

Report No.:

Test Time: 2023-08-01 16:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1200

Luminous Height (mm): 40

Current: 0.197 A

Power Factor: 0.987

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 100

Voltage: 119.9 V

Power: 23.37 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3348.1 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 209.0, 161.3, 188.1, 187.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 125.5, 105.6, 114.9, 114.8

Luminous Efficacy (lm/w): 143.26

Max. Intensity: 1012.88 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 3348.1 lm

Efficiency: 100%

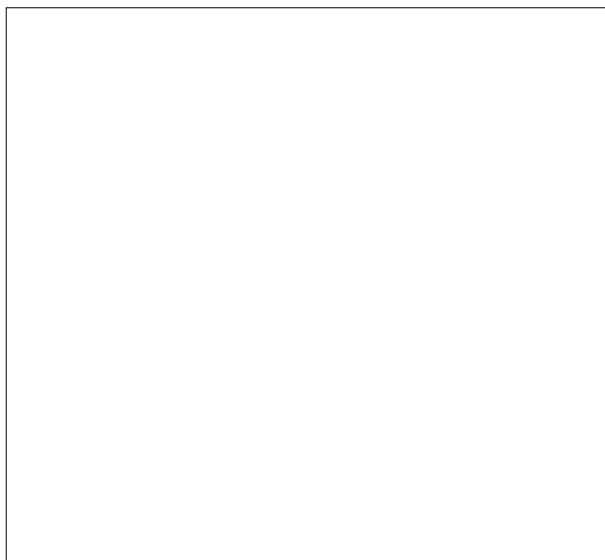
Upward Ratio: 7%

C0r0 Intensity: 1011.06 cd

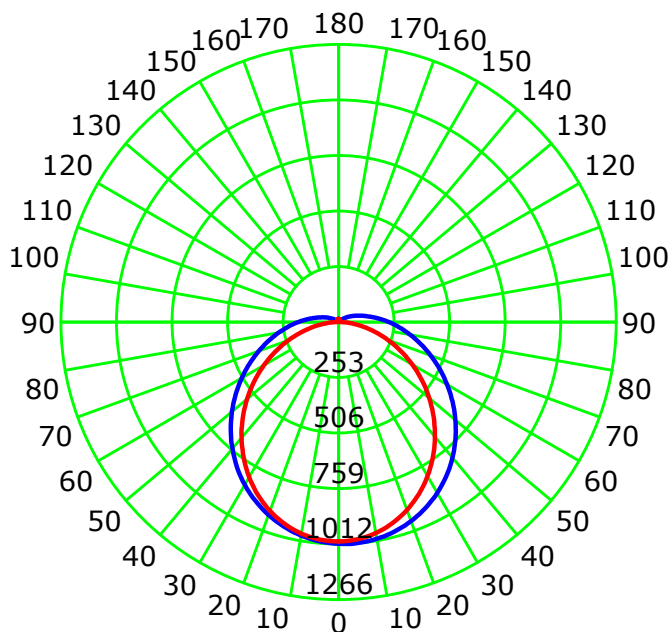
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

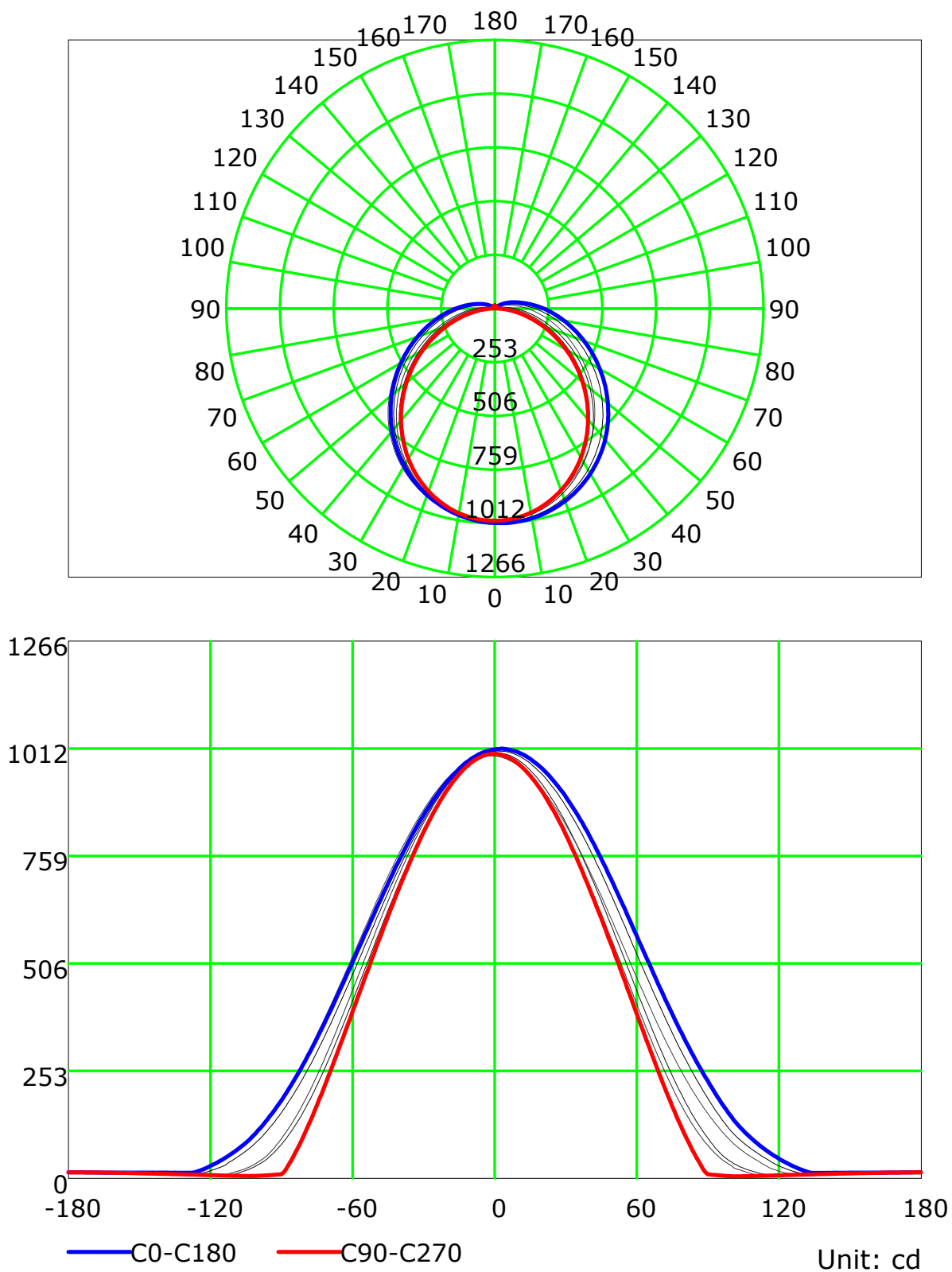
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

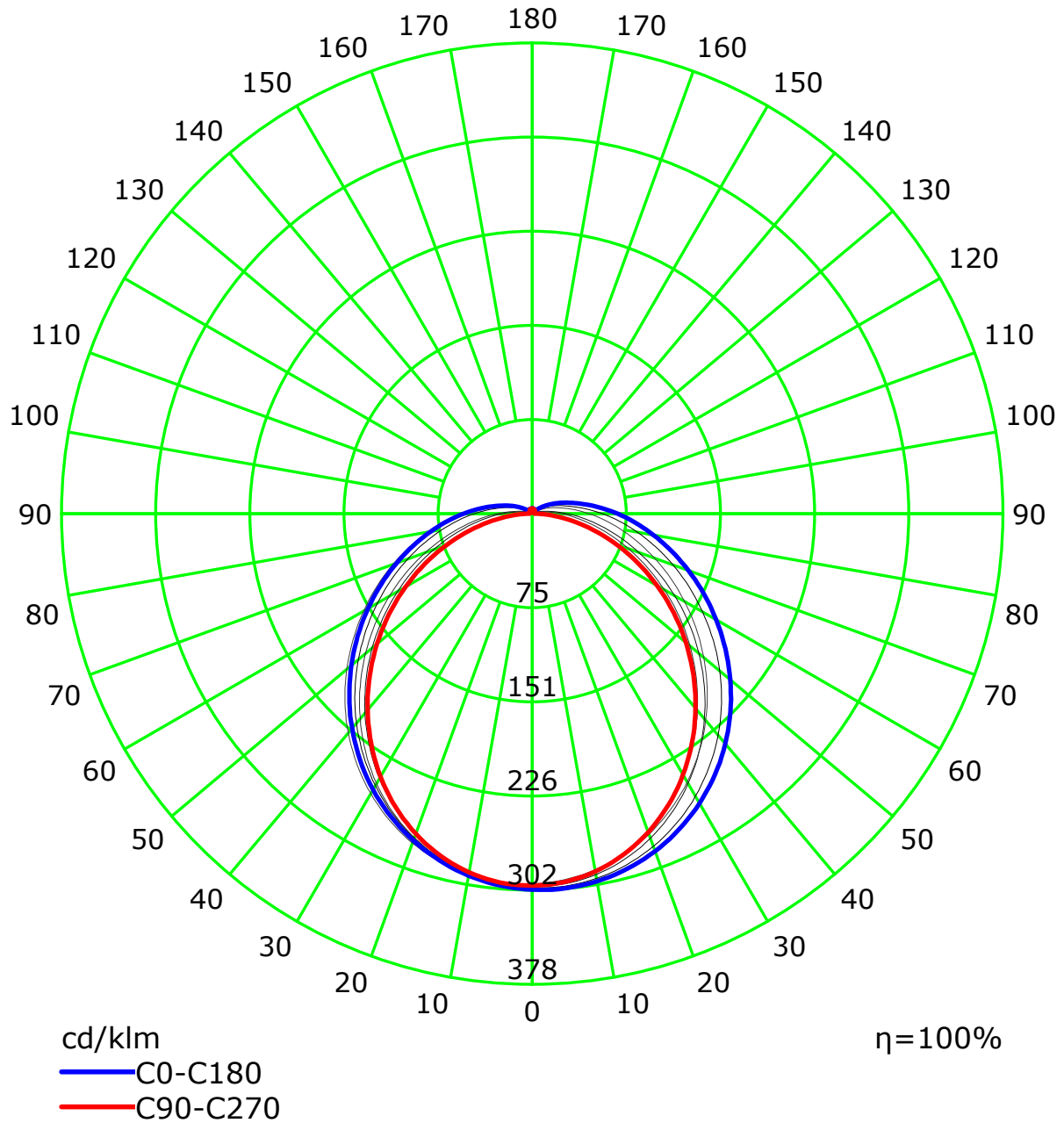
Luminous Intensity Distribution Curve



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: 9.010 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



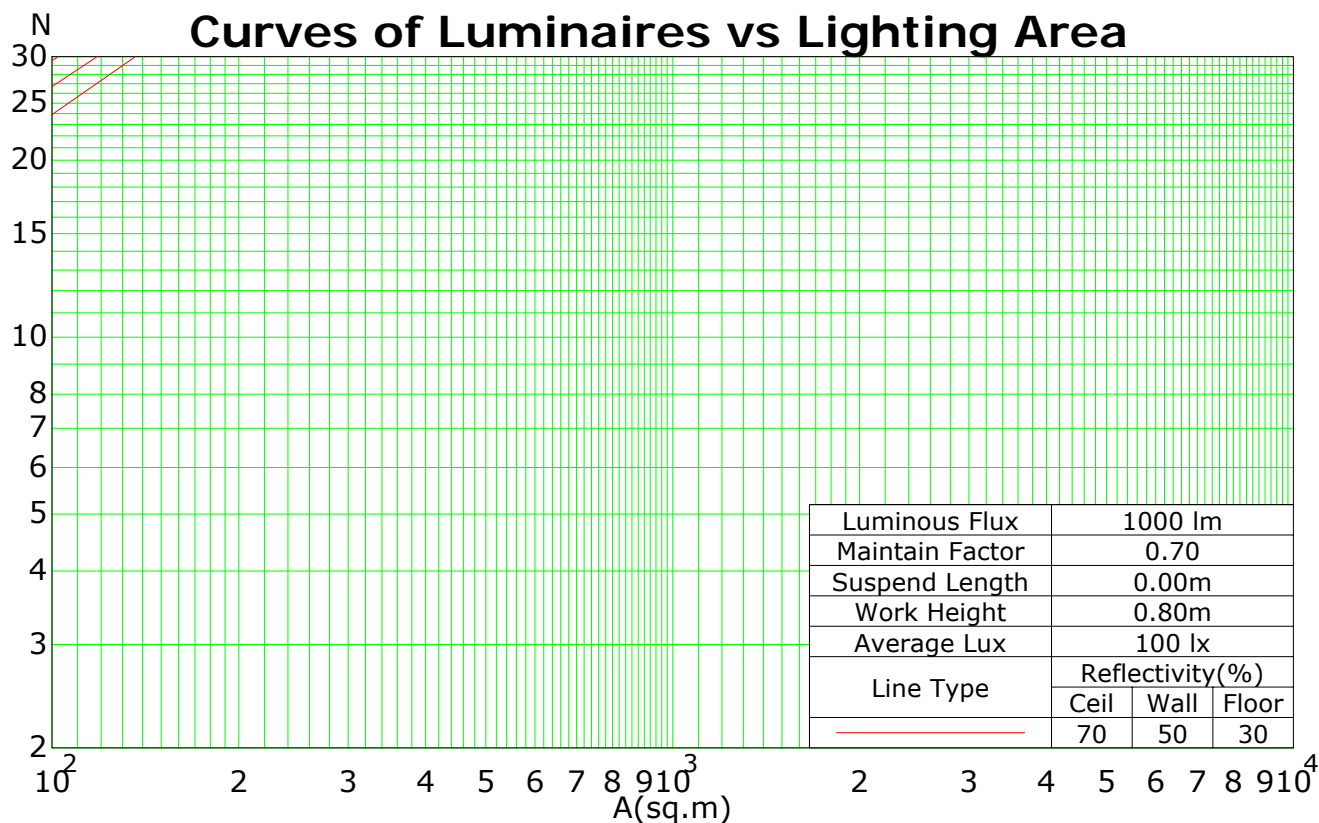
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 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	1.17	1.17	1.17	1.17	1.14	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
1	1.05	1.00	0.95	0.91	1.02	0.97	0.92	0.88	0.91	0.88	0.84	0.86	0.83	0.81	0.82	0.79	0.77	0.74
2	0.95	0.86	0.79	0.73	0.92	0.84	0.77	0.71	0.79	0.73	0.68	0.75	0.70	0.66	0.71	0.67	0.63	0.61
3	0.87	0.75	0.67	0.60	0.83	0.73	0.65	0.59	0.69	0.62	0.57	0.66	0.60	0.55	0.62	0.57	0.53	0.51
4	0.79	0.66	0.57	0.50	0.76	0.65	0.56	0.50	0.61	0.54	0.48	0.58	0.52	0.47	0.55	0.50	0.45	0.43
5	0.73	0.59	0.50	0.43	0.70	0.58	0.49	0.42	0.55	0.47	0.41	0.52	0.46	0.40	0.50	0.44	0.39	0.37
6	0.67	0.53	0.44	0.37	0.65	0.52	0.43	0.37	0.49	0.42	0.36	0.47	0.40	0.35	0.45	0.39	0.34	0.32
7	0.62	0.48	0.39	0.33	0.60	0.47	0.39	0.33	0.45	0.37	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.28
8	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.41	0.34	0.28	0.39	0.33	0.28	0.38	0.32	0.27	0.25
9	0.54	0.40	0.32	0.26	0.52	0.39	0.31	0.26	0.38	0.31	0.26	0.36	0.30	0.25	0.35	0.29	0.25	0.23
10	0.51	0.37	0.29	0.24	0.49	0.36	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21

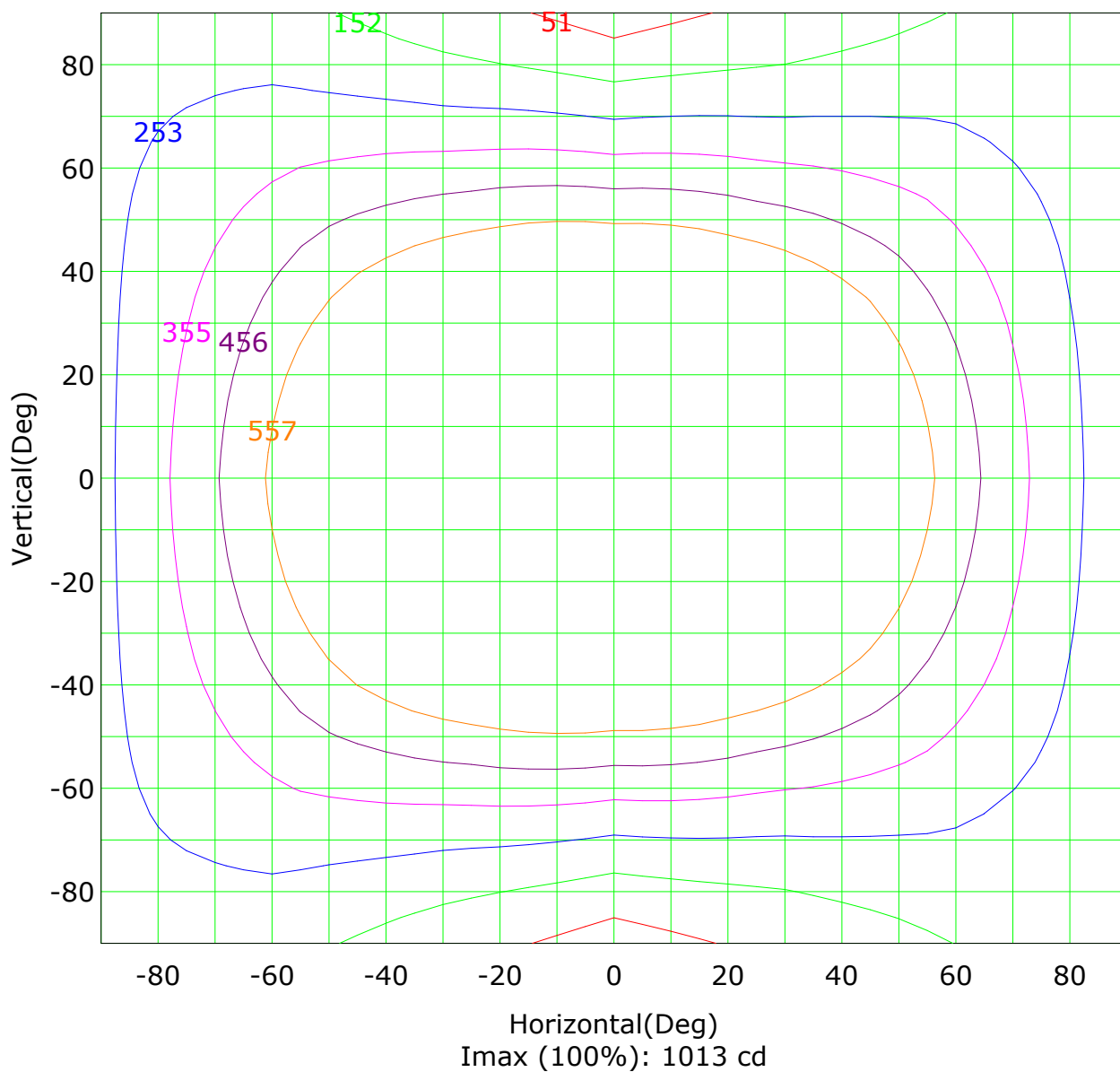
Spacing Criteria (0-180): 1.29
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.37



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: 9.010 m
Humidity:
Inspector:

Isocandela (rectangle)

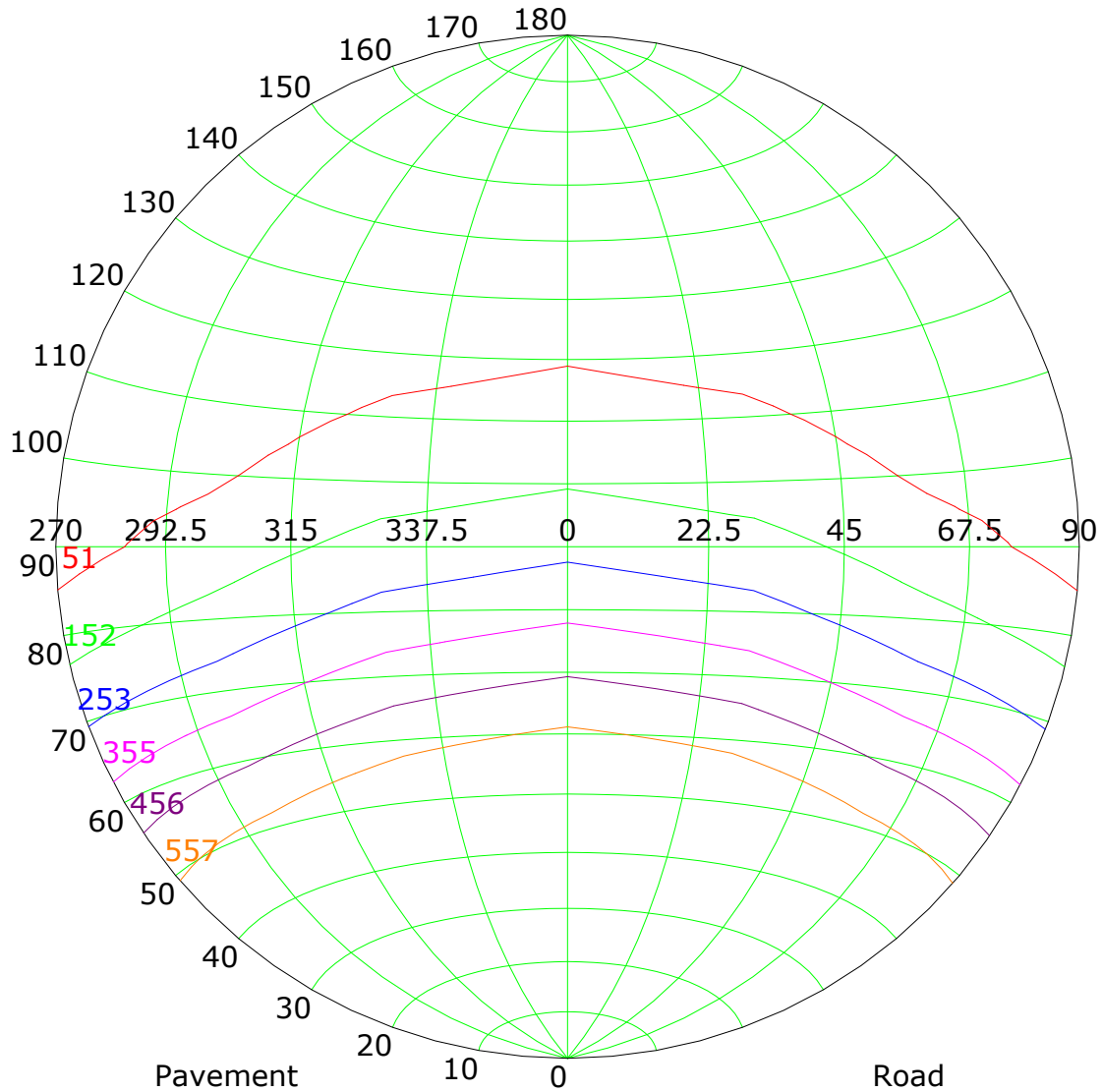


(5%):	51 cd	(15%):	152 cd
(25%):	253 cd	(35%):	355 cd
(45%):	456 cd	(55%):	557 cd

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: 9.010 m
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 1013 cd

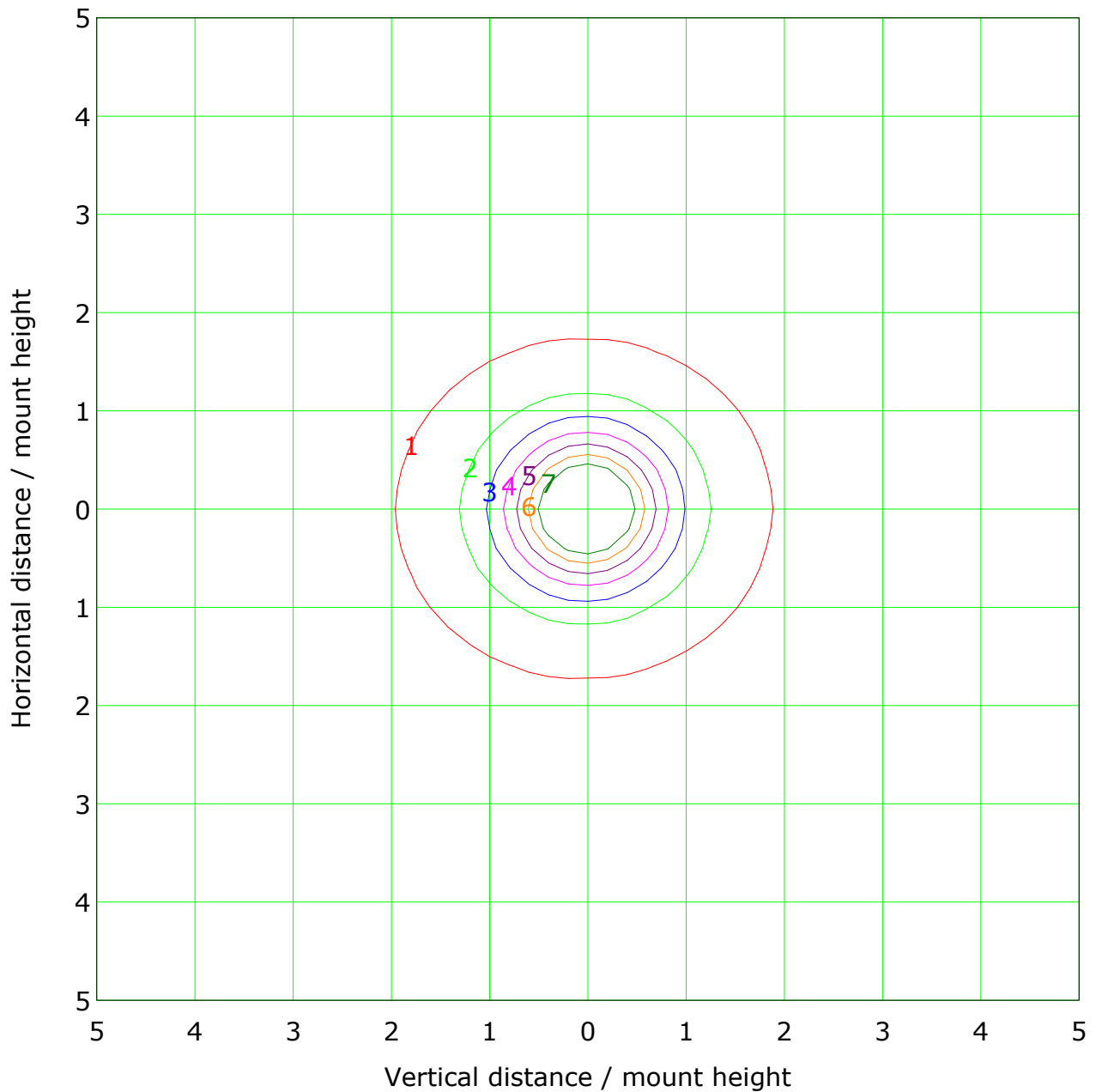
(5%): 51 cd
(25%): 253 cd
(45%): 456 cd

(15%): 152 cd
(35%): 355 cd
(55%): 557 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 68.656 cd/klm

IES: Non-cut-off
Max.At80: 98.681 cd/klm
Max.80-90: 98.681 cd/klm

IsoLux Plot



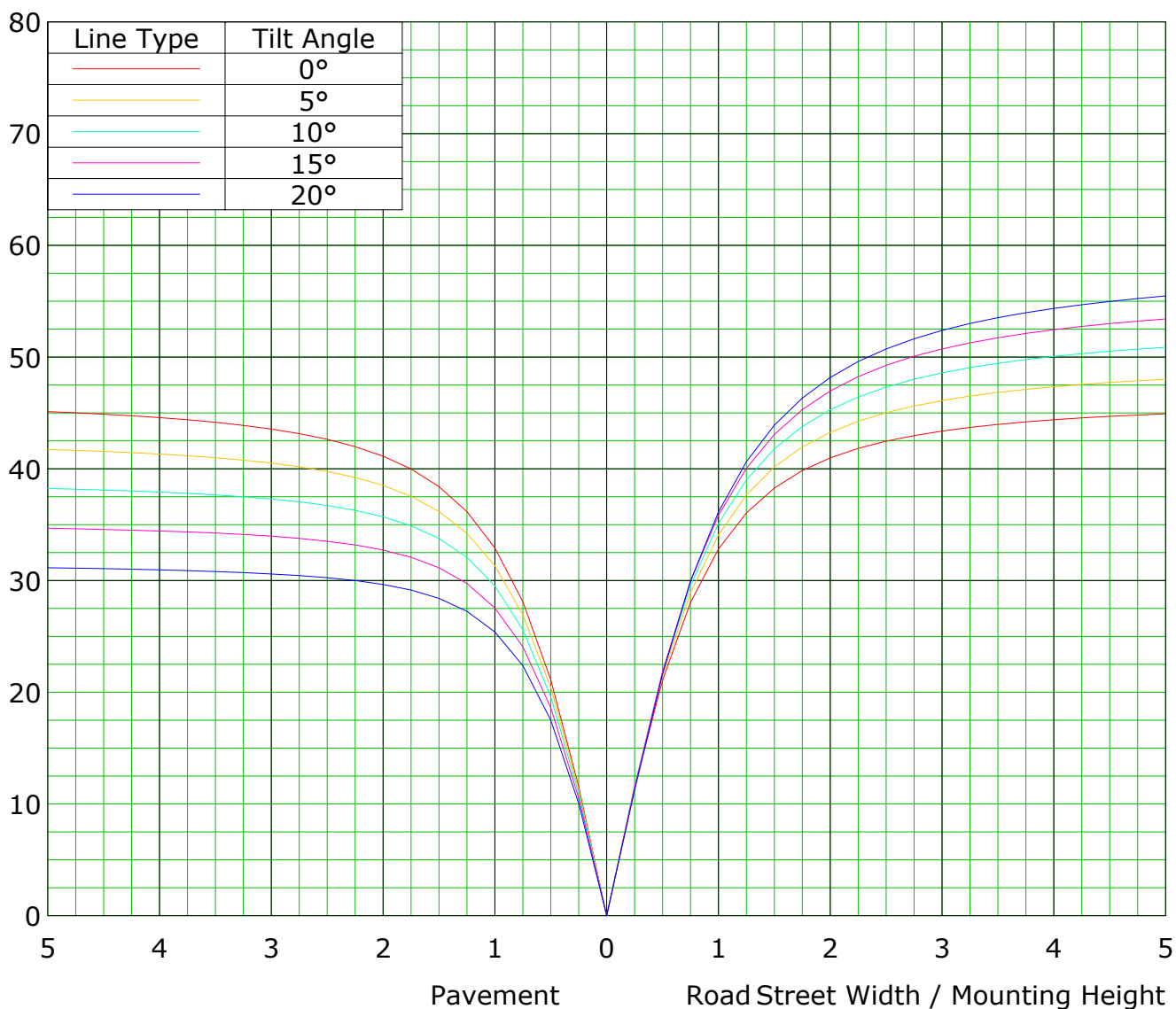
Mounting Height: 10.0m		Max Lux(100%): 10.1 lx	
— (5%):	0.5 lx	— (15%):	1.5 lx
— (25%):	2.5 lx	— (35%):	3.5 lx
— (45%):	4.6 lx	— (55%):	5.6 lx
— (65%):	6.6 lx		

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: 9.010 m
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)

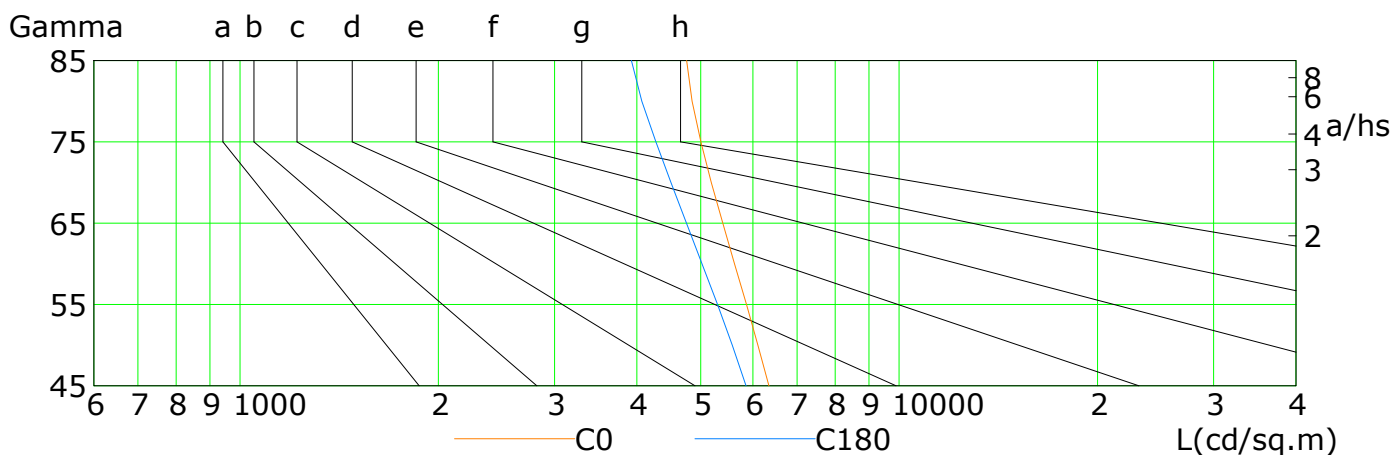
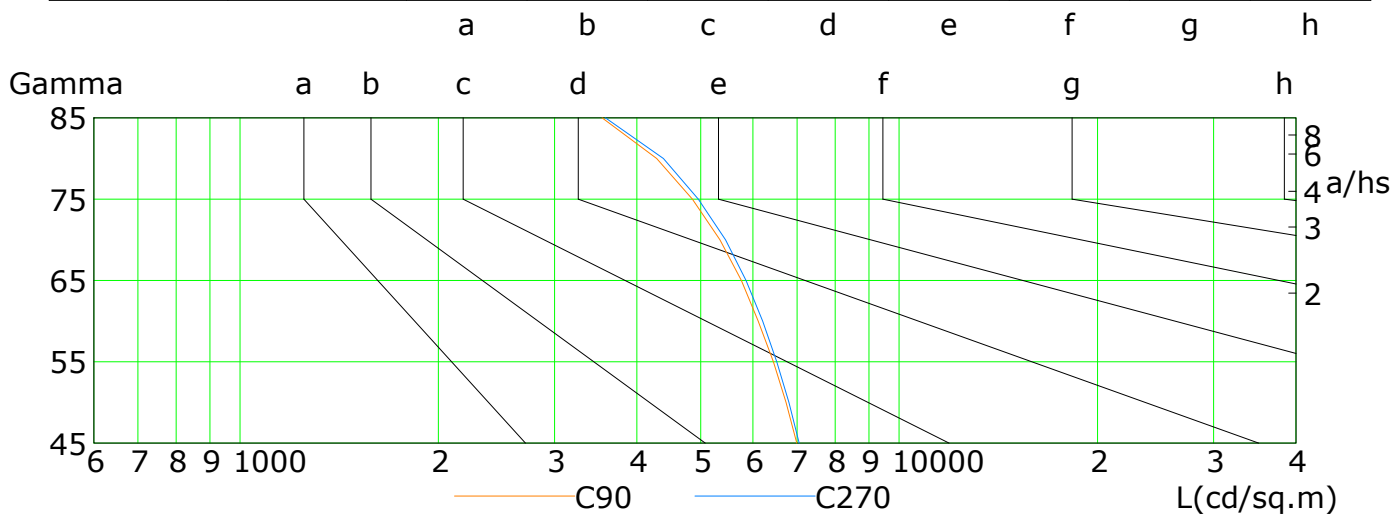


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 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	6344	6103	5868	5628	5402	5188	5004	4851	4759
C90	6995	6734	6446	6113	5762	5348	4857	4288	3542
C180	5857	5581	5303	5024	4758	4505	4274	4070	3924
C270	7053	6806	6522	6208	5858	5453	4959	4390	3584

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

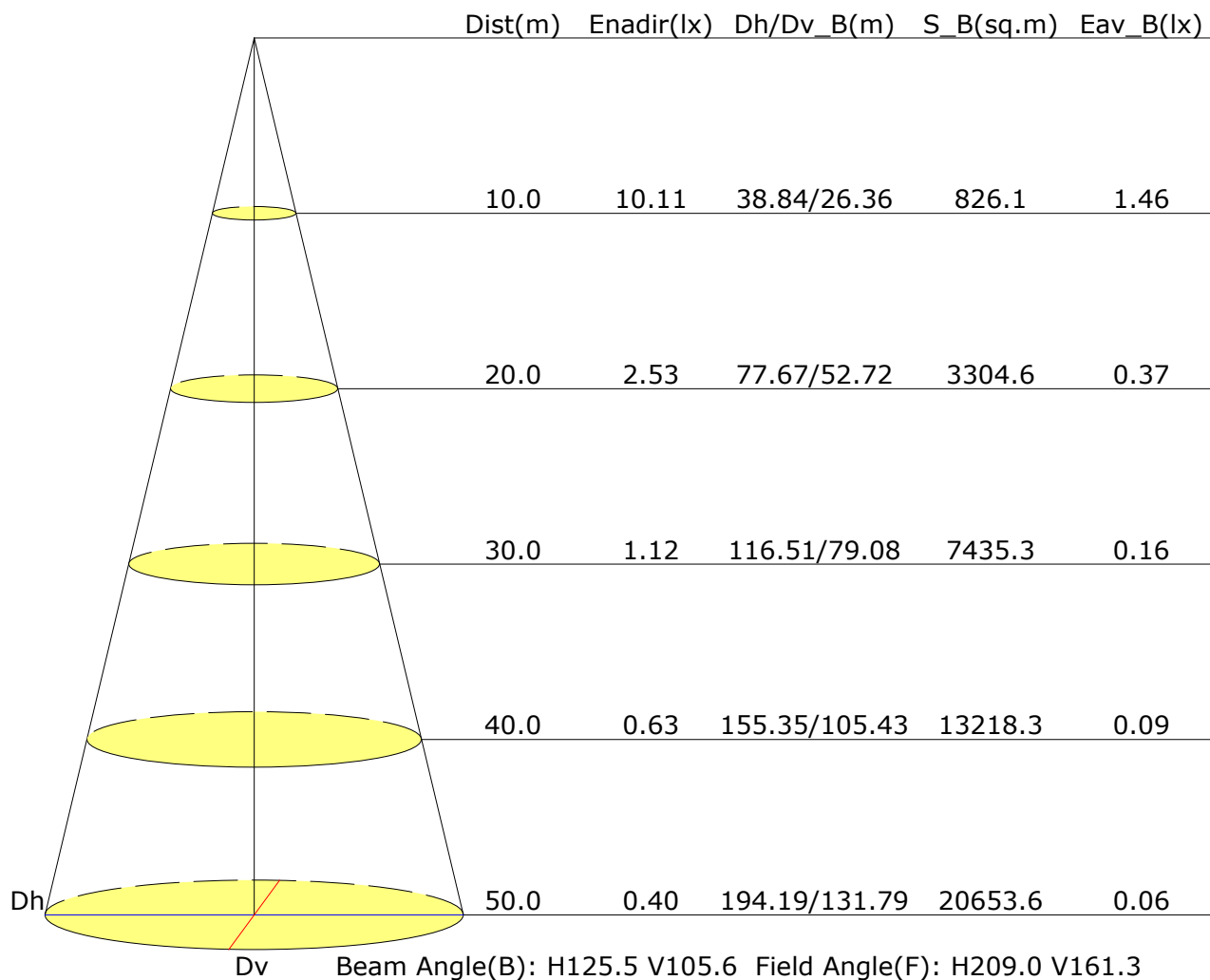
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

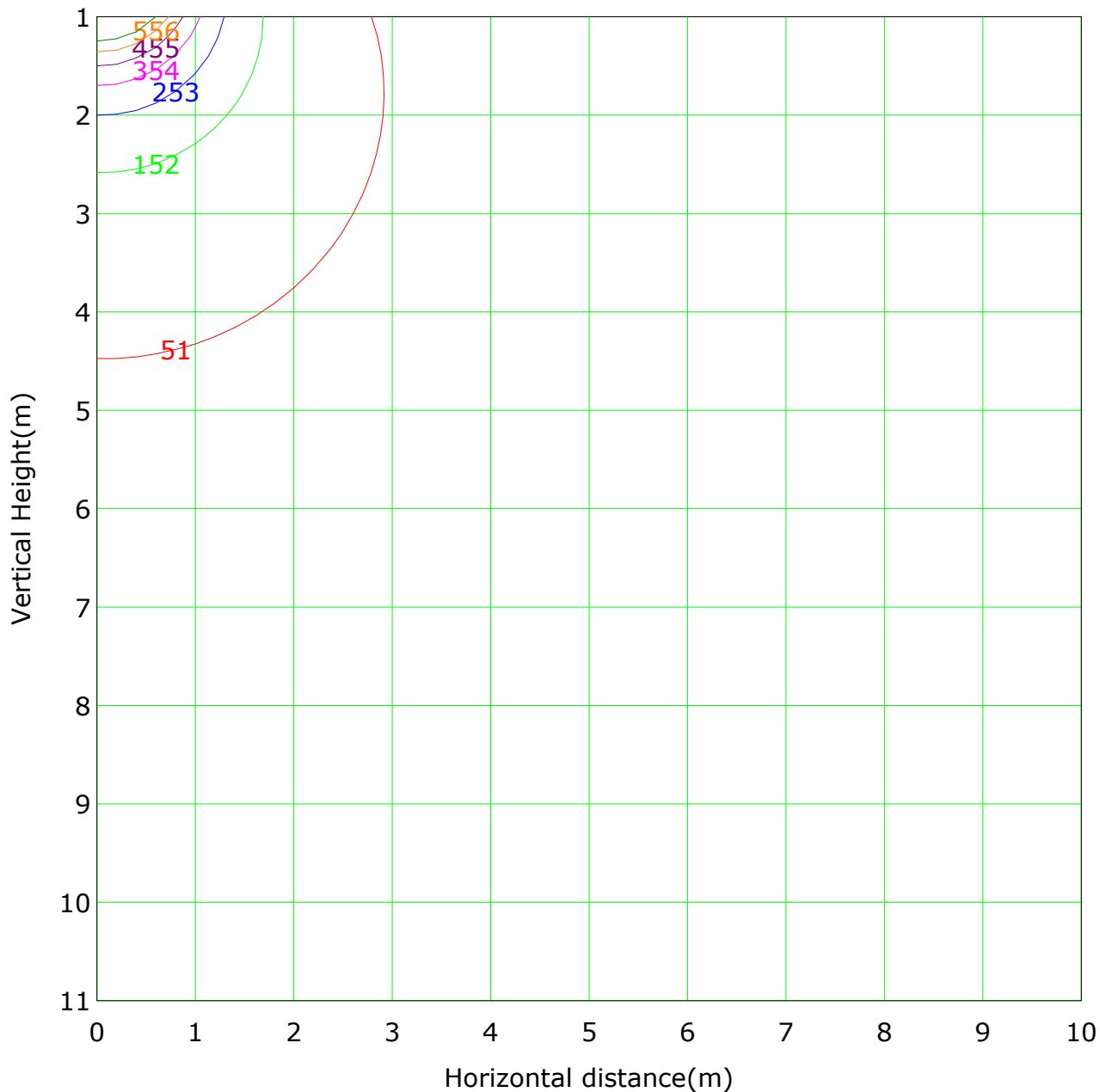
Illuminance at a Distance



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: 9.010 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1011.1 lx

(5%): 50.6 lx	(15%): 151.7 lx
(25%): 252.8 lx	(35%): 353.9 lx
(45%): 455.0 lx	(55%): 556.1 lx
(65%): 657.2 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: 9.010 m
Humidity:
Inspector:

Area Flux Table

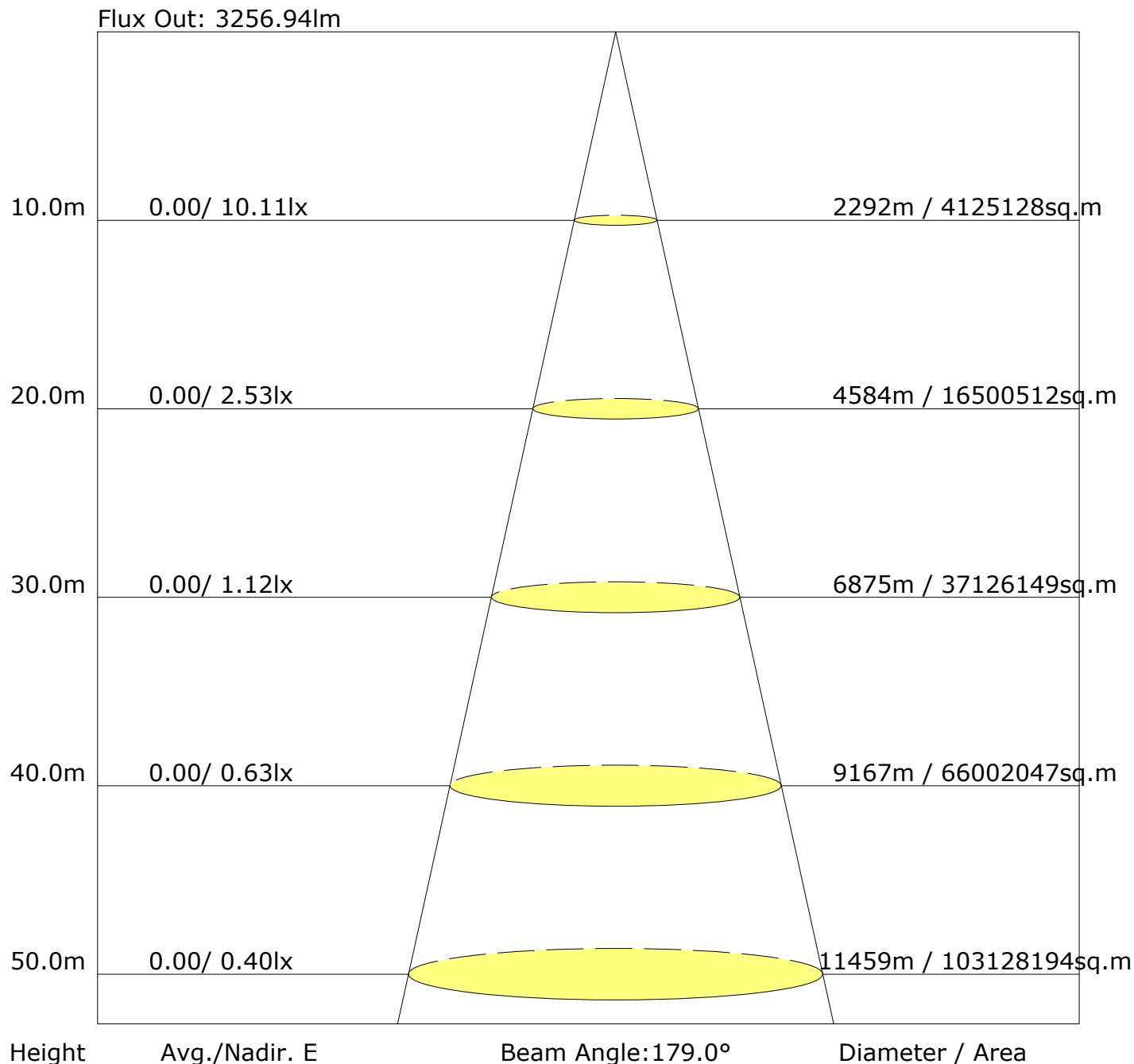
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
10.4	37.9	1.4	1.6	1.8	2.0	2.2	2.3	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.3	2.2	2.0	1.8	1.6	1.4
37.9	75.8	2.3	2.8	3.3	3.9	4.4	4.9	5.3	5.6	5.8	5.9	5.8	5.6	5.2	4.8	4.3	3.8	3.3	2.7	2.3
75.8	122.2	2.9	3.8	4.9	6.0	7.1	8.1	8.9	9.6	9.9	9.9	9.9	9.6	9.5	8.0	7.0	5.9	4.8	3.8	2.8
122.2	172.2	3.2	4.6	6.3	8.2	10.1	11.8	13.2	14.2	14.8	14.8	14.8	14.2	14.2	11.7	10.0	8.1	6.2	4.5	3.1
172.2	222.0	3.1	5.1	7.6	10.3	13.0	15.5	17.6	19.1	19.9	19.9	19.9	19.1	23.5	18.6	15.4	11.9	8.4	5.0	3.0
222.0	262.2	2.9	5.4	8.6	12.1	15.6	18.8	21.6	23.5	24.6	24.6	24.6	23.2	26.8	21.1	17.4	13.4	9.3	5.3	2.8
262.2	294.5	2.5	5.6	9.5	13.6	17.6	21.4	24.5	26.8	28.1	28.1	28.1	26.5	29.8	22.6	18.5	14.1	9.6	5.4	2.4
294.5	311.2	2.0	5.5	9.8	14.3	18.7	22.8	26.2	28.6	30.0	30.0	30.0	28.5	30.2	22.8	18.7	14.3	9.8	5.5	1.9
311.2	314.4	2.1	5.6	9.9	14.4	18.9	22.9	26.4	28.8	30.0	30.2	30.2	28.8	27.4	22.8	18.0	13.9	9.8	5.9	2.0
314.4	303.9	2.8	6.0	9.9	14.0	18.1	21.8	25.0	27.2	28.5	28.7	28.7	27.2	24.4	21.8	16.3	12.7	9.2	6.0	2.8
303.9	276.9	3.3	6.0	9.2	12.8	16.3	19.5	22.2	24.2	25.4	25.5	25.5	24.4	22.4	19.6	16.3	12.7	9.2	6.0	3.3
276.9	237.8	3.6	5.7	8.3	11.1	13.9	16.4	18.5	20.1	21.0	21.1	21.1	20.2	18.7	16.5	13.9	11.1	8.3	5.8	3.6
237.8	189.2	3.7	5.3	7.1	9.0	11.0	12.7	14.2	15.3	16.0	16.0	16.0	15.4	14.3	12.9	11.1	9.1	7.1	5.3	3.7
189.2	137.4	3.4	4.5	5.6	6.8	7.9	9.0	9.8	10.5	11.0	11.0	11.0	10.6	9.9	9.0	8.0	6.8	5.6	4.5	3.5
137.4	87.4	2.7	3.3	3.8	4.4	5.0	5.5	6.0	6.3	6.5	6.5	6.5	6.3	6.0	5.5	5.0	4.5	3.9	3.3	2.8
87.4	44.9	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.0	3.1	3.1	3.1	3.0	2.9	2.7	2.6	2.4	2.2	1.9	1.7
44.9	12.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6
12.6		44.7	73.9	109.0	146.5	183.6	217.7	246.2	266.9	278.8	278.7	278.7	266.4	245.4	216.7	182.5	145.3	107.8	73.2	44.3
	311.1	36.8	73.9	109.0	146.5	183.6	217.7	246.2	266.9	278.8	278.7	278.7	266.4	245.4	216.7	182.5	145.3	107.8	73.2	44.3

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: 9.010 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: 9.010 m
Humidity:
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	18.6	19.9	19.0	20.3	20.7	18.0	19.3	18.4	19.7	20.1
3H	20.4	21.7	20.9	22.1	22.5	19.5	20.7	19.9	21.1	21.5
4H	21.3	22.5	21.8	22.9	23.4	20.1	21.2	20.5	21.6	22.1
6H	22.2	23.3	22.7	23.7	24.2	20.5	21.6	21.0	22.0	22.5
8H	22.6	23.7	23.1	24.1	24.6	20.7	21.7	21.1	22.2	22.7
12H	23.0	24.0	23.5	24.5	24.9	20.8	21.8	21.3	22.2	22.7
X=4H Y=2H	19.2	20.3	19.6	20.7	21.2	18.7	19.9	19.1	20.3	20.7
3H	21.2	22.3	21.7	22.7	23.2	20.4	21.4	20.8	21.8	22.3
4H	22.3	23.2	22.8	23.7	24.2	21.1	22.0	21.6	22.5	23.0
6H	23.3	24.2	23.9	24.7	25.2	21.7	22.5	22.2	23.0	23.6
8H	23.8	24.6	24.4	25.1	25.7	21.9	22.7	22.5	23.2	23.8
12H	24.3	25.0	24.9	25.5	26.1	22.1	22.8	22.7	23.3	23.9
X=8H Y=4H	22.6	23.4	23.1	23.9	24.4	21.5	22.3	22.1	22.8	23.4
6H	23.8	24.5	24.4	25.0	25.6	22.4	23.0	22.9	23.5	24.1
8H	24.5	25.0	25.1	25.6	26.2	22.7	23.2	23.3	23.8	24.4
12H	25.1	25.6	25.7	26.2	26.9	23.0	23.5	23.6	24.0	24.7
X=12H Y=4H	22.6	23.3	23.2	23.8	24.4	21.6	22.3	22.2	22.9	23.4
6H	23.9	24.5	24.5	25.1	25.7	22.5	23.1	23.1	23.6	24.3
8H	24.6	25.1	25.2	25.7	26.4	22.9	23.4	23.5	24.0	24.7
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					+0.3/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3348lm ($8\log(F/F_0) = 4.2$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

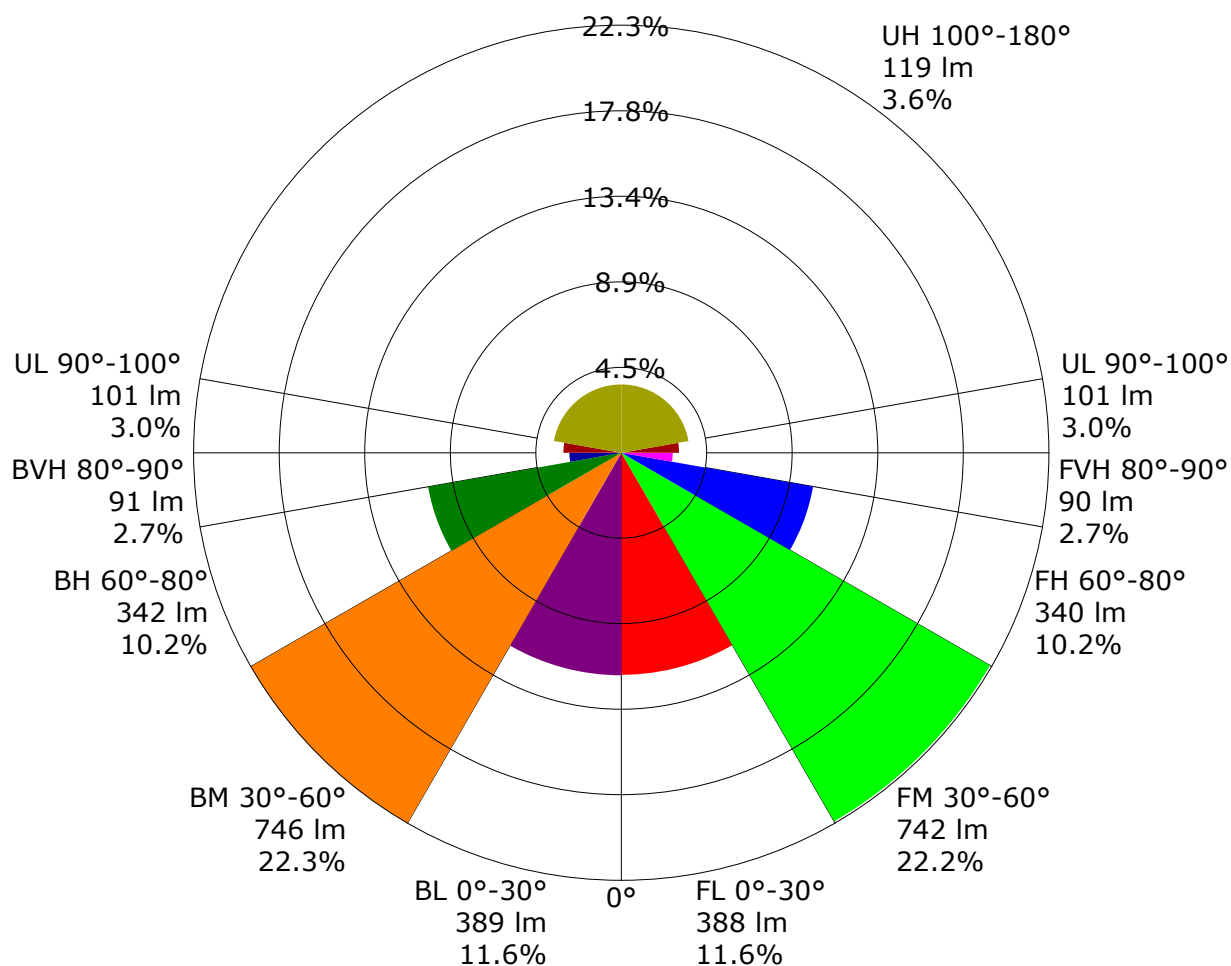
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1560	46.6
	FL (0°-30°)	388	11.6
	FM (30°-60°)	742	22.2
	FH (60°-80°)	340	10.2
	FVH (80°-90°)	90	2.7
	BACK LIGHT	1567	46.8
	BL (0°-30°)	389	11.6
	BM (30°-60°)	746	22.3
	BH (60°-80°)	342	10.2
	BVH (80°-90°)	91	2.7
	UP LIGHT	220	6.6
	UL (90°-100°)	101	3.0
	UH (100°-180°)	119	3.6
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 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: 9.010 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 = 1.25									
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	0.52	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.77	0.82	0.85	0.90	0.93	
	0.30		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.89	
	0.20		0.38	0.47	0.54	0.59	0.67	0.72	0.77	0.82	0.86	
0.30	0.50	0.20	0.48	0.57	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
	0.30		0.42	0.50	0.57	0.62	0.69	0.74	0.77	0.82	0.85	
	0.20		0.37	0.46	0.52	0.57	0.65	0.70	0.74	0.79	0.82	
0.00	0.00	0.00	0.34	0.42	0.49	0.53	0.60	0.65	0.68	0.73	0.76	
Rating:23W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 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	1.03	0.86	0.75	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.51	0.46	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.22	
0.30	0.50	0.20	0.94	0.78	0.67	0.59	0.48	0.41	0.35	0.28	0.23	
	0.30		0.80	0.69	0.60	0.54	0.44	0.38	0.33	0.27	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.36	0.31	0.25	0.22	
0.00	0.00	0.00	0.60	0.51	0.45	0.40	0.34	0.29	0.25	0.20	0.17	
Rating:23W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 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	0.23	0.24	0.25	0.26	0.27	0.27	0.28	0.28	0.28	
	0.30		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	
	0.20		0.11	0.12	0.14	0.15	0.17	0.18	0.20	0.21	0.22	
0.50	0.50	0.20	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.17	0.18	0.19	0.21	0.22	0.22	0.24	0.24	
	0.20		0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	
0.30	0.50	0.20	0.21	0.23	0.23	0.24	0.25	0.25	0.25	0.26	0.26	
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	
	0.20		0.11	0.12	0.13	0.14	0.16	0.18	0.19	0.20	0.21	
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
Rating:23W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1002.4	1.0	1.0	0.03	0.03
1.0-2.0	1002.0	2.9	3.8	0.09	0.11
2.0-3.0	1001.3	4.8	8.6	0.14	0.26
3.0-4.0	1000.2	6.7	15.3	0.20	0.46
4.0-5.0	998.8	8.6	23.9	0.26	0.71
5.0-6.0	996.9	10.5	34.4	0.31	1.03
6.0-7.0	994.6	12.3	46.7	0.37	1.40
7.0-8.0	992.1	14.2	60.9	0.42	1.82
8.0-9.0	989.2	16.0	77.0	0.48	2.30
9.0-10.0	985.9	17.8	94.8	0.53	2.83
10.0-11.0	982.1	19.6	114.4	0.59	3.42
11.0-12.0	978.1	21.4	135.8	0.64	4.06
12.0-13.0	973.9	23.1	158.9	0.69	4.75
13.0-14.0	969.1	24.8	183.8	0.74	5.49
14.0-15.0	963.8	26.5	210.2	0.79	6.28
15.0-16.0	958.2	28.1	238.3	0.84	7.12
16.0-17.0	952.4	29.7	268.0	0.89	8.00
17.0-18.0	946.5	31.2	299.2	0.93	8.94
18.0-19.0	939.9	32.7	331.9	0.98	9.91
19.0-20.0	933.1	34.2	366.0	1.02	10.93
20.0-21.0	926.2	35.6	401.6	1.06	11.99
21.0-22.0	918.7	36.9	438.5	1.10	13.10
22.0-23.0	910.9	38.2	476.8	1.14	14.24
23.0-24.0	902.8	39.5	516.2	1.18	15.42
24.0-25.0	894.4	40.7	556.9	1.21	16.63
25.0-26.0	886.0	41.8	598.7	1.25	17.88
26.0-27.0	877.0	42.9	641.6	1.28	19.16
27.0-28.0	867.7	43.9	685.6	1.31	20.48
28.0-29.0	858.5	44.9	730.5	1.34	21.82
29.0-30.0	848.5	45.8	776.3	1.37	23.19
30.0-31.0	838.4	46.7	823.0	1.39	24.58
31.0-32.0	828.1	47.4	870.4	1.42	26.00
32.0-33.0	817.4	48.2	918.6	1.44	27.44
33.0-34.0	806.8	48.8	967.4	1.46	28.89
34.0-35.0	795.7	49.4	1016.8	1.48	30.37
35.0-36.0	784.3	49.9	1066.8	1.49	31.86

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: 9.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	772.9	50.4	1117.2	1.51	33.37
37.0-38.0	761.2	50.8	1168.0	1.52	34.89
38.0-39.0	749.5	51.2	1219.2	1.53	36.41
39.0-40.0	737.4	51.4	1270.6	1.54	37.95
40.0-41.0	724.9	51.6	1322.2	1.54	39.49
41.0-42.0	713.0	51.8	1374.1	1.55	41.04
42.0-43.0	700.3	51.9	1425.9	1.55	42.59
43.0-44.0	687.5	51.9	1477.8	1.55	44.14
44.0-45.0	674.7	51.9	1529.7	1.55	45.69
45.0-46.0	661.6	51.8	1581.4	1.55	47.23
46.0-47.0	648.7	51.6	1633.1	1.54	48.78
47.0-48.0	635.4	51.4	1684.4	1.53	50.31
48.0-49.0	621.9	51.1	1735.5	1.53	51.84
49.0-50.0	609.0	50.8	1786.3	1.52	53.35
50.0-51.0	595.4	50.4	1836.7	1.50	54.86
51.0-52.0	581.8	49.9	1886.6	1.49	56.35
52.0-53.0	568.4	49.4	1936.0	1.48	57.83
53.0-54.0	554.6	48.9	1984.9	1.46	59.29
54.0-55.0	541.2	48.3	2033.2	1.44	60.73
55.0-56.0	527.3	47.7	2080.9	1.42	62.15
56.0-57.0	513.5	47.0	2127.9	1.40	63.55
57.0-58.0	500.2	46.3	2174.1	1.38	64.94
58.0-59.0	486.2	45.5	2219.6	1.36	66.29
59.0-60.0	472.4	44.6	2264.2	1.33	67.63
60.0-61.0	458.6	43.8	2308.0	1.31	68.93
61.0-62.0	444.9	42.9	2350.9	1.28	70.22
62.0-63.0	431.9	42.0	2392.9	1.25	71.47
63.0-64.0	418.3	41.0	2433.9	1.23	72.70
64.0-65.0	404.7	40.1	2474.0	1.20	73.89
65.0-66.0	391.8	39.1	2513.1	1.17	75.06
66.0-67.0	378.5	38.1	2551.1	1.14	76.20
67.0-68.0	365.3	37.0	2588.2	1.11	77.30
68.0-69.0	352.2	35.9	2624.1	1.07	78.38
69.0-70.0	339.1	34.8	2658.9	1.04	79.42
70.0-71.0	326.8	33.8	2692.7	1.01	80.43
71.0-72.0	314.1	32.7	2725.4	0.98	81.40

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: 9.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	301.6	31.5	2756.9	0.94	82.34
73.0-74.0	289.8	30.5	2787.4	0.91	83.25
74.0-75.0	277.6	29.3	2816.7	0.88	84.13
75.0-76.0	265.6	28.2	2844.9	0.84	84.97
76.0-77.0	253.9	27.1	2872.0	0.81	85.78
77.0-78.0	242.3	25.9	2897.9	0.77	86.56
78.0-79.0	231.5	24.9	2922.8	0.74	87.30
79.0-80.0	220.4	23.8	2946.6	0.71	88.01
80.0-81.0	209.6	22.7	2969.2	0.68	88.69
81.0-82.0	199.2	21.6	2990.8	0.65	89.33
82.0-83.0	189.0	20.5	3011.4	0.61	89.94
83.0-84.0	179.2	19.5	3030.9	0.58	90.53
84.0-85.0	169.5	18.5	3049.4	0.55	91.08
85.0-86.0	160.1	17.5	3066.9	0.52	91.60
86.0-87.0	151.3	16.6	3083.5	0.49	92.10
87.0-88.0	142.5	15.6	3099.1	0.47	92.56
88.0-89.0	133.9	14.7	3113.8	0.44	93.00
89.0-90.0	126.1	13.8	3127.6	0.41	93.42
90.0-91.0	119.0	13.0	3140.7	0.39	93.80
91.0-92.0	112.5	12.3	3153.0	0.37	94.17
92.0-93.0	106.2	11.6	3164.6	0.35	94.52
93.0-94.0	100.0	10.9	3175.6	0.33	94.85
94.0-95.0	94.3	10.3	3185.9	0.31	95.16
95.0-96.0	88.7	9.7	3195.6	0.29	95.45
96.0-97.0	83.3	9.1	3204.6	0.27	95.72
97.0-98.0	78.4	8.5	3213.2	0.25	95.97
98.0-99.0	73.7	8.0	3221.2	0.24	96.21
99.0-100.0	69.3	7.5	3228.7	0.22	96.43
100.0-101.0	64.9	7.0	3235.7	0.21	96.64
101.0-102.0	60.8	6.5	3242.2	0.20	96.84
102.0-103.0	57.2	6.1	3248.3	0.18	97.02
103.0-104.0	53.8	5.7	3254.1	0.17	97.19
104.0-105.0	50.6	5.4	3259.4	0.16	97.35
105.0-106.0	47.6	5.0	3264.5	0.15	97.50
106.0-107.0	44.7	4.7	3269.2	0.14	97.64
107.0-108.0	42.0	4.4	3273.6	0.13	97.77

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: 9.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	39.3	4.1	3277.6	0.12	97.90
109.0-110.0	36.8	3.8	3281.4	0.11	98.01
110.0-111.0	34.5	3.5	3285.0	0.11	98.12
111.0-112.0	32.3	3.3	3288.3	0.10	98.21
112.0-113.0	30.1	3.1	3291.3	0.09	98.31
113.0-114.0	28.1	2.8	3294.1	0.08	98.39
114.0-115.0	26.3	2.6	3296.8	0.08	98.47
115.0-116.0	24.6	2.4	3299.2	0.07	98.54
116.0-117.0	23.1	2.3	3301.5	0.07	98.61
117.0-118.0	21.6	2.1	3303.6	0.06	98.67
118.0-119.0	20.4	2.0	3305.5	0.06	98.73
119.0-120.0	19.1	1.8	3307.4	0.05	98.78
120.0-121.0	17.9	1.7	3309.1	0.05	98.83
121.0-122.0	16.8	1.6	3310.6	0.05	98.88
122.0-123.0	15.8	1.5	3312.1	0.04	98.93
123.0-124.0	14.9	1.4	3313.5	0.04	98.97
124.0-125.0	14.1	1.3	3314.7	0.04	99.00
125.0-126.0	13.5	1.2	3315.9	0.04	99.04
126.0-127.0	12.9	1.1	3317.1	0.03	99.07
127.0-128.0	12.4	1.1	3318.2	0.03	99.11
128.0-129.0	12.0	1.0	3319.2	0.03	99.14
129.0-130.0	11.7	1.0	3320.2	0.03	99.17
130.0-131.0	11.6	1.0	3321.1	0.03	99.20
131.0-132.0	11.5	0.9	3322.1	0.03	99.22
132.0-133.0	11.4	0.9	3323.0	0.03	99.25
133.0-134.0	11.4	0.9	3323.9	0.03	99.28
134.0-135.0	11.4	0.9	3324.8	0.03	99.31
135.0-136.0	11.5	0.9	3325.7	0.03	99.33
136.0-137.0	11.6	0.9	3326.6	0.03	99.36
137.0-138.0	11.7	0.9	3327.4	0.03	99.38
138.0-139.0	11.8	0.9	3328.3	0.03	99.41
139.0-140.0	11.8	0.8	3329.1	0.03	99.43
140.0-141.0	11.9	0.8	3330.0	0.02	99.46
141.0-142.0	12.0	0.8	3330.8	0.02	99.48
142.0-143.0	12.1	0.8	3331.6	0.02	99.51
143.0-144.0	12.2	0.8	3332.4	0.02	99.53

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: 9.010 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	12.2	0.8	3333.2	0.02	99.56
145.0-146.0	12.3	0.8	3333.9	0.02	99.58
146.0-147.0	12.4	0.8	3334.7	0.02	99.60
147.0-148.0	12.5	0.7	3335.4	0.02	99.62
148.0-149.0	12.6	0.7	3336.1	0.02	99.64
149.0-150.0	12.6	0.7	3336.8	0.02	99.67
150.0-151.0	12.7	0.7	3337.5	0.02	99.69
151.0-152.0	12.8	0.7	3338.2	0.02	99.71
152.0-153.0	12.8	0.6	3338.9	0.02	99.72
153.0-154.0	12.9	0.6	3339.5	0.02	99.74
154.0-155.0	13.0	0.6	3340.1	0.02	99.76
155.0-156.0	13.0	0.6	3340.7	0.02	99.78
156.0-157.0	13.1	0.6	3341.3	0.02	99.80
157.0-158.0	13.2	0.6	3341.8	0.02	99.81
158.0-159.0	13.2	0.5	3342.3	0.02	99.83
159.0-160.0	13.3	0.5	3342.9	0.02	99.84
160.0-161.0	13.4	0.5	3343.4	0.01	99.86
161.0-162.0	13.4	0.5	3343.8	0.01	99.87
162.0-163.0	13.5	0.4	3344.3	0.01	99.89
163.0-164.0	13.6	0.4	3344.7	0.01	99.90
164.0-165.0	13.6	0.4	3345.1	0.01	99.91
165.0-166.0	13.6	0.4	3345.5	0.01	99.92
166.0-167.0	13.7	0.4	3345.8	0.01	99.93
167.0-168.0	13.8	0.3	3346.1	0.01	99.94
168.0-169.0	13.8	0.3	3346.4	0.01	99.95
169.0-170.0	13.9	0.3	3346.7	0.01	99.96
170.0-171.0	14.0	0.3	3347.0	0.01	99.97
171.0-172.0	14.0	0.2	3347.2	0.01	99.97
172.0-173.0	14.1	0.2	3347.4	0.01	99.98
173.0-174.0	14.2	0.2	3347.6	0.01	99.99
174.0-175.0	14.2	0.1	3347.7	0.00	99.99
175.0-176.0	14.3	0.1	3347.8	0.00	99.99
176.0-177.0	14.3	0.1	3347.9	0.00	100.00
177.0-178.0	14.3	0.1	3348.0	0.00	100.00
178.0-179.0	14.3	0.0	3348.1	0.00	100.00
179.0-180.0	14.4	0.0	3348.1	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: 9.010 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1529.70 lm

%lum = 45.7%

%lamp = 45.7%

cone flux(120°): 2264.22 lm

%lum = 67.6%

%lamp = 67.6%

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	1011.1	1007.3	1003.3	1000.3	997.6	995.7	1011.1	1007.3	1003.3	1000.3
G1.0	1011.7	1007.5	1003.4	1000.1	996.8	994.6	1010.4	1006.3	1002.6	1000.1
G2.0	1012.3	1007.1	1003.0	999.3	996.1	993.5	1008.9	1004.9	1001.8	999.7
G3.0	1012.9	1006.8	1002.1	998.0	994.5	992.2	1007.7	1003.2	1000.5	998.8
G4.0	1012.5	1006.4	1000.9	996.2	992.7	990.3	1005.8	1001.3	998.6	997.6
G5.0	1011.6	1005.9	999.4	994.4	990.6	988.3	1003.8	999.4	996.7	996.0
G6.0	1010.3	1004.4	997.6	991.6	987.5	985.6	1001.4	997.0	994.0	993.1
G7.0	1009.2	1002.8	995.4	988.3	984.6	982.9	998.6	994.2	991.1	990.4
G8.0	1007.9	1000.9	992.4	985.4	981.6	980.3	995.3	991.2	987.9	987.2
G9.0	1006.3	998.6	989.3	981.6	977.3	976.5	992.0	987.9	984.4	983.5
G10.0	1004.0	996.1	986.0	977.3	973.0	972.6	988.7	984.0	980.4	979.7
G11.0	1001.3	993.3	981.7	972.2	968.1	968.9	984.2	979.9	975.8	975.0
G12.0	999.0	990.2	977.7	967.2	963.3	964.2	980.6	975.7	970.9	970.0
G13.0	995.8	986.4	973.1	961.8	958.4	959.9	976.0	971.0	966.2	965.0
G14.0	992.4	982.6	967.5	955.3	952.1	954.7	970.6	966.0	959.7	959.1
G15.0	988.6	978.4	962.1	949.2	945.9	949.5	965.6	960.5	954.0	952.8
G16.0	984.6	973.2	955.9	942.2	939.4	943.1	959.7	954.6	946.8	946.3
G17.0	980.1	968.7	949.9	935.4	932.6	937.4	954.2	949.0	940.8	939.2
G18.0	976.1	963.2	944.0	927.8	925.5	931.2	948.7	942.8	934.0	932.3
G19.0	970.9	958.0	936.4	920.1	916.9	924.2	942.0	935.9	925.6	924.4
G20.0	966.2	952.3	929.2	912.0	909.6	917.8	935.8	929.1	918.7	916.1
G21.0	960.9	946.8	921.5	903.4	901.7	910.5	929.1	922.3	910.6	908.3
G22.0	954.7	939.8	913.4	893.9	893.0	902.4	921.9	914.7	901.5	898.5
G23.0	949.3	933.0	905.4	884.7	884.5	895.4	914.8	907.0	893.0	890.2
G24.0	942.6	925.5	896.1	874.8	874.1	887.0	906.8	898.5	883.7	880.3
G25.0	936.0	918.4	887.7	865.7	864.9	878.9	899.4	890.5	874.4	870.5
G26.0	929.3	911.6	878.6	855.4	855.7	870.7	891.8	882.4	865.1	860.9
G27.0	922.0	903.4	868.3	844.5	844.8	861.3	883.1	872.4	854.1	849.9
G28.0	915.1	894.9	859.5	834.2	835.3	852.4	874.8	863.5	844.4	838.9
G29.0	908.2	887.1	849.3	823.1	824.3	843.5	866.4	853.9	834.2	828.4
G30.0	899.7	877.6	838.1	810.6	812.8	833.5	856.7	844.2	822.2	816.7
G31.0	891.3	869.1	827.7	799.5	802.3	823.9	848.0	835.2	811.7	805.3
G32.0	882.8	859.1	816.5	786.8	789.8	813.4	838.3	824.0	800.1	792.9
G33.0	874.5	849.8	805.7	774.8	778.7	803.3	828.6	813.9	788.2	780.9
G34.0	865.8	840.5	794.2	763.0	767.2	793.4	818.7	804.0	776.2	768.5
G35.0	856.6	830.1	782.1	749.5	754.7	781.9	808.0	792.4	763.7	755.2
G36.0	847.2	820.3	770.1	737.2	742.3	771.9	797.6	781.9	751.4	743.0

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: 9.010 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	838.4	810.5	758.4	724.1	730.4	760.7	786.6	769.6	738.5	728.7
G38.0	828.0	799.5	745.6	710.2	716.7	749.2	776.0	758.8	726.0	716.5
G39.0	818.5	788.8	733.5	697.0	704.5	737.7	765.3	748.1	713.8	703.1
G40.0	807.7	777.4	719.9	683.0	690.3	725.5	753.5	735.3	700.3	689.1
G41.0	797.1	766.2	707.1	669.2	677.6	713.9	742.8	724.2	687.0	675.4
G42.0	787.2	755.3	694.9	656.1	664.6	702.5	732.1	712.0	674.0	662.1
G43.0	775.6	743.2	681.1	640.9	650.6	690.2	719.4	699.4	659.4	646.9
G44.0	764.6	731.6	667.6	627.3	637.4	677.9	707.9	687.8	646.5	633.3
G45.0	753.6	720.5	654.4	613.3	623.9	666.0	695.7	674.0	632.3	618.4
G46.0	742.1	707.4	640.4	598.3	609.5	653.0	683.9	662.1	618.5	604.0
G47.0	731.3	695.6	627.5	583.9	596.2	640.5	672.1	649.4	605.4	590.2
G48.0	718.5	683.1	612.6	568.5	581.3	627.5	659.5	636.3	590.3	574.4
G49.0	707.2	670.7	599.3	554.1	568.1	614.5	647.8	623.5	576.3	560.4
G50.0	695.2	658.3	585.5	540.1	554.2	602.7	635.7	611.2	563.0	545.8
G51.0	683.0	645.5	570.6	524.2	539.5	588.9	622.5	597.3	548.1	530.1
G52.0	670.8	632.7	557.3	510.1	525.4	576.4	610.6	585.2	534.0	515.8
G53.0	658.8	620.7	543.6	495.3	512.2	564.3	597.8	571.0	518.9	499.3
G54.0	646.3	606.9	528.9	479.2	497.0	550.3	585.3	558.9	504.8	485.1
G55.0	634.6	594.7	514.8	464.8	482.8	538.3	573.5	546.7	491.1	470.3
G56.0	621.3	580.6	500.0	448.2	467.9	524.7	559.9	532.4	476.2	454.4
G57.0	609.2	568.3	486.0	434.1	454.4	512.3	548.1	520.1	461.8	439.3
G58.0	596.9	555.0	472.0	419.3	439.7	499.4	535.9	507.4	447.7	424.8
G59.0	583.4	541.8	456.8	403.0	425.3	485.8	522.7	493.4	432.9	408.4
G60.0	571.6	529.1	443.3	388.0	411.2	473.8	510.2	481.2	418.8	394.0
G61.0	558.1	515.9	428.0	372.5	395.8	460.0	497.3	467.8	403.8	377.6
G62.0	546.4	503.3	414.8	357.7	382.6	448.1	485.6	455.0	390.5	363.1
G63.0	534.3	490.6	400.8	343.4	368.8	435.8	473.2	442.9	376.2	348.8
G64.0	521.3	477.3	386.5	327.3	354.6	422.8	460.5	429.9	361.8	332.4
G65.0	508.9	465.4	372.6	313.1	340.9	410.4	448.2	417.5	348.3	318.3
G66.0	497.1	453.0	358.9	298.4	328.4	398.5	436.6	405.6	335.4	303.4
G67.0	483.8	439.5	344.8	283.3	313.9	385.9	424.1	392.6	321.5	288.0
G68.0	472.2	427.8	332.2	268.8	301.5	374.0	412.2	381.0	308.2	274.0
G69.0	459.0	415.0	317.6	253.9	287.6	361.5	399.6	367.7	294.6	258.1
G70.0	446.9	402.8	304.8	239.6	275.5	350.1	388.1	356.4	281.6	244.3
G71.0	435.4	390.9	292.7	225.5	263.1	338.4	376.9	345.3	269.6	230.0
G72.0	422.3	378.4	279.0	211.1	249.7	326.6	364.4	332.6	256.1	215.1
G73.0	411.2	366.5	267.2	197.3	238.2	315.4	353.7	321.8	244.3	201.0

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: 9.010 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	399.6	355.4	254.9	184.3	226.5	304.8	342.5	310.6	232.4	188.2
G75.0	387.4	342.8	242.4	169.6	214.3	293.5	330.9	298.4	220.1	173.2
G76.0	375.8	331.4	230.8	157.6	203.1	282.8	320.1	288.1	208.5	160.6
G77.0	364.1	319.7	218.9	143.6	191.6	271.6	309.1	276.4	196.9	146.2
G78.0	352.9	308.6	207.8	131.5	180.9	261.6	298.4	266.5	186.0	134.1
G79.0	342.4	298.2	197.1	119.3	171.0	251.6	288.5	256.3	176.0	121.6
G80.0	330.4	286.7	185.7	106.2	160.2	241.3	277.2	245.8	164.8	108.8
G81.0	319.7	276.6	175.2	95.2	150.5	231.5	267.7	236.1	155.2	96.8
G82.0	309.4	266.3	165.6	84.3	141.4	221.9	257.0	225.9	144.7	84.5
G83.0	298.3	255.6	155.1	72.5	131.7	212.3	247.9	216.4	136.1	73.5
G84.0	288.4	245.5	146.0	61.8	123.4	203.6	238.4	207.5	127.2	63.1
G85.0	277.4	235.4	136.0	51.2	114.4	194.2	228.7	197.9	118.5	51.8
G86.0	267.9	225.9	127.8	41.8	106.7	185.6	219.7	189.5	110.4	41.8
G87.0	258.2	216.7	119.4	32.3	99.2	177.4	210.6	181.1	102.9	32.6
G88.0	248.2	206.8	110.9	22.4	91.5	168.8	201.8	172.2	94.7	23.1
G89.0	238.8	198.0	102.8	14.6	84.2	161.0	193.2	164.1	87.9	14.9
G90.0	229.9	188.9	95.5	9.8	78.3	153.2	184.5	155.8	80.7	10.0
G91.0	220.0	179.8	87.2	9.2	71.7	145.3	176.8	148.2	74.4	9.6
G92.0	211.4	171.2	80.4	8.7	65.7	138.3	169.1	141.1	68.4	9.1
G93.0	202.0	162.6	73.0	8.1	59.7	130.6	160.9	133.0	62.3	8.6
G94.0	193.1	154.2	67.0	7.6	54.3	124.0	153.3	126.6	56.9	8.1
G95.0	184.5	146.7	61.1	7.2	49.4	117.3	146.6	119.9	52.0	7.7
G96.0	176.0	138.3	55.2	6.7	44.5	110.7	139.0	113.1	46.7	7.3
G97.0	168.0	131.4	50.5	6.2	40.7	104.4	132.0	106.8	42.1	6.9
G98.0	160.5	124.4	46.4	5.8	37.1	98.4	125.2	100.2	38.6	6.7
G99.0	152.3	116.8	42.0	5.6	33.2	92.4	118.8	94.4	35.2	6.4
G100.0	145.3	110.6	38.8	5.3	30.3	87.0	112.9	89.0	32.1	6.2
G101.0	137.4	104.5	35.1	5.0	24.9	81.5	106.2	83.7	28.9	6.0
G102.0	130.9	99.1	32.1	4.9	22.5	76.6	100.6	78.4	26.1	5.8
G103.0	124.6	94.1	29.2	4.9	20.7	72.1	95.0	74.0	23.4	5.7
G104.0	118.3	89.0	26.5	4.9	19.4	67.4	89.4	69.0	20.8	5.7
G105.0	112.9	84.3	24.4	5.1	17.1	63.4	84.4	65.0	19.0	5.7
G106.0	106.9	79.8	22.0	5.2	15.3	59.1	79.7	60.6	16.8	5.7
G107.0	102.0	75.4	20.3	5.4	13.7	55.4	75.4	56.9	15.1	5.9
G108.0	96.7	71.4	18.5	5.5	12.2	51.9	71.1	53.2	13.4	6.0
G109.0	91.6	67.0	16.8	5.6	10.5	48.4	66.7	49.1	11.6	6.1
G110.0	86.6	63.2	15.1	5.8	9.2	45.0	62.7	45.4	10.2	6.2

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: 9.010 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	82.4	59.4	13.7	6.0	8.4	42.0	59.1	41.9	9.2	6.5
G112.0	77.4	55.7	12.0	6.1	8.3	38.6	55.0	38.8	8.9	6.5
G113.0	73.2	52.2	10.8	6.2	8.3	34.7	51.5	34.8	8.9	6.7
G114.0	68.9	48.8	9.7	6.4	8.4	31.4	47.8	30.5	9.0	6.9
G115.0	64.9	45.6	8.8	6.5	8.4	28.5	44.3	28.4	9.1	7.0
G116.0	61.1	42.2	8.3	6.7	8.6	24.9	41.5	26.0	9.1	7.2
G117.0	57.2	38.4	8.3	6.8	8.7	22.8	38.0	24.2	9.2	7.3
G118.0	53.7	35.2	8.4	7.0	8.7	21.3	35.3	22.2	9.3	7.5
G119.0	50.5	32.3	8.5	7.1	8.8	19.2	32.4	20.2	9.3	7.6
G120.0	46.7	29.6	8.7	7.3	8.9	17.4	29.5	18.1	9.4	7.9
G121.0	43.4	27.3	8.8	7.5	9.0	15.8	27.0	16.3	9.6	7.9
G122.0	40.3	25.0	8.9	7.6	9.2	14.1	24.2	14.7	9.6	8.1
G123.0	37.4	22.9	9.1	7.8	9.2	12.8	21.8	13.2	9.8	8.3
G124.0	34.5	20.7	9.2	7.9	9.3	11.8	19.8	12.3	9.8	8.4
G125.0	31.7	18.9	9.3	8.0	9.3	11.5	17.7	12.1	9.9	8.6
G126.0	29.1	17.1	9.5	8.3	9.4	11.6	15.9	12.1	10.0	8.8
G127.0	26.6	15.6	9.6	8.4	9.5	11.5	14.2	12.1	10.1	8.9
G128.0	24.0	13.8	9.7	8.6	9.6	11.6	13.4	12.1	10.1	9.1
G129.0	21.8	12.7	9.8	8.8	9.7	11.7	13.3	12.2	10.3	9.2
G130.0	19.6	11.9	10.0	9.0	9.8	11.7	13.3	12.3	10.4	9.3
G131.0	17.7	11.7	10.1	9.1	9.9	11.7	13.4	12.4	10.5	9.5
G132.0	15.8	11.8	10.1	9.2	10.1	11.8	13.4	12.4	10.5	9.7
G133.0	14.1	11.8	10.3	9.5	10.1	11.9	13.3	12.4	10.7	9.8
G134.0	13.2	11.9	10.4	9.6	10.1	12.0	13.5	12.5	10.8	10.0
G135.0	13.1	11.9	10.5	9.8	10.4	12.0	13.5	12.5	10.8	10.1
G136.0	13.1	12.1	10.6	10.0	10.4	12.0	13.4	12.6	10.9	10.2
G137.0	13.1	12.1	10.6	10.1	10.5	12.0	13.5	12.7	11.0	10.3
G138.0	13.1	12.2	10.8	10.3	10.7	12.1	13.5	12.7	11.1	10.5
G139.0	13.1	12.2	10.9	10.3	10.7	12.2	13.6	12.8	11.2	10.6
G140.0	13.2	12.3	11.0	10.4	10.9	12.3	13.6	12.8	11.2	10.8
G141.0	13.2	12.4	11.1	10.6	11.0	12.3	13.6	12.8	11.3	10.9
G142.0	13.2	12.5	11.3	10.7	11.1	12.4	13.6	12.9	11.5	11.1
G143.0	13.2	12.5	11.4	10.9	11.2	12.4	13.5	12.9	11.6	11.2
G144.0	13.3	12.6	11.6	11.1	11.3	12.4	13.6	13.0	11.6	11.3
G145.0	13.3	12.7	11.6	11.2	11.4	12.5	13.5	13.0	11.7	11.5
G146.0	13.4	12.7	11.7	11.4	11.5	12.5	13.7	13.1	11.8	11.5
G147.0	13.4	12.8	11.9	11.5	11.6	12.5	13.6	13.0	11.9	11.7

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: 9.010 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	13.5	12.9	12.0	11.6	11.7	12.7	13.6	13.2	12.1	11.9
G149.0	13.5	13.0	12.0	11.8	11.8	12.7	13.6	13.1	12.1	12.0
G150.0	13.5	13.1	12.2	11.9	12.0	12.7	13.6	13.1	12.2	12.1
G151.0	13.6	13.0	12.2	12.0	12.1	12.7	13.5	13.2	12.4	12.3
G152.0	13.5	13.0	12.5	12.1	12.1	12.7	13.6	13.2	12.5	12.4
G153.0	13.6	13.1	12.5	12.2	12.3	12.7	13.6	13.1	12.6	12.5
G154.0	13.6	13.2	12.6	12.4	12.4	12.7	13.7	13.2	12.8	12.6
G155.0	13.7	13.2	12.8	12.5	12.5	12.7	13.6	13.1	12.9	12.7
G156.0	13.7	13.2	12.9	12.6	12.6	12.8	13.6	13.2	12.9	12.9
G157.0	13.7	13.3	12.9	12.7	12.7	12.9	13.6	13.0	13.0	13.0
G158.0	13.7	13.3	13.0	12.8	12.8	12.8	13.7	13.2	13.1	13.1
G159.0	13.7	13.5	13.1	12.9	12.9	13.0	13.6	13.3	13.3	13.2
G160.0	13.7	13.4	13.1	12.9	13.0	13.0	13.6	13.3	13.4	13.3
G161.0	13.7	13.5	13.3	13.1	13.1	13.1	13.6	13.3	13.5	13.5
G162.0	13.7	13.6	13.4	13.2	13.1	13.2	13.6	13.4	13.7	13.5
G163.0	13.6	13.6	13.4	13.3	13.3	13.3	13.7	13.6	13.7	13.5
G164.0	13.7	13.6	13.5	13.5	13.4	13.3	13.7	13.6	13.7	13.5
G165.0	13.7	13.6	13.7	13.5	13.5	13.4	13.7	13.6	13.7	13.5
G166.0	13.8	13.6	13.7	13.5	13.5	13.6	13.8	13.6	13.7	13.7
G167.0	13.8	13.6	13.7	13.6	13.7	13.7	13.9	13.6	13.9	13.7
G168.0	13.9	13.7	13.8	13.5	13.7	13.7	14.0	13.8	14.0	13.8
G169.0	14.0	13.8	13.7	13.7	13.8	13.7	13.9	13.9	14.1	14.0
G170.0	14.0	13.9	13.9	13.8	13.9	13.7	14.2	14.0	14.2	14.0
G171.0	14.0	13.9	14.0	13.9	13.9	13.7	14.2	14.0	14.3	14.0
G172.0	14.2	13.9	14.0	14.0	14.1	13.9	14.2	14.2	14.3	14.1
G173.0	14.2	14.0	14.1	14.0	14.2	13.9	14.4	14.2	14.4	14.1
G174.0	14.3	14.1	14.2	14.1	14.3	14.1	14.4	14.4	14.4	14.2
G175.0	14.3	14.2	14.1	14.1	14.3	14.2	14.6	14.4	14.4	14.2
G176.0	14.3	14.1	14.3	14.1	14.3	14.3	14.6	14.5	14.5	14.2
G177.0	14.4	14.2	14.3	14.2	14.3	14.2	14.6	14.5	14.5	14.3
G178.0	14.4	14.2	14.3	14.2	14.3	14.3	14.7	14.5	14.4	14.3
G179.0	14.5	14.3	14.3	14.3	14.3	14.3	14.6	14.4	14.4	14.3
G180.0	14.6	14.3	14.4	14.2	14.3	14.3	14.6	14.4	14.4	14.3

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	997.6	995.7	1011.1							
G1.0	998.2	996.1	1011.7							
G2.0	997.8	996.0	1012.3							
G3.0	997.7	996.2	1012.9							
G4.0	996.7	995.8	1012.5							
G5.0	995.3	994.9	1011.6							
G6.0	993.2	993.5	1010.3							
G7.0	991.2	992.0	1009.2							
G8.0	988.6	990.1	1007.9							
G9.0	985.9	987.8	1006.3							
G10.0	982.1	985.6	1004.0							
G11.0	978.5	982.9	1001.3							
G12.0	974.4	979.7	999.0							
G13.0	970.1	976.4	995.8							
G14.0	964.8	972.4	992.4							
G15.0	959.7	968.6	988.6							
G16.0	953.2	963.8	984.6							
G17.0	948.0	958.9	980.1							
G18.0	941.1	954.1	976.1							
G19.0	934.0	948.2	970.9							
G20.0	927.5	942.9	966.2							
G21.0	920.1	937.3	960.9							
G22.0	912.1	930.3	954.7							
G23.0	904.5	924.0	949.3							
G24.0	895.5	916.7	942.6							
G25.0	886.8	909.7	936.0							
G26.0	878.3	902.5	929.3							
G27.0	867.8	894.2	922.0							
G28.0	858.6	886.0	915.1							
G29.0	848.6	878.3	908.2							
G30.0	838.1	868.9	899.7							
G31.0	828.1	860.9	891.3							
G32.0	816.1	851.3	882.8							
G33.0	805.4	842.1	874.5							
G34.0	794.3	832.5	865.8							
G35.0	781.6	822.3	856.6							
G36.0	770.2	812.1	847.2							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	757.7	801.4	838.4							
G38.0	745.6	791.4	828.0							
G39.0	733.7	781.2	818.5							
G40.0	719.7	769.9	807.7							
G41.0	707.6	758.8	797.1							
G42.0	694.9	748.5	787.2							
G43.0	681.3	735.9	775.6							
G44.0	668.7	724.8	764.6							
G45.0	653.9	712.6	753.6							
G46.0	641.2	700.6	742.1							
G47.0	627.6	689.2	731.3							
G48.0	613.3	676.0	718.5							
G49.0	599.4	663.7	707.2							
G50.0	586.3	652.0	695.2							
G51.0	571.1	639.0	683.0							
G52.0	557.9	626.3	670.8							
G53.0	543.3	612.9	658.8							
G54.0	529.4	600.3	646.3							
G55.0	515.8	588.2	634.6							
G56.0	500.3	574.6	621.3							
G57.0	487.0	562.5	609.2							
G58.0	473.1	549.7	596.9							
G59.0	458.2	536.6	583.4							
G60.0	444.3	524.1	571.6							
G61.0	429.4	510.9	558.1							
G62.0	415.4	498.8	546.4							
G63.0	402.2	486.3	534.3							
G64.0	387.5	473.1	521.3							
G65.0	373.7	460.7	508.9							
G66.0	360.6	448.7	497.1							
G67.0	345.8	435.9	483.8							
G68.0	332.9	423.8	472.2							
G69.0	318.9	411.0	459.0							
G70.0	305.8	399.0	446.9							
G71.0	293.7	387.3	435.4							
G72.0	279.7	375.1	422.3							
G73.0	267.7	363.4	411.2							

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: 9.010 m
Humidity:
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	255.3	352.3	399.6							
G75.0	243.0	340.0	387.4							
G76.0	231.0	328.7	375.8							
G77.0	218.9	317.0	364.1							
G78.0	207.5	305.9	352.9							
G79.0	196.7	295.5	342.4							
G80.0	185.3	283.8	330.4							
G81.0	175.4	274.0	319.7							
G82.0	164.3	262.8	309.4							
G83.0	155.0	253.3	298.3							
G84.0	145.4	243.3	288.4							
G85.0	135.9	233.3	277.4							
G86.0	127.2	223.6	267.9							
G87.0	118.6	215.0	258.2							
G88.0	110.0	205.0	248.2							
G89.0	102.3	196.5	238.8							
G90.0	93.9	187.4	229.9							
G91.0	86.7	178.8	220.0							
G92.0	79.8	170.0	211.4							
G93.0	72.8	161.6	202.0							
G94.0	66.4	153.4	193.1							
G95.0	60.7	146.1	184.5							
G96.0	54.7	137.9	176.0							
G97.0	50.1	130.9	168.0							
G98.0	45.6	123.4	160.5							
G99.0	42.0	117.0	152.3							
G100.0	38.4	110.5	145.3							
G101.0	34.7	104.1	137.4							
G102.0	31.7	98.8	130.9							
G103.0	28.8	93.7	124.6							
G104.0	26.1	88.5	118.3							
G105.0	23.8	84.6	112.9							
G106.0	21.6	79.1	106.9							
G107.0	19.7	74.6	102.0							
G108.0	18.1	70.5	96.7							
G109.0	16.4	66.0	91.6							
G110.0	14.8	62.3	86.6							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	13.4	58.5	82.4							
G112.0	11.7	54.7	77.4							
G113.0	10.5	51.4	73.2							
G114.0	9.5	47.9	68.9							
G115.0	8.7	44.8	64.9							
G116.0	8.6	42.1	61.1							
G117.0	8.7	37.5	57.2							
G118.0	8.9	34.4	53.7							
G119.0	9.0	31.7	50.5							
G120.0	9.1	29.1	46.7							
G121.0	9.2	26.8	43.4							
G122.0	9.4	24.6	40.3							
G123.0	9.5	22.4	37.4							
G124.0	9.6	20.6	34.5							
G125.0	9.7	18.5	31.7							
G126.0	9.9	16.7	29.1							
G127.0	9.9	15.1	26.6							
G128.0	10.0	13.7	24.0							
G129.0	10.1	12.6	21.8							
G130.0	10.3	12.1	19.6							
G131.0	10.3	12.1	17.7							
G132.0	10.5	12.2	15.8							
G133.0	10.6	12.2	14.1							
G134.0	10.7	12.3	13.2							
G135.0	10.8	12.4	13.1							
G136.0	11.0	12.4	13.1							
G137.0	11.1	12.5	13.1							
G138.0	11.2	12.6	13.1							
G139.0	11.2	12.6	13.1							
G140.0	11.4	12.6	13.2							
G141.0	11.5	12.8	13.2							
G142.0	11.7	12.8	13.2							
G143.0	11.8	12.9	13.2							
G144.0	11.8	13.0	13.3							
G145.0	11.9	13.0	13.3							
G146.0	12.0	13.1	13.4							
G147.0	12.2	13.1	13.4							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	12.2	13.1	13.5							
G149.0	12.4	13.2	13.5							
G150.0	12.5	13.3	13.5							
G151.0	12.5	13.2	13.6							
G152.0	12.7	13.3	13.5							
G153.0	12.8	13.3	13.6							
G154.0	12.9	13.5	13.6							
G155.0	12.9	13.5	13.7							
G156.0	13.0	13.5	13.7							
G157.0	13.1	13.5	13.7							
G158.0	13.1	13.7	13.7							
G159.0	13.3	13.7	13.7							
G160.0	13.5	13.6	13.7							
G161.0	13.4	13.8	13.7							
G162.0	13.6	13.7	13.7							
G163.0	13.5	13.7	13.6							
G164.0	13.7	13.7	13.7							
G165.0	13.7	13.7	13.7							
G166.0	13.7	13.7	13.8							
G167.0	13.8	13.7	13.8							
G168.0	13.8	13.8	13.9							
G169.0	13.8	13.8	14.0							
G170.0	14.0	13.9	14.0							
G171.0	14.0	13.9	14.0							
G172.0	14.0	13.9	14.2							
G173.0	14.1	14.2	14.2							
G174.0	14.1	14.1	14.3							
G175.0	14.1	14.1	14.3							
G176.0	14.2	14.1	14.3							
G177.0	14.3	14.1	14.4							
G178.0	14.2	14.3	14.4							
G179.0	14.3	14.3	14.5							
G180.0	14.4	14.3	14.6							

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: 9.010 m
Humidity:
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	9437.08
L 0-180(75) av	11564.41
L 0-180(85) av	24191.39
L 90-270(65) av	6224.88
L 90-270(75) av	5518.70
L 90-270(85) av	4920.70
L 45(65) av	7861.83
L 45(75) av	8831.94
L 45(85) av	16319.59

Standard: GB/T 29293-2012

Preheating curve

Preheating curve

Max.										
Min.										

Preheat time: 0 h Sample interval:1 s Stable range: 0.00 % Stable time: 00:00:00