

Report No.:

Test Time: 2023-07-27 17:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1200

Luminous Height (mm): 40

Current: 0.515 A

Power Factor: 0.994

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 100

Voltage: 119.6 V

Power: 61.27 W

Photometric Results

CIE Class: Direct

Measurement Flux: 8423.2 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 211.0, 160.5, 188.9, 187.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 124.9, 105.3, 114.6, 113.5

Luminous Efficacy (lm/w): 137.48

Max. Intensity: 2532.43 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 8423.2 lm

Efficiency: 100%

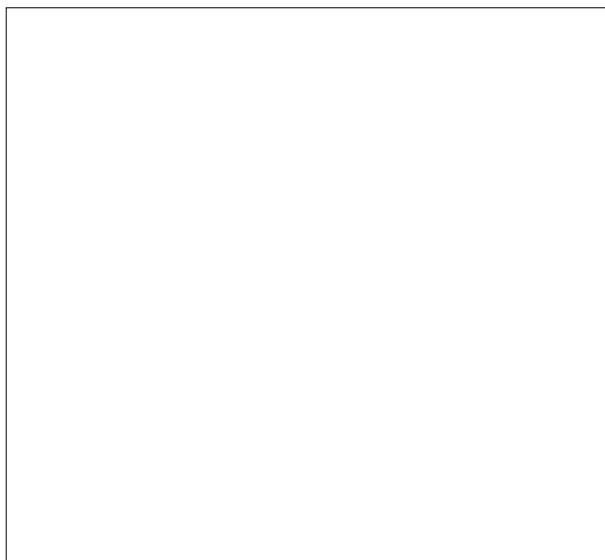
Upward Ratio: 7%

C0r0 Intensity: 2526.54 cd

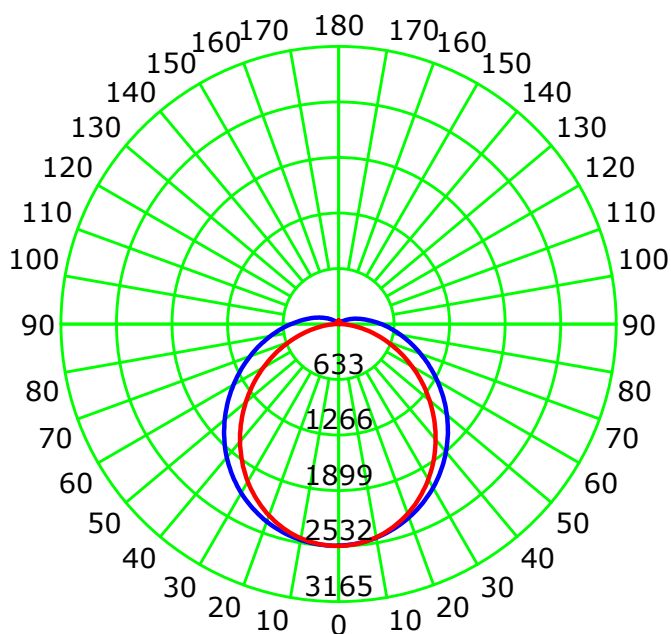
Pos of Max. Intensity: H150 V1

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

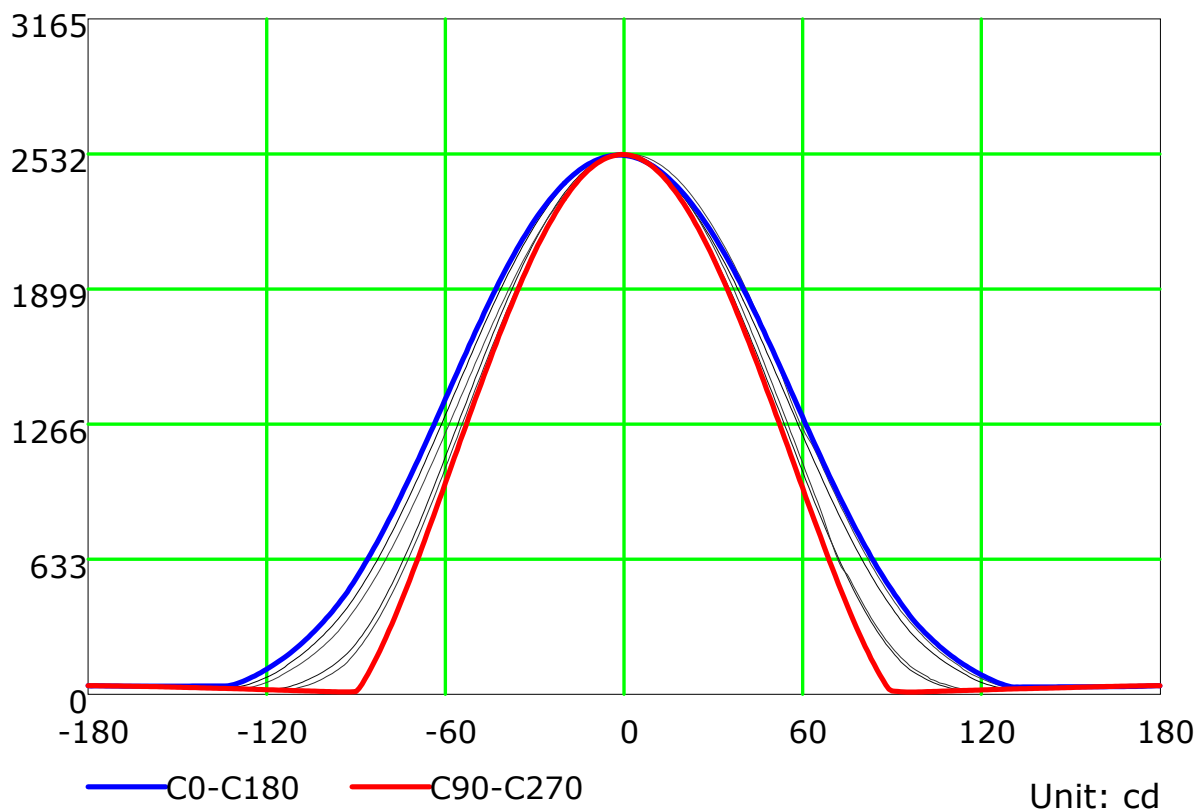
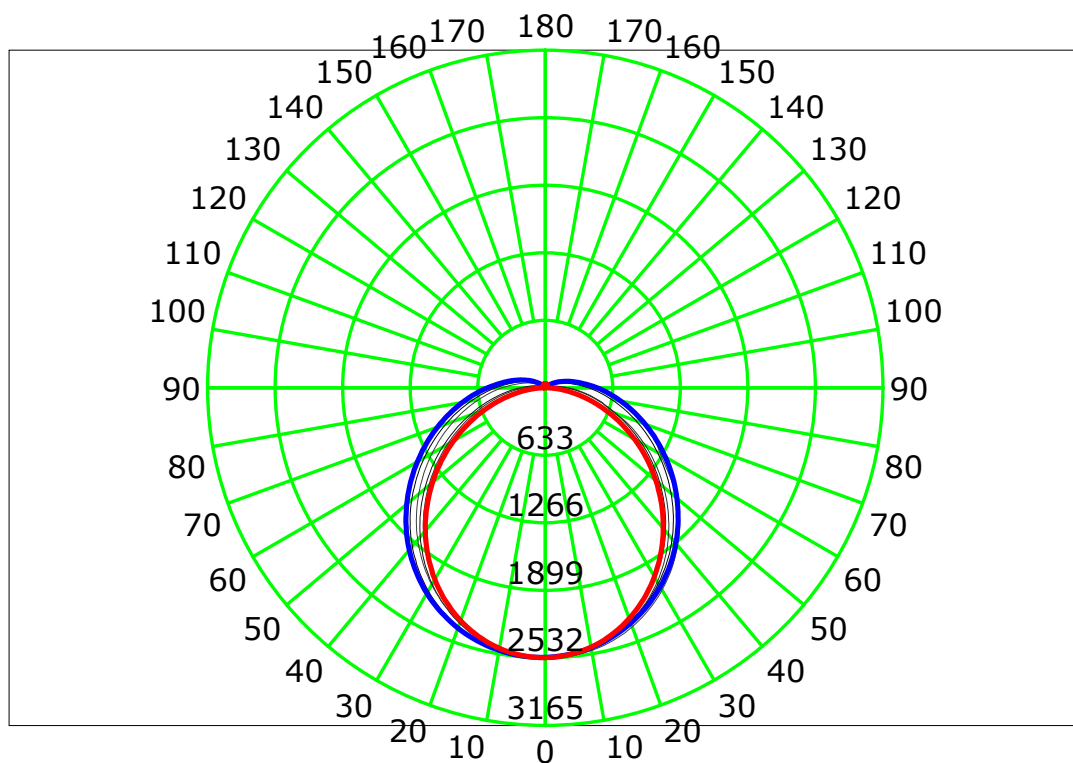
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

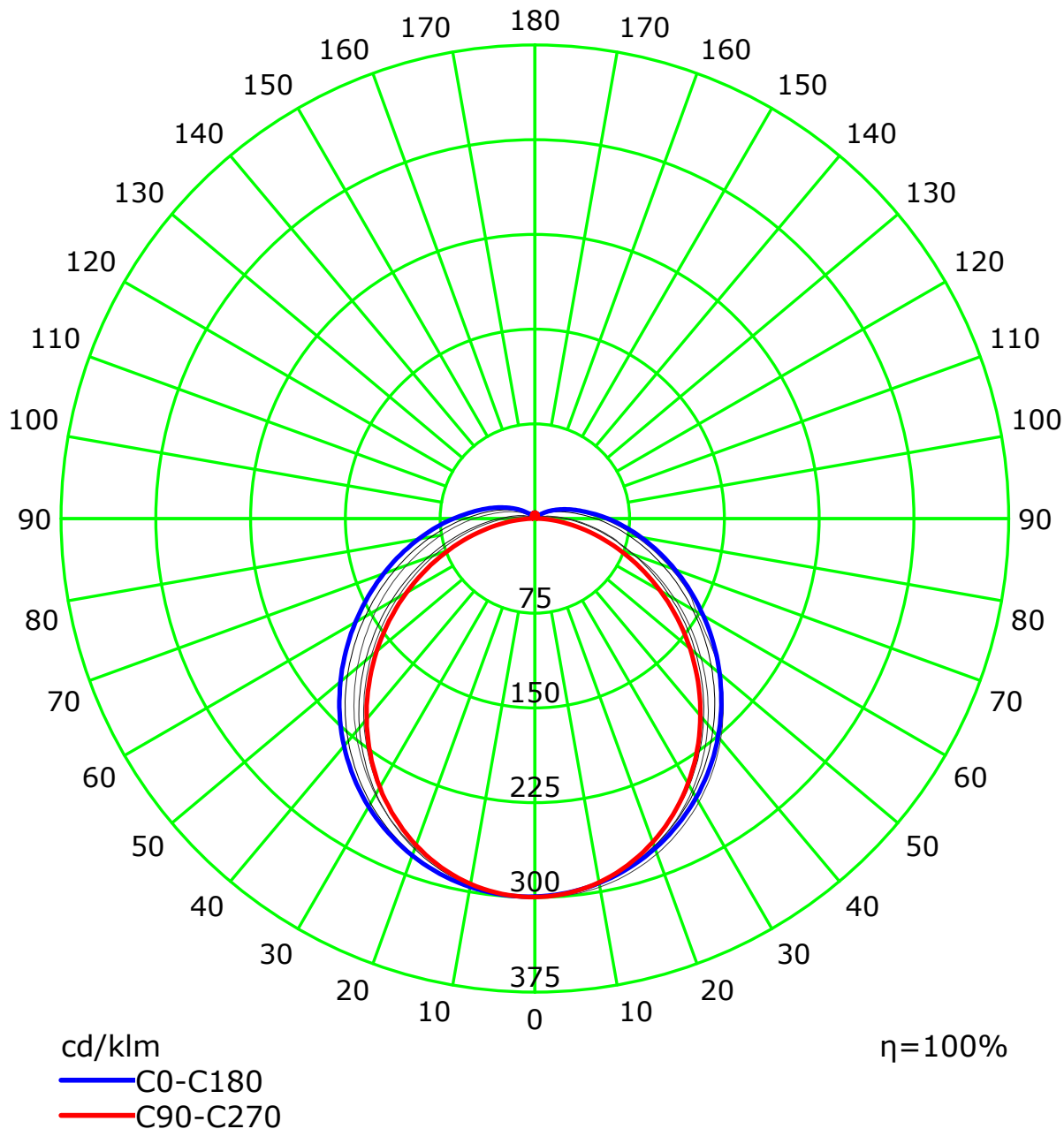
Luminous Intensity Distribution Curve



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)



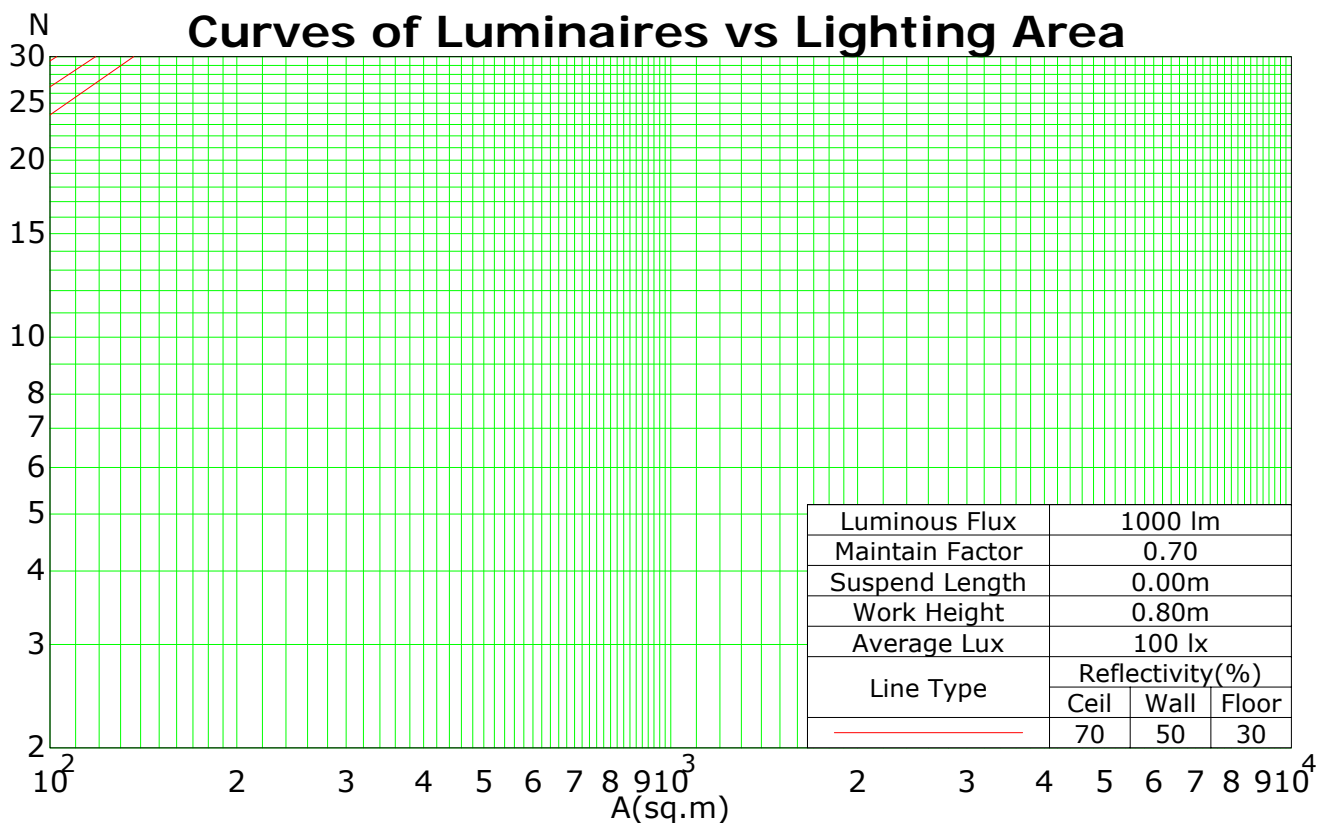
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	0.67	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	0.45	0.43
5	0.73	0.59	0.50	0.43	0.70	0.58	0.49	0.43	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	0.38	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	0.32	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	0.36	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21

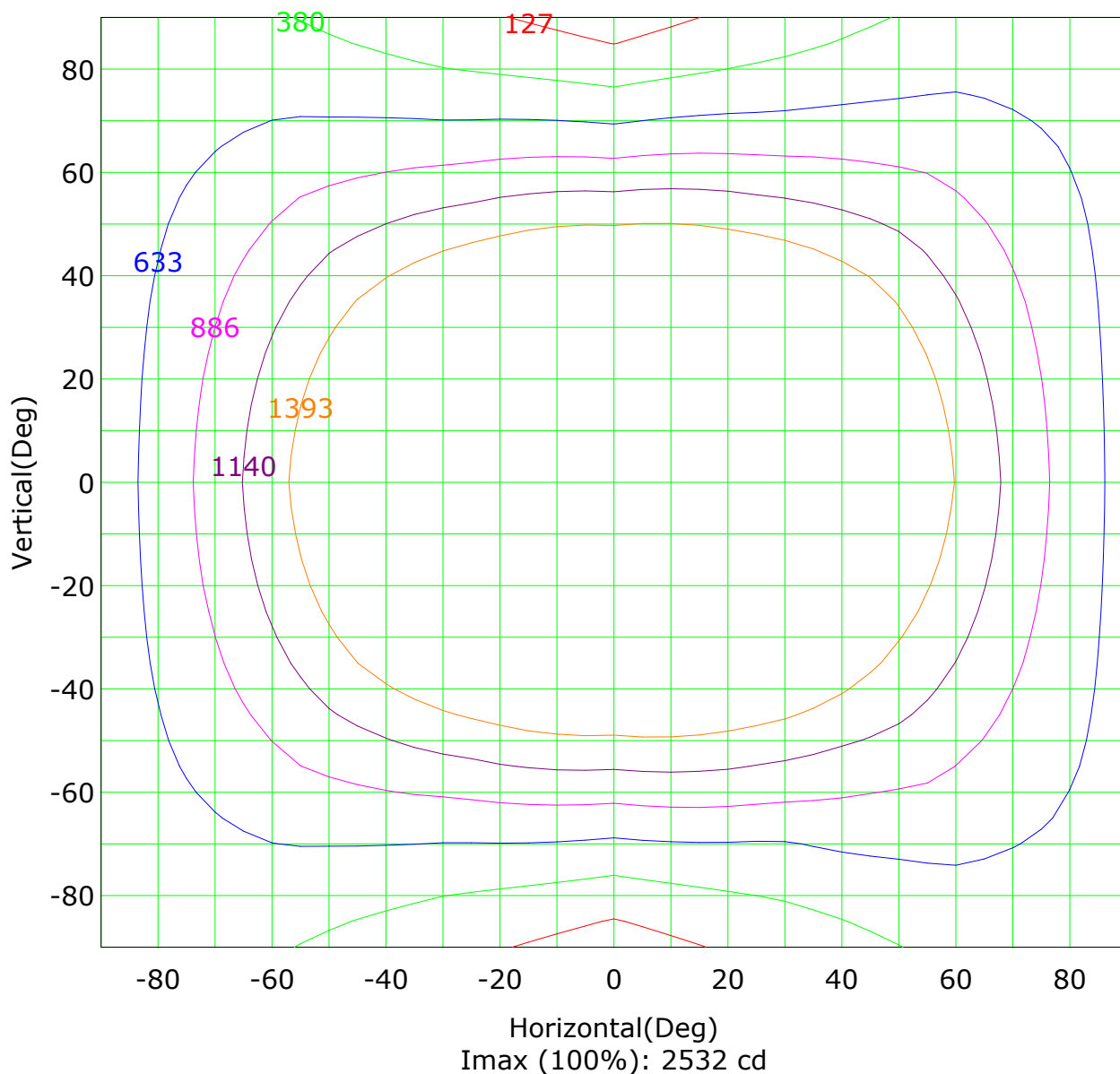
Spacing Criteria (0-180): 1.29
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.37



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)

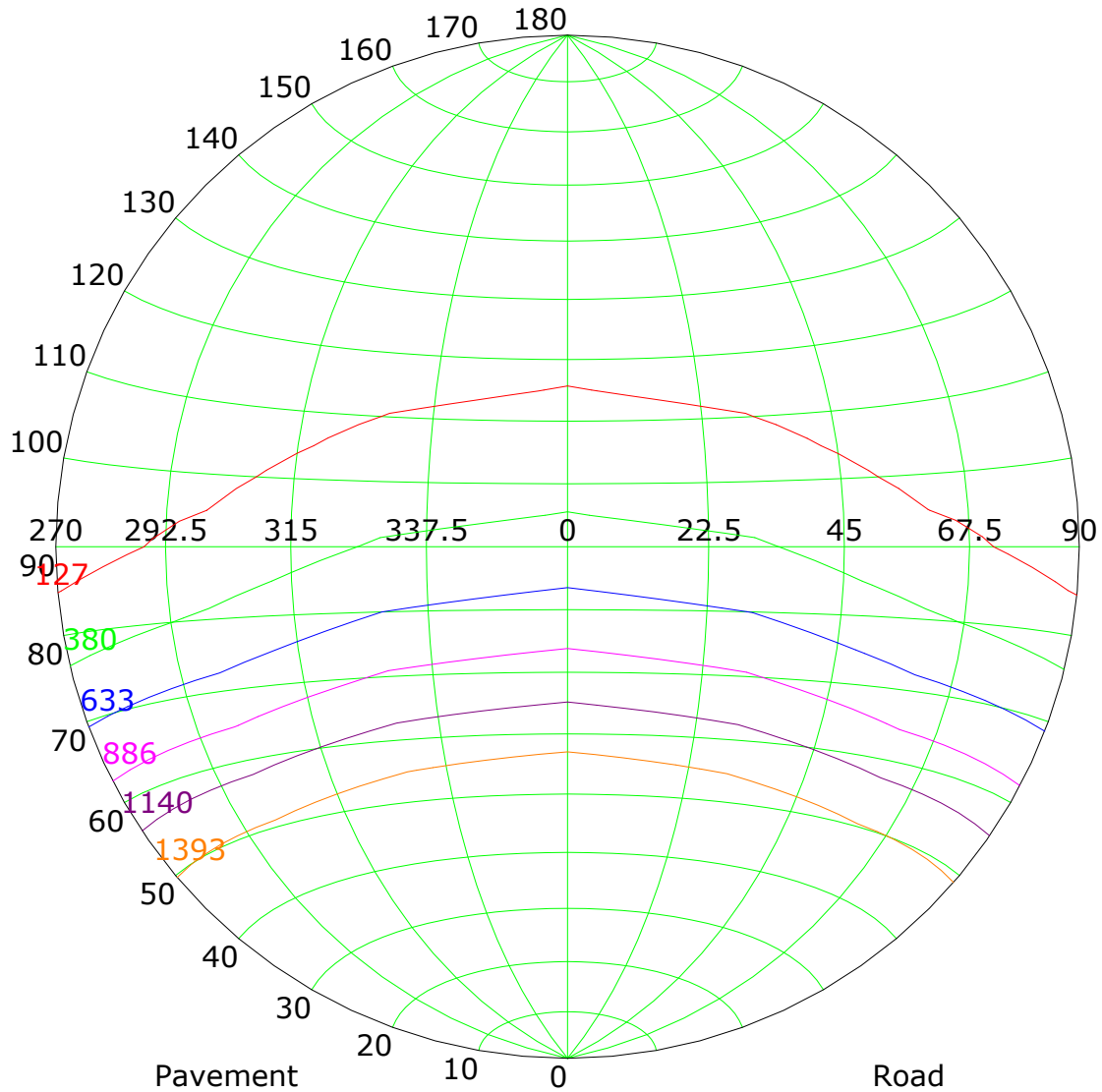


(5%): 127 cd	(15%): 380 cd
(25%): 633 cd	(35%): 886 cd
(45%): 1140 cd	(55%): 1393 cd

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%): 2532 cd

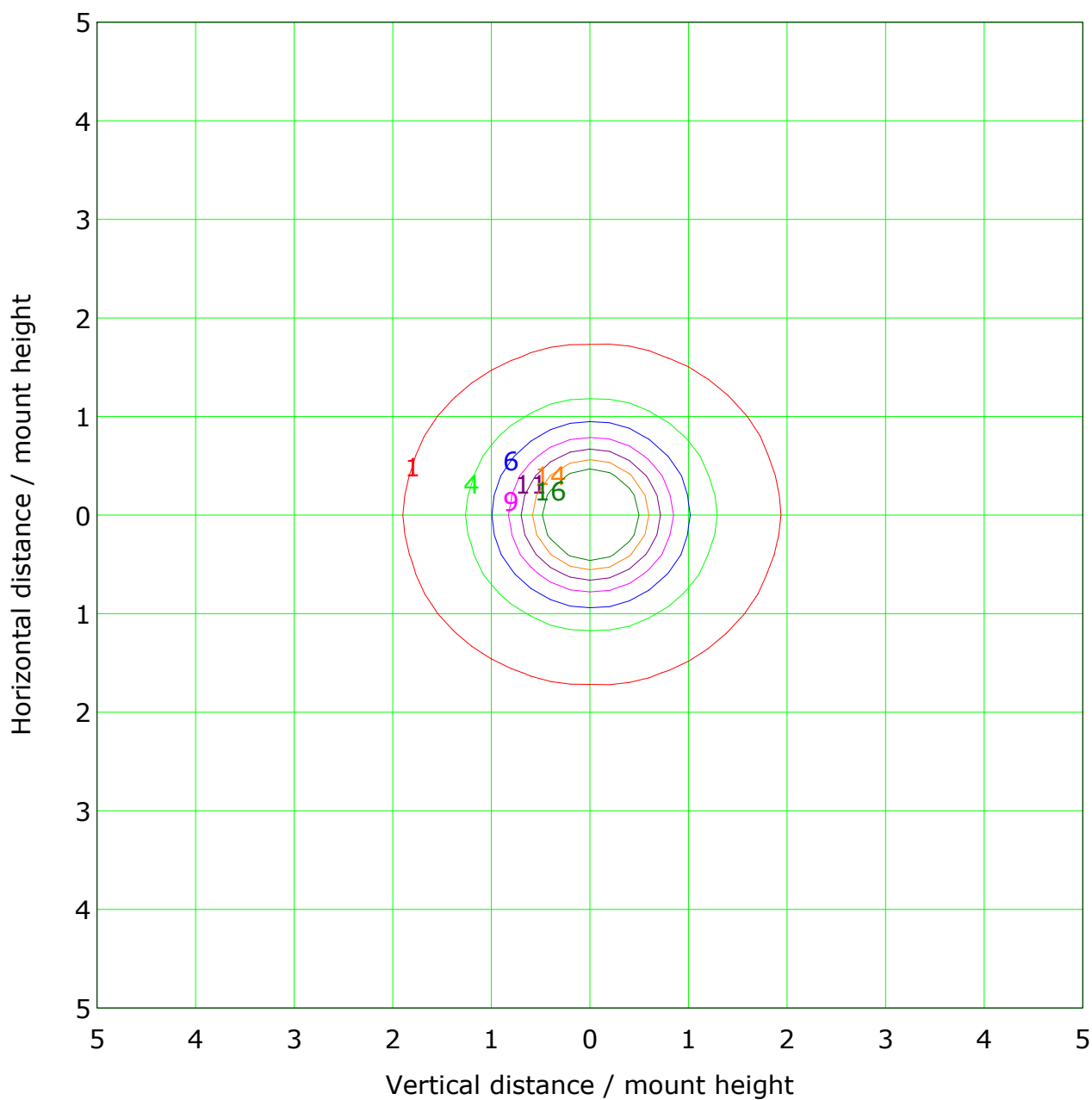
(5%): 127 cd
(25%): 633 cd
(45%): 1140 cd

(15%): 380 cd
(35%): 886 cd
(55%): 1393 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 64.521 cd/klm

IES: Non-cut-off
Max.At80: 93.763 cd/klm
Max.80-90: 93.763 cd/klm

IsoLux Plot



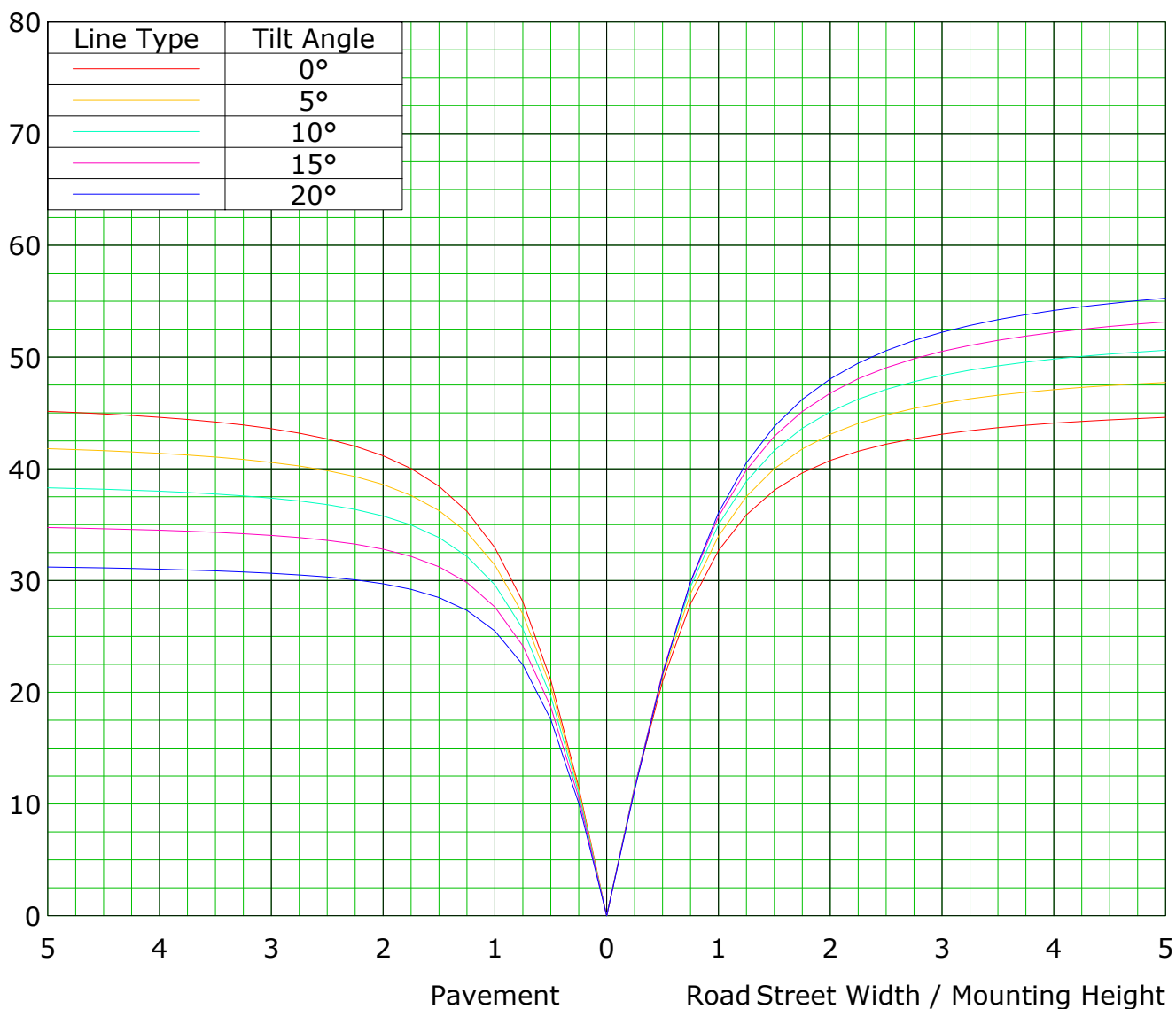
Mounting Height: 10.0m		Max Lux(100%): 25.3 lx	
— (5%):	1.3 lx	— (15%):	3.8 lx
— (25%):	6.3 lx	— (35%):	8.9 lx
— (45%):	11.4 lx	— (55%):	13.9 lx
— (65%):	16.5 lx		

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(%)

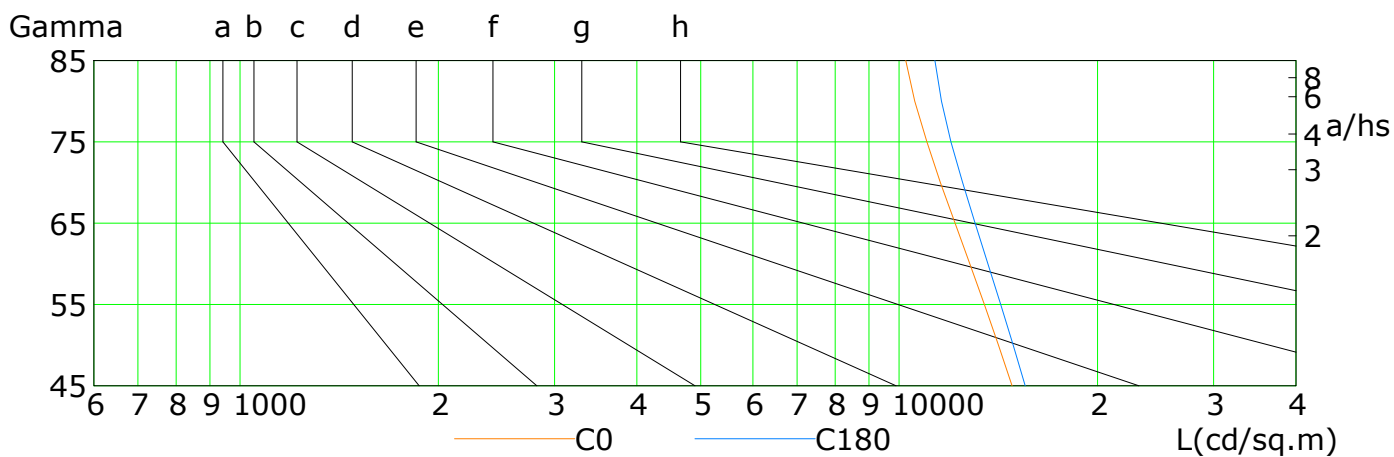
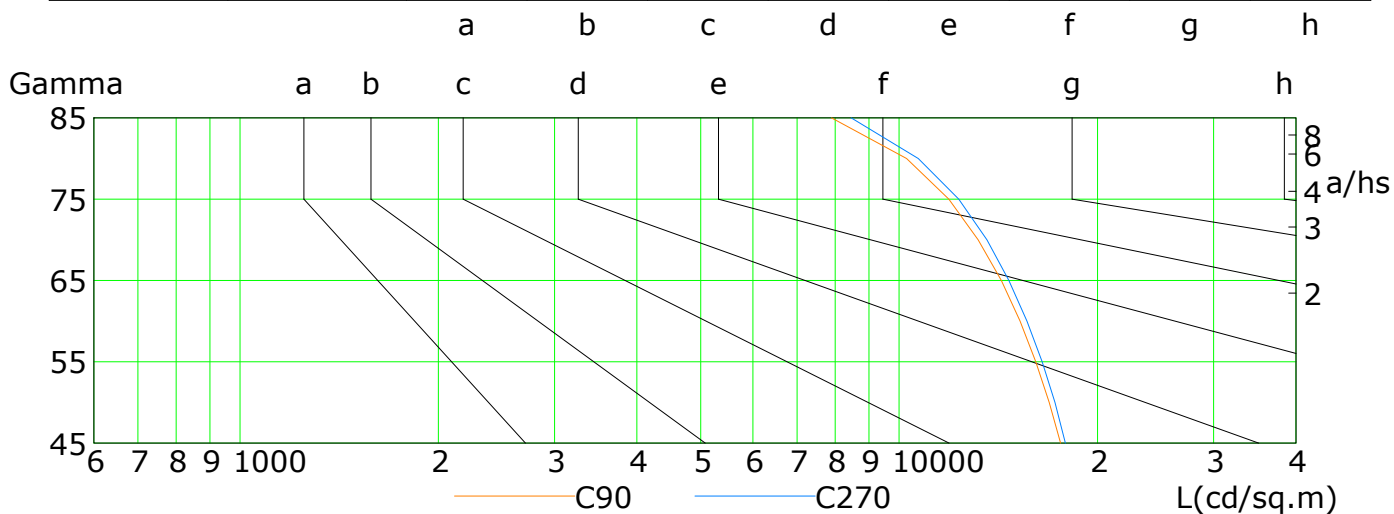


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	14837	14148	13471	12802	12158	11547	11017	10560	10233
C90	17574	16889	16119	15261	14293	13178	11897	10264	7896
C180	15530	14897	14260	13636	13039	12483	11980	11596	11331
C270	17878	17238	16486	15625	14676	13590	12314	10689	8458

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

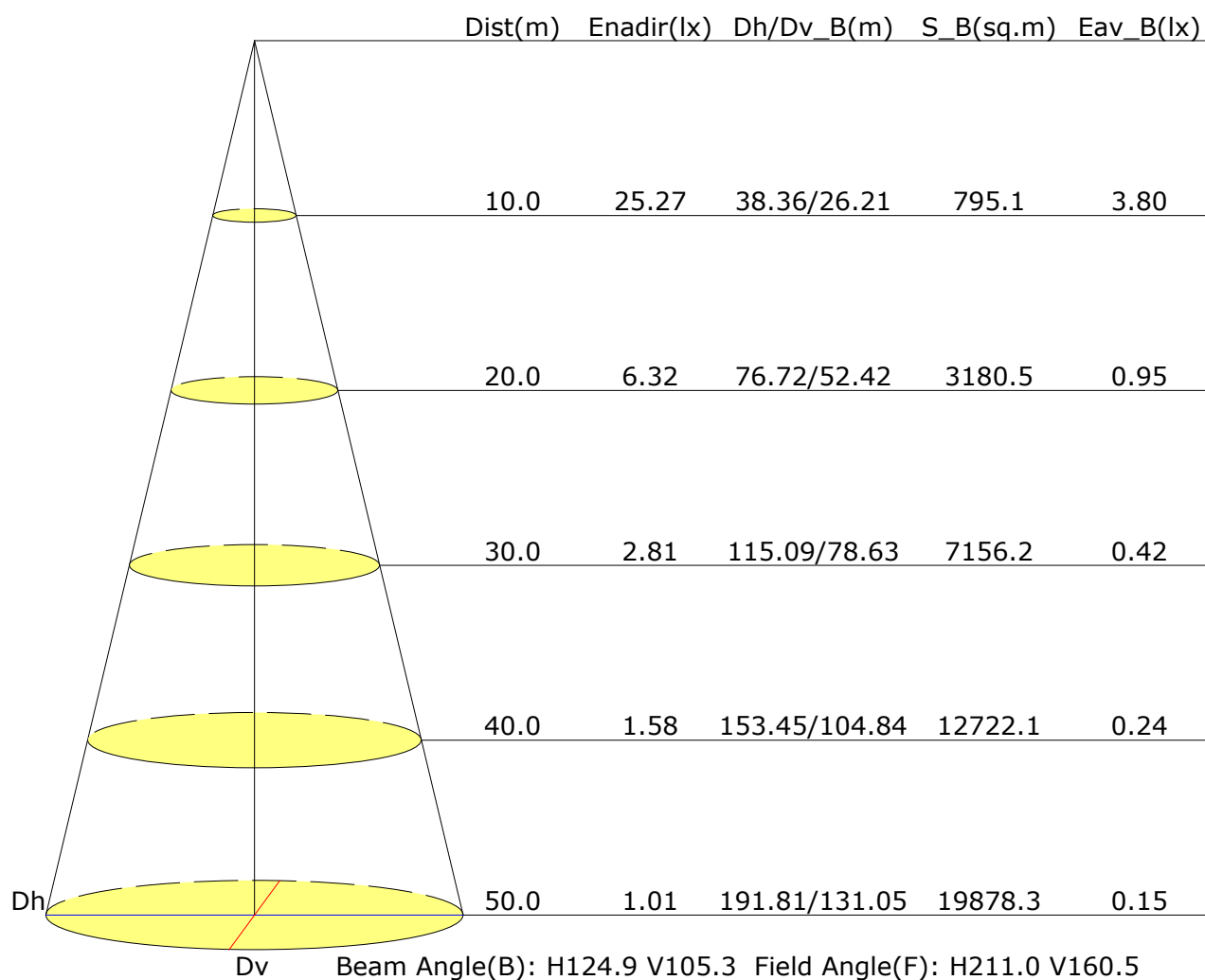
Test Device: GPM-1600L

Distance: 9.010 m

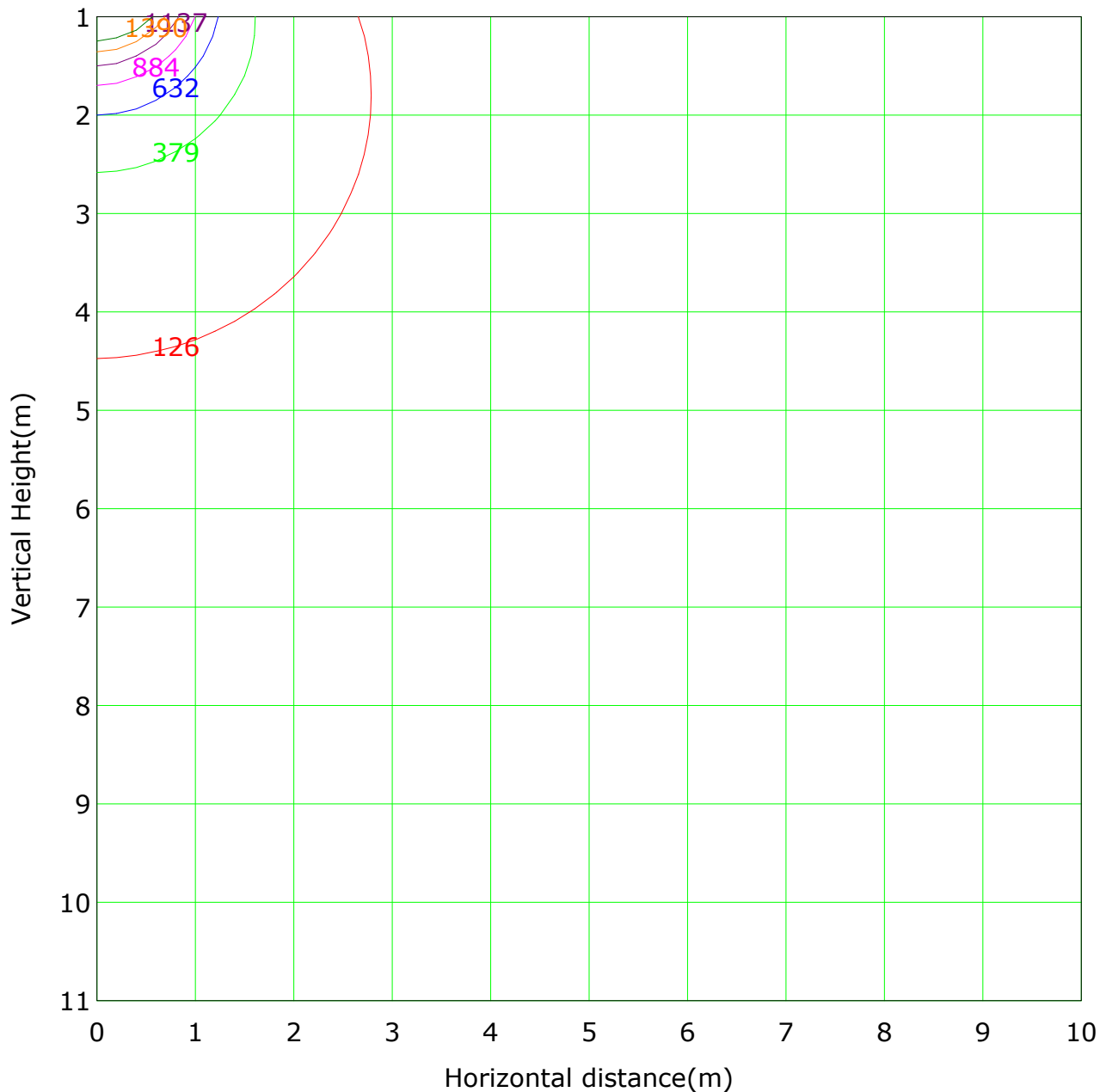
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2526.5 lx

(5%): 126.3 lx	(15%): 379.0 lx
(25%): 631.6 lx	(35%): 884.3 lx
(45%): 1136.9 lx	(55%): 1389.6 lx
(65%): 1642.3 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: 9.010 m
Humidity:
Inspector:

Area Flux Table

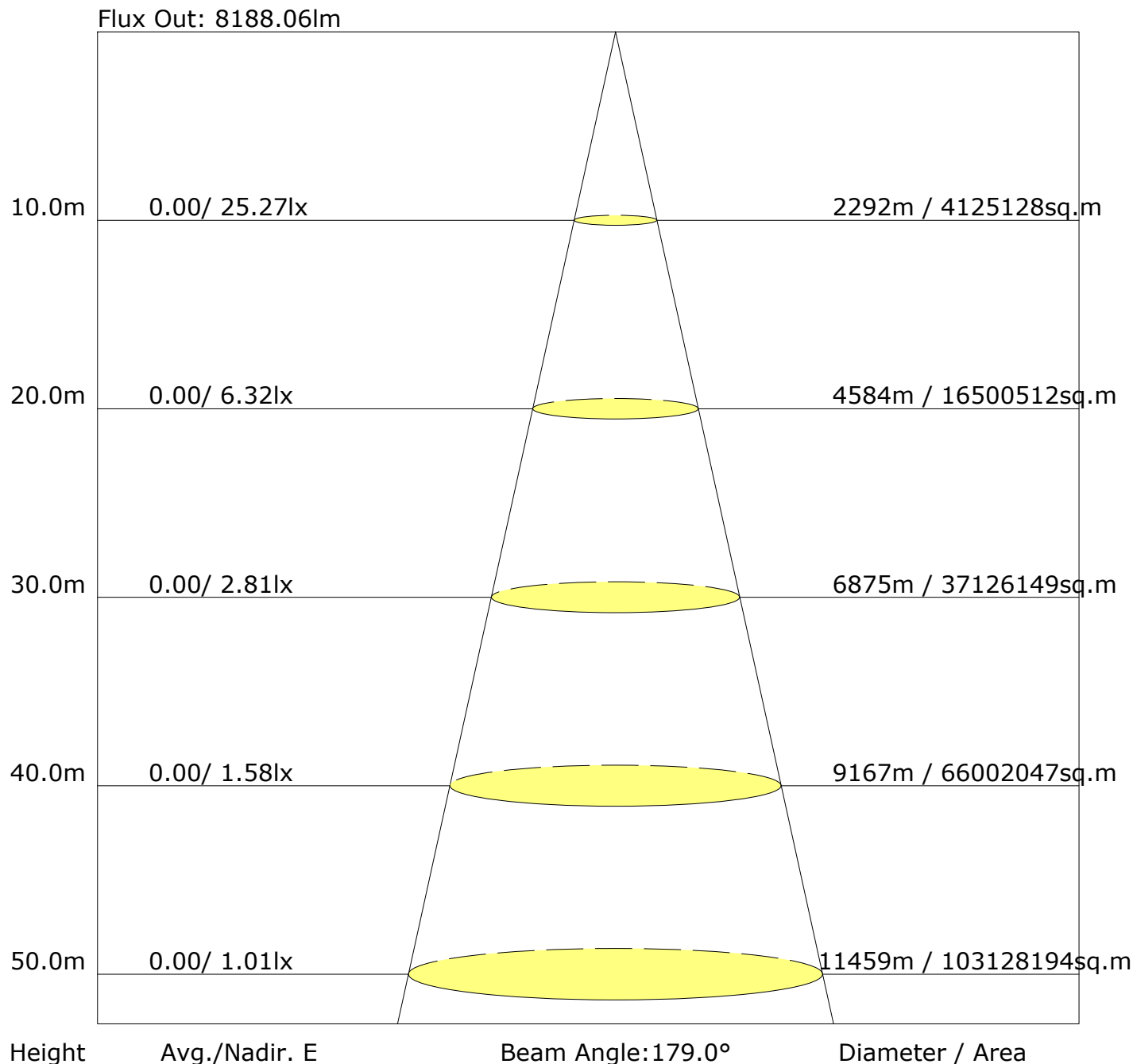
Unit: lm

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)	1.4	4.2	6.8	8.6	9.2	9.0	8.2	6.8	4.9	4.7	6.2	7.2	7.9	8.1	7.5	6.0	3.7	1.3	111.6
30.1	107.8211.5334.2463.6587.7688.5760.6790.9785.1744.4664.2560.7439.1313.1195.3	4.2	6.8	8.6	9.2	9.0	8.2	6.8	4.9	4.7	6.2	7.2	7.9	8.1	7.5	6.0	3.7	1.3	111.6	92.1
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	30.1	1.5	4.7	8.1	11.1	13.0	14.3	14.8	13.9	13.7	14.1	13.7	13.0	11.8	9.9	7.2	4.2	1.3	185.3	185.3
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.5	5.2	9.5	13.9	17.6	20.7	23.0	24.7	24.8	24.5	23.8	21.8	19.3	16.2	12.6	8.5	4.7	1.4	273.8	273.8
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.6	5.7	10.9	16.8	22.5	27.7	32.1	35.3	36.4	36.1	34.3	30.7	26.2	21.0	15.5	9.9	5.2	1.5	369.3	369.3
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.6	6.2	12.2	19.7	27.4	34.8	41.1	45.8	47.8	47.5	44.7	39.6	33.1	25.8	18.2	11.2	5.6	1.5	463.9	463.9
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.7	6.6	13.5	22.2	31.9	41.3	49.4	55.3	58.2	57.8	54.2	47.8	39.4	30.1	20.7	12.5	6.0	1.6	550.2	550.2
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.8	7.0	14.5	24.3	35.4	46.6	56.2	63.3	66.8	66.4	62.1	54.6	44.7	33.6	22.8	13.5	6.4	1.6	621.5	621.5
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.8	7.2	15.3	25.8	37.9	50.2	61.1	68.9	72.9	72.5	67.8	59.3	48.3	36.1	24.3	14.2	6.6	1.7	672.0	672.0
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.9	7.4	15.8	26.8	39.4	52.1	63.4	71.7	75.9	75.6	70.6	61.7	50.3	37.6	25.3	14.7	6.8	1.7	698.6	698.6
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.9	7.4	15.7	26.7	39.3	52.1	63.3	71.7	75.9	75.4	70.4	61.6	50.2	37.5	25.3	14.7	6.8	1.7	697.6	697.6
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.8	7.2	15.2	25.5	37.7	50.0	60.9	68.6	72.5	72.0	67.3	59.0	48.1	36.0	24.3	14.2	6.6	1.7	668.6	668.6
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.8	6.9	14.4	23.7	35.0	46.3	55.8	62.6	66.1	65.7	61.5	54.1	44.4	33.4	22.7	13.4	6.4	1.6	615.8	615.8
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.7	6.5	13.3	21.5	30.9	40.7	48.7	54.5	57.4	57.0	53.5	47.2	39.1	29.9	20.6	12.4	6.0	1.6	542.6	542.6
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.7	6.1	12.0	19.2	26.3	33.8	40.3	44.9	46.9	46.6	44.0	39.0	32.7	25.5	18.1	11.2	5.6	1.5	455.7	455.7
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.6	5.6	10.7	16.4	21.8	26.8	31.2	34.5	35.6	35.4	33.7	30.2	25.8	20.8	15.4	9.9	5.1	1.5	362.0	362.0
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.6	5.1	9.2	13.4	16.8	19.5	21.9	23.8	24.1	23.9	23.4	21.4	19.0	16.1	12.5	8.5	4.7	1.4	266.2	266.2
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.5	4.6	7.9	10.7	12.5	13.4	13.8	13.9	13.3	13.3	13.8	13.5	12.9	11.7	9.9	7.2	4.2	1.3	179.5	179.5
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	1.4	4.1	6.6	8.2	8.8	8.5	7.6	6.3	4.6	4.6	6.1	7.2	7.9	8.1	7.5	6.0	3.7	1.3	108.4	108.4
107.8211.5334.2463.6588.0692.7767.4798.2792.7751.5669.6562.2439.1313.1195.3	30.1	107.8211.5334.2463.6587.7688.5760.6790.9785.1744.4664.2560.7439.1313.1195.3	27.2	7802																

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	21.2	22.6	21.6	22.9	23.3	21.0	22.3	21.4	22.7	23.1
3H	23.0	24.2	23.4	24.6	25.0	22.4	23.7	22.9	24.0	24.5
4H	23.8	25.0	24.3	25.4	25.9	23.0	24.2	23.5	24.6	25.0
6H	24.6	25.7	25.1	26.2	26.6	23.5	24.5	23.9	25.0	25.4
8H	25.0	26.1	25.5	26.5	27.0	23.6	24.7	24.1	25.1	25.6
12H	25.4	26.4	25.8	26.8	27.3	23.7	24.7	24.2	25.2	25.6
X=4H Y=2H	21.8	23.0	22.3	23.4	23.8	21.6	22.8	22.0	23.2	23.6
3H	23.8	24.8	24.3	25.3	25.7	23.2	24.2	23.7	24.7	25.2
4H	24.8	25.7	25.3	26.2	26.7	24.0	24.9	24.5	25.3	25.9
6H	25.8	26.6	26.3	27.1	27.6	24.5	25.3	25.1	25.9	26.4
8H	26.2	27.0	26.8	27.5	28.1	24.7	25.5	25.3	26.0	26.6
12H	26.7	27.3	27.2	27.9	28.5	24.9	25.6	25.5	26.1	26.7
X=8H Y=4H	25.1	25.8	25.6	26.4	26.9	24.3	25.1	24.9	25.6	26.2
6H	26.3	26.9	26.8	27.4	28.0	25.1	25.7	25.7	26.3	26.9
8H	26.9	27.4	27.5	28.0	28.6	25.4	26.0	26.0	26.5	27.2
12H	27.5	28.0	28.1	28.5	29.2	25.7	26.2	26.3	26.7	27.4
X=12H Y=4H	25.1	25.8	25.7	26.3	26.9	24.4	25.1	25.0	25.6	26.2
6H	26.3	26.9	26.9	27.5	28.1	25.3	25.8	25.8	26.4	27.0
8H	27.0	27.5	27.6	28.1	28.7	25.6	26.1	26.2	26.7	27.4
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/-0.8					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 8423lm ($8\log(F/F_0) = 7.4$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

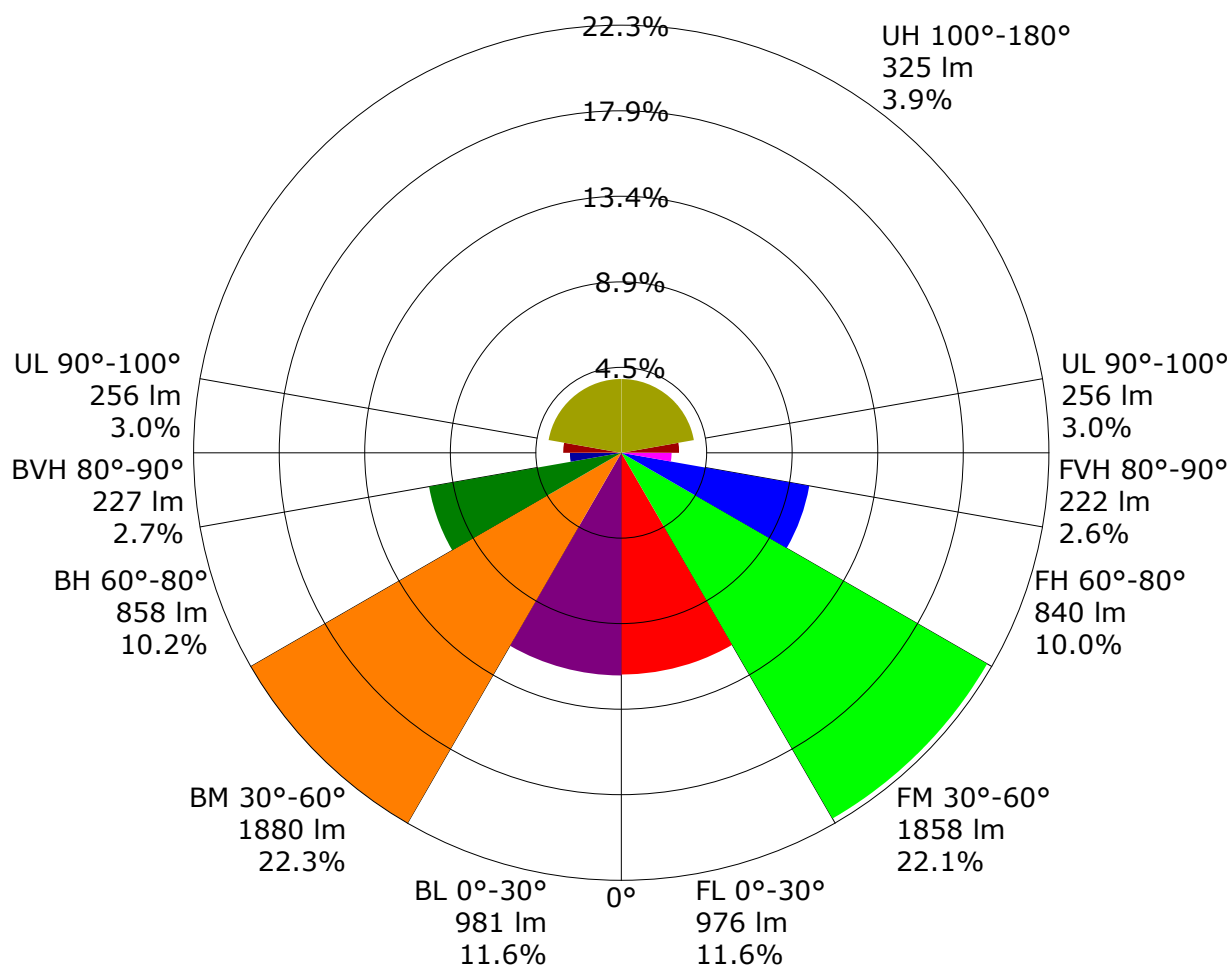
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	3897	46.3
	FL (0°-30°)	976	11.6
	FM (30°-60°)	1858	22.1
	FH (60°-80°)	840	10.0
	FVH (80°-90°)	222	2.6
	BACK LIGHT	3946	46.9
	BL (0°-30°)	981	11.6
	BM (30°-60°)	1880	22.3
	BH (60°-80°)	858	10.2
	BVH (80°-90°)	227	2.7
	UP LIGHT	580	6.9
	UL (90°-100°)	256	3.0
	UH (100°-180°)	325	3.9
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 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	0.73	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	0.52	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:61W 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	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.43	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:61W 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	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	
	0.30		0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	
	0.20		0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.22	0.23	
0.50	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.27	
	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	
0.30	0.50	0.20	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	
	0.30		0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	
	0.20		0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
Rating:61W 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	2528.7	2.4	2.4	0.03	0.03
1.0-2.0	2527.8	7.3	9.7	0.09	0.11
2.0-3.0	2525.9	12.1	21.8	0.14	0.26
3.0-4.0	2523.0	16.9	38.6	0.20	0.46
4.0-5.0	2519.3	21.7	60.3	0.26	0.72
5.0-6.0	2514.5	26.4	86.8	0.31	1.03
6.0-7.0	2508.8	31.1	117.9	0.37	1.40
7.0-8.0	2502.2	35.8	153.7	0.43	1.82
8.0-9.0	2494.7	40.4	194.1	0.48	2.30
9.0-10.0	2486.4	45.0	239.2	0.53	2.84
10.0-11.0	2476.9	49.5	288.6	0.59	3.43
11.0-12.0	2466.5	53.9	342.6	0.64	4.07
12.0-13.0	2455.7	58.3	400.9	0.69	4.76
13.0-14.0	2443.4	62.6	463.4	0.74	5.50
14.0-15.0	2430.4	66.7	530.1	0.79	6.29
15.0-16.0	2416.3	70.8	601.0	0.84	7.13
16.0-17.0	2401.3	74.8	675.7	0.89	8.02
17.0-18.0	2386.3	78.7	754.4	0.93	8.96
18.0-19.0	2369.6	82.5	836.9	0.98	9.94
19.0-20.0	2352.2	86.1	923.0	1.02	10.96
20.0-21.0	2334.7	89.7	1012.6	1.06	12.02
21.0-22.0	2315.6	93.1	1105.7	1.10	13.13
22.0-23.0	2295.9	96.3	1202.1	1.14	14.27
23.0-24.0	2275.2	99.5	1301.5	1.18	15.45
24.0-25.0	2253.8	102.5	1404.0	1.22	16.67
25.0-26.0	2232.5	105.4	1509.4	1.25	17.92
26.0-27.0	2209.6	108.1	1617.6	1.28	19.20
27.0-28.0	2186.2	110.7	1728.3	1.31	20.52
28.0-29.0	2162.9	113.2	1841.4	1.34	21.86
29.0-30.0	2137.9	115.4	1956.9	1.37	23.23
30.0-31.0	2112.4	117.6	2074.4	1.40	24.63
31.0-32.0	2086.0	119.5	2194.0	1.42	26.05
32.0-33.0	2059.0	121.3	2315.3	1.44	27.49
33.0-34.0	2032.5	123.0	2438.3	1.46	28.95
34.0-35.0	2004.2	124.5	2562.8	1.48	30.43
35.0-36.0	1975.4	125.8	2688.6	1.49	31.92

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1946.8	127.0	2815.6	1.51	33.43
37.0-38.0	1916.8	128.0	2943.5	1.52	34.95
38.0-39.0	1887.2	128.8	3072.4	1.53	36.47
39.0-40.0	1856.3	129.5	3201.8	1.54	38.01
40.0-41.0	1824.9	130.0	3331.8	1.54	39.56
41.0-42.0	1794.5	130.4	3462.2	1.55	41.10
42.0-43.0	1762.4	130.6	3592.8	1.55	42.65
43.0-44.0	1729.9	130.6	3723.4	1.55	44.20
44.0-45.0	1697.4	130.5	3853.8	1.55	45.75
45.0-46.0	1663.9	130.1	3984.0	1.55	47.30
46.0-47.0	1630.9	129.7	4113.7	1.54	48.84
47.0-48.0	1596.8	129.1	4242.8	1.53	50.37
48.0-49.0	1562.6	128.3	4371.1	1.52	51.89
49.0-50.0	1529.4	127.5	4498.7	1.51	53.41
50.0-51.0	1494.5	126.5	4625.1	1.50	54.91
51.0-52.0	1459.5	125.3	4750.4	1.49	56.40
52.0-53.0	1424.9	124.0	4874.4	1.47	57.87
53.0-54.0	1389.3	122.5	4996.8	1.45	59.32
54.0-55.0	1354.5	120.9	5117.7	1.44	60.76
55.0-56.0	1318.9	119.2	5236.9	1.42	62.17
56.0-57.0	1283.6	117.4	5354.3	1.39	63.57
57.0-58.0	1249.5	115.6	5469.9	1.37	64.94
58.0-59.0	1214.1	113.5	5583.4	1.35	66.29
59.0-60.0	1179.3	111.4	5694.8	1.32	67.61
60.0-61.0	1144.9	109.3	5804.1	1.30	68.91
61.0-62.0	1110.6	107.0	5911.1	1.27	70.18
62.0-63.0	1078.1	104.9	6016.0	1.24	71.42
63.0-64.0	1044.3	102.5	6118.5	1.22	72.64
64.0-65.0	1010.2	100.0	6218.5	1.19	73.83
65.0-66.0	977.8	97.6	6316.0	1.16	74.98
66.0-67.0	943.9	94.9	6411.0	1.13	76.11
67.0-68.0	910.0	92.2	6503.2	1.09	77.21
68.0-69.0	876.4	89.4	6592.6	1.06	78.27
69.0-70.0	842.8	86.6	6679.2	1.03	79.29
70.0-71.0	811.4	83.9	6763.0	1.00	80.29
71.0-72.0	779.3	81.0	6844.1	0.96	81.25

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	747.8	78.2	6922.3	0.93	82.18
73.0-74.0	718.6	75.6	6997.8	0.90	83.08
74.0-75.0	689.3	72.8	7070.7	0.86	83.94
75.0-76.0	660.2	70.1	7140.8	0.83	84.77
76.0-77.0	631.0	67.3	7208.1	0.80	85.57
77.0-78.0	602.3	64.5	7272.5	0.77	86.34
78.0-79.0	575.4	61.8	7334.4	0.73	87.07
79.0-80.0	547.8	59.1	7393.4	0.70	87.77
80.0-81.0	520.7	56.3	7449.8	0.67	88.44
81.0-82.0	494.9	53.7	7503.4	0.64	89.08
82.0-83.0	469.3	51.0	7554.4	0.61	89.69
83.0-84.0	444.9	48.5	7602.9	0.58	90.26
84.0-85.0	420.7	45.9	7648.9	0.55	90.81
85.0-86.0	397.3	43.4	7692.3	0.52	91.32
86.0-87.0	375.5	41.1	7733.4	0.49	91.81
87.0-88.0	353.6	38.7	7772.1	0.46	92.27
88.0-89.0	332.7	36.5	7808.6	0.43	92.70
89.0-90.0	313.5	34.4	7843.0	0.41	93.11
90.0-91.0	296.1	32.5	7875.4	0.39	93.50
91.0-92.0	280.6	30.8	7906.2	0.37	93.86
92.0-93.0	265.4	29.1	7935.3	0.35	94.21
93.0-94.0	250.8	27.5	7962.7	0.33	94.53
94.0-95.0	237.8	26.0	7988.7	0.31	94.84
95.0-96.0	224.9	24.6	8013.3	0.29	95.13
96.0-97.0	212.8	23.2	8036.5	0.28	95.41
97.0-98.0	201.7	21.9	8058.4	0.26	95.67
98.0-99.0	191.1	20.7	8079.1	0.25	95.91
99.0-100.0	181.2	19.6	8098.7	0.23	96.15
100.0-101.0	171.4	18.5	8117.2	0.22	96.37
101.0-102.0	161.8	17.4	8134.6	0.21	96.57
102.0-103.0	152.9	16.4	8151.0	0.19	96.77
103.0-104.0	144.2	15.4	8166.3	0.18	96.95
104.0-105.0	135.9	14.4	8180.8	0.17	97.12
105.0-106.0	127.9	13.5	8194.3	0.16	97.28
106.0-107.0	120.4	12.7	8206.9	0.15	97.43
107.0-108.0	113.7	11.9	8218.8	0.14	97.57

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	106.8	11.1	8229.9	0.13	97.71
109.0-110.0	100.1	10.4	8240.3	0.12	97.83
110.0-111.0	94.1	9.7	8250.0	0.11	97.94
111.0-112.0	88.2	9.0	8259.0	0.11	98.05
112.0-113.0	82.6	8.4	8267.3	0.10	98.15
113.0-114.0	77.2	7.8	8275.1	0.09	98.24
114.0-115.0	72.2	7.2	8282.3	0.09	98.33
115.0-116.0	67.8	6.7	8289.0	0.08	98.41
116.0-117.0	63.6	6.2	8295.2	0.07	98.48
117.0-118.0	59.9	5.8	8301.1	0.07	98.55
118.0-119.0	56.5	5.4	8306.5	0.06	98.61
119.0-120.0	53.2	5.1	8311.6	0.06	98.67
120.0-121.0	50.2	4.7	8316.3	0.06	98.73
121.0-122.0	47.3	4.4	8320.7	0.05	98.78
122.0-123.0	44.5	4.1	8324.9	0.05	98.83
123.0-124.0	42.0	3.8	8328.7	0.05	98.88
124.0-125.0	39.5	3.6	8332.3	0.04	98.92
125.0-126.0	37.3	3.3	8335.6	0.04	98.96
126.0-127.0	35.5	3.1	8338.7	0.04	99.00
127.0-128.0	34.1	3.0	8341.7	0.04	99.03
128.0-129.0	32.9	2.8	8344.5	0.03	99.07
129.0-130.0	32.1	2.7	8347.2	0.03	99.10
130.0-131.0	31.6	2.6	8349.9	0.03	99.13
131.0-132.0	31.4	2.6	8352.5	0.03	99.16
132.0-133.0	31.3	2.5	8355.0	0.03	99.19
133.0-134.0	31.3	2.5	8357.5	0.03	99.22
134.0-135.0	31.5	2.5	8359.9	0.03	99.25
135.0-136.0	31.7	2.4	8362.4	0.03	99.28
136.0-137.0	31.8	2.4	8364.8	0.03	99.31
137.0-138.0	32.0	2.4	8367.2	0.03	99.33
138.0-139.0	32.2	2.3	8369.5	0.03	99.36
139.0-140.0	32.4	2.3	8371.8	0.03	99.39
140.0-141.0	32.6	2.3	8374.1	0.03	99.42
141.0-142.0	32.7	2.2	8376.3	0.03	99.44
142.0-143.0	32.9	2.2	8378.5	0.03	99.47
143.0-144.0	33.1	2.2	8380.7	0.03	99.49

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	33.3	2.1	8382.8	0.03	99.52
145.0-146.0	33.5	2.1	8384.9	0.02	99.54
146.0-147.0	33.7	2.0	8386.9	0.02	99.57
147.0-148.0	33.9	2.0	8388.9	0.02	99.59
148.0-149.0	34.1	2.0	8390.9	0.02	99.62
149.0-150.0	34.3	1.9	8392.8	0.02	99.64
150.0-151.0	34.5	1.9	8394.6	0.02	99.66
151.0-152.0	34.6	1.8	8396.4	0.02	99.68
152.0-153.0	34.8	1.8	8398.2	0.02	99.70
153.0-154.0	35.0	1.7	8399.9	0.02	99.72
154.0-155.0	35.2	1.7	8401.6	0.02	99.74
155.0-156.0	35.3	1.6	8403.2	0.02	99.76
156.0-157.0	35.5	1.6	8404.7	0.02	99.78
157.0-158.0	35.7	1.5	8406.2	0.02	99.80
158.0-159.0	35.8	1.4	8407.7	0.02	99.82
159.0-160.0	36.0	1.4	8409.0	0.02	99.83
160.0-161.0	36.2	1.3	8410.4	0.02	99.85
161.0-162.0	36.3	1.3	8411.6	0.02	99.86
162.0-163.0	36.5	1.2	8412.8	0.01	99.88
163.0-164.0	36.7	1.1	8414.0	0.01	99.89
164.0-165.0	36.9	1.1	8415.1	0.01	99.90
165.0-166.0	37.1	1.0	8416.1	0.01	99.92
166.0-167.0	37.3	1.0	8417.0	0.01	99.93
167.0-168.0	37.5	0.9	8417.9	0.01	99.94
168.0-169.0	37.8	0.8	8418.8	0.01	99.95
169.0-170.0	38.0	0.8	8419.5	0.01	99.96
170.0-171.0	38.2	0.7	8420.2	0.01	99.96
171.0-172.0	38.5	0.6	8420.8	0.01	99.97
172.0-173.0	38.8	0.6	8421.4	0.01	99.98
173.0-174.0	39.0	0.5	8421.9	0.01	99.98
174.0-175.0	39.3	0.4	8422.3	0.00	99.99
175.0-176.0	39.6	0.3	8422.6	0.00	99.99
176.0-177.0	39.9	0.3	8422.9	0.00	100.00
177.0-178.0	40.1	0.2	8423.1	0.00	100.00
178.0-179.0	40.3	0.1	8423.2	0.00	100.00
179.0-180.0	40.5	0.0	8423.2	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°): 3853.82 lm

%lum = 45.8%

%lamp = 45.8%

cone flux(120°): 5694.84 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	2526.5	2525.9	2528.1	2529.9	2531.2	2531.6	2526.5	2525.9	2528.1	2529.9
G1.0	2524.8	2523.9	2526.4	2528.9	2531.1	2532.4	2527.6	2527.0	2528.9	2530.3
G2.0	2522.4	2521.5	2523.7	2526.7	2529.9	2532.2	2527.5	2527.6	2528.4	2528.8
G3.0	2519.1	2517.6	2519.7	2523.1	2527.7	2531.3	2527.0	2526.8	2527.0	2526.4
G4.0	2514.9	2513.2	2514.9	2519.0	2524.1	2529.6	2525.4	2525.4	2524.7	2523.1
G5.0	2510.0	2507.9	2509.2	2513.4	2520.1	2526.8	2523.3	2523.3	2521.4	2518.8
G6.0	2504.1	2501.6	2502.2	2506.2	2514.4	2523.3	2520.1	2519.7	2516.6	2513.1
G7.0	2497.9	2495.0	2494.3	2498.6	2508.0	2519.2	2516.1	2515.9	2511.1	2506.3
G8.0	2490.8	2487.3	2485.6	2490.2	2501.1	2513.9	2511.2	2510.9	2504.5	2498.4
G9.0	2482.8	2478.3	2475.8	2480.0	2491.9	2507.6	2505.9	2505.1	2497.5	2489.7
G10.0	2474.1	2469.3	2465.6	2469.2	2482.6	2500.7	2499.8	2498.7	2489.2	2479.7
G11.0	2464.2	2458.1	2453.0	2456.4	2471.8	2492.5	2492.4	2491.1	2479.2	2468.5
G12.0	2454.3	2447.5	2440.4	2443.6	2460.5	2484.2	2485.3	2483.4	2469.3	2456.8
G13.0	2443.6	2435.7	2427.3	2429.8	2448.8	2475.0	2477.0	2474.3	2457.7	2443.7
G14.0	2431.3	2422.5	2411.4	2413.4	2434.0	2464.0	2467.5	2464.0	2445.4	2429.0
G15.0	2419.1	2409.0	2396.8	2398.0	2420.8	2453.2	2457.5	2453.5	2432.4	2414.4
G16.0	2405.6	2393.9	2379.4	2379.1	2404.0	2440.0	2446.6	2441.1	2416.6	2396.8
G17.0	2392.0	2379.2	2361.9	2361.9	2388.6	2427.7	2435.5	2429.4	2401.9	2380.4
G18.0	2378.3	2364.1	2344.0	2343.6	2371.6	2415.3	2423.5	2416.2	2385.7	2363.0
G19.0	2362.4	2345.6	2323.9	2321.7	2352.7	2399.2	2410.3	2401.3	2367.6	2342.1
G20.0	2346.9	2329.4	2305.0	2301.8	2334.8	2384.6	2396.4	2387.3	2350.6	2323.1
G21.0	2331.0	2312.3	2284.1	2280.0	2315.1	2368.6	2382.8	2371.9	2331.6	2302.3
G22.0	2313.2	2291.7	2261.5	2256.4	2293.6	2351.1	2367.2	2354.9	2311.0	2279.1
G23.0	2295.6	2273.2	2240.3	2233.9	2273.3	2334.4	2351.5	2337.7	2291.5	2257.5
G24.0	2276.6	2252.5	2215.2	2207.4	2249.2	2314.2	2334.5	2318.9	2267.9	2231.5
G25.0	2258.0	2231.6	2192.4	2183.5	2227.1	2295.9	2318.3	2301.2	2247.0	2208.1
G26.0	2238.5	2211.3	2167.6	2157.2	2203.4	2276.3	2300.6	2281.4	2224.6	2184.2
G27.0	2217.5	2187.7	2141.1	2129.6	2178.1	2254.7	2281.5	2260.6	2198.8	2155.7
G28.0	2197.9	2166.1	2116.4	2103.3	2152.8	2234.6	2263.6	2241.0	2175.4	2130.0
G29.0	2176.7	2144.2	2089.8	2075.0	2127.9	2212.9	2243.8	2219.2	2150.1	2103.6
G30.0	2154.0	2118.1	2061.1	2044.8	2100.0	2189.2	2222.7	2196.4	2123.1	2072.9
G31.0	2132.6	2095.1	2033.2	2015.2	2072.7	2166.1	2203.0	2173.8	2097.6	2045.2
G32.0	2107.6	2068.0	2003.0	1983.7	2043.5	2141.3	2179.6	2149.2	2067.8	2012.6
G33.0	2085.2	2043.8	1973.8	1954.2	2014.8	2117.9	2157.4	2125.7	2041.0	1982.0
G34.0	2061.1	2018.1	1945.3	1923.1	1987.1	2093.3	2134.9	2102.0	2012.2	1952.2
G35.0	2035.2	1990.3	1912.3	1889.5	1954.7	2066.6	2110.7	2074.3	1980.1	1917.5
G36.0	2010.4	1963.5	1882.9	1857.2	1925.9	2040.6	2087.8	2050.1	1951.4	1886.7

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 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	1985.6	1937.4	1851.8	1824.1	1895.0	2014.0	2061.1	2021.3	1919.5	1852.2
G38.0	1957.4	1906.7	1818.5	1788.9	1862.1	1985.6	2037.2	1995.9	1888.3	1818.6
G39.0	1931.9	1879.7	1786.3	1755.0	1830.1	1959.4	2011.5	1969.9	1858.4	1786.3
G40.0	1902.2	1848.3	1752.1	1719.0	1796.3	1928.9	1984.2	1939.9	1823.4	1748.7
G41.0	1876.2	1820.5	1719.1	1683.9	1763.5	1900.3	1958.5	1911.4	1792.3	1715.3
G42.0	1848.6	1791.1	1687.0	1650.2	1731.6	1872.3	1931.5	1884.0	1759.3	1681.3
G43.0	1818.8	1759.7	1650.4	1613.0	1695.1	1839.8	1903.0	1853.6	1724.1	1642.4
G44.0	1790.4	1729.3	1617.6	1577.1	1662.6	1810.7	1874.8	1825.0	1691.7	1607.6
G45.0	1762.6	1698.9	1583.2	1540.9	1628.3	1779.9	1844.9	1792.3	1653.9	1567.6
G46.0	1730.5	1666.3	1547.1	1502.8	1591.8	1747.3	1817.2	1763.2	1621.0	1532.3
G47.0	1702.2	1636.3	1512.4	1465.9	1557.0	1716.0	1787.9	1732.2	1586.0	1495.1
G48.0	1669.8	1602.1	1476.1	1427.3	1520.3	1682.2	1755.2	1699.8	1549.5	1456.3
G49.0	1641.5	1571.9	1440.9	1391.7	1485.0	1648.9	1726.9	1668.2	1514.1	1418.6
G50.0	1611.5	1539.6	1407.1	1354.5	1449.3	1615.6	1696.8	1636.5	1480.5	1382.4
G51.0	1579.8	1505.5	1368.9	1313.6	1412.3	1575.9	1664.9	1602.8	1441.3	1342.9
G52.0	1549.7	1475.2	1335.0	1277.6	1378.4	1539.0	1636.1	1571.8	1406.7	1304.6
G53.0	1519.5	1443.5	1299.4	1239.8	1342.6	1499.2	1602.5	1536.1	1367.6	1264.3
G54.0	1487.7	1410.7	1260.4	1200.1	1305.3	1457.2	1573.1	1505.5	1333.1	1225.5
G55.0	1456.9	1378.6	1226.3	1162.3	1269.5	1418.1	1542.2	1473.3	1298.6	1188.8
G56.0	1424.8	1345.5	1188.8	1122.4	1230.2	1379.0	1509.7	1439.5	1259.0	1146.6
G57.0	1394.1	1313.8	1153.3	1084.4	1195.9	1343.1	1478.6	1408.6	1224.6	1109.5
G58.0	1363.0	1281.7	1117.6	1046.3	1159.8	1309.5	1449.0	1376.4	1188.2	1070.9
G59.0	1331.3	1247.4	1079.0	1004.7	1120.5	1274.8	1415.2	1340.9	1150.3	1030.3
G60.0	1300.3	1217.3	1045.4	968.5	1085.9	1247.7	1385.0	1309.9	1113.9	991.6
G61.0	1266.9	1182.8	1006.8	927.3	1046.7	1220.3	1352.6	1276.4	1076.3	951.1
G62.0	1237.8	1152.9	973.4	889.5	1010.8	1196.6	1321.4	1243.9	1040.4	914.3
G63.0	1207.3	1121.9	938.6	853.5	976.4	1175.5	1291.5	1213.3	1006.1	875.5
G64.0	1175.6	1089.1	901.0	814.1	937.2	1148.4	1257.9	1178.6	968.9	835.6
G65.0	1145.5	1058.5	868.5	776.7	903.3	1118.0	1228.5	1148.2	933.4	797.5
G66.0	1116.7	1029.6	835.3	741.3	866.9	1088.6	1197.6	1117.9	900.0	761.6
G67.0	1084.3	996.0	800.5	700.9	826.5	1055.1	1166.0	1083.8	862.7	720.4
G68.0	1056.1	967.6	767.9	664.3	785.3	1026.3	1137.1	1054.1	830.4	684.5
G69.0	1023.8	935.1	734.3	626.3	741.3	993.9	1104.1	1020.8	793.9	644.1
G70.0	994.8	905.7	702.6	590.4	700.7	964.5	1075.4	991.7	762.4	608.8
G71.0	967.5	878.0	671.5	556.5	662.9	936.6	1045.9	961.6	729.7	574.1
G72.0	936.4	846.5	639.4	518.1	627.0	905.1	1015.0	930.4	696.4	534.8
G73.0	909.6	819.5	609.1	484.9	597.4	876.0	987.3	902.2	666.3	500.9

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: 9.010 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	881.7	791.6	580.7	450.7	577.2	849.2	958.8	873.3	635.6	465.7
G75.0	853.0	762.9	550.6	415.5	561.6	819.9	927.5	843.3	603.9	430.0
G76.0	826.1	735.9	522.2	382.3	538.5	792.3	900.9	815.3	574.2	396.2
G77.0	798.1	708.3	492.1	348.5	509.1	762.7	870.4	784.8	544.1	361.4
G78.0	771.6	682.1	466.3	316.7	484.1	737.2	844.5	758.8	516.0	329.1
G79.0	747.0	656.4	440.0	285.7	458.2	710.9	817.8	733.3	490.0	298.9
G80.0	719.2	630.3	413.5	254.3	431.8	684.0	789.8	704.4	460.7	264.8
G81.0	694.1	605.5	388.9	225.0	407.3	658.7	763.1	678.6	436.0	236.0
G82.0	670.7	582.3	364.7	197.6	383.4	634.7	736.4	652.0	408.6	204.2
G83.0	644.2	557.8	340.7	167.6	359.1	608.1	710.8	627.0	385.4	177.1
G84.0	621.5	534.5	319.3	142.0	336.8	585.3	686.8	603.8	362.2	149.9
G85.0	596.3	510.0	295.8	114.1	314.4	559.7	660.3	577.9	337.8	122.2
G86.0	574.7	489.0	276.3	90.5	294.9	538.0	637.3	555.6	317.2	96.6
G87.0	552.6	467.4	256.7	67.2	275.1	515.7	613.8	533.1	296.6	72.2
G88.0	530.1	445.9	236.2	44.0	254.9	493.0	589.8	509.9	276.0	48.1
G89.0	509.0	425.6	219.4	24.6	237.9	471.9	566.9	488.1	258.2	28.0
G90.0	489.0	406.5	202.0	15.8	220.5	451.0	543.5	465.9	238.2	13.2
G91.0	467.0	385.5	184.8	14.6	203.4	429.9	522.0	445.3	222.0	12.3
G92.0	447.9	367.5	169.6	13.6	188.3	411.1	501.6	426.0	206.2	11.8
G93.0	427.1	346.9	152.7	12.5	173.7	390.4	479.0	406.0	191.6	11.3
G94.0	407.6	329.7	139.6	11.8	160.7	373.7	460.6	388.3	178.7	11.3
G95.0	388.7	312.1	127.8	11.2	148.1	357.1	442.2	371.3	167.0	11.4
G96.0	369.4	294.5	116.2	10.8	134.2	340.4	423.3	353.8	154.7	11.8
G97.0	351.8	279.3	107.2	10.8	123.8	324.7	406.1	337.7	143.9	12.2
G98.0	336.0	266.0	98.7	11.2	114.2	309.5	388.3	321.6	133.4	12.5
G99.0	319.7	251.2	90.1	11.6	105.8	294.0	372.0	306.5	124.2	13.0
G100.0	305.9	239.1	82.6	11.9	97.9	280.1	356.8	292.8	115.1	13.4
G101.0	290.6	225.4	74.5	12.4	90.4	264.6	339.9	277.4	105.9	13.8
G102.0	277.4	213.5	67.1	12.8	83.0	250.8	324.9	264.6	98.1	14.1
G103.0	264.1	202.5	60.9	13.4	71.3	238.0	311.2	251.5	90.6	14.6
G104.0	250.2	190.3	54.6	13.8	67.2	223.8	295.8	237.5	83.5	15.1
G105.0	238.3	179.7	49.2	14.1	60.8	212.6	282.4	225.9	76.8	15.5
G106.0	225.0	168.4	43.9	14.7	54.0	199.8	267.8	212.8	70.1	16.0
G107.0	213.8	159.0	40.2	15.1	51.0	189.1	255.5	201.7	63.8	16.3
G108.0	202.2	149.3	36.4	15.6	47.3	178.7	242.8	190.5	57.7	16.8
G109.0	190.6	139.9	32.2	16.1	42.2	168.0	230.1	179.2	52.0	17.2
G110.0	179.8	131.0	28.4	16.4	37.7	158.4	217.9	169.1	46.9	17.5

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 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	170.4	123.0	25.4	16.9	33.5	148.9	206.9	159.2	43.0	18.0
G112.0	159.6	114.2	22.5	17.3	30.0	139.7	194.9	149.4	38.1	18.4
G113.0	150.7	106.6	21.2	17.7	27.3	130.4	184.1	139.9	34.5	18.9
G114.0	140.8	98.3	21.2	18.0	25.1	116.8	173.6	127.2	31.2	19.3
G115.0	132.3	91.3	21.2	18.4	24.4	108.6	163.9	118.3	28.6	19.7
G116.0	123.7	81.8	21.1	18.9	24.2	100.4	154.7	110.1	27.8	20.2
G117.0	115.1	74.4	21.8	19.3	24.6	92.3	144.8	101.2	27.6	20.7
G118.0	106.9	68.0	22.1	19.8	24.9	86.4	136.2	94.1	27.6	21.2
G119.0	99.4	62.3	22.5	20.2	25.2	79.9	127.5	87.0	27.7	21.2
G120.0	91.4	56.1	22.8	20.8	25.6	73.7	118.2	80.7	27.9	21.7
G121.0	85.2	51.3	23.3	21.2	25.8	68.5	110.4	74.9	28.1	22.2
G122.0	77.6	46.0	23.6	21.6	26.0	62.5	101.8	68.4	28.2	22.8
G123.0	71.4	43.0	23.9	22.1	26.3	57.0	94.6	62.6	28.4	23.2
G124.0	65.1	38.5	24.3	22.6	26.5	52.0	87.0	57.5	28.5	23.6
G125.0	58.3	34.7	24.6	23.2	26.7	46.9	80.4	52.0	28.5	24.1
G126.0	53.2	32.1	25.0	23.7	26.9	42.8	73.8	47.2	28.7	24.5
G127.0	48.3	31.1	25.2	24.0	27.1	39.4	67.1	43.1	29.0	25.1
G128.0	43.0	31.1	25.5	24.5	27.4	35.9	61.1	39.9	29.1	25.6
G129.0	39.4	31.1	25.8	24.8	27.6	34.5	55.8	37.4	29.2	25.9
G130.0	35.8	31.1	26.1	25.2	27.9	33.9	50.4	36.3	29.4	26.3
G131.0	34.5	31.4	26.3	25.5	28.1	33.9	46.0	36.1	29.5	26.7
G132.0	34.5	31.5	26.6	25.8	28.4	34.0	43.0	36.1	29.7	27.1
G133.0	34.5	31.6	27.0	26.3	28.6	33.9	40.2	36.1	30.0	27.5
G134.0	34.6	31.8	27.2	26.5	28.8	33.6	39.4	36.3	30.1	27.9
G135.0	34.7	31.9	27.5	26.9	29.1	34.0	39.3	36.3	30.4	28.2
G136.0	34.8	32.2	27.8	27.3	29.2	34.1	39.3	36.4	30.6	28.5
G137.0	34.7	32.3	28.1	27.6	29.5	34.3	39.3	36.4	30.8	28.8
G138.0	34.8	32.5	28.5	27.9	29.7	34.7	39.3	36.5	31.0	29.2
G139.0	35.0	32.7	28.5	28.2	29.7	34.8	39.2	36.6	31.1	29.5
G140.0	35.0	32.8	28.8	28.5	29.9	34.8	39.1	36.7	31.4	29.9
G141.0	35.0	32.9	29.1	28.8	29.9	34.7	39.1	36.8	31.6	30.3
G142.0	35.1	33.1	29.4	29.2	30.1	34.9	39.1	36.9	31.7	30.7
G143.0	35.0	33.3	29.8	29.5	30.3	35.0	39.1	36.9	31.9	31.1
G144.0	35.1	33.5	30.1	29.9	30.5	35.3	39.1	36.9	32.2	31.5
G145.0	35.2	33.5	30.4	30.3	30.8	35.5	39.0	37.0	32.4	32.0
G146.0	35.3	33.6	30.8	30.8	30.9	35.5	39.0	37.1	32.7	32.2
G147.0	35.3	33.8	31.0	31.0	31.3	35.8	39.0	37.0	33.0	32.6

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 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	35.4	34.0	31.3	31.3	31.6	35.8	38.9	37.1	33.2	32.9
G149.0	35.3	34.0	31.6	31.7	32.0	35.8	38.9	37.1	33.6	33.3
G150.0	35.4	34.1	32.0	32.2	32.3	35.9	38.8	37.1	33.8	33.6
G151.0	35.3	34.3	32.3	32.6	32.8	35.9	38.8	37.2	34.1	34.0
G152.0	35.4	34.3	32.5	33.1	33.1	35.9	38.7	37.1	34.3	34.3
G153.0	35.5	34.5	32.8	33.5	33.5	35.9	38.7	37.1	34.7	34.7
G154.0	35.5	34.6	33.0	34.0	33.8	35.7	38.6	37.1	35.0	35.1
G155.0	35.6	34.7	33.4	34.3	34.0	35.7	38.5	37.0	35.2	35.4
G156.0	35.6	34.8	33.6	34.7	34.4	35.7	38.5	37.0	35.5	35.8
G157.0	35.6	35.0	33.9	35.0	34.8	35.6	38.4	37.0	35.8	36.1
G158.0	35.7	35.1	34.1	35.5	35.1	35.7	38.4	37.0	36.0	36.4
G159.0	35.7	35.3	34.4	35.8	35.4	35.7	38.4	37.0	36.2	36.7
G160.0	35.9	35.4	34.7	36.1	35.7	35.7	38.3	37.1	36.4	37.0
G161.0	35.9	35.5	34.9	36.5	35.8	35.9	38.4	37.2	36.6	37.2
G162.0	36.0	35.7	35.2	36.9	35.9	36.0	38.3	37.3	36.7	37.5
G163.0	36.1	35.9	35.5	37.1	36.1	36.2	38.4	37.5	36.8	37.8
G164.0	36.0	36.0	35.7	37.3	36.3	36.5	38.4	37.6	37.1	37.9
G165.0	36.2	36.3	36.0	37.7	36.6	36.7	38.5	37.7	37.2	38.2
G166.0	36.3	36.4	36.4	38.0	36.7	36.8	38.6	37.8	37.4	38.4
G167.0	36.5	36.5	36.7	38.3	37.1	37.1	38.8	38.1	37.6	38.7
G168.0	36.6	36.6	37.2	38.7	37.4	37.1	38.9	38.3	37.8	38.8
G169.0	36.8	36.9	37.7	38.9	37.6	37.2	39.0	38.4	38.0	39.1
G170.0	37.1	37.1	38.2	39.1	37.8	37.3	39.1	38.6	38.2	39.4
G171.0	37.1	37.2	38.7	39.4	38.2	37.4	39.2	38.7	38.4	39.5
G172.0	37.3	37.7	39.1	39.6	38.4	37.5	39.5	38.8	38.6	39.7
G173.0	37.7	38.2	39.6	39.9	38.7	37.6	39.5	38.8	38.8	39.8
G174.0	38.2	38.9	40.0	40.2	38.8	37.6	39.7	38.7	38.9	40.1
G175.0	38.7	39.6	40.3	40.2	39.0	37.9	39.8	38.8	39.1	40.3
G176.0	39.2	40.1	40.6	40.6	39.4	38.2	39.8	38.9	39.4	40.4
G177.0	39.6	40.5	40.7	40.7	39.6	38.4	40.0	39.1	39.7	40.6
G178.0	40.4	40.6	40.8	40.8	40.1	38.9	39.9	39.6	40.1	40.8
G179.0	40.7	40.7	40.8	40.8	40.4	39.3	39.7	40.0	40.4	40.9
G180.0	40.5	40.6	40.6	40.9	40.7	40.0	40.6	40.5	40.7	40.8

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	2531.2	2531.6	2526.5							
G1.0	2530.6	2530.0	2524.8							
G2.0	2528.8	2527.6	2522.4							
G3.0	2525.5	2524.1	2519.1							
G4.0	2521.9	2520.1	2514.9							
G5.0	2517.1	2515.4	2510.0							
G6.0	2510.9	2509.3	2504.1							
G7.0	2504.2	2502.8	2497.9							
G8.0	2495.8	2494.8	2490.8							
G9.0	2486.8	2486.6	2482.8							
G10.0	2477.3	2478.1	2474.1							
G11.0	2465.9	2467.2	2464.2							
G12.0	2453.8	2457.0	2454.3							
G13.0	2441.8	2445.6	2443.6							
G14.0	2426.5	2432.3	2431.3							
G15.0	2412.8	2419.9	2419.1							
G16.0	2396.1	2404.6	2405.6							
G17.0	2379.5	2390.0	2392.0							
G18.0	2362.7	2375.4	2378.3							
G19.0	2343.3	2357.3	2362.4							
G20.0	2324.2	2341.2	2346.9							
G21.0	2304.8	2323.5	2331.0							
G22.0	2281.9	2303.8	2313.2							
G23.0	2260.8	2285.4	2295.6							
G24.0	2237.6	2263.7	2276.6							
G25.0	2214.0	2244.0	2258.0							
G26.0	2190.6	2224.0	2238.5							
G27.0	2164.5	2200.1	2217.5							
G28.0	2138.8	2178.4	2197.9							
G29.0	2113.7	2155.4	2176.7							
G30.0	2084.1	2130.8	2154.0							
G31.0	2057.9	2107.6	2132.6							
G32.0	2028.2	2080.3	2107.6							
G33.0	1999.3	2056.3	2085.2							
G34.0	1969.4	2030.2	2061.1							
G35.0	1937.8	2002.4	2035.2							
G36.0	1907.1	1975.4	2010.4							

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	1874.3	1946.8	1985.6							
G38.0	1842.4	1918.7	1957.4							
G39.0	1811.8	1891.6	1931.9							
G40.0	1777.6	1860.1	1902.2							
G41.0	1744.3	1832.0	1876.2							
G42.0	1710.7	1803.8	1848.6							
G43.0	1674.9	1770.9	1818.8							
G44.0	1641.9	1741.9	1790.4							
G45.0	1605.4	1708.2	1762.6							
G46.0	1570.4	1678.3	1730.5							
G47.0	1535.0	1646.6	1702.2							
G48.0	1498.3	1613.3	1669.8							
G49.0	1464.2	1581.4	1641.5							
G50.0	1428.6	1550.8	1611.5							
G51.0	1390.8	1516.0	1579.8							
G52.0	1354.6	1485.3	1549.7							
G53.0	1316.8	1451.9	1519.5							
G54.0	1280.5	1419.8	1487.7							
G55.0	1245.8	1388.9	1456.9							
G56.0	1206.0	1353.8	1424.8							
G57.0	1171.3	1323.3	1394.1							
G58.0	1135.0	1291.1	1363.0							
G59.0	1097.3	1257.8	1331.3							
G60.0	1062.8	1225.8	1300.3							
G61.0	1023.3	1192.3	1266.9							
G62.0	989.1	1160.5	1237.8							
G63.0	953.2	1130.2	1207.3							
G64.0	916.4	1097.2	1175.6							
G65.0	881.7	1066.1	1145.5							
G66.0	848.9	1036.8	1116.7							
G67.0	813.5	1003.2	1084.3							
G68.0	780.0	974.1	1056.1							
G69.0	745.5	942.5	1023.8							
G70.0	713.0	912.8	994.8							
G71.0	682.4	884.7	967.5							
G72.0	649.3	852.7	936.4							
G73.0	618.3	825.2	909.6							

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	588.0	797.0	881.7							
G75.0	556.8	768.0	853.0							
G76.0	527.9	740.8	826.1							
G77.0	498.3	712.8	798.1							
G78.0	471.7	686.3	771.6							
G79.0	444.8	661.5	747.0							
G80.0	416.1	633.6	719.2							
G81.0	391.7	609.6	694.1							
G82.0	365.0	583.0	670.7							
G83.0	342.3	560.3	644.2							
G84.0	319.6	536.8	621.5							
G85.0	296.7	513.0	596.3							
G86.0	275.6	490.7	574.7							
G87.0	256.3	469.4	552.6							
G88.0	235.3	447.4	530.1							
G89.0	218.0	426.8	509.0							
G90.0	198.7	405.7	489.0							
G91.0	182.6	387.2	467.0							
G92.0	167.1	368.1	447.9							
G93.0	150.3	348.4	427.1							
G94.0	137.1	330.2	407.6							
G95.0	126.9	313.4	388.7							
G96.0	116.3	295.2	369.4							
G97.0	107.6	280.9	351.8							
G98.0	98.2	265.5	336.0							
G99.0	90.6	252.3	319.7							
G100.0	82.9	239.8	305.9							
G101.0	74.4	226.3	290.6							
G102.0	67.3	214.6	277.4							
G103.0	61.0	203.1	264.1							
G104.0	54.7	191.2	250.2							
G105.0	49.2	180.2	238.3							
G106.0	43.9	169.2	225.0							
G107.0	40.2	159.1	213.8							
G108.0	36.5	149.6	202.2							
G109.0	32.4	140.1	190.6							
G110.0	29.0	131.2	179.8							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	26.0	123.2	170.4							
G112.0	23.2	114.2	159.6							
G113.0	22.1	106.7	150.7							
G114.0	22.1	98.3	140.8							
G115.0	22.2	90.7	132.3							
G116.0	22.6	81.7	123.7							
G117.0	23.0	74.5	115.1							
G118.0	23.3	68.1	106.9							
G119.0	23.5	62.0	99.4							
G120.0	23.9	56.2	91.4							
G121.0	24.1	51.0	85.2							
G122.0	24.4	45.9	77.6							
G123.0	24.8	42.3	71.4							
G124.0	25.1	38.2	65.1							
G125.0	25.4	34.4	58.3							
G126.0	25.6	32.2	53.2							
G127.0	26.0	31.5	48.3							
G128.0	26.3	31.5	43.0							
G129.0	26.6	31.6	39.4							
G130.0	26.9	31.7	35.8							
G131.0	27.1	31.9	34.5							
G132.0	27.5	32.0	34.5							
G133.0	27.7	32.2	34.5							
G134.0	27.9	32.3	34.6							
G135.0	28.2	32.5	34.7							
G136.0	28.5	32.8	34.8							
G137.0	28.6	32.9	34.7							
G138.0	29.0	33.1	34.8							
G139.0	29.3	33.2	35.0							
G140.0	29.5	33.3	35.0							
G141.0	29.9	33.4	35.0							
G142.0	30.2	33.5	35.1							
G143.0	30.4	33.6	35.0							
G144.0	30.8	33.8	35.1							
G145.0	31.0	33.9	35.2							
G146.0	31.4	34.0	35.3							
G147.0	31.7	34.1	35.3							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	32.0	34.2	35.4							
G149.0	32.2	34.4	35.3							
G150.0	32.6	34.6	35.4							
G151.0	32.9	34.7	35.3							
G152.0	33.2	34.6	35.4							
G153.0	33.5	34.8	35.5							
G154.0	33.8	34.9	35.5							
G155.0	34.0	35.0	35.6							
G156.0	34.2	35.1	35.6							
G157.0	34.5	35.3	35.6							
G158.0	34.7	35.3	35.7							
G159.0	34.8	35.5	35.7							
G160.0	35.2	35.5	35.9							
G161.0	35.4	35.7	35.9							
G162.0	35.7	35.9	36.0							
G163.0	35.8	36.1	36.1							
G164.0	36.0	36.2	36.0							
G165.0	36.4	36.3	36.2							
G166.0	36.7	36.5	36.3							
G167.0	37.1	36.6	36.5							
G168.0	37.6	36.8	36.6							
G169.0	38.0	36.8	36.8							
G170.0	38.5	37.1	37.1							
G171.0	39.0	37.3	37.1							
G172.0	39.5	37.8	37.3							
G173.0	39.8	38.3	37.7							
G174.0	40.2	38.9	38.2							
G175.0	40.5	39.5	38.7							
G176.0	40.6	40.1	39.2							
G177.0	40.8	40.3	39.6							
G178.0	40.9	40.4	40.4							
G179.0	40.8	40.3	40.7							
G180.0	40.7	40.0	40.5							

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:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	23405.18
L 0-180(75) av	28664.17
L 0-180(85) av	60075.43
L 90-270(65) av	15519.62
L 90-270(75) av	13611.51
L 90-270(85) av	11293.01
L 45(65) av	19663.23
L 45(75) av	22003.35
L 45(85) av	40699.55

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: