4	1359.4	1339.7	1335.2	1343.1	1334.4	1312.8	1287.0	1285.1

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	1362.8	1363.2	1340.2	1318.6	1315.5	1324.3	1313.3	1290.8	1265.0	1261.7
G38.0	1343.3	1343.0	1317.8	1296.4	1292.5	1302.2	1294.7	1271.5	1243.4	1240.8
G39.0	1323.7	1323.2	1297.7	1274.6	1272.0	1282.6	1274.9	1250.8	1222.8	1218.6
G40.0	1303.1	1302.3	1274.6	1251.4	1248.4	1260.0	1253.8	1228.9	1200.0	1195.2
G41.0	1283.4	1281.9	1253.7	1228.9	1227.0	1239.7	1234.1	1207.9	1177.4	1172.6
G42.0	1264.1	1261.7	1232.8	1207.2	1204.8	1218.3	1213.4	1187.4	1155.9	1150.5
G43.0	1241.7	1238.8	1208.3	1181.8	1180.9	1195.8	1191.8	1164.5	1132.0	1126.2
G44.0	1221.8	1218.4	1185.5	1159.5	1157.9	1173.8	1171.3	1142.5	1108.8	1103.7
G45.0	1201.0	1196.8	1163.5	1136.0	1135.6	1152.6	1148.0	1119.2	1084.1	1077.9
G46.0	1178.9	1173.9	1138.1	1110.5	1109.6	1128.1	1127.3	1096.9	1060.8	1054.8
G47.0	1157.4	1151.6	1115.4	1086.1	1086.8	1106.6	1105.5	1075.1	1037.9	1030.4
G48.0	1134.6	1128.0	1089.5	1060.4	1060.0	1081.3	1082.4	1050.1	1011.7	1004.8
G49.0	1112.6	1105.1	1066.3	1036.5	1036.8	1059.3	1060.2	1028.5	988.2	980.2
G50.0	1091.4	1083.2	1041.9	1011.4	1012.0	1035.8	1038.7	1005.2	963.8	956.1
G51.0	1067.1	1058.1	1015.9	983.6	985.7	1011.0	1013.8	980.5	937.9	928.6
G52.0	1045.5	1035.5	990.8	958.7	960.4	987.3	992.1	958.0	913.0	904.3
G53.0	1022.7	1012.0	966.7	933.1	936.1	964.7	966.9	932.3	886.6	876.4
G54.0	998.8	987.2	939.0	905.4	908.1	938.3	944.8	909.4	861.2	851.7
G55.0	975.6	963.2	913.4	879.0	883.3	915.1	921.5	885.3	836.9	825.4
G56.0	950.2	937.9	886.1	851.0	854.6	888.3	896.9	860.1	808.8	798.1
G57.0	927.7	913.4	861.1	824.1	829.5	864.9	874.6	835.8	784.1	771.6
G58.0	904.3	888.9	833.6	796.9	801.7	839.0	851.0	812.5	758.3	746.3
G59.0	878.4	861.8	806.1	767.2	773.9	813.1	826.3	786.9	730.8	718.4
G60.0	855.8	838.2	779.3	740.8	747.1	788.1	802.3	762.3	704.7	691.4
G61.0	829.8	811.2	751.5	710.7	718.8	761.9	777.6	736.5	677.1	663.2
G62.0	807.0	787.4	724.4	682.9	691.6	736.9	753.7	711.8	652.0	635.8
G63.0	783.2	762.4	697.4	656.4	664.4	711.8	731.0	688.1	625.3	609.9
G64.0	758.0	736.2	669.0	625.7	636.0	685.3	705.3	661.3	597.7	580.0
G65.0	734.0	710.8	641.8	598.5	608.4	661.3	683.0	637.7	571.3	553.8
G66.0	710.2	685.6	615.8	570.0	582.2	636.0	659.8	613.3	545.8	526.2
G67.0	685.6	659.2	585.8	540.3	552.4	608.8	635.5	588.0	518.3	497.3
G68.0	662.2	635.2	559.7	511.7	526.3	585.4	613.7	565.1	491.7	470.9
G69.0	637.9	608.2	529.9	482.0	496.4	558.8	588.6	539.3	464.0	440.6
G70.0	614.7	583.7	503.7	453.6	469.2	535.7	566.8	516.8	437.8	414.2
G71.0	591.7	560.4	476.5	424.9	443.3	511.7	543.8	493.3	413.0	386.8
G72.0	567.7	534.3	448.2	395.2	413.9	486.9	520.1	469.1	384.9	358.2
G73.0	544.9	510.2	421.3	366.4	388.4	463.4	497.6	446.2	360.6	331.2

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 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	523.1	487.2	395.8	339.2	361.7	439.9	476.4	424.4	335.5	305.3
G75.0	499.5	462.7	367.0	309.9	334.3	415.5	451.7	399.6	310.0	276.5
G76.0	476.9	439.2	340.8	281.9	308.6	392.6	430.2	377.9	286.1	251.6
G77.0	452.5	413.6	314.2	252.2	282.5	368.6	402.0	353.0	261.8	223.4
G78.0	431.0	391.5	289.5	226.4	258.5	345.8	373.5	328.8	239.5	199.4
G79.0	406.8	368.4	266.5	200.3	236.2	323.0	338.4	298.8	218.5	175.1
G80.0	376.5	343.8	241.0	172.6	211.6	293.3	294.8	261.6	195.7	150.5
G81.0	343.1	316.2	219.4	149.4	189.7	263.0	245.6	220.2	175.5	128.0
G82.0	303.5	283.9	197.1	126.0	169.5	225.2	183.6	168.4	152.4	106.1
G83.0	254.7	244.2	174.4	103.1	147.7	178.6	115.5	109.4	128.0	86.4
G84.0	199.0	200.3	152.9	82.8	128.7	125.2	59.1	51.4	98.2	69.6
G85.0	130.3	145.2	126.7	63.6	104.8	61.5	22.6	20.0	61.0	52.3
G86.0	66.1	87.1	99.5	47.6	80.7	24.9	8.6	11.4	21.9	39.4
G87.0	30.1	36.0	68.5	34.8	51.4	7.8	7.1	9.7	11.9	28.1
G88.0	9.7	13.2	28.6	23.4	18.3	6.0	6.5	7.9	7.9	17.0
G89.0	6.3	8.8	10.6	14.5	6.6	5.5	6.3	6.6	6.1	8.9
G90.0	5.7	7.4	7.9	7.7	5.0	5.4	6.3	6.5	6.4	6.2
G91.0	5.4	6.1	4.8	4.9	5.3	5.5	6.4	6.7	6.5	6.4
G92.0	5.4	5.2	5.0	5.0	5.4	5.7	6.7	6.9	6.7	6.6
G93.0	5.5	5.4	5.2	5.3	5.6	6.0	6.9	7.1	6.9	6.8
G94.0	5.8	5.6	5.3	5.5	5.8	6.2	7.0	7.4	7.2	7.0
G95.0	6.0	5.8	5.5	5.6	6.0	6.3	7.2	7.5	7.4	7.2
G96.0	6.0	5.9	5.8	5.8	6.2	6.5	7.4	7.7	7.5	7.4
G97.0	6.3	6.1	5.9	6.1	6.4	6.7	7.6	7.8	7.7	7.6
G98.0	6.5	6.3	6.1	6.3	6.6	6.8	7.8	8.0	8.0	7.8
G99.0	6.6	6.5	6.4	6.5	6.8	7.1	7.9	8.3	8.1	8.0
G100.0	6.8	6.7	6.5	6.7	7.1	7.3	8.2	8.5	8.4	8.2
G101.0	7.0	6.9	6.7	6.9	7.2	7.5	8.4	8.6	8.6	8.4
G102.0	7.2	7.1	6.8	7.1	7.5	7.6	8.6	8.8	8.7	8.6
G103.0	7.4	7.3	7.1	7.2	7.6	7.9	8.6	9.0	8.9	8.7
G104.0	7.7	7.4	7.3	7.4	7.8	8.0	8.9	9.2	9.2	9.0
G105.0	7.7	7.7	7.5	7.6	7.9	8.2	9.0	9.4	9.3	9.3
G106.0	8.0	7.7	7.6	7.8	8.2	8.4	9.3	9.5	9.5	9.4
G107.0	8.2	8.0	7.8	8.1	8.3	8.6	9.4	9.8	9.7	9.6
G108.0	8.3	8.1	8.0	8.2	8.6	8.8	9.6	10.0	9.9	9.7
G109.0	8.5	8.3	8.2	8.4	8.8	9.1	9.7	10.2	10.1	10.0
G110.0	8.7	8.6	8.4	8.6	9.0	9.2	10.0	10.3	10.4	10.1

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	8.9	8.8	8.6	8.8	9.3	9.4	10.2	10.5	10.6	10.3
G112.0	9.1	8.9	8.7	8.9	9.5	9.6	10.3	10.6	10.8	10.5
G113.0	9.4	9.2	9.1	9.2	9.8	9.8	10.5	10.8	10.9	10.7
G114.0	9.5	9.3	9.3	9.4	9.9	10.0	10.8	11.0	11.1	10.9
G115.0	9.6	9.6	9.5	9.5	10.0	10.2	10.9	11.2	11.2	11.1
G116.0	9.8	9.7	9.6	9.8	10.2	10.4	11.1	11.3	11.5	11.2
G117.0	10.0	9.8	9.8	10.0	10.3	10.6	11.3	11.6	11.6	11.4
G118.0	10.2	10.1	10.0	10.1	10.6	10.8	11.5	11.8	11.8	11.6
G119.0	10.5	10.2	10.2	10.3	10.7	11.0	11.7	12.0	12.0	11.8
G120.0	10.6	10.5	10.3	10.5	11.0	11.2	11.8	12.2	12.2	12.0
G121.0	10.8	10.6	10.5	10.7	11.1	11.4	12.1	12.4	12.4	12.2
G122.0	11.0	10.9	10.7	10.9	11.3	11.7	12.3	12.7	12.6	12.3
G123.0	11.2	11.1	10.9	11.1	11.6	11.9	12.6	12.7	12.7	12.6
G124.0	11.4	11.3	11.1	11.2	11.7	12.1	12.6	12.9	12.9	12.8
G125.0	11.7	11.5	11.3	11.5	11.9	12.3	12.9	13.3	13.0	12.8
G126.0	11.9	11.7	11.5	11.6	12.1	12.5	13.1	13.4	13.4	13.0
G127.0	12.2	12.0	11.8	11.9	12.3	12.8	13.3	13.6	13.5	13.3
G128.0	12.4	12.2	12.0	12.0	12.6	12.8	13.5	13.8	13.6	13.4
G129.0	12.5	12.4	12.2	12.2	12.7	13.1	13.7	13.9	13.9	13.6
G130.0	12.7	12.6	12.3	12.5	12.8	13.4	13.9	14.2	14.1	13.9
G131.0	12.9	12.7	12.5	12.6	13.0	13.5	14.1	14.4	14.2	14.1
G132.0	13.1	12.9	12.7	12.8	13.2	13.6	14.3	14.7	14.4	14.2
G133.0	13.4	13.3	12.9	13.0	13.5	13.9	14.5	14.9	14.5	14.4
G134.0	13.6	13.4	13.1	13.3	13.6	14.1	14.6	15.0	14.8	14.6
G135.0	13.8	13.5	13.3	13.4	13.8	14.3	14.9	15.2	15.0	14.8
G136.0	14.0	13.7	13.5	13.7	14.0	14.6	15.0	15.4	15.1	15.0
G137.0	14.1	13.9	13.6	13.9	14.3	14.9	15.2	15.6	15.3	15.2
G138.0	14.3	14.1	13.8	14.1	14.4	15.0	15.4	15.8	15.5	15.3
G139.0	14.5	14.3	14.1	14.2	14.6	15.1	15.5	16.0	15.7	15.5
G140.0	14.6	14.4	14.3	14.4	14.8	15.2	15.7	16.2	15.8	15.6
G141.0	14.7	14.6	14.4	14.6	15.0	15.4	15.9	16.2	16.0	15.9
G142.0	14.9	14.8	14.6	14.8	15.2	15.5	16.0	16.4	16.2	16.0
G143.0	15.0	14.9	14.8	15.0	15.4	15.7	16.2	16.5	16.3	16.2
G144.0	15.3	15.1	15.0	15.1	15.5	15.8	16.4	16.7	16.5	16.3
G145.0	15.4	15.3	15.2	15.3	15.7	16.0	16.5	16.8	16.6	16.5
G146.0	15.6	15.4	15.3	15.5	15.8	16.2	16.7	17.0	16.8	16.6
G147.0	15.7	15.6	15.5	15.6	16.0	16.3	16.8	17.0	17.0	16.7

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	15.9	15.7	15.6	15.9	16.2	16.5	16.9	17.1	17.1	17.0
G149.0	16.0	15.9	15.7	16.0	16.3	16.6	17.1	17.2	17.2	17.1
G150.0	16.2	16.0	15.9	16.1	16.4	16.7	17.3	17.4	17.4	17.2
G151.0	16.4	16.2	16.1	16.2	16.6	16.9	17.4	17.5	17.4	17.4
G152.0	16.5	16.3	16.2	16.4	16.7	17.0	17.4	17.6	17.5	17.5
G153.0	16.7	16.5	16.4	16.5	16.9	17.1	17.6	17.6	17.7	17.6
G154.0	16.8	16.6	16.5	16.7	17.0	17.2	17.7	17.8	17.8	17.8
G155.0	16.9	16.7	16.6	16.8	17.1	17.4	17.8	17.9	17.9	17.9
G156.0	17.1	16.9	16.8	17.1	17.2	17.5	18.0	18.0	18.0	18.0
G157.0	17.2	17.0	16.9	17.2	17.4	17.7	18.0	18.1	18.2	18.1
G158.0	17.3	17.1	17.0	17.2	17.5	17.8	18.1	18.3	18.3	18.2
G159.0	17.4	17.2	17.2	17.4	17.6	17.9	18.2	18.4	18.4	18.4
G160.0	17.6	17.4	17.3	17.5	17.7	18.0	18.2	18.5	18.4	18.4
G161.0	17.6	17.5	17.4	17.6	17.9	18.1	18.3	18.6	18.6	18.6
G162.0	17.8	17.6	17.5	17.8	18.0	18.3	18.4	18.5	18.6	18.6
G163.0	17.8	17.8	17.7	17.9	18.1	18.3	18.4	18.7	18.6	18.7
G164.0	17.9	17.8	17.8	18.1	18.3	18.5	18.6	18.7	18.7	18.7
G165.0	17.9	18.0	17.8	18.1	18.3	18.5	18.6	18.9	18.9	18.8
G166.0	18.1	18.1	18.0	18.2	18.4	18.7	18.7	19.0	18.9	18.9
G167.0	18.2	18.2	18.1	18.4	18.5	18.7	18.7	19.0	18.9	18.9
G168.0	18.3	18.3	18.2	18.4	18.7	18.9	18.9	19.2	19.0	19.0
G169.0	18.4	18.4	18.3	18.7	18.7	18.9	18.8	19.1	19.0	19.1
G170.0	18.5	18.5	18.4	18.7	18.8	19.0	18.9	19.2	19.0	19.2
G171.0	18.5	18.6	18.5	18.7	18.9	19.2	18.9	19.3	19.1	19.3
G172.0	18.6	18.7	18.6	18.8	18.9	19.2	19.2	19.4	19.1	19.2
G173.0	18.7	18.7	18.8	18.9	19.1	19.2	19.2	19.4	19.2	19.4
G174.0	18.8	18.9	18.8	19.1	19.1	19.3	19.3	19.4	19.4	19.2
G175.0	18.9	19.0	18.9	19.2	19.2	19.3	19.3	19.4	19.4	19.4
G176.0	19.0	19.0	19.0	19.2	19.3	19.5	19.3	19.4	19.2	19.2
G177.0	19.0	19.2	19.1	19.2	19.3	19.5	19.3	19.4	19.3	19.5
G178.0	19.0	19.4	19.1	19.4	19.3	19.5	19.3	19.4	19.4	19.5
G179.0	19.3	19.4	19.1	19.4	19.5	19.5	19.3	19.4	19.4	19.5
G180.0	19.3	19.4	19.4	19.5	19.5	19.5	19.3	19.4	19.1	19.5

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	1731.7	1731.7	1731.7							
G1.0	1730.6	1731.5	1732.2							
G2.0	1729.4	1730.7	1732.2							
G3.0	1726.6	1729.0	1731.4							
G4.0	1723.8	1726.7	1729.8							
G5.0	1720.3	1723.9	1727.8							
G6.0	1715.7	1720.3	1725.1							
G7.0	1710.5	1716.4	1721.5							
G8.0	1704.8	1711.6	1717.8							
G9.0	1698.3	1706.1	1712.7							
G10.0	1691.8	1700.4	1707.6							
G11.0	1683.5	1693.3	1701.9							
G12.0	1675.5	1686.3	1695.2							
G13.0	1667.2	1678.6	1688.4							
G14.0	1656.7	1670.1	1680.5							
G15.0	1647.3	1661.2	1672.5							
G16.0	1636.0	1650.5	1663.1							
G17.0	1624.6	1640.8	1654.3							
G18.0	1613.0	1630.6	1644.9							
G19.0	1599.7	1618.2	1633.9							
G20.0	1587.3	1607.1	1623.4							
G21.0	1574.3	1594.5	1611.9							
G22.0	1558.8	1580.9	1599.2							
G23.0	1544.7	1568.0	1587.5							
G24.0	1528.6	1553.0	1573.6							
G25.0	1513.2	1538.7	1560.8							
G26.0	1497.7	1524.6	1546.6							
G27.0	1480.2	1508.0	1531.8							
G28.0	1463.2	1493.0	1517.3							
G29.0	1446.3	1477.4	1501.8							
G30.0	1426.8	1459.1	1484.5							
G31.0	1409.2	1442.6	1469.2							
G32.0	1389.5	1424.4	1451.6							
G33.0	1370.1	1406.6	1434.7							
G34.0	1350.4	1388.2	1418.1							
G35.0	1329.7	1368.5	1398.5							
G36.0	1309.2	1349.3	1381.4							

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	1287.5	1329.1	1362.8							
G38.0	1267.4	1309.3	1343.3							
G39.0	1246.2	1290.2	1323.7							
G40.0	1223.0	1267.8	1303.1							
G41.0	1201.1	1247.9	1283.4							
G42.0	1179.8	1227.9	1264.1							
G43.0	1156.1	1204.3	1241.7							
G44.0	1133.1	1183.8	1221.8							
G45.0	1109.0	1160.6	1201.0							
G46.0	1085.5	1138.5	1178.9							
G47.0	1062.8	1116.2	1157.4							
G48.0	1036.8	1092.5	1134.6							
G49.0	1013.6	1070.8	1112.6							
G50.0	989.2	1047.8	1091.4							
G51.0	963.3	1023.5	1067.1							
G52.0	938.5	999.9	1045.5							
G53.0	912.3	975.4	1022.7							
G54.0	888.0	951.6	998.8							
G55.0	862.9	928.8	975.6							
G56.0	835.9	903.4	950.2							
G57.0	810.2	879.3	927.7							
G58.0	785.4	856.0	904.3							
G59.0	757.0	829.3	878.4							
G60.0	731.9	805.9	855.8							
G61.0	703.0	778.7	829.8							
G62.0	677.8	755.1	807.0							
G63.0	651.3	730.3	783.2							
G64.0	623.4	704.2	758.0							
G65.0	596.8	679.4	734.0							
G66.0	571.5	655.7	710.2							
G67.0	543.5	629.8	685.6							
G68.0	516.8	605.3	662.2							
G69.0	489.1	580.0	637.9							
G70.0	462.6	555.9	614.7							
G71.0	437.4	533.1	591.7							
G72.0	410.0	508.5	567.7							
G73.0	384.2	485.3	544.9							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	358.5	462.2	523.1							
G75.0	332.3	438.3	499.5							
G76.0	307.4	415.6	476.9							
G77.0	282.0	392.3	452.5							
G78.0	258.8	370.0	431.0							
G79.0	237.4	348.9	406.8							
G80.0	213.8	324.3	376.5							
G81.0	193.9	300.0	343.1							
G82.0	171.6	267.4	303.5							
G83.0	153.3	234.0	254.7							
G84.0	134.3	192.6	199.0							
G85.0	113.4	140.3	130.3							
G86.0	89.5	82.0	66.1							
G87.0	62.1	35.6	30.1							
G88.0	25.0	11.5	9.7							
G89.0	9.4	7.7	6.3							
G90.0	6.2	6.5	5.7							
G91.0	6.3	6.4	5.4							
G92.0	6.5	6.5	5.4							
G93.0	6.7	6.8	5.5							
G94.0	6.9	6.9	5.8							
G95.0	7.2	7.1	6.0							
G96.0	7.4	7.3	6.0							
G97.0	7.6	7.6	6.3							
G98.0	7.8	7.6	6.5							
G99.0	8.0	7.9	6.6							
G100.0	8.2	8.0	6.8							
G101.0	8.4	8.3	7.0							
G102.0	8.6	8.5	7.2							
G103.0	8.8	8.7	7.4							
G104.0	8.9	8.8	7.7							
G105.0	9.1	9.1	7.7							
G106.0	9.4	9.3	8.0							
G107.0	9.5	9.5	8.2							
G108.0	9.8	9.6	8.3							
G109.0	9.9	9.9	8.5							
G110.0	10.2	10.0	8.7							

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	10.4	10.2	8.9							
G112.0	10.7	10.4	9.1							
G113.0	10.9	10.6	9.4							
G114.0	11.1	10.7	9.5							
G115.0	11.2	10.9	9.6							
G116.0	11.3	11.0	9.8							
G117.0	11.6	11.3	10.0							
G118.0	11.6	11.5	10.2							
G119.0	11.8	11.7	10.5							
G120.0	12.0	11.9	10.6							
G121.0	12.1	12.0	10.8							
G122.0	12.3	12.3	11.0							
G123.0	12.6	12.5	11.2							
G124.0	12.8	12.9	11.4							
G125.0	12.8	12.9	11.7							
G126.0	13.0	13.1	11.9							
G127.0	13.2	13.4	12.2							
G128.0	13.5	13.6	12.4							
G129.0	13.6	13.8	12.5							
G130.0	13.9	14.0	12.7							
G131.0	14.1	14.3	12.9							
G132.0	14.3	14.4	13.1							
G133.0	14.4	14.5	13.4							
G134.0	14.6	14.6	13.6							
G135.0	14.8	14.8	13.8							
G136.0	15.0	15.1	14.0							
G137.0	15.2	15.2	14.1							
G138.0	15.3	15.4	14.3							
G139.0	15.5	15.5	14.5							
G140.0	15.7	15.7	14.6							
G141.0	15.8	15.9	14.7							
G142.0	16.0	16.0	14.9							
G143.0	16.2	16.2	15.0							
G144.0	16.3	16.3	15.3							
G145.0	16.5	16.5	15.4							
G146.0	16.6	16.6	15.6							
G147.0	16.8	16.8	15.7							

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	16.9	16.9	15.9							
G149.0	17.1	17.0	16.0							
G150.0	17.2	17.1	16.2							
G151.0	17.3	17.3	16.4							
G152.0	17.4	17.4	16.5							
G153.0	17.5	17.6	16.7							
G154.0	17.7	17.7	16.8							
G155.0	17.8	17.9	16.9							
G156.0	17.9	18.0	17.1							
G157.0	17.9	18.1	17.2							
G158.0	18.2	18.2	17.3							
G159.0	18.2	18.3	17.4							
G160.0	18.3	18.4	17.6							
G161.0	18.3	18.4	17.6							
G162.0	18.4	18.5	17.8							
G163.0	18.6	18.6	17.8							
G164.0	18.6	18.7	17.9							
G165.0	18.7	18.8	17.9							
G166.0	18.8	18.8	18.1							
G167.0	18.9	18.9	18.2							
G168.0	18.9	19.0	18.3							
G169.0	19.1	19.0	18.4							
G170.0	19.0	19.2	18.5							
G171.0	19.1	19.1	18.5							
G172.0	19.2	19.2	18.6							
G173.0	19.4	19.3	18.7							
G174.0	19.4	19.3	18.8							
G175.0	19.5	19.5	18.9							
G176.0	19.5	19.5	19.0							
G177.0	19.5	19.5	19.0							
G178.0	19.5	19.5	19.0							
G179.0	19.5	19.6	19.3							
G180.0	19.5	19.5	19.3							

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:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	2328.44
L 0-180(75) av	2552.29
L 0-180(85) av	1218.02
L 90-270(65) av	1893.42
L 90-270(75) av	1573.55
L 90-270(85) av	923.95
L 45(65) av	2098.18
L 45(75) av	2052.34
L 45(85) av	1539.58

Standard: GB/T 29293-2012