

Report No.:

Test Time: 2014/10/23 14:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LB-A30-H108B6

Current: 0.133A

Power Factor: 0.962

Voltage: 220V

Power: 28.17W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2698.5 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(25%,50%,75%): H196.6,H148.7,H103.6

Vertical Diffuse Angle(25%,50%,75%): V198.2,V149,V103.6

Luminaire Efficacy Rating (LER): 96

Max. Intensity: 577.65 cd

Total Rated Lamp Lumens: 2698.5 lm

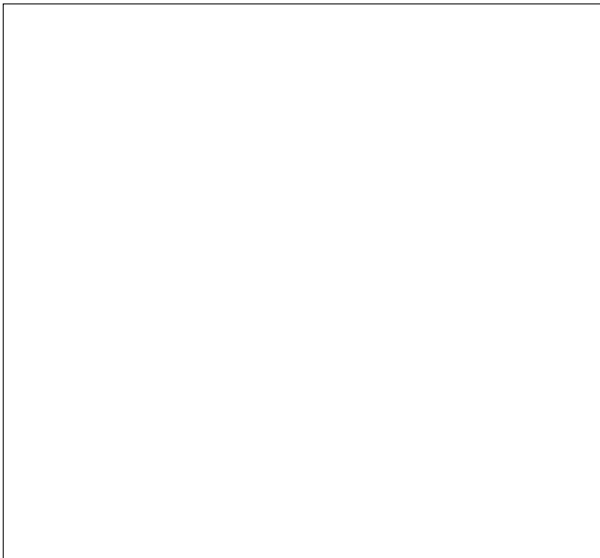
Efficiency: 100%

Upward Ratio: 12%

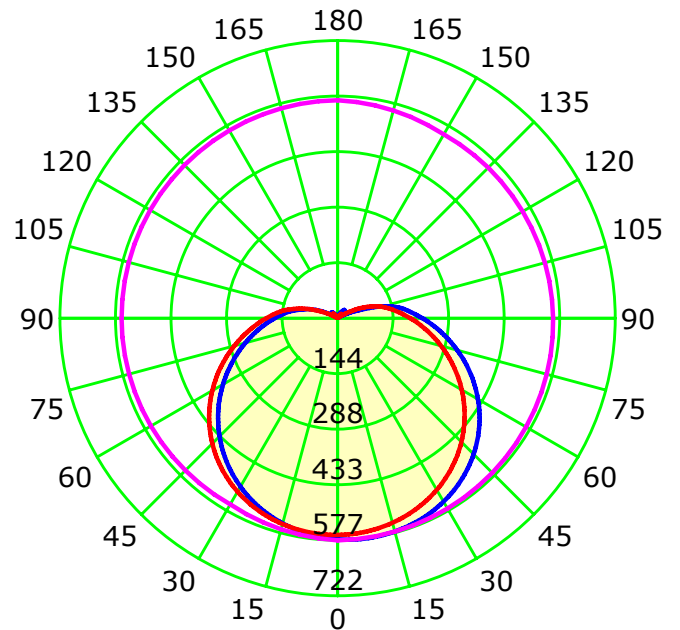
Central Intensity: 574.79 cd

Pos of Max. Intensity: H0 V7

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 148.8° Unit: cd

— C0-C180 — C90-C270 — G7

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

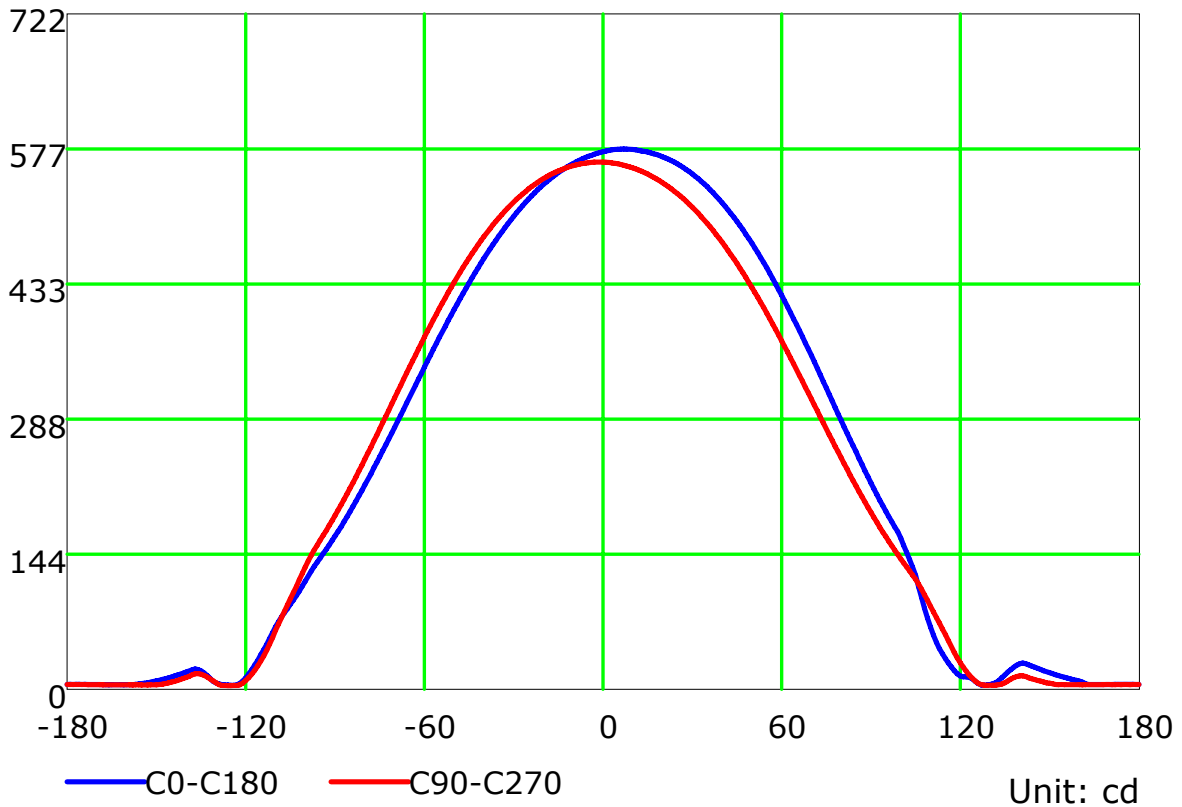
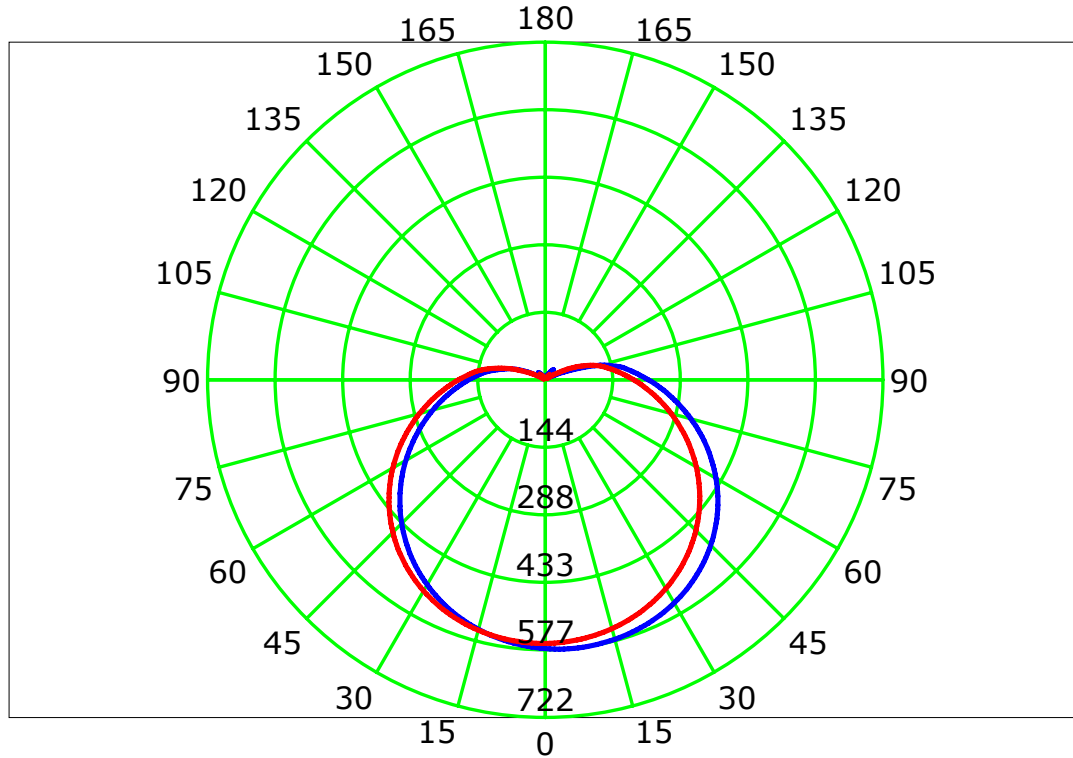
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

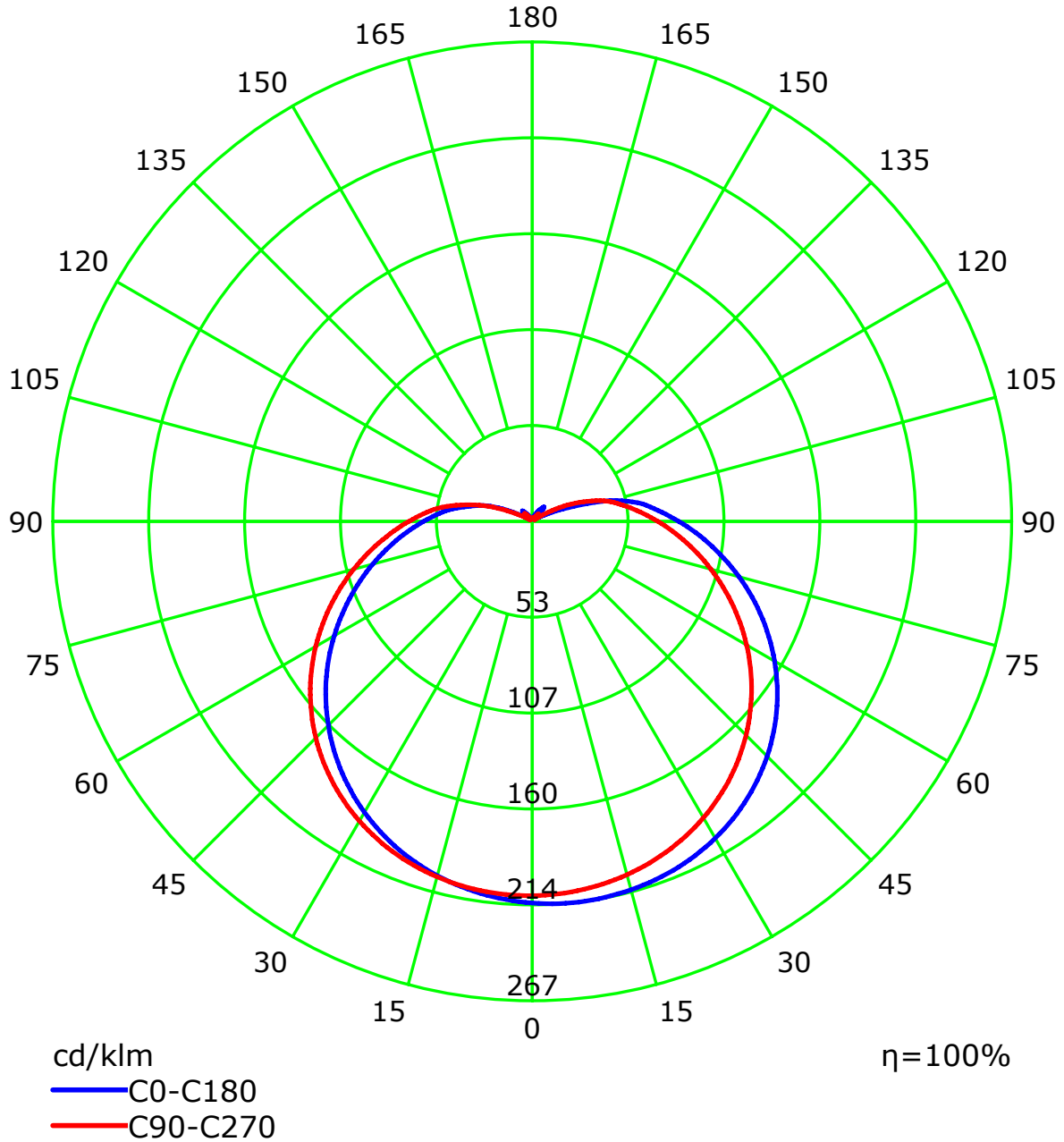
Luminous Intensity Distribution Curve



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

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



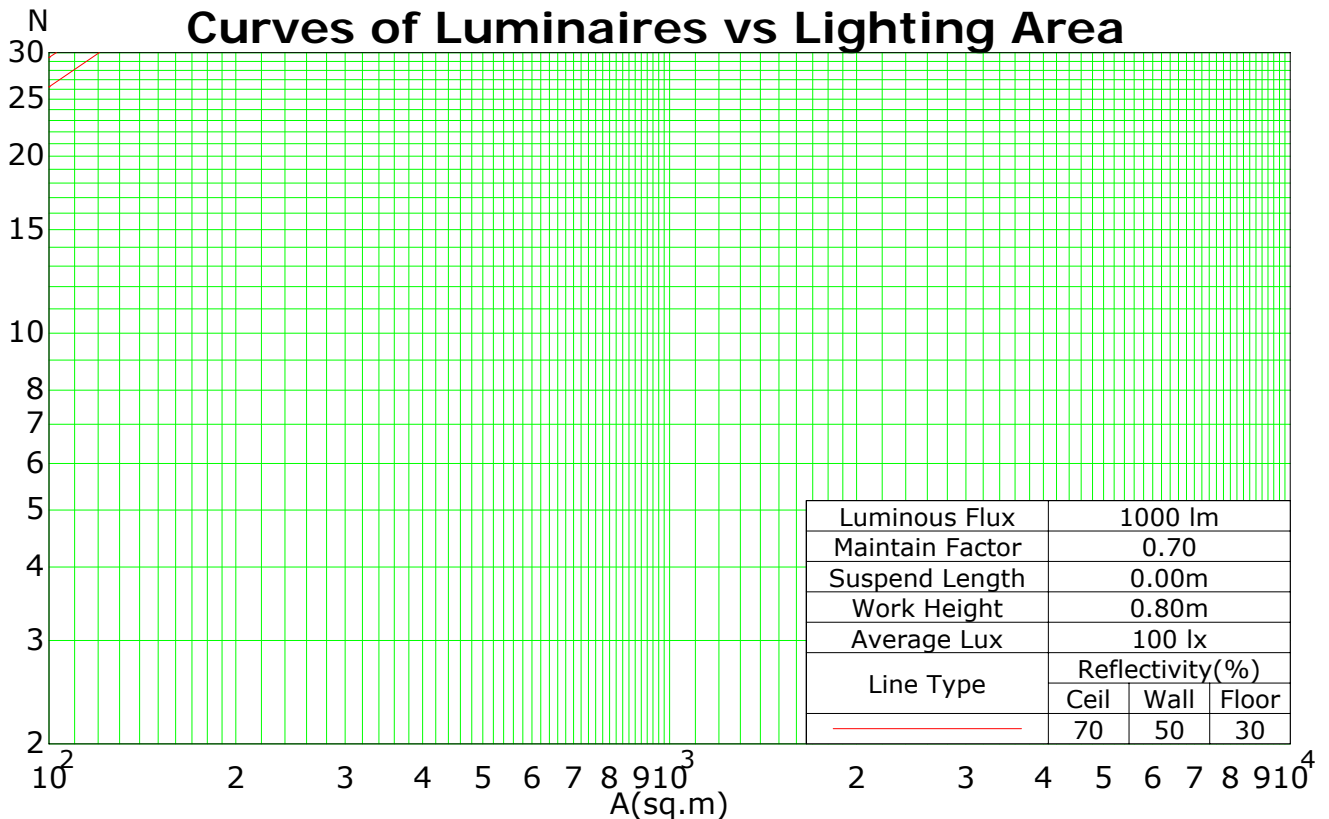
C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 8.038 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
RCCR	RF = 0.2																	
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	102	96	90	85	98	92	87	82	86	81	78	79	76	73	74	71	69	65
2	91	81	73	66	87	78	71	64	73	66	61	67	62	58	63	58	55	52
3	82	70	61	53	79	68	59	52	63	56	50	58	52	47	54	49	45	42
4	75	62	52	44	72	59	50	43	55	47	41	51	45	39	48	42	38	35
5	69	54	45	37	65	53	43	37	49	41	35	46	39	34	43	37	32	29
6	63	49	39	32	60	47	38	31	44	36	30	41	34	29	38	32	28	25
7	58	44	35	28	56	42	34	27	40	32	26	37	30	25	35	29	24	22
8	54	40	31	25	52	39	30	24	36	29	23	34	27	22	32	26	22	19
9	50	36	28	22	48	35	27	22	33	26	21	31	25	20	29	24	19	17
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	27	22	17	16

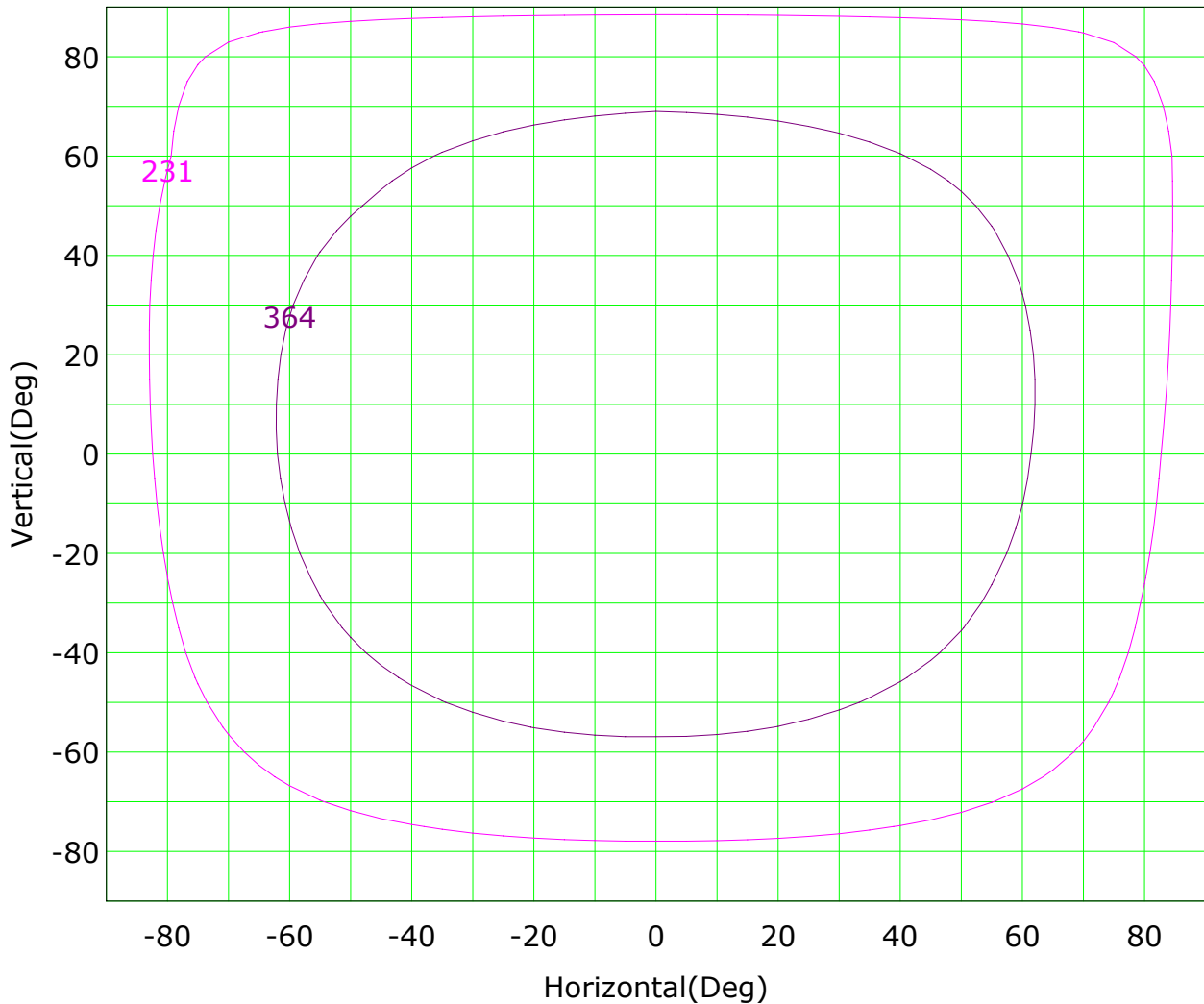
Spacing Criteria (0-180): 1.37
 Spacing Criteria (90-270): 1.37
 Spacing Criteria (Diagonal): 1.51



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Isocandela (rectangle)



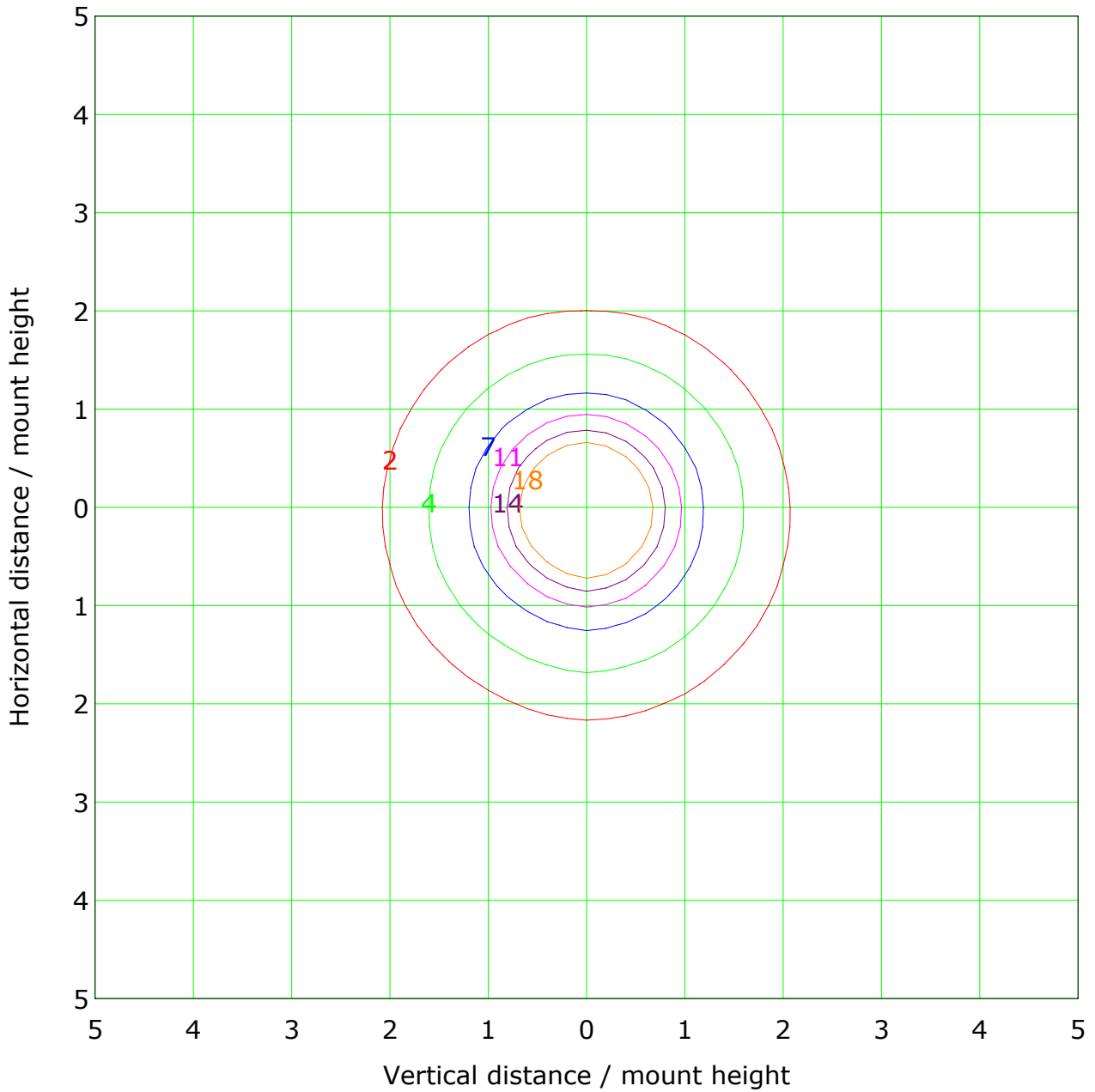
Imax (100%): 578 cd

— (10%):	58 cd	— (16%):	92 cd
— (25%):	144 cd	— (40%):	231 cd
— (63%):	364 cd	— (100%):	578 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

IsoLux Plot



Mounting Height: 4.0m		Max Lux(100%): 36.0 lx
— (5%):	1.8 lx	— (10%): 3.6 lx
— (20%):	7.2 lx	— (30%): 10.8 lx
— (40%):	14.4 lx	— (50%): 18.0 lx
— (100%):	36.0 lx	— (150%): 53.9 lx

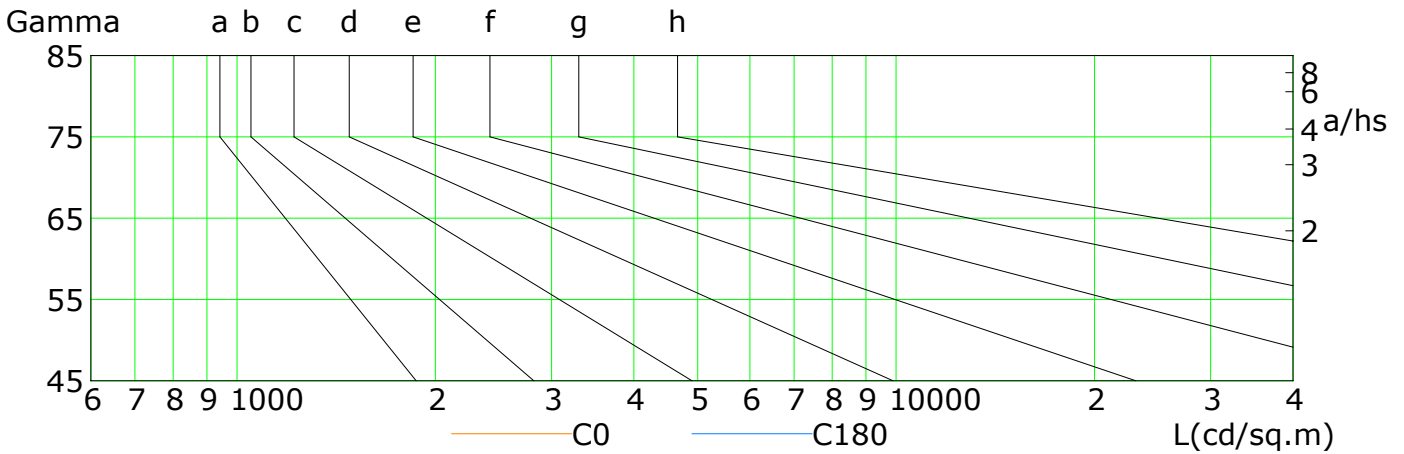
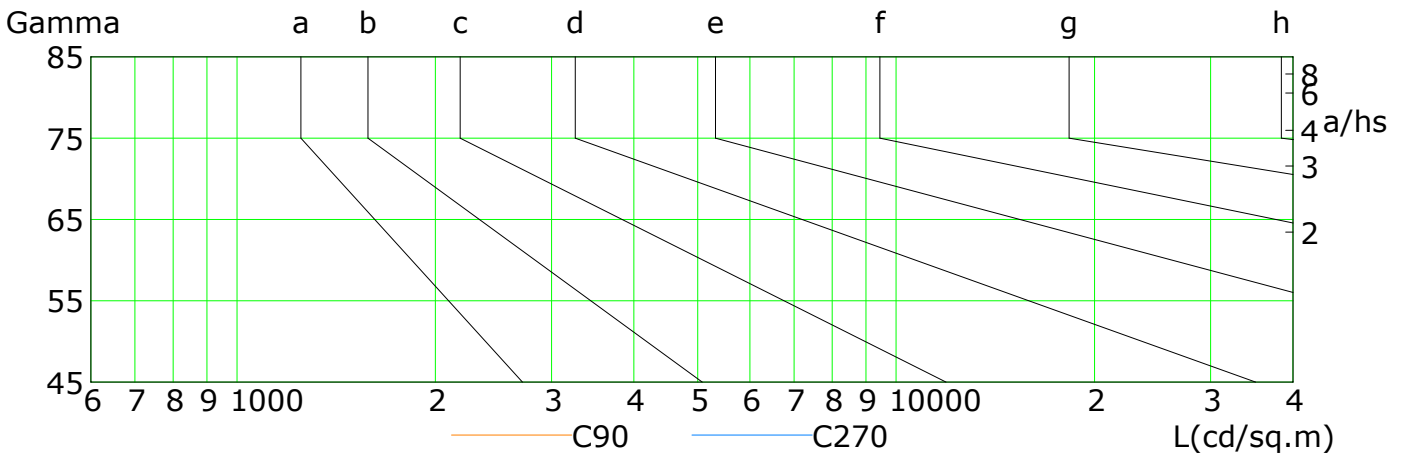
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)								
		2000	1000	500	<=300					
1.15	A									
1.50	B									
1.85	C									
2.20	D									
2.55	E									

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	500	477	451	421	390	357	322	287	254
C90	455	430	402	373	342	310	278	247	217
C180	434	406	376	344	312	280	249	219	190
C270	461	435	407	377	344	312	279	246	215

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

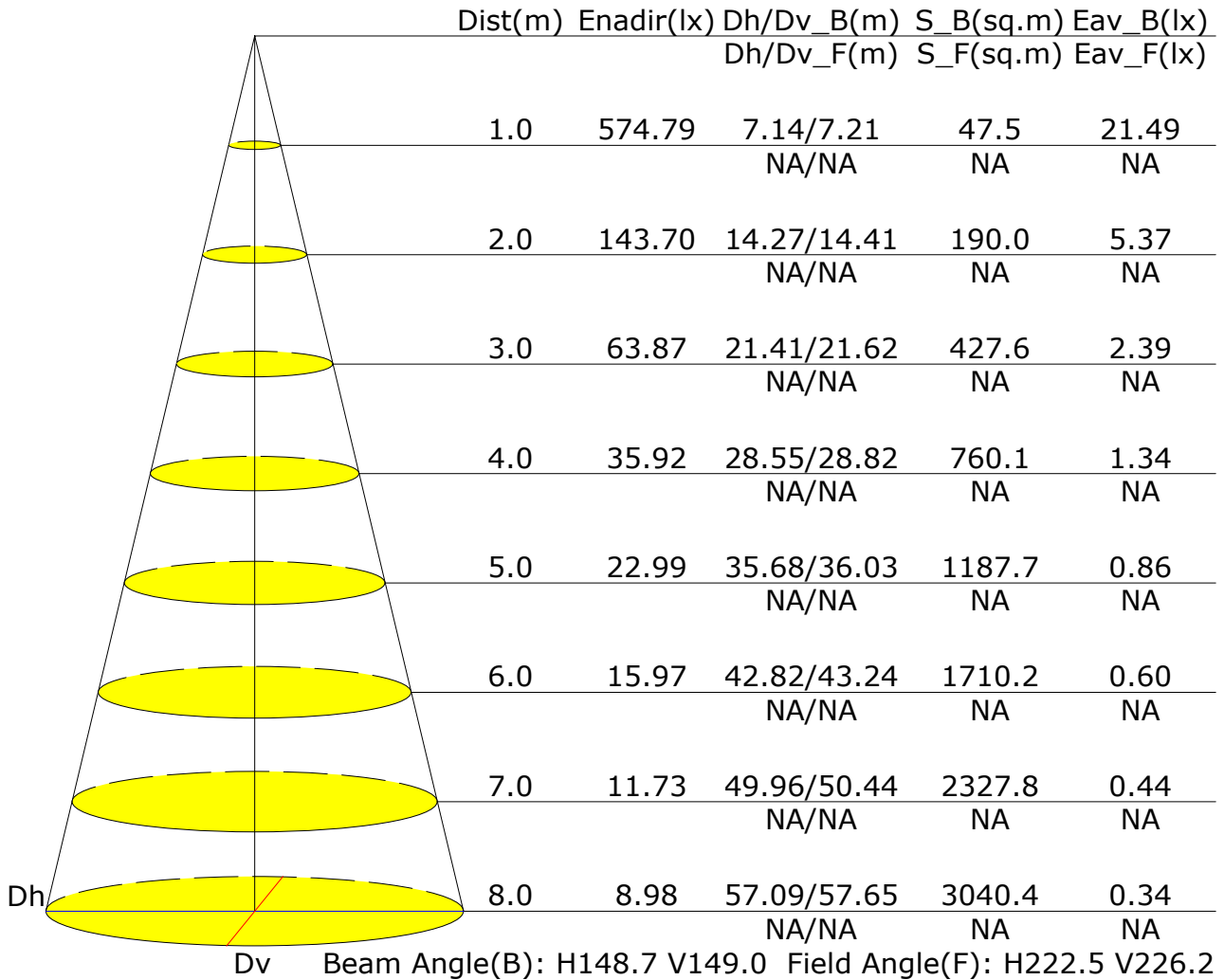
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

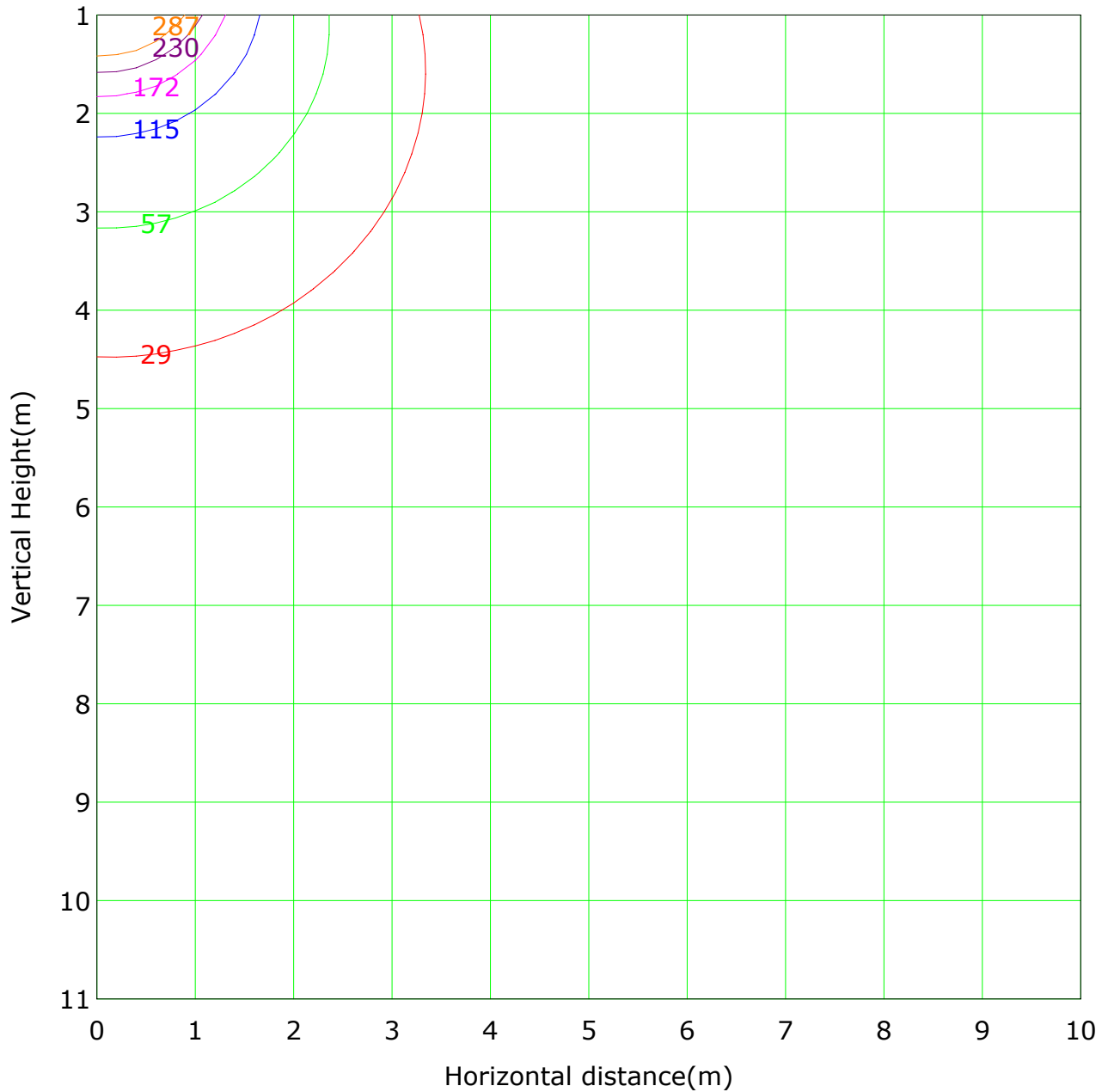
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Vertical IsoLux Plot

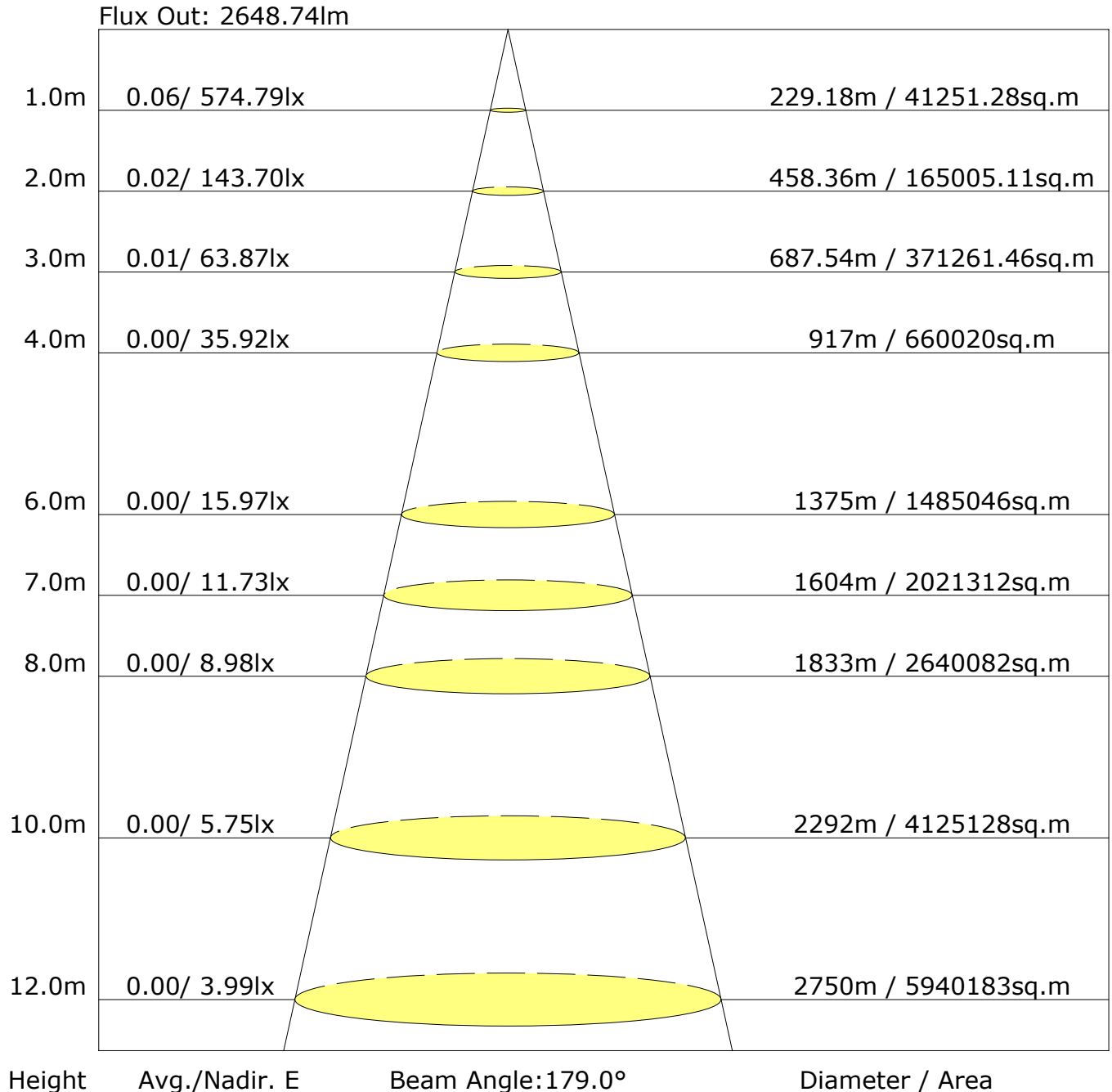


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 574.8 lx
— (5%): 28.7 lx	— (10%): 57.5 lx	
— (20%): 115.0 lx	— (30%): 172.4 lx	
— (40%): 229.9 lx	— (50%): 287.4 lx	
— (100%): 574.8 lx	— (150%): 862.2 lx	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

UGR Table

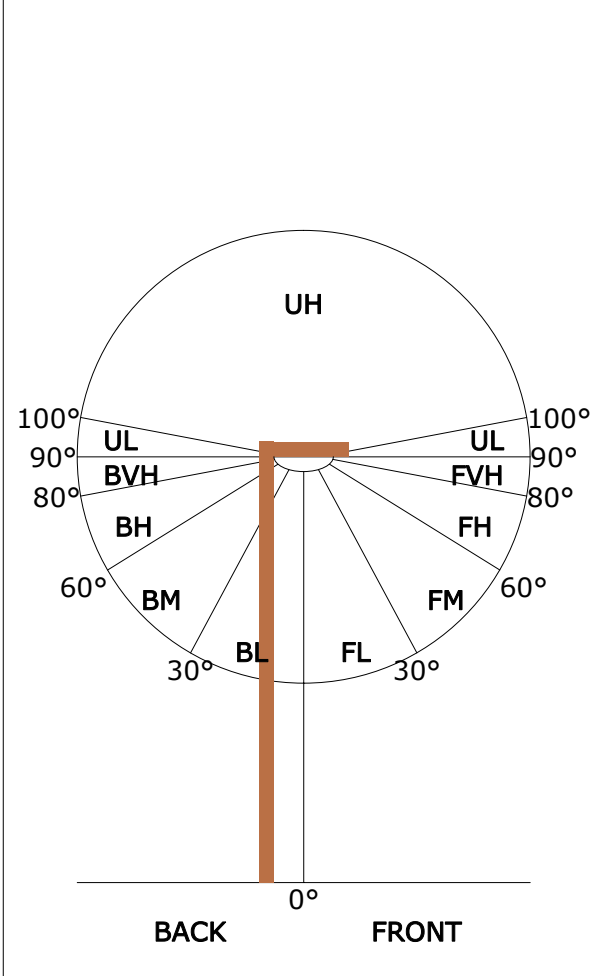
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
X=4H Y=2H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
X=8H Y=4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
X=12H Y=4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$

Calculate in accordance with CIE 190:2010

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

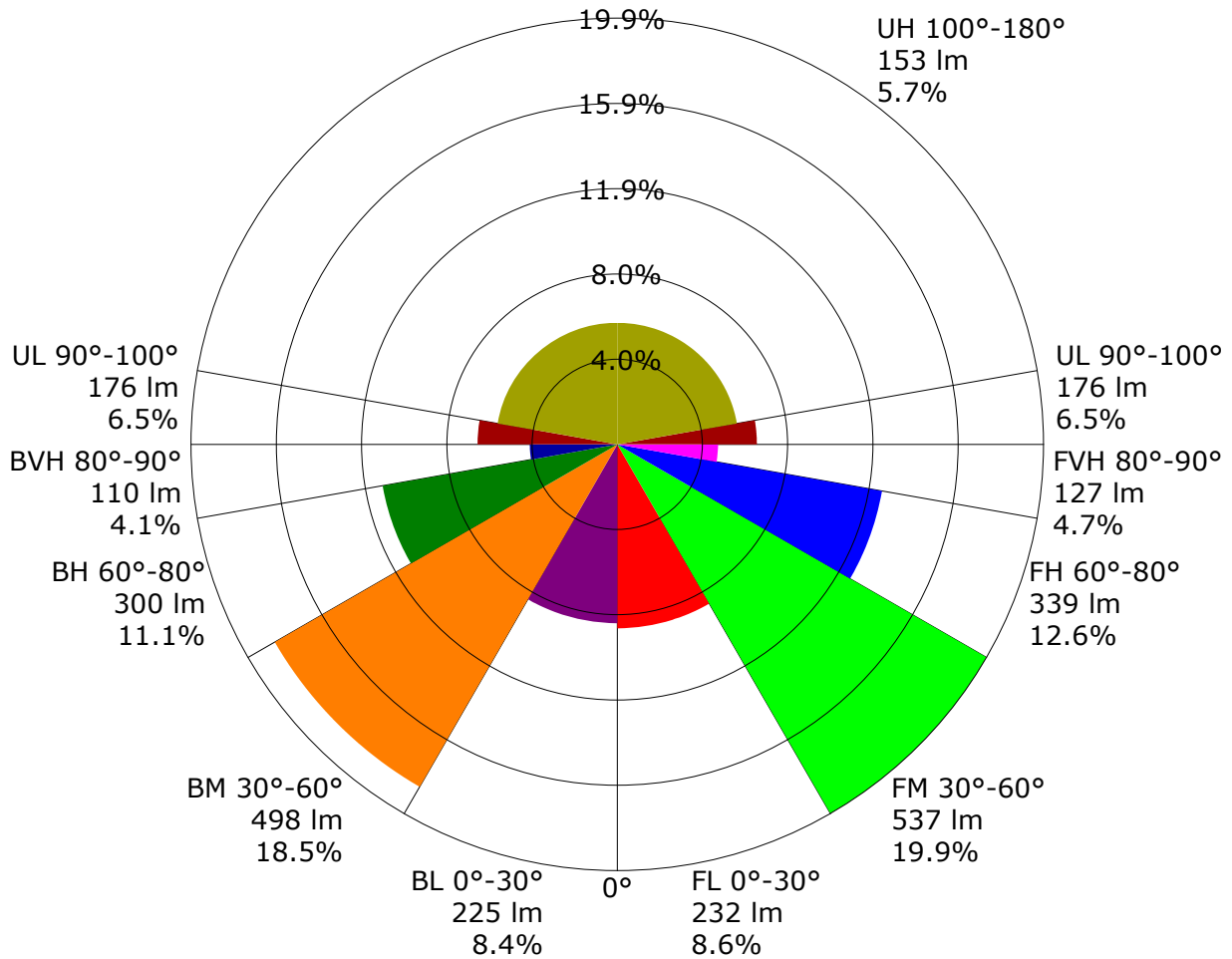
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1235	45.8
	FL (0°-30°)	232	8.6
	FM (30°-60°)	537	19.9
	FH (60°-80°)	339	12.6
	FVH (80°-90°)	127	4.7
	BACK LIGHT	1134	42.0
	BL (0°-30°)	225	8.4
	BM (30°-60°)	498	18.5
	BH (60°-80°)	300	11.1
	BVH (80°-90°)	110	4.1
	UP LIGHT	329	12.2
	UL (90°-100°)	176	6.5
	UH (100°-180°)	153	5.7
	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:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

LCS Graph



Forward Light

Back Light

Scale= MAX LCS%

Trapped Light:NA,NA

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.48	0.56	0.64	0.69	0.76	0.81	0.85	0.90	0.94	
	0.30		0.40	0.48	0.55	0.61	0.69	0.74	0.79	0.85	0.89	
	0.20		0.34	0.41	0.49	0.54	0.62	0.68	0.73	0.80	0.84	
0.50	0.50	0.20	0.46	0.53	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
	0.30		0.38	0.45	0.52	0.57	0.65	0.70	0.74	0.79	0.83	
	0.20		0.33	0.40	0.47	0.52	0.59	0.65	0.69	0.75	0.80	
0.30	0.50	0.20	0.43	0.50	0.56	0.60	0.66	0.70	0.74	0.78	0.81	
	0.30		0.37	0.43	0.50	0.54	0.61	0.66	0.69	0.74	0.78	
	0.20		0.32	0.38	0.45	0.49	0.56	0.62	0.66	0.71	0.75	
0.00	0.00	0.00	0.29	0.34	0.40	0.44	0.51	0.56	0.59	0.64	0.68	
<p>Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
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	1.05	0.92	0.80	0.71	0.59	0.50	0.44	0.36	0.30	
	0.30		0.88	0.79	0.70	0.63	0.53	0.46	0.41	0.33	0.28	
	0.20		0.75	0.69	0.62	0.56	0.49	0.43	0.38	0.32	0.27	
0.50	0.50	0.20	0.99	0.86	0.75	0.67	0.55	0.50	0.42	0.34	0.28	
	0.30		0.84	0.75	0.66	0.60	0.51	0.44	0.39	0.32	0.27	
	0.20		0.73	0.66	0.59	0.54	0.47	0.41	0.37	0.30	0.26	
0.30	0.50	0.20	0.94	0.81	0.71	0.63	0.52	0.45	0.39	0.32	0.27	
	0.30		0.80	0.72	0.63	0.57	0.48	0.42	0.37	0.30	0.26	
	0.20		0.70	0.64	0.57	0.52	0.45	0.39	0.35	0.29	0.25	
0.00	0.00	0.00	0.59	0.54	0.48	0.43	0.37	0.32	0.29	0.24	0.20	
<p>Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
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	0.29	0.30	0.31	0.32	0.33	0.33	0.33	0.34	0.34
	0.30		0.21	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.30
	0.20		0.16	0.17	0.19	0.20	0.22	0.23	0.24	0.26	0.27
0.50	0.50	0.20	0.28	0.29	0.30	0.30	0.31	0.32	0.32	0.32	0.33
	0.30		0.21	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.29
	0.20		0.16	0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26
0.30	0.50	0.20	0.27	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31
	0.30		0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.28
	0.20		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26
0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
<p>Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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	574.8	570.2	566.9	563.8	561.0	558.3	574.8	570.2	566.9	563.8
G1.0	575.5	570.8	567.0	563.6	560.6	557.7	574.0	569.6	566.7	563.7
G2.0	576.3	571.2	567.1	563.3	559.9	557.0	573.2	569.0	566.2	563.7
G3.0	576.8	571.5	567.1	562.8	559.2	556.3	572.1	568.2	565.7	563.6
G4.0	577.1	571.6	567.0	562.4	558.6	555.4	570.8	567.1	565.1	563.3
G5.0	577.4	571.7	566.6	561.9	557.7	554.4	569.8	566.3	564.5	563.0
G6.0	577.6	571.7	566.3	561.2	556.6	553.3	568.4	565.3	563.7	562.6
G7.0	577.6	571.5	565.9	560.3	555.6	552.2	567.1	564.0	562.8	562.1
G8.0	577.5	571.2	565.3	559.5	554.6	550.9	565.6	562.8	561.9	561.5
G9.0	577.4	570.9	564.6	558.5	553.4	549.7	564.0	561.5	560.8	560.8
G10.0	577.2	570.6	563.9	557.6	552.0	548.3	562.2	560.1	559.6	559.9
G11.0	576.8	569.9	563.1	556.5	550.6	546.8	560.5	558.3	558.4	559.0
G12.0	576.2	569.1	562.3	555.1	549.2	545.1	558.7	556.8	557.2	558.0
G13.0	575.6	568.5	561.3	553.9	547.7	543.5	556.8	555.0	555.7	556.9
G14.0	575.1	567.8	560.0	552.5	545.8	541.7	554.7	553.2	554.1	555.5
G15.0	574.5	567.0	558.8	551.0	544.1	539.9	552.6	551.3	552.6	554.3
G16.0	573.6	565.8	557.6	549.2	542.4	537.8	550.2	549.1	550.8	552.9
G17.0	572.7	564.7	556.1	547.5	540.5	535.8	547.8	547.0	548.8	551.4
G18.0	571.9	563.6	554.6	545.8	538.2	533.6	545.2	544.6	546.8	549.8
G19.0	570.6	562.4	553.1	543.9	536.1	531.3	542.4	542.3	544.7	547.9
G20.0	569.4	560.9	551.4	541.7	533.9	528.8	539.8	539.7	542.5	546.1
G21.0	568.1	559.4	549.6	539.5	531.6	526.3	537.0	537.1	540.2	544.2
G22.0	566.8	557.8	547.6	537.4	528.9	523.7	534.1	534.3	537.9	542.0
G23.0	565.3	556.2	545.7	535.1	526.3	521.0	530.9	531.4	535.3	539.8
G24.0	563.6	554.5	543.5	532.5	523.7	518.3	527.6	528.5	532.5	537.5
G25.0	561.8	552.4	541.2	530.0	520.9	515.1	524.2	525.5	529.8	535.2
G26.0	560.0	550.2	538.9	527.4	518.0	512.0	520.8	522.2	527.0	532.3
G27.0	557.8	548.1	536.3	524.6	515.1	508.9	517.1	519.0	524.0	529.7
G28.0	555.7	545.8	533.8	521.8	511.6	505.6	513.5	515.5	521.0	527.0
G29.0	553.6	543.3	531.2	518.5	508.5	502.1	509.8	512.1	517.7	524.1
G30.0	551.0	540.9	528.4	515.4	505.2	498.6	505.8	508.4	514.2	520.9
G31.0	548.5	538.3	525.3	512.3	501.8	495.1	501.8	504.6	510.8	517.8
G32.0	546.0	535.6	522.3	509.1	498.1	491.4	497.7	500.8	507.1	514.7
G33.0	543.1	532.8	519.2	505.3	494.5	487.7	493.5	496.7	503.5	511.3
G34.0	540.4	529.8	516.0	501.8	490.7	483.6	489.0	492.6	499.6	507.5
G35.0	537.5	526.6	512.7	498.2	486.9	479.6	484.7	488.4	495.8	504.0
G36.0	534.2	523.4	509.0	494.5	482.7	475.4	480.1	484.1	491.7	500.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 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	531.0	520.0	505.5	490.7	478.7	471.3	475.4	479.9	487.6	496.6
G38.0	527.5	516.6	501.7	486.4	474.6	466.8	470.8	475.1	483.2	492.3
G39.0	524.0	512.8	498.0	482.4	470.3	462.4	465.8	470.5	479.0	488.3
G40.0	520.3	509.2	493.8	478.2	466.0	458.0	460.9	465.8	474.3	484.1
G41.0	516.6	505.3	489.8	473.9	461.3	453.4	455.9	461.2	469.9	479.9
G42.0	512.6	501.3	485.6	469.1	456.7	448.7	450.5	456.1	465.1	475.2
G43.0	508.6	497.3	481.3	464.7	452.0	443.6	445.4	451.0	460.3	470.7
G44.0	504.6	492.9	477.0	460.1	447.2	438.8	440.0	446.0	455.3	466.0
G45.0	500.2	488.6	472.5	455.4	442.4	433.9	434.3	440.6	450.2	461.0
G46.0	495.9	484.3	467.5	450.4	437.4	428.7	429.1	435.3	445.2	456.2
G47.0	491.5	479.5	462.7	445.5	432.0	423.6	423.5	429.9	439.8	451.2
G48.0	486.6	474.8	457.9	440.5	426.8	418.5	417.9	424.5	434.5	446.1
G49.0	481.8	470.0	452.9	434.9	421.6	413.2	411.9	418.6	428.9	440.6
G50.0	477.0	465.2	447.8	429.8	416.1	407.4	406.0	412.9	423.5	435.3
G51.0	472.1	460.0	442.6	424.5	410.7	402.0	400.2	407.3	417.7	429.8
G52.0	466.8	454.9	437.4	419.1	405.3	396.5	394.5	401.2	412.2	424.4
G53.0	461.6	449.7	431.7	413.6	399.8	391.0	388.2	395.5	406.4	418.6
G54.0	456.3	444.1	426.2	408.1	393.9	385.3	382.2	389.6	400.6	413.0
G55.0	450.7	438.6	420.6	402.2	388.1	379.2	376.1	383.6	394.5	407.1
G56.0	445.1	432.9	415.0	396.5	382.4	373.5	369.8	377.3	388.4	401.0
G57.0	439.2	427.4	408.9	390.6	376.7	367.8	363.7	371.2	382.4	395.2
G58.0	433.4	421.6	403.1	384.8	370.5	361.9	357.2	365.1	376.1	389.0
G59.0	427.3	415.5	397.3	379.0	364.7	356.0	351.0	358.6	369.8	383.0
G60.0	421.4	409.6	391.2	372.6	358.7	350.1	344.4	352.5	363.8	376.6
G61.0	415.4	403.7	385.2	366.7	352.8	343.7	337.9	346.2	357.3	370.1
G62.0	409.0	397.4	379.1	360.7	346.6	337.7	331.7	339.9	351.2	363.9
G63.0	402.8	391.3	372.6	354.4	340.3	331.6	325.3	333.2	344.6	357.3
G64.0	396.2	384.7	366.5	348.3	334.3	325.6	318.6	326.8	338.3	351.0
G65.0	390.0	378.5	360.2	341.8	328.3	319.6	312.2	320.6	331.8	344.5
G66.0	383.7	372.2	354.0	335.6	322.0	313.0	306.0	313.9	325.5	338.2
G67.0	377.0	365.7	347.3	329.5	315.9	307.1	299.3	307.7	318.8	331.5
G68.0	370.2	358.8	341.1	323.0	309.4	300.9	292.9	301.3	312.2	324.8
G69.0	363.6	352.4	334.6	316.8	303.3	294.8	286.7	294.5	305.6	318.4
G70.0	357.0	345.9	328.3	310.3	297.0	288.3	280.1	288.1	299.1	311.6
G71.0	350.3	339.2	322.0	304.0	290.9	282.2	273.8	281.6	292.5	305.1
G72.0	343.2	332.6	315.6	297.8	284.8	276.2	267.5	275.3	286.0	298.2
G73.0	336.4	326.0	308.7	291.2	278.6	270.1	261.4	268.9	279.7	291.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 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	329.2	319.0	302.4	284.9	272.2	264.0	255.2	262.2	273.0	285.3
G75.0	322.2	312.4	295.8	278.5	266.1	258.0	248.8	256.0	266.7	278.5
G76.0	315.4	305.7	289.4	272.3	259.9	251.7	242.7	249.7	260.2	271.9
G77.0	308.3	299.1	283.1	266.2	253.9	245.8	236.6	243.2	253.6	265.5
G78.0	301.5	292.1	276.4	259.8	247.7	239.8	230.3	237.1	247.4	258.8
G79.0	294.3	285.6	270.0	253.8	241.8	234.0	224.5	231.1	241.3	252.6
G80.0	287.5	279.0	263.5	247.4	235.9	228.2	218.6	225.0	235.0	246.1
G81.0	280.5	272.2	257.1	241.4	229.9	222.1	212.6	218.9	228.7	239.6
G82.0	273.9	265.7	250.8	235.5	224.2	216.3	207.0	213.0	222.4	233.5
G83.0	267.2	259.1	244.0	229.2	218.4	210.5	201.3	207.3	216.6	227.1
G84.0	260.5	252.5	237.7	223.3	212.4	205.0	195.7	201.3	210.4	220.8
G85.0	253.9	246.1	231.5	217.4	206.8	199.4	189.9	195.7	204.7	215.0
G86.0	247.0	239.2	225.2	211.6	201.3	194.0	184.6	190.3	199.1	209.1
G87.0	240.4	232.6	219.1	205.9	195.6	188.3	179.3	184.8	193.3	203.1
G88.0	233.6	226.3	213.3	200.4	190.3	183.1	173.8	179.4	187.8	197.4
G89.0	227.3	219.6	207.2	194.6	184.7	177.9	168.9	174.1	182.5	191.8
G90.0	220.6	213.4	201.5	189.3	179.4	172.9	164.0	168.8	176.9	185.9
G91.0	214.4	207.4	195.7	183.8	174.1	167.6	159.2	163.9	171.6	180.4
G92.0	208.1	201.2	190.2	178.6	169.1	162.7	154.3	158.9	166.6	175.2
G93.0	202.2	195.5	184.9	173.2	164.2	158.0	149.6	154.2	161.4	169.7
G94.0	196.3	189.5	179.2	168.2	159.2	153.3	145.1	149.4	156.3	164.6
G95.0	190.3	182.5	174.0	163.3	154.5	148.8	140.4	144.7	151.5	159.5
G96.0	184.7	176.0	168.9	158.4	149.9	144.3	136.0	139.5	146.6	154.2
G97.0	179.1	169.9	163.6	153.5	145.3	139.9	131.5	133.3	141.9	149.1
G98.0	173.8	164.3	158.7	148.9	140.7	135.4	126.7	126.5	136.7	143.6
G99.0	168.5	158.0	153.3	144.4	136.4	131.2	121.3	119.4	130.5	137.6
G100.0	161.8	151.6	147.4	139.6	131.9	127.1	115.8	111.2	122.3	130.7
G101.0	154.0	142.5	142.0	135.2	127.9	123.2	110.6	102.5	112.7	124.1
G102.0	146.4	131.7	135.9	131.0	123.6	118.9	105.1	93.8	102.6	117.3
G103.0	138.8	119.5	129.7	126.8	118.4	115.1	100.3	84.0	92.6	110.2
G104.0	130.6	106.7	122.8	122.1	111.7	109.8	95.6	74.8	83.4	103.6
G105.0	121.7	93.5	115.1	117.6	102.1	103.6	91.1	65.8	73.7	96.9
G106.0	109.9	81.6	107.1	112.7	91.2	97.2	86.4	57.9	64.5	90.4
G107.0	98.3	71.4	98.0	107.1	79.5	90.1	82.0	52.0	55.2	83.4
G108.0	86.8	60.8	89.1	101.2	68.7	83.1	77.5	47.9	46.5	76.8
G109.0	76.3	50.0	80.3	95.2	58.1	76.0	72.3	44.6	38.6	69.9
G110.0	66.7	40.4	71.5	88.8	47.6	69.3	66.9	41.0	31.3	63.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 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	58.0	32.4	63.3	82.8	38.2	62.5	60.7	37.7	24.4	55.3
G112.0	50.2	27.5	55.0	76.8	30.0	55.9	54.3	34.5	19.0	48.4
G113.0	43.7	25.0	46.4	71.0	22.7	48.8	48.0	31.0	14.4	41.8
G114.0	38.2	23.7	38.6	64.7	17.4	42.2	42.2	27.9	10.1	35.4
G115.0	33.0	22.7	31.0	58.7	13.4	35.2	36.7	24.7	7.2	30.0
G116.0	28.3	22.9	25.2	52.3	11.2	28.5	31.0	21.3	6.1	25.1
G117.0	24.1	24.5	19.6	45.7	10.5	22.2	25.9	18.1	5.7	20.3
G118.0	20.1	25.5	14.9	39.6	11.9	17.7	21.0	15.6	5.3	16.3
G119.0	16.7	25.1	10.6	33.7	13.1	14.0	16.5	13.4	5.0	12.6
G120.0	14.3	22.9	7.7	28.5	13.6	11.1	12.2	10.7	4.6	9.6
G121.0	13.4	19.8	6.7	23.8	13.5	8.9	9.0	8.2	4.2	6.8
G122.0	13.4	17.3	6.2	19.5	13.0	7.1	6.4	6.3	4.0	4.9
G123.0	12.9	15.3	5.8	15.4	12.1	5.8	4.9	5.1	4.2	4.1
G124.0	11.3	13.0	5.3	12.1	10.8	4.9	4.3	4.9	4.4	4.1
G125.0	8.6	10.8	5.0	9.0	9.2	4.6	4.3	5.0	4.6	4.0
G126.0	6.2	8.7	4.7	6.6	7.4	4.6	4.6	5.6	4.8	4.0
G127.0	4.7	6.7	4.4	5.0	5.7	4.7	4.7	6.1	5.2	4.2
G128.0	4.5	5.5	4.3	4.5	4.8	4.7	5.1	6.5	5.4	4.2
G129.0	4.7	5.7	4.6	4.4	4.7	4.9	5.9	7.4	6.1	5.0
G130.0	5.2	6.6	4.6	4.3	4.8	5.1	7.0	8.2	7.0	7.2
G131.0	6.0	7.6	4.8	4.4	5.2	5.5	8.7	9.0	8.2	9.2
G132.0	7.2	8.9	5.0	4.6	5.7	6.0	11.8	9.5	9.4	11.3
G133.0	9.5	9.9	5.1	5.1	6.4	6.7	14.8	10.1	10.7	13.2
G134.0	12.6	11.0	5.5	5.8	7.3	7.5	17.5	10.1	12.3	15.0
G135.0	15.5	11.9	6.6	7.1	8.4	8.7	19.7	9.7	13.3	16.1
G136.0	18.5	12.7	7.9	9.1	9.6	10.1	21.2	9.4	14.1	16.8
G137.0	21.1	13.2	9.3	11.1	10.6	11.5	21.9	9.2	14.1	16.7
G138.0	23.7	13.2	10.8	12.6	11.5	12.5	20.9	9.0	13.1	15.6
G139.0	25.9	13.2	12.5	13.8	12.1	13.2	19.7	8.5	11.7	14.0
G140.0	27.4	12.8	13.8	14.4	12.4	13.5	18.6	8.3	10.6	12.8
G141.0	28.1	12.4	14.6	14.5	12.1	13.3	17.3	8.0	9.6	11.6
G142.0	27.4	11.9	14.3	13.7	11.0	12.8	16.2	7.7	8.6	10.6
G143.0	26.2	11.6	13.2	12.5	9.0	12.4	15.3	7.3	7.5	9.4
G144.0	24.9	11.4	12.2	11.4	7.9	11.8	14.3	7.2	6.8	8.5
G145.0	23.7	11.4	11.1	10.5	7.8	11.3	13.1	6.9	6.2	7.8
G146.0	22.4	11.1	10.0	9.6	7.4	10.8	12.2	6.6	5.7	7.0
G147.0	21.3	10.8	8.8	8.7	6.8	10.3	11.4	6.4	5.1	6.2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 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	20.0	10.4	8.0	7.9	6.2	9.8	10.7	6.3	4.9	5.6
G149.0	18.9	10.1	7.3	7.0	5.7	9.2	9.7	5.9	4.7	5.3
G150.0	17.9	10.0	6.7	6.6	5.5	8.8	9.1	5.8	4.7	4.8
G151.0	16.8	9.7	5.9	6.0	5.3	8.4	8.4	5.7	4.8	4.8
G152.0	15.7	9.2	5.5	5.2	5.2	8.0	7.6	5.5	4.8	4.8
G153.0	14.7	8.9	5.4	5.1	5.3	7.5	7.1	5.3	4.7	4.7
G154.0	13.8	8.8	5.3	5.1	5.1	7.1	6.6	5.1	4.7	4.7
G155.0	12.9	8.4	5.1	5.0	5.1	6.8	6.2	5.1	4.7	4.7
G156.0	12.1	8.1	5.1	5.0	5.1	6.5	5.8	5.0	4.9	4.8
G157.0	11.1	7.5	5.1	5.0	5.0	6.2	5.3	5.0	4.9	4.8
G158.0	10.3	7.2	5.2	5.0	5.1	5.8	5.1	4.9	4.7	4.8
G159.0	9.6	7.1	5.2	5.1	5.1	5.5	5.0	4.9	4.8	4.8
G160.0	8.9	6.7	5.1	5.0	5.0	5.4	5.0	4.9	4.9	4.9
G161.0	7.8	6.2	5.0	5.0	4.9	5.2	4.9	4.9	5.0	4.9
G162.0	6.2	5.8	5.1	5.0	5.0	5.0	5.0	4.9	5.0	4.8
G163.0	5.2	5.2	5.1	5.1	5.1	4.9	5.1	4.9	4.8	4.8
G164.0	5.2	5.2	5.0	5.0	4.9	5.0	5.1	5.0	5.0	4.9
G165.0	5.2	5.2	5.1	5.1	5.1	4.9	5.1	5.0	4.8	4.9
G166.0	5.2	5.2	5.1	5.1	5.1	4.9	4.9	5.0	4.8	4.9
G167.0	5.1	5.1	5.0	5.0	5.0	5.1	5.1	5.0	5.0	5.0
G168.0	5.3	5.2	5.0	5.0	5.0	5.1	5.1	5.1	4.9	4.9
G169.0	5.2	5.2	5.1	5.1	5.0	5.1	5.1	5.0	5.1	5.0
G170.0	5.2	5.1	5.2	5.1	5.0	5.1	5.1	5.0	5.1	5.0
G171.0	5.2	5.1	5.1	5.1	5.0	5.1	5.2	5.1	5.0	5.0
G172.0	5.3	5.3	5.1	5.1	5.0	5.1	5.3	5.2	5.0	5.1
G173.0	5.3	5.3	5.2	5.2	5.2	5.0	5.2	5.1	5.2	5.1
G174.0	5.3	5.3	5.1	5.1	5.0	5.0	5.3	5.2	5.2	5.1
G175.0	5.4	5.3	5.2	5.2	5.2	5.0	5.2	5.3	5.2	5.1
G176.0	5.3	5.3	5.2	5.2	5.2	5.1	5.3	5.1	5.2	5.1
G177.0	5.4	5.3	5.2	5.1	5.2	5.1	5.3	5.3	5.1	5.1
G178.0	5.4	5.3	5.2	5.2	5.2	5.1	5.2	5.3	5.1	5.1
G179.0	5.2	5.2	5.1	5.2	5.1	5.1	5.4	5.2	5.3	5.2
G180.0	5.2	5.1	5.1	5.2	5.2	5.1	5.2	5.3	5.1	5.2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	561.0	558.3	574.8						
G1.0	561.3	558.7	575.5						
G2.0	561.5	559.1	576.3						
G3.0	561.5	559.3	576.8						
G4.0	561.6	559.5	577.1						
G5.0	561.3	559.5	577.4						
G6.0	561.1	559.4	577.6						
G7.0	561.0	559.2	577.6						
G8.0	560.6	558.9	577.5						
G9.0	560.0	558.6	577.4						
G10.0	559.5	558.1	577.2						
G11.0	559.0	557.6	576.8						
G12.0	558.2	557.0	576.2						
G13.0	557.2	556.2	575.6						
G14.0	556.2	555.4	575.1						
G15.0	555.2	554.5	574.5						
G16.0	554.2	553.5	573.6						
G17.0	553.0	552.4	572.7						
G18.0	551.4	551.1	571.9						
G19.0	549.9	549.8	570.6						
G20.0	548.5	548.4	569.4						
G21.0	546.6	546.8	568.1						
G22.0	544.8	545.2	566.8						
G23.0	543.0	543.3	565.3						
G24.0	541.0	541.5	563.6						
G25.0	538.9	539.5	561.8						
G26.0	536.4	537.3	560.0						
G27.0	534.0	535.2	557.8						
G28.0	531.6	532.7	555.7						
G29.0	529.1	530.3	553.6						
G30.0	526.2	527.6	551.0						
G31.0	523.3	525.0	548.5						
G32.0	520.4	522.1	546.0						
G33.0	517.0	519.1	543.1						
G34.0	513.9	516.0	540.4						
G35.0	510.6	512.9	537.5						
G36.0	507.1	509.5	534.2						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	503.2	505.9	531.0							
G38.0	499.5	502.4	527.5							
G39.0	495.7	498.8	524.0							
G40.0	491.8	494.9	520.3							
G41.0	487.4	490.8	516.6							
G42.0	483.3	486.9	512.6							
G43.0	479.0	482.5	508.6							
G44.0	474.6	478.3	504.6							
G45.0	469.7	473.8	500.2							
G46.0	465.1	469.3	495.9							
G47.0	460.3	464.6	491.5							
G48.0	455.5	459.6	486.6							
G49.0	450.0	454.8	481.8							
G50.0	444.9	449.5	477.0							
G51.0	439.7	444.5	472.1							
G52.0	434.0	439.1	466.8							
G53.0	428.6	433.8	461.6							
G54.0	423.0	428.2	456.3							
G55.0	417.0	422.5	450.7							
G56.0	411.4	417.0	445.1							
G57.0	405.5	411.0	439.2							
G58.0	399.7	405.2	433.4							
G59.0	393.3	399.1	427.3							
G60.0	387.4	393.2	421.4							
G61.0	381.1	386.9	415.4							
G62.0	375.0	380.8	409.0							
G63.0	368.4	374.4	402.8							
G64.0	362.2	368.2	396.2							
G65.0	355.9	361.6	390.0							
G66.0	349.2	355.1	383.7							
G67.0	343.0	348.8	377.0							
G68.0	336.5	342.1	370.2							
G69.0	329.7	335.4	363.6							
G70.0	323.3	328.9	357.0							
G71.0	316.7	322.0	350.3							
G72.0	310.3	315.5	343.2							
G73.0	303.8	308.9	336.4							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	296.8	302.1	329.2							
G75.0	290.4	295.6	322.2							
G76.0	283.7	288.7	315.4							
G77.0	276.7	281.8	308.3							
G78.0	270.0	275.4	301.5							
G79.0	263.4	268.8	294.3							
G80.0	256.6	262.0	287.5							
G81.0	249.6	255.3	280.5							
G82.0	242.9	248.5	273.9							
G83.0	236.3	242.1	267.2							
G84.0	229.5	235.3	260.5							
G85.0	223.3	228.8	253.9							
G86.0	217.2	222.4	247.0							
G87.0	211.1	215.7	240.4							
G88.0	204.9	209.4	233.6							
G89.0	199.0	203.6	227.3							
G90.0	193.1	197.3	220.6							
G91.0	187.6	191.7	214.4							
G92.0	182.1	185.8	208.1							
G93.0	176.8	180.4	202.2							
G94.0	171.0	174.9	196.3							
G95.0	165.0	169.6	190.3							
G96.0	157.4	162.8	184.7							
G97.0	148.3	155.1	179.1							
G98.0	137.5	146.0	173.8							
G99.0	126.3	135.5	168.5							
G100.0	113.2	122.8	161.8							
G101.0	100.0	110.3	154.0							
G102.0	88.1	97.2	146.4							
G103.0	76.4	84.2	138.8							
G104.0	65.9	72.6	130.6							
G105.0	55.3	61.4	121.7							
G106.0	45.8	51.0	109.9							
G107.0	37.4	42.3	98.3							
G108.0	29.2	34.8	86.8							
G109.0	22.8	28.9	76.3							
G110.0	18.3	23.8	66.7							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	15.3	19.9	58.0							
G112.0	13.6	16.6	50.2							
G113.0	13.1	14.2	43.7							
G114.0	13.9	12.2	38.2							
G115.0	14.6	11.1	33.0							
G116.0	14.9	10.1	28.3							
G117.0	14.9	8.5	24.1							
G118.0	14.3	7.1	20.1							
G119.0	13.3	6.2	16.7							
G120.0	12.0	5.4	14.3							
G121.0	10.4	4.6	13.4							
G122.0	8.5	4.0	13.4							
G123.0	6.4	4.1	12.9							
G124.0	4.8	4.3	11.3							
G125.0	4.5	4.4	8.6							
G126.0	4.7	4.8	6.2							
G127.0	5.2	5.6	4.7							
G128.0	6.0	6.2	4.5							
G129.0	7.0	7.5	4.7							
G130.0	8.2	9.2	5.2							
G131.0	9.3	10.9	6.0							
G132.0	10.4	12.5	7.2							
G133.0	11.3	14.0	9.5							
G134.0	12.0	15.6	12.6							
G135.0	12.5	16.7	15.5							
G136.0	12.8	17.6	18.5							
G137.0	12.6	18.3	21.1							
G138.0	12.0	18.5	23.7							
G139.0	11.0	18.0	25.9							
G140.0	9.9	17.5	27.4							
G141.0	9.0	17.0	28.1							
G142.0	8.3	16.2	27.4							
G143.0	7.6	15.6	26.2							
G144.0	7.0	15.1	24.9							
G145.0	6.6	14.4	23.7							
G146.0	6.3	13.8	22.4							
G147.0	6.2	13.1	21.3							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	6.1	12.4	20.0							
G149.0	6.1	11.7	18.9							
G150.0	6.0	11.1	17.9							
G151.0	5.9	10.4	16.8							
G152.0	5.8	9.9	15.7							
G153.0	5.8	9.2	14.7							
G154.0	5.7	8.7	13.8							
G155.0	5.6	8.1	12.9							
G156.0	5.4	7.6	12.1							
G157.0	5.1	6.9	11.1							
G158.0	4.7	6.1	10.3							
G159.0	4.8	4.8	9.6							
G160.0	4.8	4.8	8.9							
G161.0	4.9	4.8	7.8							
G162.0	4.9	4.8	6.2							
G163.0	4.9	4.9	5.2							
G164.0	4.9	4.9	5.2							
G165.0	4.9	4.9	5.2							
G166.0	4.9	4.9	5.2							
G167.0	4.9	5.0	5.1							
G168.0	4.9	5.0	5.3							
G169.0	5.0	5.0	5.2							
G170.0	5.0	5.0	5.2							
G171.0	5.0	5.1	5.2							
G172.0	5.0	5.1	5.3							
G173.0	5.2	5.1	5.3							
G174.0	5.1	5.1	5.3							
G175.0	5.1	5.1	5.4							
G176.0	5.2	5.1	5.3							
G177.0	5.1	5.1	5.4							
G178.0	5.1	5.1	5.4							
G179.0	5.2	5.1	5.2							
G180.0	5.1	5.1	5.2							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector: