

Report No.:

Test Time: 2023-07-25 09:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1200

Luminous Height (mm): 40

Current: 0.260 A

Power Factor: 0.991

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 100

Voltage: 119.9 V

Power: 30.87 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4523.1 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 209.4, 160.6, 187.2, 186.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 124.5, 105.4, 114.4, 114.1

Luminous Efficacy (lm/w): 146.52

Max. Intensity: 1366.92 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 4523.1 lm

Efficiency: 100%

Upward Ratio: 7%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 209.4, 160.6, 187.2, 186.3

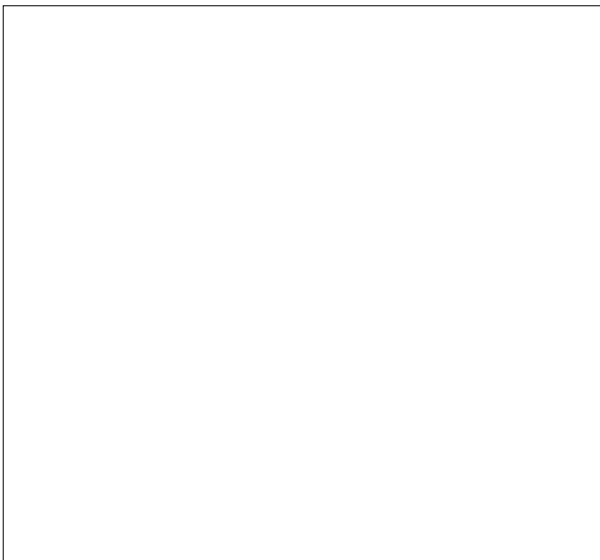
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 124.5, 105.4, 114.4, 114.1

Luminous Efficacy (lm/w): 146.52

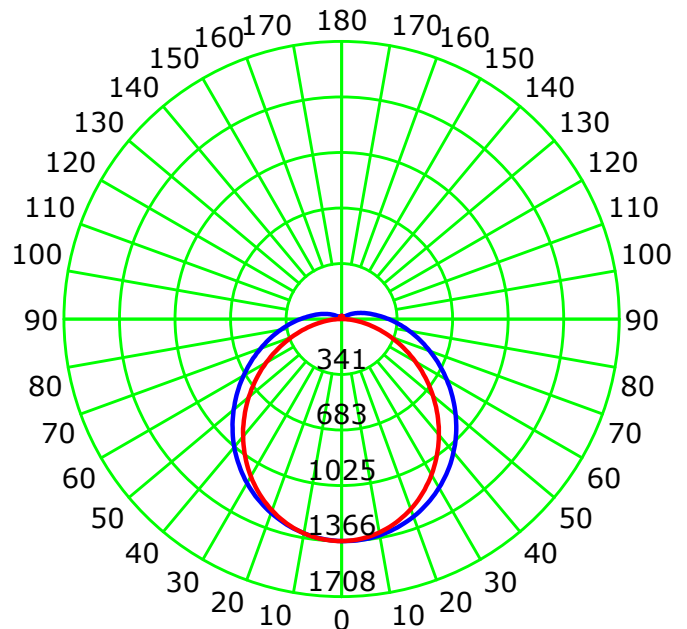
Max. Intensity: 1366.92 cd

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

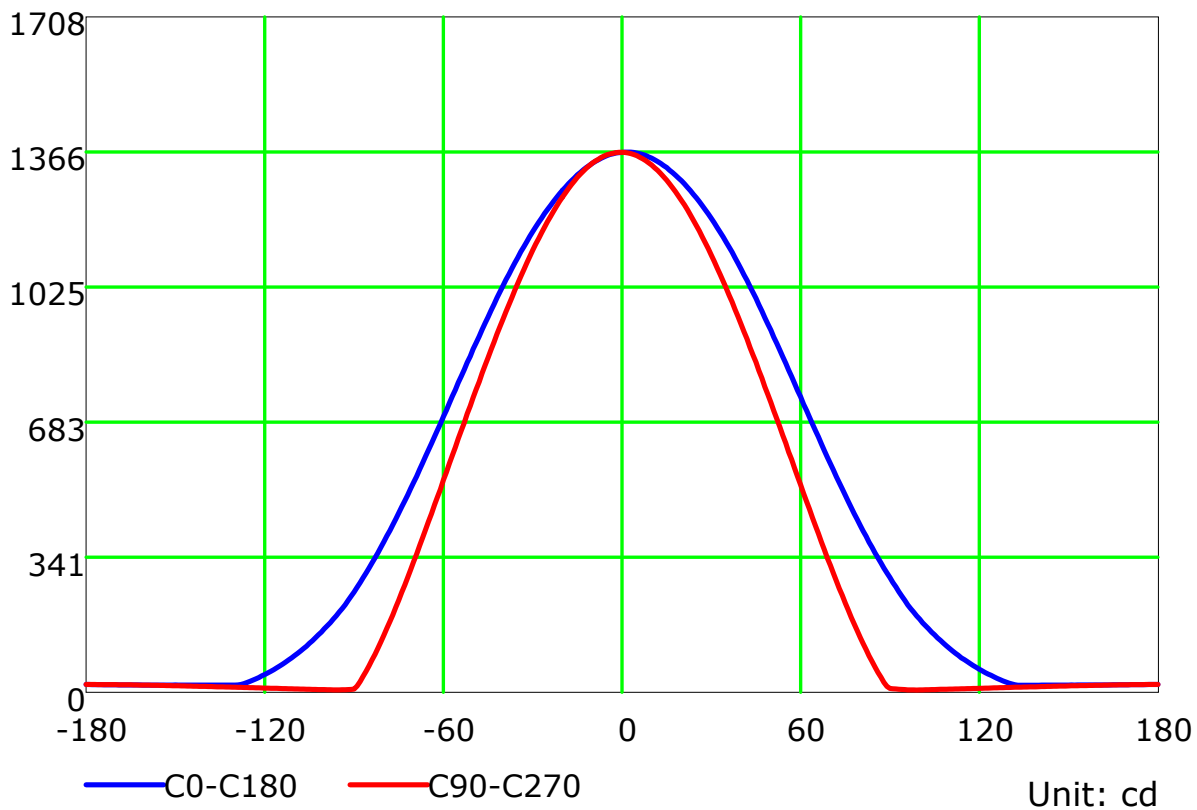
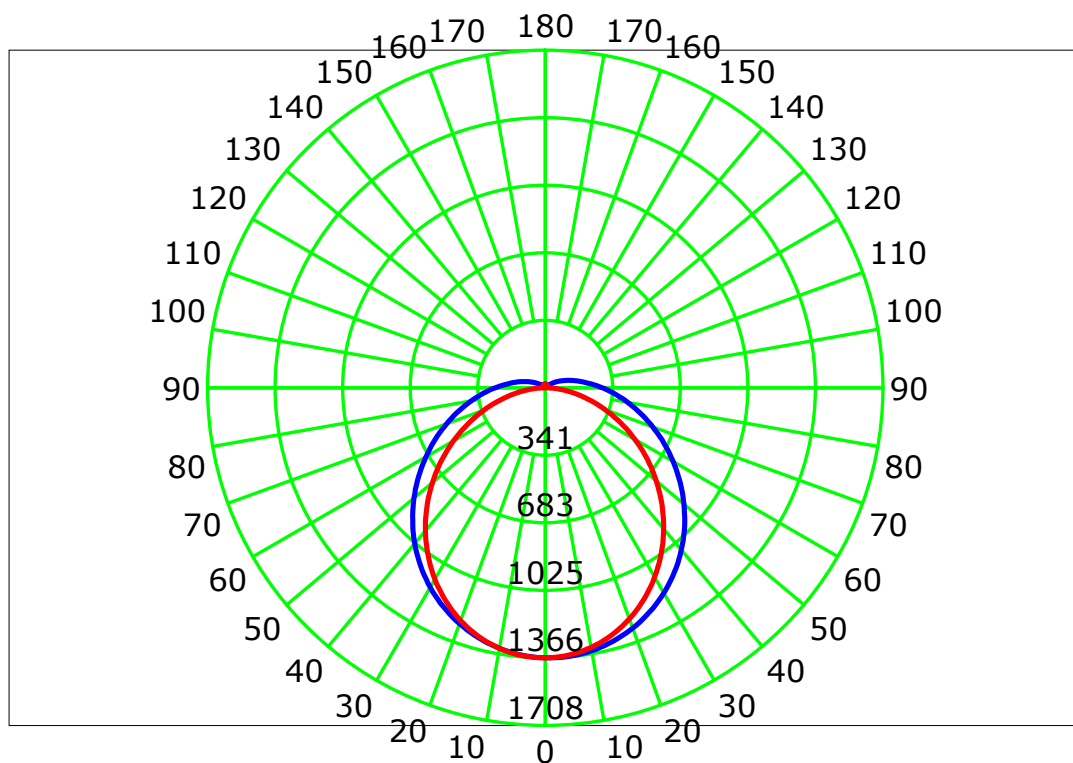
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

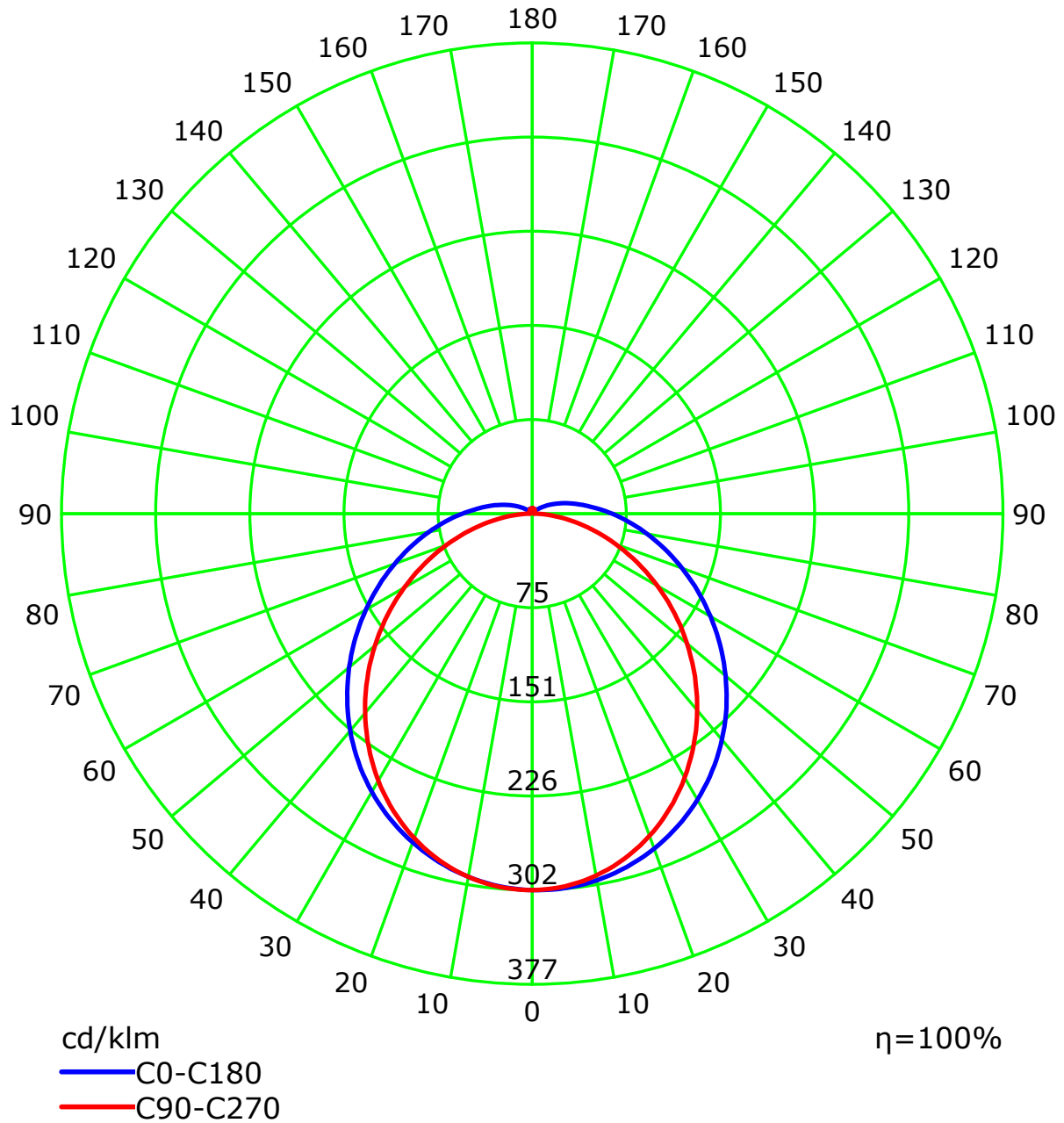
Luminous Intensity Distribution Curve



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)



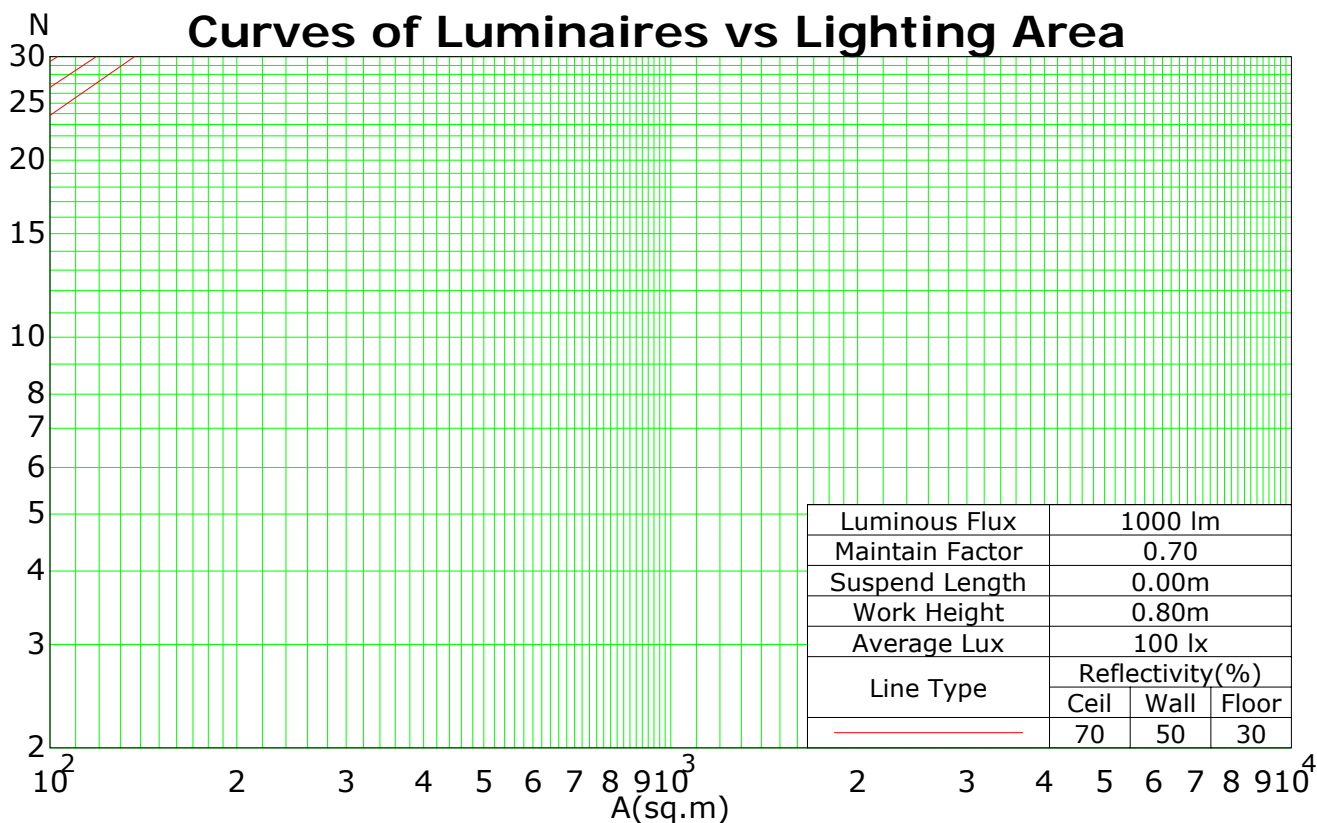
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	1.02	1.02	1.02	0.96	0.96	0.96	0.93
1	1.06	1.00	0.95	0.91	1.02	0.97	0.93	0.89	0.92	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.77	0.75
2	0.95	0.86	0.79	0.73	0.92	0.84	0.77	0.71	0.79	0.74	0.69	0.75	0.70	0.66	0.71	0.67	0.64	0.61
3	0.87	0.75	0.67	0.60	0.84	0.73	0.65	0.59	0.69	0.63	0.57	0.66	0.60	0.55	0.62	0.58	0.53	0.51
4	0.79	0.67	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	0.46	0.43
5	0.73	0.59	0.50	0.43	0.70	0.58	0.49	0.43	0.55	0.47	0.42	0.52	0.46	0.41	0.50	0.44	0.40	0.37
6	0.67	0.53	0.44	0.38	0.65	0.52	0.43	0.37	0.50	0.42	0.36	0.47	0.41	0.35	0.45	0.39	0.35	0.32
7	0.62	0.48	0.39	0.33	0.60	0.47	0.39	0.33	0.45	0.38	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.29
8	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.41	0.34	0.29	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	0.40	0.32	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	0.37	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21

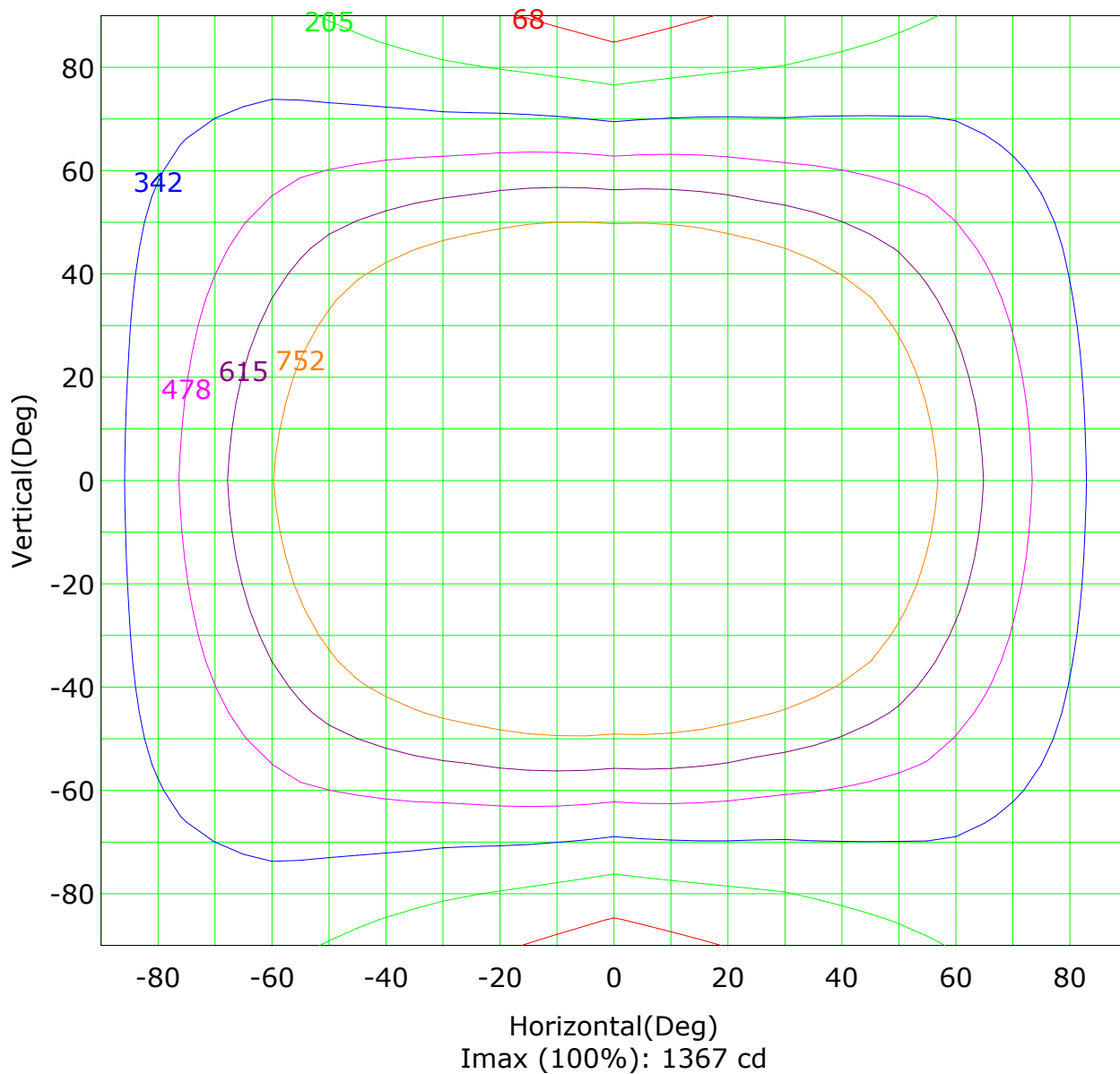
Spacing Criteria (0-180): 1.29
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.37



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)

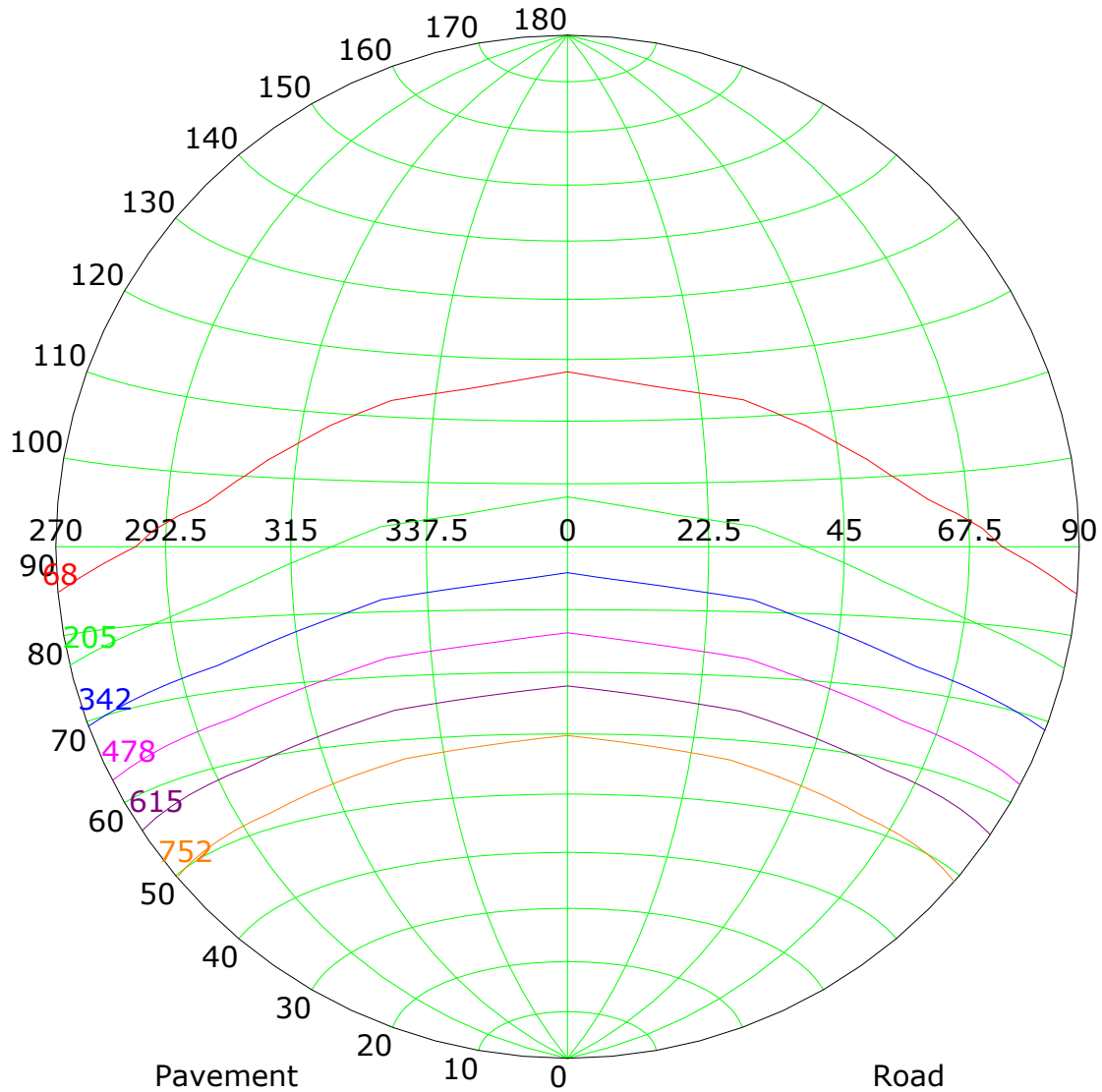


(5%): 68 cd	(15%): 205 cd
(25%): 342 cd	(35%): 478 cd
(45%): 615 cd	(55%): 752 cd

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)



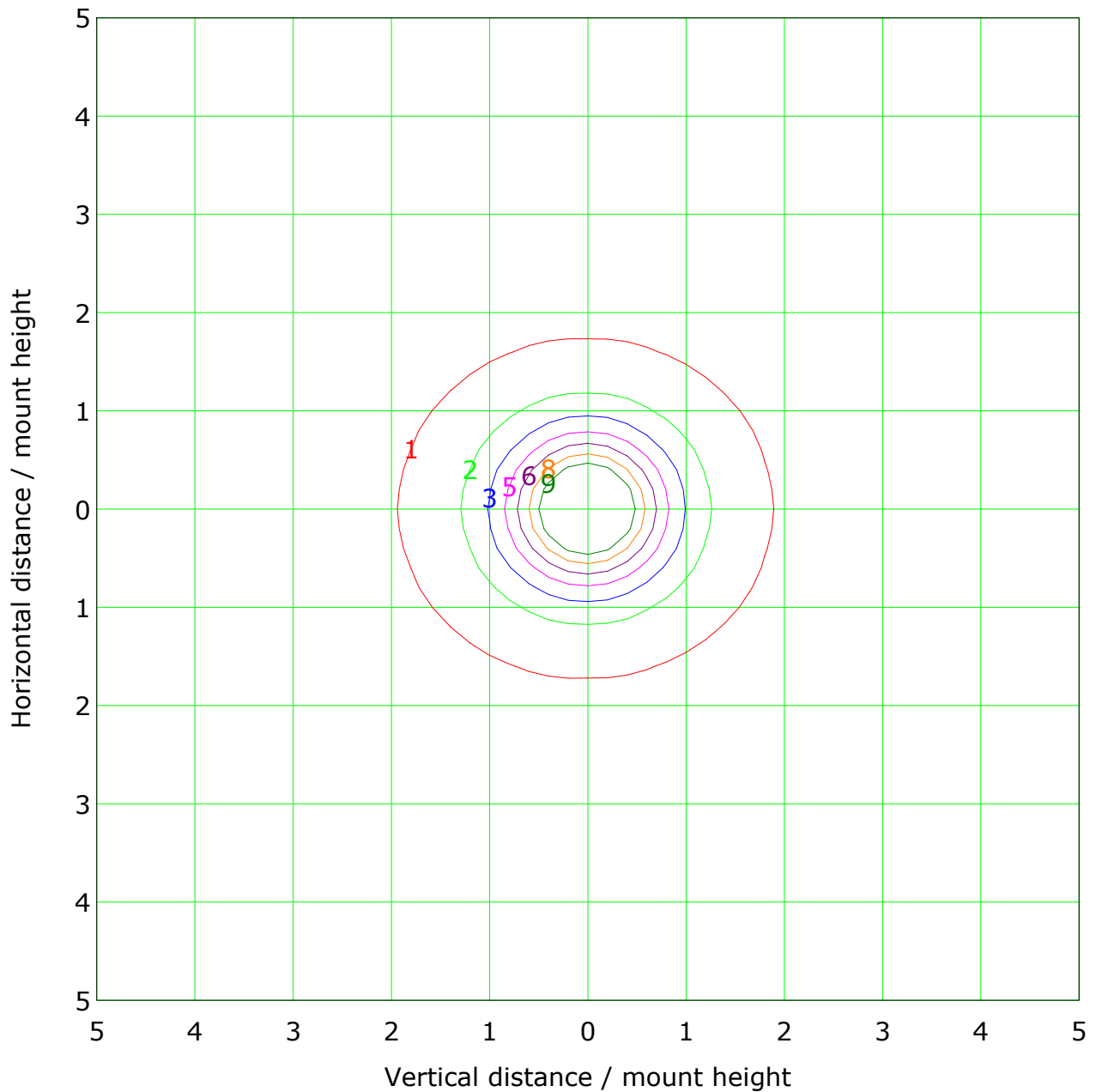
Imax (100%): 1367 cd

(5%): 68 cd	(15%): 205 cd
(25%): 342 cd	(35%): 478 cd
(45%): 615 cd	(55%): 752 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 64.243 cd/klm

IES: Non-cut-off
Max.At80: 93.446 cd/klm
Max.80-90: 93.446 cd/klm

IsoLux Plot



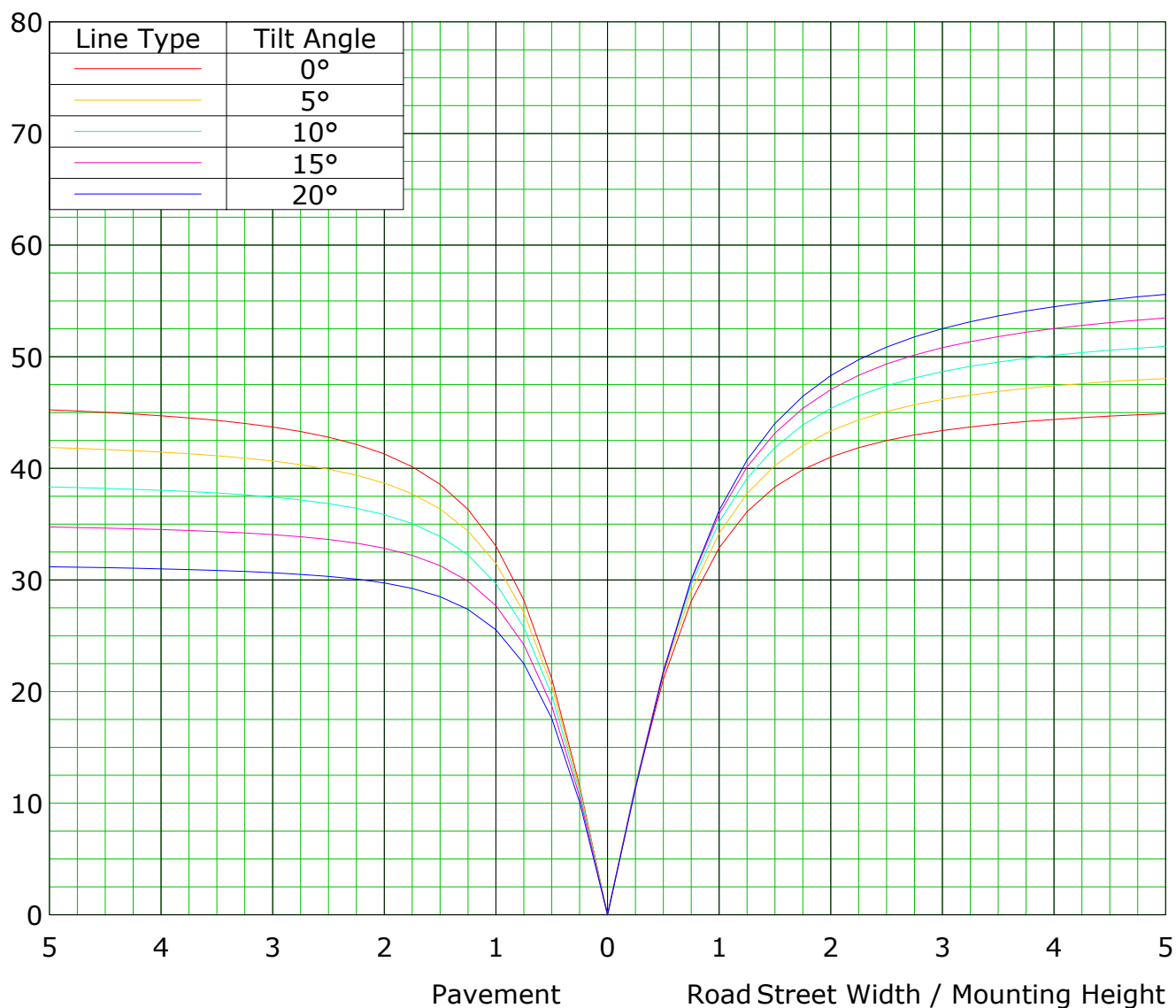
Mounting Height: 10.0m		Max Lux(100%): 13.7 lx	
— (5%):	0.7 lx	— (15%):	2.0 lx
— (25%):	3.4 lx	— (35%):	4.8 lx
— (45%):	6.1 lx	— (55%):	7.5 lx
— (65%):	8.9 lx		

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(%)

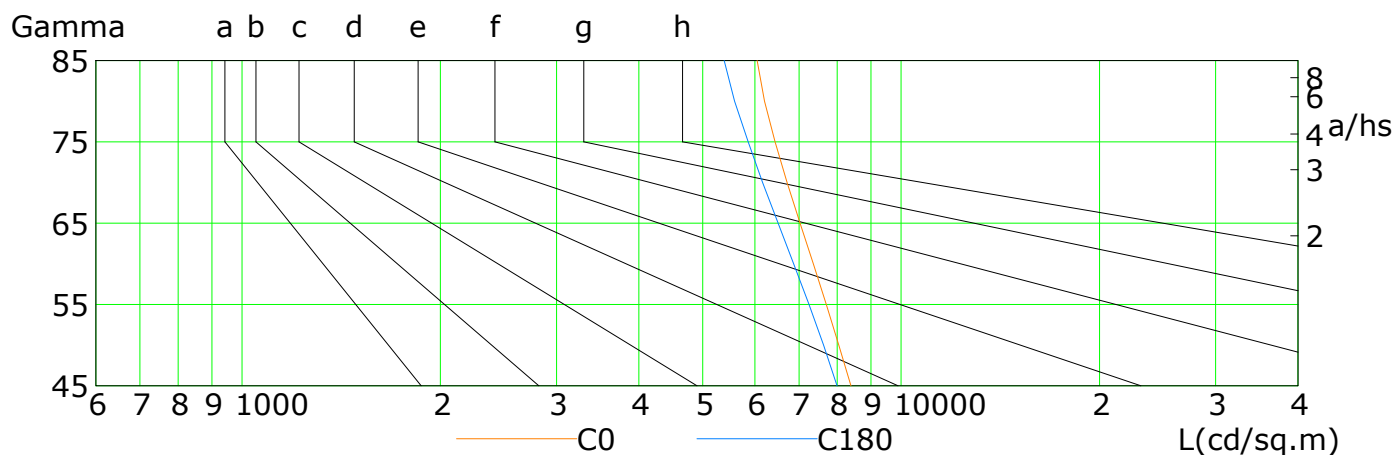
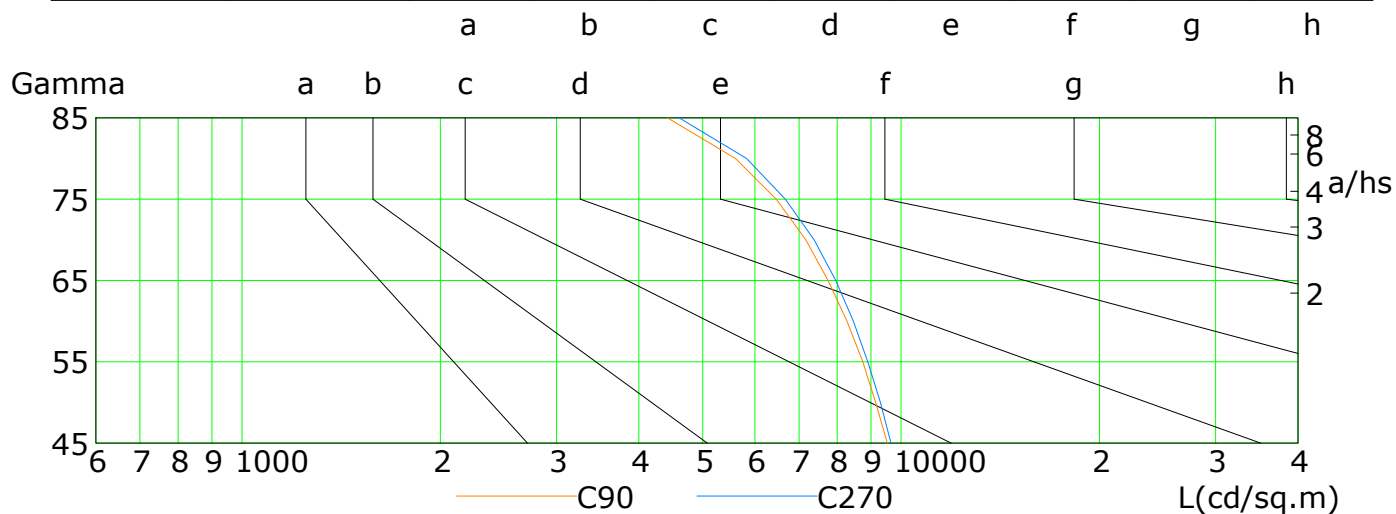


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	8391	8044	7699	7359	7026	6713	6439	6206	6048
C90	9527	9147	8747	8273	7748	7167	6465	5608	4420
C180	7992	7626	7248	6868	6508	6164	5861	5589	5390
C270	9653	9302	8902	8461	7956	7379	6672	5829	4605

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

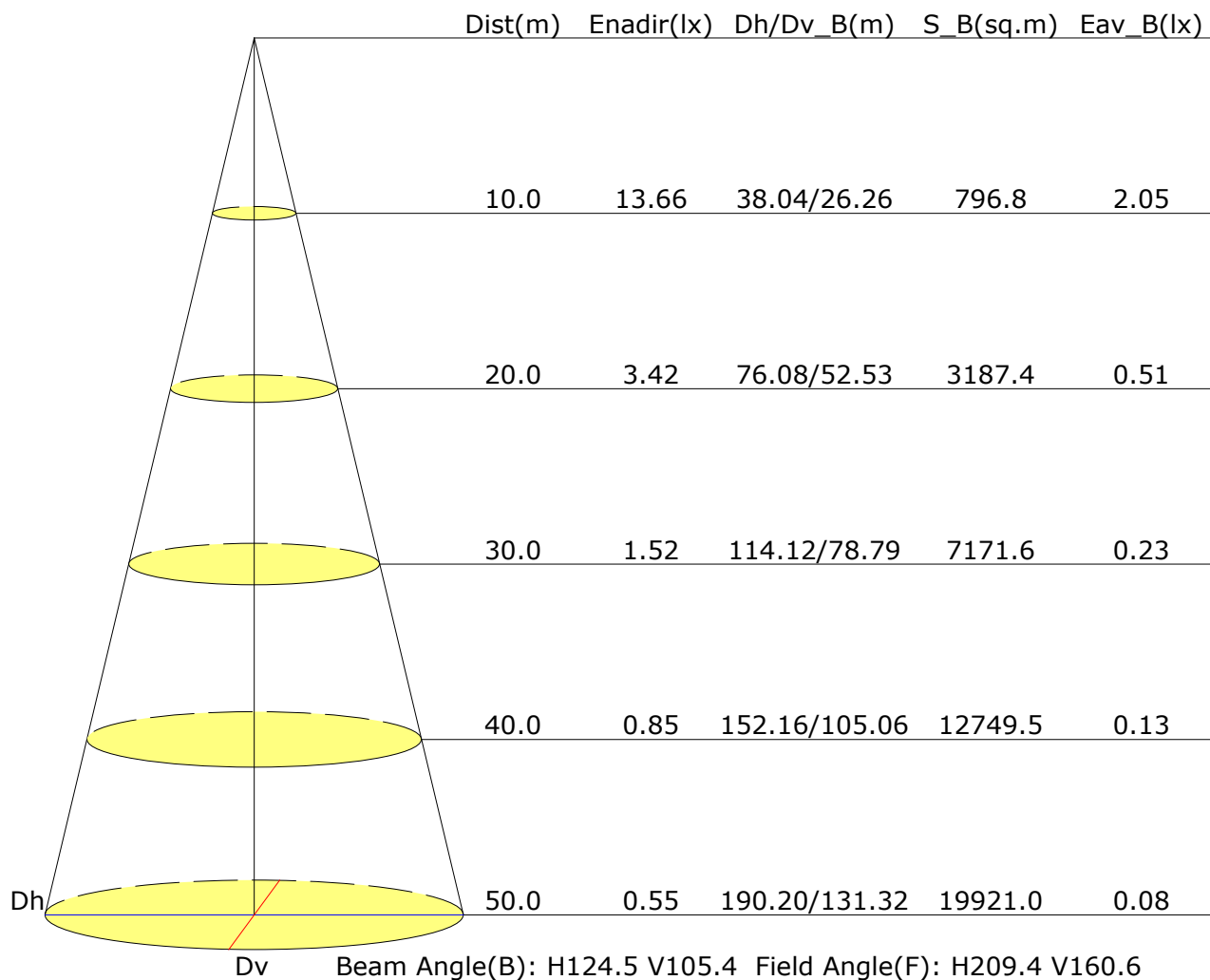
Test Device: GPM-1600L

Distance: 9.010 m

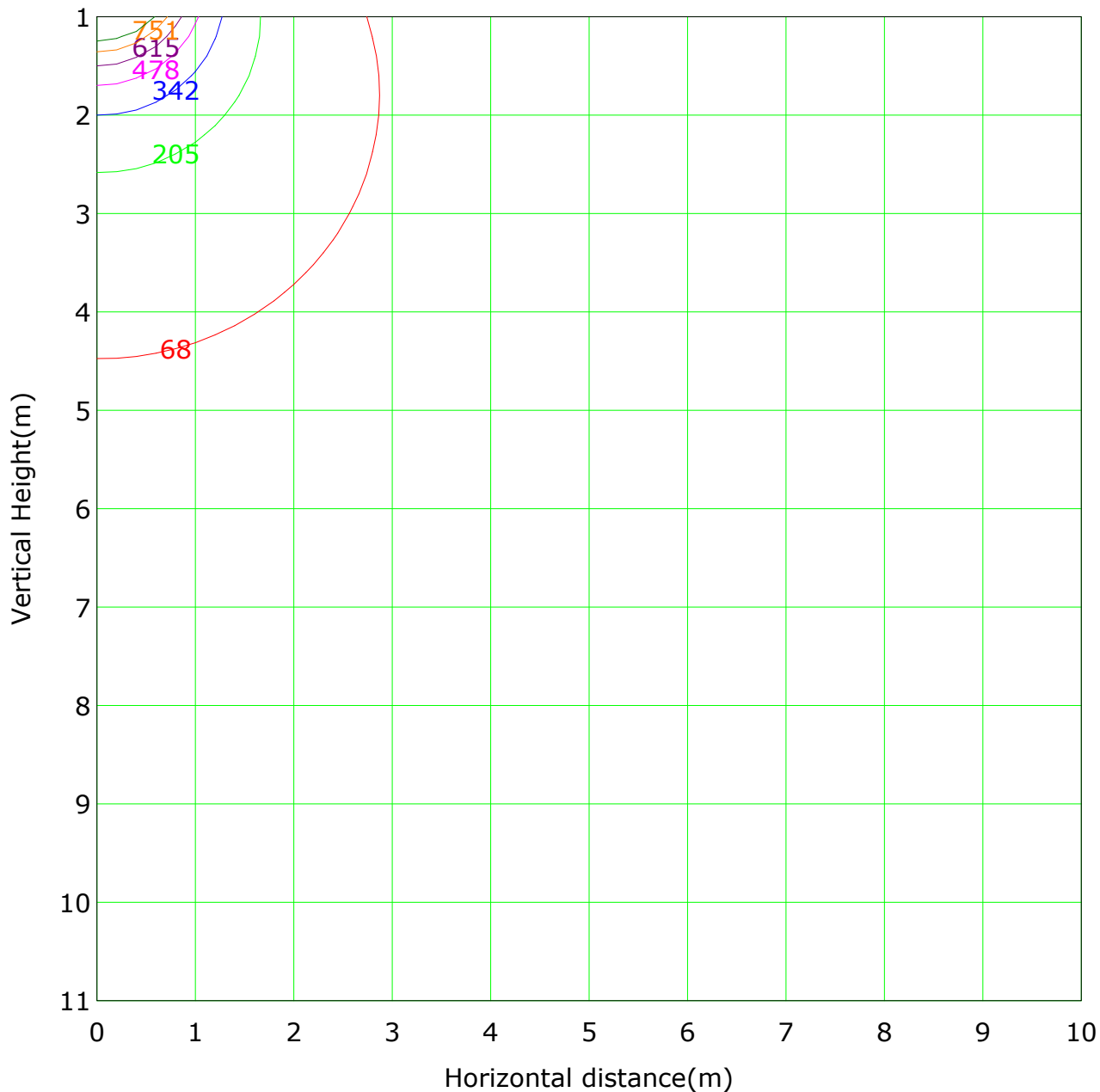
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1366.0 lx

(5%): 68.3 lx	(15%): 204.9 lx
(25%): 341.5 lx	(35%): 478.1 lx
(45%): 614.7 lx	(55%): 751.3 lx
(65%): 887.9 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

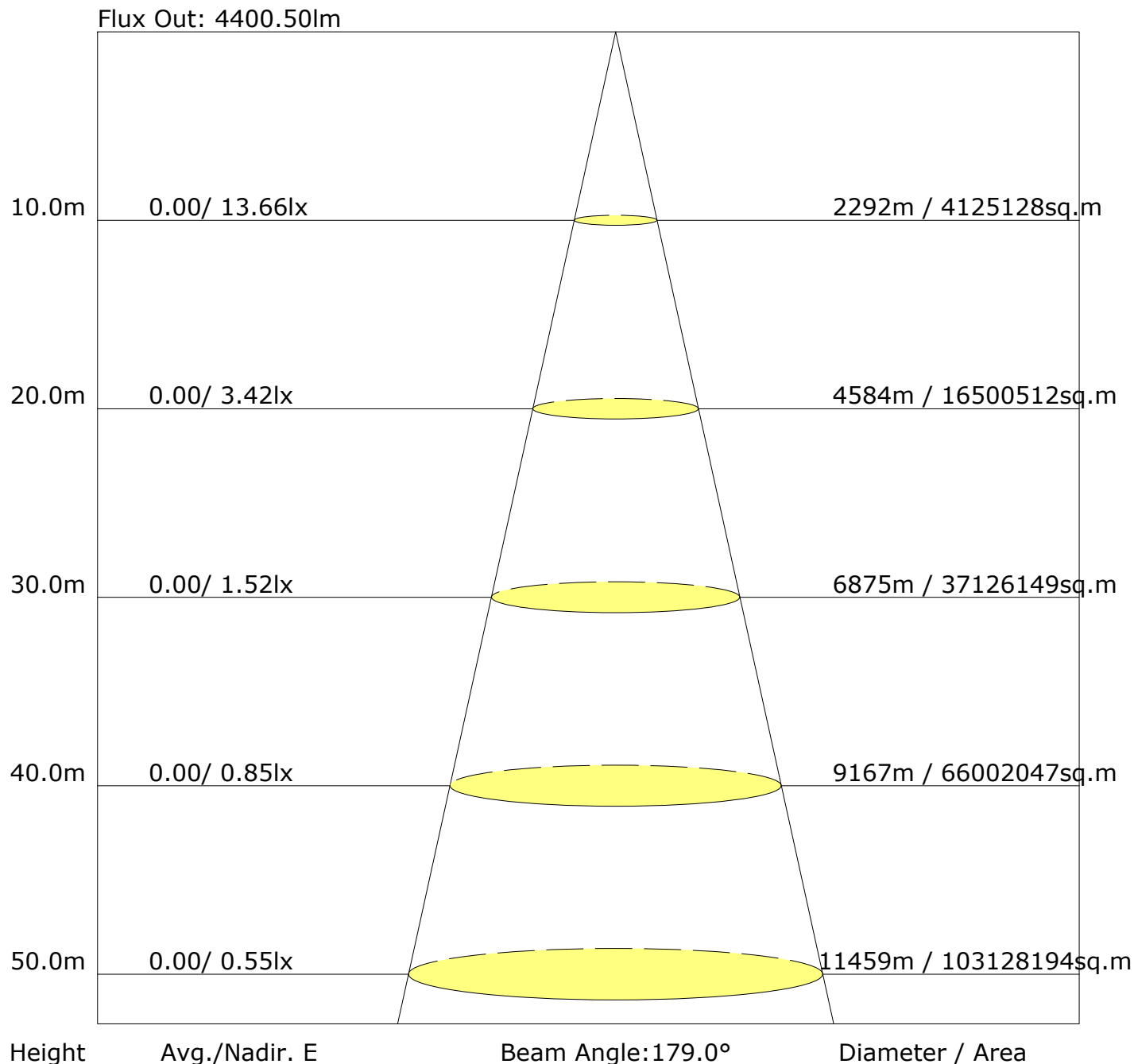
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		0.7	2.0	3.2	4.0	4.3	4.3	3.9	3.4	2.6	2.6	3.5	4.1	4.6	4.7	4.4	3.5	2.2	0.8	58.7
		0.7	2.2	3.8	5.3	6.3	7.0	7.5	7.7	7.4	7.5	7.9	7.8	7.5	6.8	5.8	4.2	2.5	0.8	98.7
		0.7	2.5	4.6	6.8	8.7	10.4	11.8	12.9	13.3	13.4	13.2	12.3	11.0	9.3	7.3	5.0	2.7	0.8	146.8
		0.8	2.7	5.3	8.3	11.3	14.2	16.6	18.6	19.5	19.6	19.0	17.2	14.8	12.0	8.9	5.8	3.0	0.9	198.5
		0.8	3.0	6.0	9.8	13.9	17.9	21.4	24.2	25.6	25.8	24.6	22.0	18.6	14.6	10.5	6.5	3.3	0.9	249.5
		0.8	3.2	6.7	11.1	16.3	21.3	25.9	29.3	31.2	31.4	29.7	26.5	22.1	17.0	11.8	7.2	3.5	0.9	296.1
		0.9	3.4	7.2	12.3	18.1	24.2	29.5	33.6	35.9	36.0	34.0	30.2	25.0	19.0	13.0	7.8	3.7	1.0	334.7
		0.9	3.5	7.6	13.1	19.5	26.1	32.1	36.6	39.1	39.3	37.1	32.8	27.0	20.4	13.9	8.2	3.9	1.0	362.2
		0.9	3.6	7.9	13.6	20.3	27.2	33.4	38.2	40.8	41.0	38.7	34.2	28.1	21.2	14.4	8.5	4.0	1.0	376.9
		0.9	3.6	7.9	13.6	20.3	27.2	33.4	38.1	40.8	40.9	38.6	34.1	28.1	21.2	14.4	8.5	4.0	1.0	376.6
		0.9	3.5	7.6	13.1	19.5	26.1	32.0	36.5	39.0	39.1	36.9	32.7	26.9	20.3	13.9	8.2	3.9	1.0	361.0
		0.9	3.4	7.2	12.2	18.1	24.1	29.3	33.3	35.6	35.7	33.8	30.0	24.9	18.9	13.0	7.8	3.7	1.0	332.7
		0.8	3.2	6.6	11.1	16.2	21.2	25.6	29.0	30.9	31.0	29.4	26.3	22.0	17.0	11.8	7.2	3.5	0.9	293.6
		0.8	3.0	6.0	9.7	13.8	17.7	21.1	23.8	25.3	25.4	24.3	21.8	18.5	14.5	10.4	6.5	3.3	0.9	246.7
		0.8	2.7	5.3	8.2	11.2	13.9	16.3	18.3	19.2	19.3	18.7	16.9	14.7	11.9	8.9	5.7	3.0	0.9	195.7
		0.7	2.5	4.5	6.7	8.6	10.2	11.5	12.6	13.0	13.1	13.0	12.1	10.9	9.2	7.3	5.0	2.7	0.8	144.3
		0.7	2.2	3.8	5.2	6.2	6.8	7.2	7.4	7.2	7.3	7.8	7.7	7.4	6.8	5.7	4.2	2.5	0.8	96.9
		0.7	1.9	3.1	3.9	4.2	4.1	3.7	3.2	2.5	2.6	3.5	4.1	4.6	4.7	4.4	3.5	2.2	0.8	57.7
		14.3	52.1	104.3	168.1	236.7	303.0	359.5	402.8	424.7	427.2	410.0	370.4	316.0	249.7	179.7	113.2	57.5	16.1	4205
		14.3	52.1	104.3	168.1	236.7	303.9	362.4	406.8	428.7	431.1	413.6	372.8	316.4	249.7	179.7	113.2	57.5	16.1	4227
		Flux(E)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)	Flux(T)

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



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	19.5	20.8	19.9	21.2	21.6	19.0	20.4	19.4	20.7	21.1
3H	21.3	22.5	21.7	22.9	23.3	20.5	21.7	20.9	22.1	22.5
4H	22.2	23.3	22.6	23.7	24.2	21.1	22.2	21.5	22.6	23.1
6H	23.0	24.1	23.4	24.5	25.0	21.5	22.6	22.0	23.0	23.5
8H	23.4	24.4	23.8	24.9	25.3	21.6	22.7	22.1	23.1	23.6
12H	23.7	24.8	24.2	25.2	25.7	21.7	22.7	22.2	23.2	23.7
X=4H Y=2H	20.1	21.2	20.5	21.6	22.1	19.7	20.8	20.1	21.3	21.7
3H	22.1	23.1	22.6	23.6	24.0	21.3	22.3	21.8	22.8	23.3
4H	23.1	24.0	23.6	24.5	25.0	22.1	23.0	22.6	23.4	24.0
6H	24.1	24.9	24.6	25.4	26.0	22.6	23.5	23.2	24.0	24.5
8H	24.6	25.3	25.1	25.9	26.4	22.9	23.6	23.4	24.1	24.7
12H	25.1	25.7	25.6	26.3	26.9	23.0	23.7	23.6	24.2	24.8
X=8H Y=4H	23.4	24.2	23.9	24.7	25.2	22.5	23.2	23.0	23.7	24.3
6H	24.6	25.2	25.2	25.8	26.4	23.2	23.9	23.8	24.4	25.0
8H	25.2	25.8	25.8	26.4	27.0	23.6	24.1	24.2	24.7	25.3
12H	25.9	26.4	26.5	26.9	27.6	23.8	24.3	24.4	24.9	25.5
X=12H Y=4H	23.4	24.1	24.0	24.6	25.2	22.6	23.2	23.1	23.8	24.4
6H	24.7	25.3	25.3	25.8	26.4	23.4	24.0	24.0	24.5	25.2
8H	25.4	25.9	26.0	26.5	27.1	23.8	24.3	24.4	24.9	25.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
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 4523lm ($8\log(F/F_0) = 5.2$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

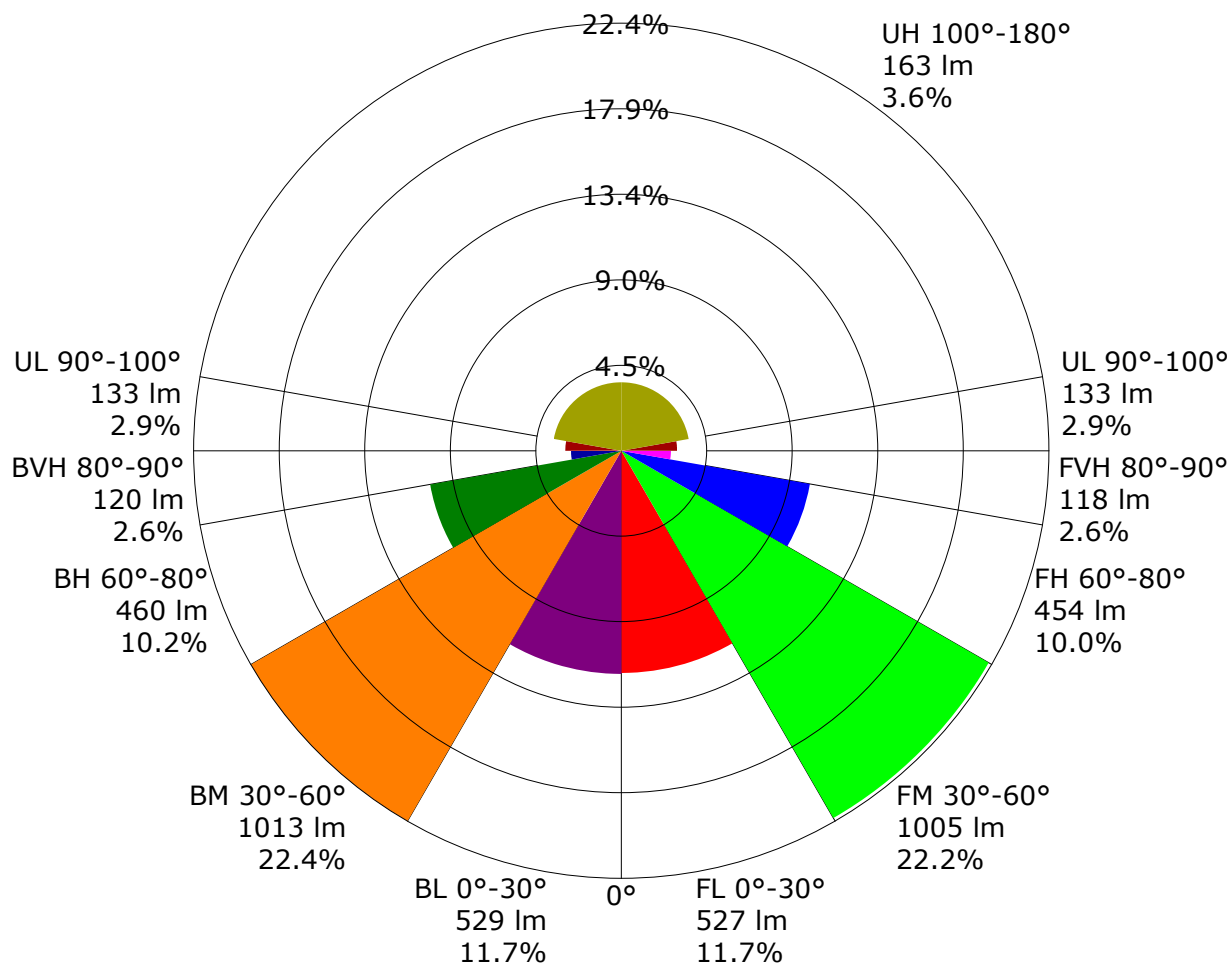
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2105	46.5
	FL (0°-30°)	527	11.7
	FM (30°-60°)	1005	22.2
	FH (60°-80°)	454	10.0
	FVH (80°-90°)	118	2.6
	BACK LIGHT	2122	46.9
	BL (0°-30°)	529	11.7
	BM (30°-60°)	1013	22.4
	BH (60°-80°)	460	10.2
	BVH (80°-90°)	120	2.6
	UP LIGHT	295	6.5
	UL (90°-100°)	133	2.9
	UH (100°-180°)	163	3.6
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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

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:

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	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.67	0.75	0.81	0.85	0.91	0.94	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.91	
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93	
	0.30		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
	0.20		0.38	0.47	0.54	0.59	0.67	0.73	0.77	0.83	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	0.51	0.57	0.62	0.69	0.74	0.77	0.82	0.85	
	0.20		0.37	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.83	
0.00	0.00	0.00	0.34	0.43	0.49	0.54	0.60	0.65	0.69	0.73	0.77	
Rating:31W 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	0.74	0.66	0.53	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	0.24	
	0.20		0.73	0.64	0.57	0.52	0.44	0.38	0.34	0.27	0.23	
0.50	0.50	0.20	0.98	0.82	0.70	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.39	0.34	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.42	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.94	0.78	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.26	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:31W 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	0.27	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	0.19	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	0.13	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:31W 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	1365.9	1.3	1.3	0.03	0.03
1.0-2.0	1365.4	3.9	5.2	0.09	0.12
2.0-3.0	1364.3	6.5	11.8	0.14	0.26
3.0-4.0	1362.8	9.1	20.9	0.20	0.46
4.0-5.0	1360.9	11.7	32.6	0.26	0.72
5.0-6.0	1358.3	14.3	46.9	0.32	1.04
6.0-7.0	1355.2	16.8	63.7	0.37	1.41
7.0-8.0	1351.7	19.3	83.0	0.43	1.84
8.0-9.0	1347.5	21.8	104.9	0.48	2.32
9.0-10.0	1342.9	24.3	129.2	0.54	2.86
10.0-11.0	1337.8	26.7	155.9	0.59	3.45
11.0-12.0	1332.2	29.1	185.0	0.64	4.09
12.0-13.0	1326.3	31.5	216.5	0.70	4.79
13.0-14.0	1319.6	33.8	250.3	0.75	5.53
14.0-15.0	1312.5	36.0	286.3	0.80	6.33
15.0-16.0	1305.0	38.2	324.6	0.85	7.18
16.0-17.0	1296.8	40.4	365.0	0.89	8.07
17.0-18.0	1288.6	42.5	407.5	0.94	9.01
18.0-19.0	1279.7	44.5	452.0	0.98	9.99
19.0-20.0	1270.2	46.5	498.5	1.03	11.02
20.0-21.0	1260.8	48.4	546.9	1.07	12.09
21.0-22.0	1250.5	50.3	597.2	1.11	13.20
22.0-23.0	1239.8	52.0	649.2	1.15	14.35
23.0-24.0	1228.6	53.7	702.9	1.19	15.54
24.0-25.0	1217.0	55.3	758.3	1.22	16.76
25.0-26.0	1205.5	56.9	815.2	1.26	18.02
26.0-27.0	1193.1	58.4	873.5	1.29	19.31
27.0-28.0	1180.3	59.8	933.3	1.32	20.63
28.0-29.0	1167.7	61.1	994.4	1.35	21.99
29.0-30.0	1154.2	62.3	1056.7	1.38	23.36
30.0-31.0	1140.4	63.5	1120.2	1.40	24.77
31.0-32.0	1126.2	64.5	1184.7	1.43	26.19
32.0-33.0	1111.6	65.5	1250.2	1.45	27.64
33.0-34.0	1097.2	66.4	1316.6	1.47	29.11
34.0-35.0	1081.8	67.2	1383.8	1.49	30.59
35.0-36.0	1066.3	67.9	1451.7	1.50	32.10

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	1050.7	68.5	1520.3	1.52	33.61
37.0-38.0	1034.6	69.1	1589.3	1.53	35.14
38.0-39.0	1018.5	69.5	1658.9	1.54	36.68
39.0-40.0	1001.8	69.9	1728.7	1.54	38.22
40.0-41.0	984.9	70.1	1798.9	1.55	39.77
41.0-42.0	968.4	70.4	1869.3	1.56	41.33
42.0-43.0	951.1	70.5	1939.7	1.56	42.88
43.0-44.0	933.5	70.5	2010.2	1.56	44.44
44.0-45.0	916.0	70.4	2080.6	1.56	46.00
45.0-46.0	898.1	70.2	2150.8	1.55	47.55
46.0-47.0	880.3	70.0	2220.8	1.55	49.10
47.0-48.0	861.8	69.7	2290.5	1.54	50.64
48.0-49.0	843.3	69.3	2359.8	1.53	52.17
49.0-50.0	825.5	68.8	2428.6	1.52	53.69
50.0-51.0	806.8	68.3	2496.9	1.51	55.20
51.0-52.0	788.0	67.6	2564.5	1.50	56.70
52.0-53.0	769.6	67.0	2631.5	1.48	58.18
53.0-54.0	750.7	66.2	2697.7	1.46	59.64
54.0-55.0	732.1	65.4	2763.0	1.45	61.09
55.0-56.0	713.1	64.5	2827.5	1.42	62.51
56.0-57.0	694.1	63.5	2890.9	1.40	63.91
57.0-58.0	675.8	62.5	2953.4	1.38	65.30
58.0-59.0	656.5	61.4	3014.8	1.36	66.65
59.0-60.0	637.6	60.2	3075.1	1.33	67.99
60.0-61.0	618.7	59.1	3134.1	1.31	69.29
61.0-62.0	599.8	57.8	3191.9	1.28	70.57
62.0-63.0	581.8	56.6	3248.5	1.25	71.82
63.0-64.0	563.1	55.3	3303.8	1.22	73.04
64.0-65.0	544.5	53.9	3357.7	1.19	74.23
65.0-66.0	526.8	52.6	3410.2	1.16	75.40
66.0-67.0	508.4	51.1	3461.4	1.13	76.53
67.0-68.0	490.2	49.7	3511.0	1.10	77.62
68.0-69.0	472.2	48.2	3559.2	1.07	78.69
69.0-70.0	454.4	46.7	3605.9	1.03	79.72
70.0-71.0	437.7	45.2	3651.1	1.00	80.72
71.0-72.0	420.3	43.7	3694.8	0.97	81.69

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	403.2	42.2	3737.0	0.93	82.62
73.0-74.0	387.0	40.7	3777.7	0.90	83.52
74.0-75.0	370.4	39.1	3816.8	0.87	84.39
75.0-76.0	354.0	37.6	3854.4	0.83	85.22
76.0-77.0	338.0	36.0	3890.5	0.80	86.01
77.0-78.0	322.3	34.5	3925.0	0.76	86.78
78.0-79.0	307.4	33.0	3958.0	0.73	87.51
79.0-80.0	292.4	31.5	3989.5	0.70	88.20
80.0-81.0	277.6	30.0	4019.6	0.66	88.87
81.0-82.0	263.6	28.6	4048.2	0.63	89.50
82.0-83.0	249.6	27.1	4075.3	0.60	90.10
83.0-84.0	236.2	25.7	4101.0	0.57	90.67
84.0-85.0	223.1	24.3	4125.4	0.54	91.21
85.0-86.0	210.3	23.0	4148.4	0.51	91.71
86.0-87.0	198.5	21.7	4170.1	0.48	92.19
87.0-88.0	186.5	20.4	4190.5	0.45	92.65
88.0-89.0	175.0	19.2	4209.7	0.42	93.07
89.0-90.0	164.6	18.0	4227.8	0.40	93.47
90.0-91.0	155.1	17.0	4244.8	0.38	93.85
91.0-92.0	146.7	16.1	4260.9	0.36	94.20
92.0-93.0	138.3	15.2	4276.0	0.34	94.54
93.0-94.0	130.5	14.3	4290.3	0.32	94.85
94.0-95.0	123.5	13.5	4303.8	0.30	95.15
95.0-96.0	116.6	12.7	4316.5	0.28	95.43
96.0-97.0	110.1	12.0	4328.5	0.27	95.70
97.0-98.0	104.2	11.3	4339.8	0.25	95.95
98.0-99.0	98.4	10.7	4350.5	0.24	96.18
99.0-100.0	93.1	10.1	4360.6	0.22	96.41
100.0-101.0	87.7	9.5	4370.0	0.21	96.62
101.0-102.0	82.7	8.9	4378.9	0.20	96.81
102.0-103.0	78.1	8.4	4387.3	0.18	97.00
103.0-104.0	73.5	7.8	4395.1	0.17	97.17
104.0-105.0	69.1	7.3	4402.5	0.16	97.33
105.0-106.0	64.9	6.9	4409.3	0.15	97.48
106.0-107.0	60.9	6.4	4415.7	0.14	97.63
107.0-108.0	57.3	6.0	4421.7	0.13	97.76

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	53.6	5.6	4427.3	0.12	97.88
109.0-110.0	50.1	5.2	4432.5	0.11	98.00
110.0-111.0	46.9	4.8	4437.3	0.11	98.10
111.0-112.0	43.8	4.5	4441.7	0.10	98.20
112.0-113.0	41.0	4.2	4445.9	0.09	98.29
113.0-114.0	38.3	3.8	4449.7	0.09	98.38
114.0-115.0	35.8	3.6	4453.3	0.08	98.46
115.0-116.0	33.6	3.3	4456.6	0.07	98.53
116.0-117.0	31.3	3.1	4459.7	0.07	98.60
117.0-118.0	29.4	2.9	4462.6	0.06	98.66
118.0-119.0	27.6	2.7	4465.2	0.06	98.72
119.0-120.0	25.9	2.5	4467.7	0.05	98.77
120.0-121.0	24.3	2.3	4470.0	0.05	98.83
121.0-122.0	22.8	2.1	4472.1	0.05	98.87
122.0-123.0	21.3	2.0	4474.1	0.04	98.92
123.0-124.0	20.1	1.8	4475.9	0.04	98.96
124.0-125.0	18.9	1.7	4477.7	0.04	98.99
125.0-126.0	17.9	1.6	4479.3	0.04	99.03
126.0-127.0	17.2	1.5	4480.8	0.03	99.06
127.0-128.0	16.5	1.4	4482.2	0.03	99.10
128.0-129.0	16.0	1.4	4483.6	0.03	99.13
129.0-130.0	15.8	1.3	4484.9	0.03	99.16
130.0-131.0	15.6	1.3	4486.2	0.03	99.18
131.0-132.0	15.6	1.3	4487.5	0.03	99.21
132.0-133.0	15.6	1.3	4488.8	0.03	99.24
133.0-134.0	15.6	1.2	4490.0	0.03	99.27
134.0-135.0	15.7	1.2	4491.2	0.03	99.29
135.0-136.0	15.8	1.2	4492.4	0.03	99.32
136.0-137.0	15.9	1.2	4493.6	0.03	99.35
137.0-138.0	16.1	1.2	4494.8	0.03	99.37
138.0-139.0	16.2	1.2	4496.0	0.03	99.40
139.0-140.0	16.3	1.2	4497.2	0.03	99.43
140.0-141.0	16.4	1.1	4498.3	0.03	99.45
141.0-142.0	16.5	1.1	4499.4	0.02	99.48
142.0-143.0	16.6	1.1	4500.5	0.02	99.50
143.0-144.0	16.7	1.1	4501.6	0.02	99.52

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	16.8	1.1	4502.7	0.02	99.55
145.0-146.0	16.9	1.1	4503.8	0.02	99.57
146.0-147.0	17.0	1.0	4504.8	0.02	99.59
147.0-148.0	17.1	1.0	4505.8	0.02	99.62
148.0-149.0	17.2	1.0	4506.8	0.02	99.64
149.0-150.0	17.3	1.0	4507.8	0.02	99.66
150.0-151.0	17.4	0.9	4508.7	0.02	99.68
151.0-152.0	17.5	0.9	4509.6	0.02	99.70
152.0-153.0	17.6	0.9	4510.5	0.02	99.72
153.0-154.0	17.7	0.9	4511.4	0.02	99.74
154.0-155.0	17.8	0.8	4512.2	0.02	99.76
155.0-156.0	17.9	0.8	4513.0	0.02	99.78
156.0-157.0	17.9	0.8	4513.8	0.02	99.79
157.0-158.0	18.0	0.8	4514.6	0.02	99.81
158.0-159.0	18.1	0.7	4515.3	0.02	99.83
159.0-160.0	18.2	0.7	4516.0	0.02	99.84
160.0-161.0	18.3	0.7	4516.7	0.01	99.86
161.0-162.0	18.4	0.6	4517.3	0.01	99.87
162.0-163.0	18.5	0.6	4517.9	0.01	99.88
163.0-164.0	18.6	0.6	4518.5	0.01	99.90
164.0-165.0	18.7	0.5	4519.0	0.01	99.91
165.0-166.0	18.7	0.5	4519.5	0.01	99.92
166.0-167.0	18.8	0.5	4520.0	0.01	99.93
167.0-168.0	18.9	0.4	4520.5	0.01	99.94
168.0-169.0	19.0	0.4	4520.9	0.01	99.95
169.0-170.0	19.1	0.4	4521.3	0.01	99.96
170.0-171.0	19.2	0.3	4521.6	0.01	99.97
171.0-172.0	19.3	0.3	4521.9	0.01	99.97
172.0-173.0	19.4	0.3	4522.2	0.01	99.98
173.0-174.0	19.5	0.2	4522.5	0.01	99.99
174.0-175.0	19.5	0.2	4522.7	0.00	99.99
175.0-176.0	19.6	0.2	4522.8	0.00	99.99
176.0-177.0	19.7	0.1	4523.0	0.00	100.00
177.0-178.0	19.8	0.1	4523.1	0.00	100.00
178.0-179.0	19.9	0.1	4523.1	0.00	100.00
179.0-180.0	19.9	0.0	4523.1	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°): 2080.59 lm

%lum = 46.0%

%lamp = 46.0%

cone flux(120°): 3075.07 lm

%lum = 68.0%

%lamp = 68.0%

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	1366.0	1365.1	1366.0	1366.5	1366.6	1366.1	1366.0	1365.1	1366.0	1366.5
G1.0	1366.9	1365.3	1365.3	1365.8	1365.4	1365.5	1365.6	1364.4	1365.4	1366.1
G2.0	1366.7	1365.0	1364.7	1364.6	1364.1	1364.1	1364.5	1363.6	1364.4	1365.5
G3.0	1366.7	1364.1	1363.4	1362.9	1362.2	1362.3	1362.5	1362.0	1363.0	1364.0
G4.0	1365.7	1363.2	1361.9	1360.8	1359.9	1360.3	1360.9	1360.2	1361.0	1362.2
G5.0	1364.1	1361.4	1359.3	1358.0	1357.2	1358.0	1358.2	1357.5	1358.6	1360.2
G6.0	1362.6	1359.4	1356.1	1353.8	1353.5	1354.8	1355.0	1354.4	1355.3	1356.9
G7.0	1360.5	1356.8	1353.1	1349.8	1349.3	1351.4	1351.5	1350.8	1351.8	1353.2
G8.0	1358.0	1353.7	1349.0	1345.3	1345.1	1347.5	1347.4	1346.9	1347.3	1348.5
G9.0	1354.6	1350.0	1343.9	1339.6	1339.4	1342.7	1343.3	1343.1	1342.3	1344.1
G10.0	1351.4	1346.0	1339.4	1334.1	1334.0	1337.7	1338.5	1338.3	1337.3	1338.7
G11.0	1347.2	1341.7	1333.2	1326.9	1327.5	1332.6	1333.0	1332.4	1331.4	1332.6
G12.0	1342.8	1337.0	1327.4	1320.6	1320.9	1326.3	1327.7	1327.3	1325.3	1326.1
G13.0	1338.2	1331.3	1320.2	1313.0	1313.9	1320.4	1322.3	1321.5	1318.3	1319.1
G14.0	1332.5	1324.8	1312.8	1304.5	1305.2	1313.4	1315.4	1314.5	1310.5	1311.2
G15.0	1327.7	1319.1	1305.3	1296.0	1297.4	1306.7	1309.3	1308.1	1302.7	1303.1
G16.0	1321.0	1311.7	1296.8	1286.4	1288.0	1298.5	1301.6	1300.3	1293.8	1293.7
G17.0	1314.7	1305.2	1288.2	1276.3	1279.0	1290.8	1294.3	1292.4	1285.1	1284.6
G18.0	1308.6	1298.2	1279.3	1266.8	1269.4	1282.2	1287.0	1284.7	1275.6	1274.8
G19.0	1301.1	1289.4	1269.1	1255.4	1258.7	1273.1	1278.1	1275.4	1265.4	1263.9
G20.0	1294.1	1281.1	1258.8	1244.2	1248.6	1264.4	1270.1	1266.6	1254.9	1253.1
G21.0	1286.6	1272.8	1248.9	1233.3	1237.5	1254.9	1261.4	1257.4	1244.5	1242.4
G22.0	1277.8	1263.1	1236.9	1220.8	1225.1	1244.1	1251.9	1247.0	1232.9	1230.0
G23.0	1269.4	1253.9	1225.7	1208.1	1213.6	1234.1	1242.6	1237.0	1221.2	1217.9
G24.0	1259.7	1243.2	1213.4	1194.2	1200.1	1222.4	1231.9	1225.7	1208.6	1204.2
G25.0	1250.8	1233.2	1201.0	1180.6	1187.8	1211.9	1221.9	1214.3	1196.7	1191.5
G26.0	1241.6	1222.2	1188.5	1167.4	1174.5	1201.0	1212.0	1203.5	1183.6	1177.7
G27.0	1231.0	1211.1	1174.1	1151.6	1160.2	1187.8	1200.1	1191.4	1169.5	1163.0
G28.0	1221.1	1200.1	1161.1	1137.4	1146.1	1175.6	1189.3	1179.3	1155.8	1148.5
G29.0	1210.4	1188.5	1147.5	1122.7	1132.3	1163.8	1177.8	1166.8	1142.2	1134.4
G30.0	1199.2	1175.9	1132.3	1105.9	1116.3	1150.3	1165.5	1153.5	1127.1	1118.4
G31.0	1188.0	1163.0	1118.0	1090.6	1101.8	1137.1	1153.7	1141.2	1112.4	1102.6
G32.0	1175.8	1149.9	1101.4	1073.0	1085.7	1123.3	1139.9	1127.3	1096.3	1085.9
G33.0	1164.2	1137.0	1087.0	1057.2	1069.8	1109.2	1127.5	1113.6	1080.6	1069.4
G34.0	1152.2	1124.0	1071.9	1040.1	1054.4	1095.8	1114.8	1099.2	1064.6	1052.7
G35.0	1138.6	1109.2	1054.5	1022.5	1036.4	1080.4	1100.0	1084.3	1047.6	1034.6
G36.0	1126.4	1095.6	1038.4	1004.8	1020.5	1066.0	1086.8	1069.9	1031.6	1018.0

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	1113.6	1081.2	1022.3	987.7	1003.6	1051.3	1072.3	1054.1	1013.2	998.5
G38.0	1099.3	1066.2	1003.8	968.9	985.5	1035.5	1057.9	1039.1	996.8	981.3
G39.0	1085.5	1051.3	987.5	950.5	967.8	1020.1	1043.9	1024.5	979.4	963.0
G40.0	1070.7	1035.6	968.5	931.2	949.3	1003.5	1028.0	1007.3	961.3	943.6
G41.0	1056.1	1020.3	951.9	912.2	931.2	987.4	1013.7	992.2	943.2	925.7
G42.0	1042.2	1005.3	934.0	894.1	913.9	972.0	998.3	976.1	926.1	906.6
G43.0	1026.9	988.2	915.3	873.2	894.2	954.9	982.2	958.8	907.0	886.5
G44.0	1012.0	972.6	896.9	853.9	876.6	938.3	966.4	942.9	889.1	867.2
G45.0	996.8	956.8	879.4	835.3	857.8	921.5	949.4	925.4	868.7	846.4
G46.0	980.5	939.2	859.3	814.0	838.3	904.0	934.1	908.6	851.0	827.8
G47.0	964.8	922.8	841.6	794.8	819.5	887.0	917.7	891.6	832.0	807.6
G48.0	947.9	905.4	821.0	773.0	799.4	868.7	900.7	873.4	811.4	785.9
G49.0	931.8	888.2	802.9	753.9	780.2	852.2	884.4	856.1	793.1	766.7
G50.0	916.3	872.1	783.7	733.6	762.2	834.6	868.7	839.3	773.9	746.0
G51.0	898.6	853.5	764.0	712.4	741.1	815.5	850.3	820.2	753.6	724.8
G52.0	883.0	836.8	744.8	692.0	721.8	798.7	834.6	803.5	735.1	705.0
G53.0	866.5	819.3	726.5	672.7	703.3	781.5	817.0	785.2	713.5	682.5
G54.0	849.3	801.1	705.8	650.4	682.0	763.0	800.0	767.7	694.9	662.7
G55.0	832.6	783.5	687.3	630.7	663.4	745.4	783.8	750.9	675.5	641.9
G56.0	815.4	765.4	666.3	608.0	642.0	727.1	765.4	731.5	654.8	620.2
G57.0	798.5	748.1	647.8	588.7	623.6	709.4	749.2	714.9	635.2	599.3
G58.0	781.7	730.6	627.4	566.9	604.0	692.0	732.3	697.4	616.5	579.6
G59.0	763.5	711.8	607.2	545.5	582.9	673.1	713.6	678.8	595.2	556.8
G60.0	747.5	694.5	588.2	525.0	564.6	656.2	697.5	661.6	576.5	537.0
G61.0	729.1	676.2	568.1	503.4	543.6	637.4	680.0	643.4	556.2	514.1
G62.0	713.2	659.1	549.2	482.9	525.2	620.8	663.3	625.9	536.8	494.2
G63.0	696.2	642.3	530.0	463.6	506.1	603.7	647.1	609.3	518.3	474.6
G64.0	678.7	624.4	510.3	441.4	485.4	585.0	629.9	591.5	497.5	452.0
G65.0	662.0	607.4	492.1	421.0	467.4	568.9	613.2	574.3	479.3	432.3
G66.0	646.3	591.2	473.6	401.7	449.0	551.9	597.6	558.2	460.6	412.0
G67.0	628.2	572.9	453.2	379.9	429.9	534.3	579.8	539.9	441.6	390.7
G68.0	611.5	556.1	436.0	361.0	411.9	517.9	564.4	524.0	424.1	371.4
G69.0	594.4	538.8	416.7	339.5	393.5	500.9	546.4	506.7	404.7	349.5
G70.0	578.3	522.4	399.8	321.1	375.8	484.8	531.0	490.6	387.8	330.6
G71.0	563.0	506.9	382.6	301.9	359.6	468.9	516.2	475.4	370.3	310.9
G72.0	545.7	489.4	364.1	282.1	341.2	452.4	499.0	458.0	352.4	290.5
G73.0	530.6	474.1	347.8	263.1	324.5	437.8	484.5	443.1	335.5	271.3

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 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	514.9	458.6	332.1	245.4	309.0	422.5	469.5	427.8	319.8	253.3
G75.0	498.6	442.3	314.4	225.8	291.7	406.8	453.8	411.9	302.2	233.0
G76.0	483.1	427.0	298.6	208.5	276.8	391.9	438.7	397.1	287.2	215.6
G77.0	467.5	411.3	282.6	189.5	260.4	376.8	423.7	382.0	270.4	195.9
G78.0	452.6	396.4	267.4	173.3	246.4	362.5	409.1	367.5	256.0	179.0
G79.0	438.0	381.8	253.3	156.6	232.0	348.5	395.7	354.0	241.6	162.0
G80.0	422.7	367.1	237.6	139.0	217.5	334.2	380.6	339.0	226.6	144.4
G81.0	408.5	352.8	224.4	123.8	204.1	320.8	367.3	325.9	212.9	128.0
G82.0	395.1	339.7	211.0	108.3	191.1	308.1	352.7	311.6	199.3	111.4
G83.0	380.0	325.0	197.2	92.7	177.9	294.1	340.1	299.1	186.6	96.1
G84.0	367.0	312.5	184.6	78.4	166.1	282.1	327.4	286.5	174.4	82.0
G85.0	352.5	298.4	171.4	63.8	154.1	268.8	314.1	273.8	162.0	66.5
G86.0	340.1	286.5	160.3	50.5	143.1	257.5	301.9	261.7	151.3	53.4
G87.0	327.2	274.0	149.4	38.3	132.7	245.9	289.8	250.7	140.5	40.5
G88.0	314.4	261.1	137.9	25.2	121.8	233.8	277.4	238.2	130.1	27.4
G89.0	302.1	250.0	127.7	15.1	112.0	223.0	265.7	227.6	120.1	16.2
G90.0	290.6	238.6	118.4	9.9	103.2	211.9	253.8	215.8	110.4	8.3
G91.0	277.9	226.9	108.3	9.2	94.0	200.7	243.4	205.9	101.4	7.6
G92.0	266.9	216.5	99.3	8.6	86.5	190.8	232.7	195.5	93.5	7.2
G93.0	254.7	204.8	90.2	7.9	78.7	179.8	221.8	185.4	86.5	6.8
G94.0	243.6	194.8	83.3	7.3	72.3	171.4	212.0	176.4	79.5	6.5
G95.0	232.6	184.6	77.0	7.0	66.0	163.4	203.2	168.3	73.4	6.4
G96.0	221.4	174.8	70.3	6.4	59.5	155.2	193.5	159.4	67.4	6.3
G97.0	211.6	166.7	64.8	6.2	53.9	147.4	185.1	151.7	62.0	6.4
G98.0	202.9	159.1	59.6	6.1	48.5	140.3	176.2	143.5	56.8	6.5
G99.0	193.1	150.7	54.2	6.1	43.0	132.4	168.8	136.1	52.1	6.7
G100.0	185.4	143.2	49.6	6.2	39.1	125.8	160.9	129.3	47.9	7.0
G101.0	176.1	135.8	44.5	6.4	35.2	118.2	152.6	121.8	43.1	7.1
G102.0	168.1	128.9	40.8	6.7	32.0	111.9	145.4	115.3	39.8	7.3
G103.0	160.8	122.6	36.9	6.8	28.6	105.4	138.4	108.9	36.3	7.5
G104.0	152.4	115.4	33.4	7.0	25.2	98.6	130.6	102.3	32.7	7.7
G105.0	145.6	109.3	30.3	7.2	22.5	92.8	124.1	96.3	29.7	7.8
G106.0	137.9	102.8	27.4	7.5	19.6	86.5	117.0	90.1	26.4	8.1
G107.0	131.2	97.0	25.0	7.7	17.8	81.0	110.7	84.8	23.8	8.2
G108.0	124.6	91.4	22.9	7.9	15.8	75.4	104.6	79.7	21.3	8.4
G109.0	117.5	86.5	20.5	8.1	13.5	69.9	98.5	74.1	18.3	8.6
G110.0	111.2	80.7	18.1	8.2	12.6	64.9	92.7	69.2	16.1	8.8

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: 9.010 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	105.1	75.7	16.1	8.4	11.3	60.2	87.2	64.9	14.4	9.0
G112.0	98.9	70.9	14.2	8.6	11.0	55.2	82.0	59.8	13.3	9.3
G113.0	93.6	66.5	12.8	8.8	11.1	50.4	76.8	55.4	12.9	9.4
G114.0	87.4	61.7	11.7	9.0	11.2	44.5	71.6	49.3	12.9	9.6
G115.0	83.0	57.5	11.3	9.2	11.2	41.2	66.8	45.0	12.9	9.9
G116.0	77.7	51.7	11.4	9.4	11.4	37.5	62.3	41.7	12.9	10.1
G117.0	72.6	46.8	11.6	9.6	11.6	34.0	57.5	37.6	13.0	10.3
G118.0	67.9	43.0	11.7	9.9	11.7	31.0	53.3	34.5	13.0	10.4
G119.0	63.5	39.6	11.8	10.0	11.9	28.2	49.2	31.4	13.1	10.7
G120.0	58.6	35.9	11.9	10.3	12.2	25.0	45.1	28.5	13.3	10.9
G121.0	54.5	33.1	12.2	10.5	12.3	23.1	41.8	25.6	13.3	11.1
G122.0	50.0	29.9	12.4	10.6	12.4	20.7	37.6	22.8	13.4	11.3
G123.0	46.4	27.1	12.5	10.9	12.6	18.7	34.1	20.6	13.4	11.6
G124.0	43.1	24.8	12.6	11.1	12.7	17.1	31.0	18.8	13.5	11.8
G125.0	38.9	22.1	12.9	11.4	12.9	15.9	27.6	17.3	13.7	12.1
G126.0	35.6	20.1	13.1	11.7	13.0	15.6	24.8	16.9	13.9	12.2
G127.0	32.2	18.1	13.3	11.8	13.1	15.6	22.2	16.8	13.9	12.4
G128.0	28.8	16.7	13.4	12.1	13.3	15.8	20.2	16.8	14.0	12.6
G129.0	26.2	16.2	13.5	12.3	13.5	15.9	18.8	16.8	14.1	12.8
G130.0	23.3	16.1	13.7	12.5	13.5	16.0	18.3	16.7	14.0	13.0
G131.0	21.3	16.1	13.9	12.7	13.7	15.8	18.3	16.9	14.4	13.2
G132.0	19.0	16.3	14.1	13.0	14.0	16.3	18.3	16.9	14.4	13.4
G133.0	18.0	16.3	14.0	13.1	14.0	16.3	18.3	17.0	14.6	13.6
G134.0	17.9	16.5	14.1	13.3	14.1	16.4	18.3	17.1	14.6	13.8
G135.0	18.0	16.6	14.3	13.5	14.0	16.4	18.4	17.2	14.7	14.1
G136.0	18.0	16.6	14.6	13.7	14.3	16.6	18.4	17.2	14.8	14.1
G137.0	18.1	16.7	14.7	14.0	14.4	16.6	18.4	17.3	15.0	14.3
G138.0	18.1	16.9	14.8	14.0	14.6	16.7	18.4	17.3	15.2	14.6
G139.0	18.1	17.0	15.0	14.2	14.6	16.9	18.4	17.5	15.3	14.7
G140.0	18.2	17.1	15.2	14.4	14.7	16.9	18.5	17.5	15.3	15.1
G141.0	18.3	17.1	15.3	14.6	14.8	17.0	18.5	17.5	15.5	15.2
G142.0	18.3	17.2	15.5	14.9	14.9	17.0	18.5	17.5	15.7	15.3
G143.0	18.3	17.3	15.6	15.1	15.1	17.0	18.6	17.6	15.8	15.5
G144.0	18.4	17.3	15.8	15.3	15.3	17.1	18.5	17.7	15.9	15.8
G145.0	18.4	17.5	16.0	15.5	15.4	17.2	18.6	17.8	16.1	15.9
G146.0	18.5	17.5	16.1	15.6	15.5	17.3	18.6	17.8	16.2	16.1
G147.0	18.5	17.6	16.4	15.8	15.6	17.3	18.5	17.8	16.3	16.3

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 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	18.5	17.8	16.5	16.0	15.8	17.3	18.6	17.9	16.5	16.4
G149.0	18.5	17.7	16.6	16.2	16.0	17.4	18.6	17.9	16.7	16.7
G150.0	18.6	17.9	16.7	16.4	16.1	17.5	18.6	17.9	16.8	16.9
G151.0	18.6	17.9	16.9	16.6	16.3	17.5	18.5	17.9	17.0	17.0
G152.0	18.6	18.0	17.0	16.8	16.5	17.5	18.5	18.0	17.1	17.2
G153.0	18.6	18.0	17.2	17.0	16.6	17.5	18.5	18.0	17.1	17.3
G154.0	18.6	18.0	17.4	17.1	16.7	17.5	18.5	17.9	17.3	17.5
G155.0	18.8	18.1	17.5	17.3	16.8	17.5	18.6	17.9	17.5	17.8
G156.0	18.6	18.2	17.6	17.4	17.0	17.6	18.6	17.9	17.5	17.8
G157.0	18.7	18.3	17.7	17.6	17.2	17.6	18.5	18.0	17.6	18.0
G158.0	18.8	18.3	17.8	17.7	17.3	17.6	18.5	18.0	17.7	18.1
G159.0	18.7	18.4	17.9	18.0	17.5	17.6	18.5	18.0	17.8	18.3
G160.0	18.8	18.4	18.1	18.1	17.6	17.8	18.6	18.1	18.0	18.4
G161.0	18.9	18.5	18.2	18.2	17.8	17.8	18.5	18.2	18.1	18.5
G162.0	18.8	18.5	18.3	18.4	17.9	17.9	18.6	18.4	18.1	18.6
G163.0	18.9	18.5	18.4	18.5	18.0	18.0	18.7	18.4	18.3	18.8
G164.0	19.0	18.8	18.5	18.6	18.1	18.1	18.6	18.5	18.4	18.9
G165.0	19.0	18.8	18.7	18.8	18.2	18.1	18.8	18.6	18.4	19.1
G166.0	19.0	18.9	18.8	18.9	18.3	18.3	18.9	18.6	18.6	19.1
G167.0	19.1	18.9	18.9	19.0	18.4	18.4	18.9	18.8	18.6	19.2
G168.0	19.1	19.0	19.0	19.2	18.6	18.5	19.0	18.8	18.8	19.4
G169.0	19.2	19.0	19.0	19.3	18.7	18.6	19.0	18.8	19.0	19.4
G170.0	19.4	19.1	19.1	19.3	18.9	18.7	19.1	18.9	19.1	19.5
G171.0	19.5	19.1	19.2	19.5	19.1	18.7	19.2	19.0	19.2	19.6
G172.0	19.5	19.3	19.4	19.6	19.2	18.8	19.2	19.0	19.4	19.6
G173.0	19.6	19.4	19.4	19.6	19.4	19.0	19.2	19.1	19.5	19.7
G174.0	19.6	19.5	19.5	19.7	19.5	19.1	19.4	19.4	19.6	19.7
G175.0	19.7	19.5	19.6	19.7	19.7	19.4	19.5	19.5	19.6	19.8
G176.0	19.8	19.5	19.6	19.8	19.7	19.6	19.6	19.7	19.7	19.8
G177.0	19.8	19.6	19.6	19.9	19.8	19.7	19.8	19.8	19.8	19.9
G178.0	20.0	19.7	19.7	20.0	19.8	19.8	19.7	19.8	19.8	20.0
G179.0	20.0	19.7	19.8	20.0	19.9	19.9	20.2	19.8	19.8	20.0
G180.0	20.1	19.8	19.8	19.9	19.8	19.8	20.1	19.8	19.8	20.0

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1366.6	1366.1	1366.0							
G1.0	1366.7	1366.5	1366.9							
G2.0	1366.1	1366.4	1366.7							
G3.0	1364.9	1365.7	1366.7							
G4.0	1363.6	1364.6	1365.7							
G5.0	1362.1	1363.2	1364.1							
G6.0	1359.1	1361.1	1362.6							
G7.0	1356.0	1359.1	1360.5							
G8.0	1352.3	1355.3	1358.0							
G9.0	1348.0	1351.8	1354.6							
G10.0	1343.5	1348.0	1351.4							
G11.0	1338.1	1343.8	1347.2							
G12.0	1332.3	1338.8	1342.8							
G13.0	1326.1	1334.1	1338.2							
G14.0	1318.7	1327.8	1332.5							
G15.0	1311.5	1322.0	1327.7							
G16.0	1303.1	1315.1	1321.0							
G17.0	1294.7	1307.9	1314.7							
G18.0	1286.2	1301.1	1308.6							
G19.0	1276.4	1292.2	1301.1							
G20.0	1266.5	1284.3	1294.1							
G21.0	1256.6	1275.9	1286.6							
G22.0	1244.6	1266.3	1277.8							
G23.0	1233.9	1257.1	1269.4							
G24.0	1221.3	1247.0	1259.7							
G25.0	1209.2	1236.6	1250.8							
G26.0	1197.2	1226.4	1241.6							
G27.0	1183.7	1214.8	1231.0							
G28.0	1170.4	1203.4	1221.1							
G29.0	1157.2	1192.3	1210.4							
G30.0	1142.2	1179.0	1199.2							
G31.0	1127.8	1167.2	1188.0							
G32.0	1112.1	1154.0	1175.8							
G33.0	1097.2	1140.8	1164.2							
G34.0	1081.4	1127.4	1152.2							
G35.0	1064.4	1112.8	1138.6							
G36.0	1048.2	1098.7	1126.4							

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1030.8	1083.8	1113.6							
G38.0	1014.5	1069.5	1099.3							
G39.0	997.6	1055.0	1085.5							
G40.0	979.6	1038.7	1070.7							
G41.0	961.8	1024.3	1056.1							
G42.0	944.7	1009.1	1042.2							
G43.0	924.8	991.8	1026.9							
G44.0	907.5	976.2	1012.0							
G45.0	888.0	958.6	996.8							
G46.0	869.5	942.8	980.5							
G47.0	851.6	926.0	964.8							
G48.0	830.8	908.4	947.9							
G49.0	811.8	892.1	931.8							
G50.0	793.3	875.1	916.3							
G51.0	773.2	857.0	898.6							
G52.0	754.0	839.5	883.0							
G53.0	733.6	821.0	866.5							
G54.0	714.0	803.6	849.3							
G55.0	695.3	786.7	832.6							
G56.0	674.9	767.5	815.4							
G57.0	655.4	750.8	798.5							
G58.0	635.8	733.5	781.7							
G59.0	615.2	715.1	763.5							
G60.0	596.5	697.7	747.5							
G61.0	575.1	679.5	729.1							
G62.0	556.4	662.8	713.2							
G63.0	537.2	645.4	696.2							
G64.0	517.2	627.2	678.7							
G65.0	498.8	610.0	662.0							
G66.0	479.8	593.6	646.3							
G67.0	460.1	575.9	628.2							
G68.0	441.4	558.9	611.5							
G69.0	422.4	541.5	594.4							
G70.0	404.4	524.9	578.3							
G71.0	387.5	509.1	563.0							
G72.0	369.3	491.9	545.7							
G73.0	351.9	476.0	530.6							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	335.0	460.1	514.9							
G75.0	317.6	443.8	498.6							
G76.0	302.1	428.4	483.1							
G77.0	284.8	412.5	467.5							
G78.0	269.5	397.5	452.6							
G79.0	254.9	383.4	438.0							
G80.0	238.7	367.5	422.7							
G81.0	225.3	354.1	408.5							
G82.0	210.7	338.9	395.1							
G83.0	197.2	326.0	380.0							
G84.0	184.2	312.6	367.0							
G85.0	171.2	299.1	352.5							
G86.0	159.1	286.3	340.1							
G87.0	148.2	274.6	327.2							
G88.0	136.4	261.4	314.4							
G89.0	126.4	250.0	302.1							
G90.0	116.0	237.6	290.6							
G91.0	106.4	227.0	277.9							
G92.0	97.5	216.1	266.9							
G93.0	87.8	204.8	254.7							
G94.0	80.5	194.4	243.6							
G95.0	74.4	184.7	232.6							
G96.0	68.0	174.4	221.4							
G97.0	63.1	166.3	211.6							
G98.0	57.7	157.9	202.9							
G99.0	53.2	150.6	193.1							
G100.0	48.8	143.2	185.4							
G101.0	43.2	135.6	176.1							
G102.0	39.8	128.8	168.1							
G103.0	36.2	122.1	160.8							
G104.0	32.8	115.3	152.4							
G105.0	29.9	109.0	145.6							
G106.0	27.1	102.6	137.9							
G107.0	24.7	96.6	131.2							
G108.0	22.6	91.2	124.6							
G109.0	20.3	85.9	117.5							
G110.0	18.1	80.5	111.2							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	16.1	75.6	105.1							
G112.0	14.1	70.5	98.9							
G113.0	12.8	66.1	93.6							
G114.0	11.7	61.3	87.4							
G115.0	11.7	56.9	83.0							
G116.0	11.8	51.3	77.7							
G117.0	11.9	46.8	72.6							
G118.0	12.1	43.1	67.9							
G119.0	12.2	39.6	63.5							
G120.0	12.4	36.1	58.6							
G121.0	12.6	33.2	54.5							
G122.0	12.8	30.1	50.0							
G123.0	13.0	27.3	46.4							
G124.0	13.2	24.8	43.1							
G125.0	13.3	22.2	38.9							
G126.0	13.4	20.2	35.6							
G127.0	13.6	18.1	32.2							
G128.0	13.7	17.0	28.8							
G129.0	14.1	16.7	26.2							
G130.0	14.0	16.7	23.3							
G131.0	14.2	16.7	21.3							
G132.0	14.3	16.9	19.0							
G133.0	14.4	17.0	18.0							
G134.0	14.6	17.1	17.9							
G135.0	14.8	17.2	18.0							
G136.0	15.0	17.1	18.0							
G137.0	15.2	17.3	18.1							
G138.0	15.3	17.3	18.1							
G139.0	15.5	17.5	18.1							
G140.0	15.6	17.5	18.2							
G141.0	15.9	17.6	18.3							
G142.0	16.0	17.7	18.3							
G143.0	16.1	17.8	18.3							
G144.0	16.3	17.9	18.4							
G145.0	16.4	17.9	18.4							
G146.0	16.6	18.0	18.5							
G147.0	16.7	18.0	18.5							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	16.9	18.0	18.5							
G149.0	17.0	18.1	18.5							
G150.0	17.0	18.3	18.6							
G151.0	17.3	18.3	18.6							
G152.0	17.4	18.3	18.6							
G153.0	17.5	18.4	18.6							
G154.0	17.7	18.5	18.6							
G155.0	17.8	18.4	18.8							
G156.0	17.9	18.5	18.6							
G157.0	18.0	18.6	18.7							
G158.0	18.0	18.6	18.8							
G159.0	18.1	18.7	18.7							
G160.0	18.4	18.8	18.8							
G161.0	18.5	18.8	18.9							
G162.0	18.5	18.9	18.8							
G163.0	18.7	18.9	18.9							
G164.0	18.8	19.0	19.0							
G165.0	18.9	19.1	19.0							
G166.0	19.0	19.1	19.0							
G167.0	19.1	19.1	19.1							
G168.0	19.1	19.2	19.1							
G169.0	19.2	19.3	19.2							
G170.0	19.2	19.3	19.4							
G171.0	19.3	19.4	19.5							
G172.0	19.4	19.5	19.5							
G173.0	19.5	19.5	19.6							
G174.0	19.5	19.6	19.6							
G175.0	19.6	19.5	19.7							
G176.0	19.6	19.6	19.8							
G177.0	19.7	19.6	19.8							
G178.0	19.8	19.8	20.0							
G179.0	19.7	19.7	20.0							
G180.0	19.8	19.8	20.1							

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: 9.010 m
Humidity:
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	12571.43
L 0-180(75) av	15331.01
L 0-180(85) av	31867.30
L 90-270(65) av	8413.42
L 90-270(75) av	7385.63
L 90-270(85) av	6231.66
L 45(65) av	10594.15
L 45(75) av	11794.88
L 45(85) av	21499.36

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

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: