

Report No.:

Test Time: 2020-08-29 17:23

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-4D12CC-BZ-5K

Luminous Length (mm): 55

Luminous Width (mm): 55

Voltage: 120.3 V

Current: 0.093 A

Power: 10.97 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 760.4 lm

Measurement Flux: 760.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.7, 161.0, 161.8, 158.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.1, 115.9, 116.6, 116.1

Luminaire Efficacy Rating (LER): 69.37

Central Intensity: 255.26 cd

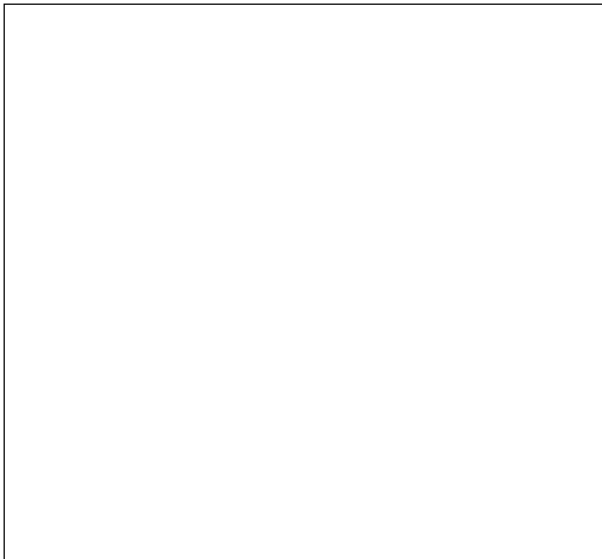
Max. Intensity: 256.34 cd

Pos of Max. Intensity: H300 V1

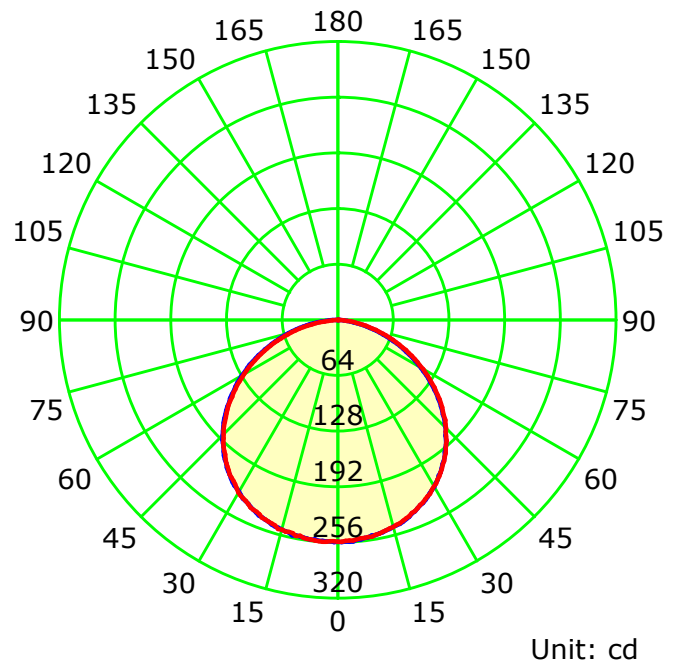
S/MH(C0/C180): 1.31

S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 6.935 m

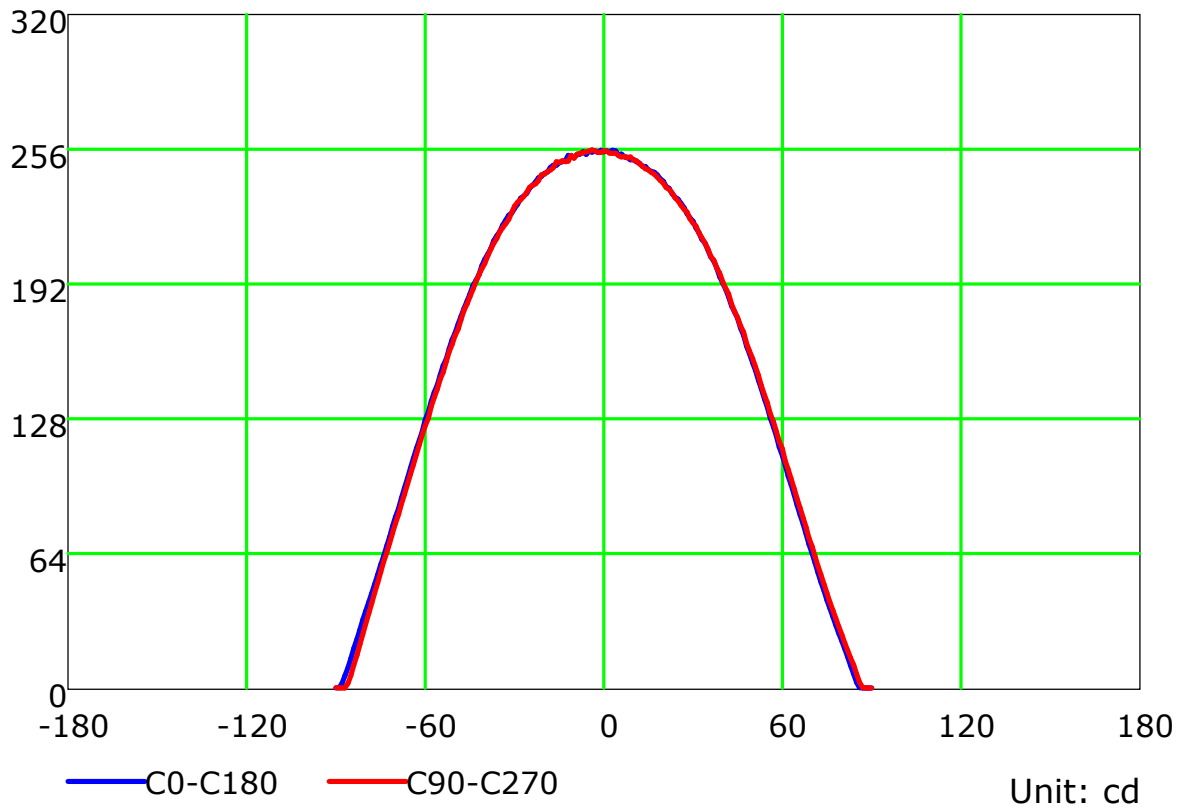
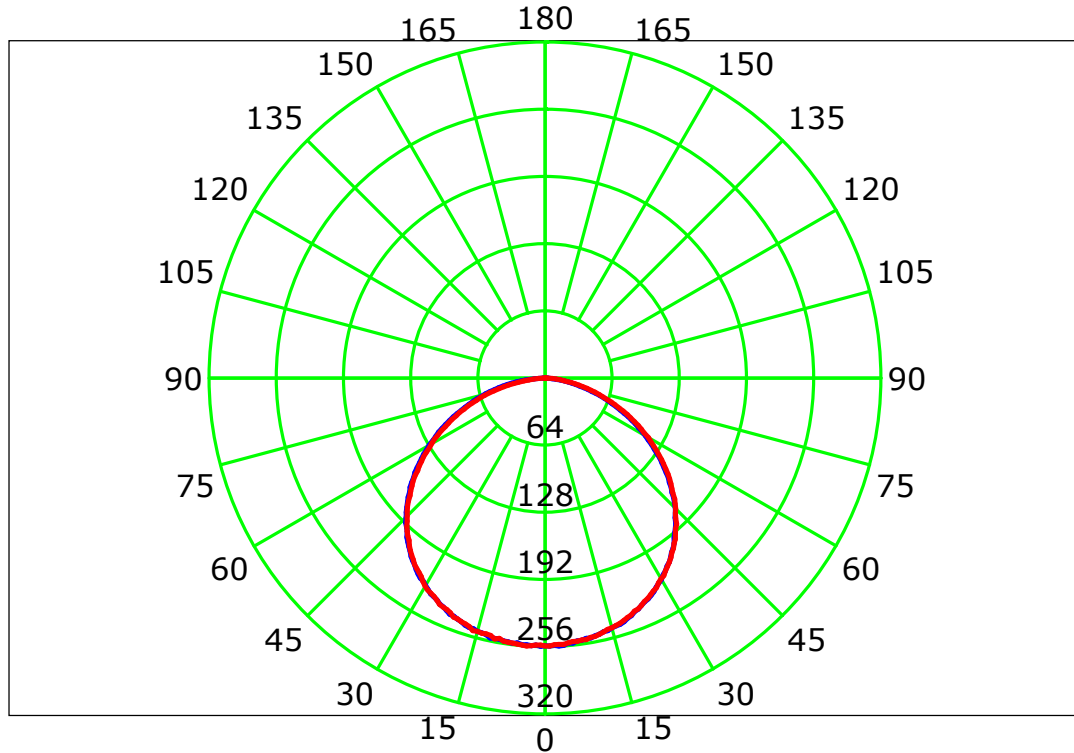
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

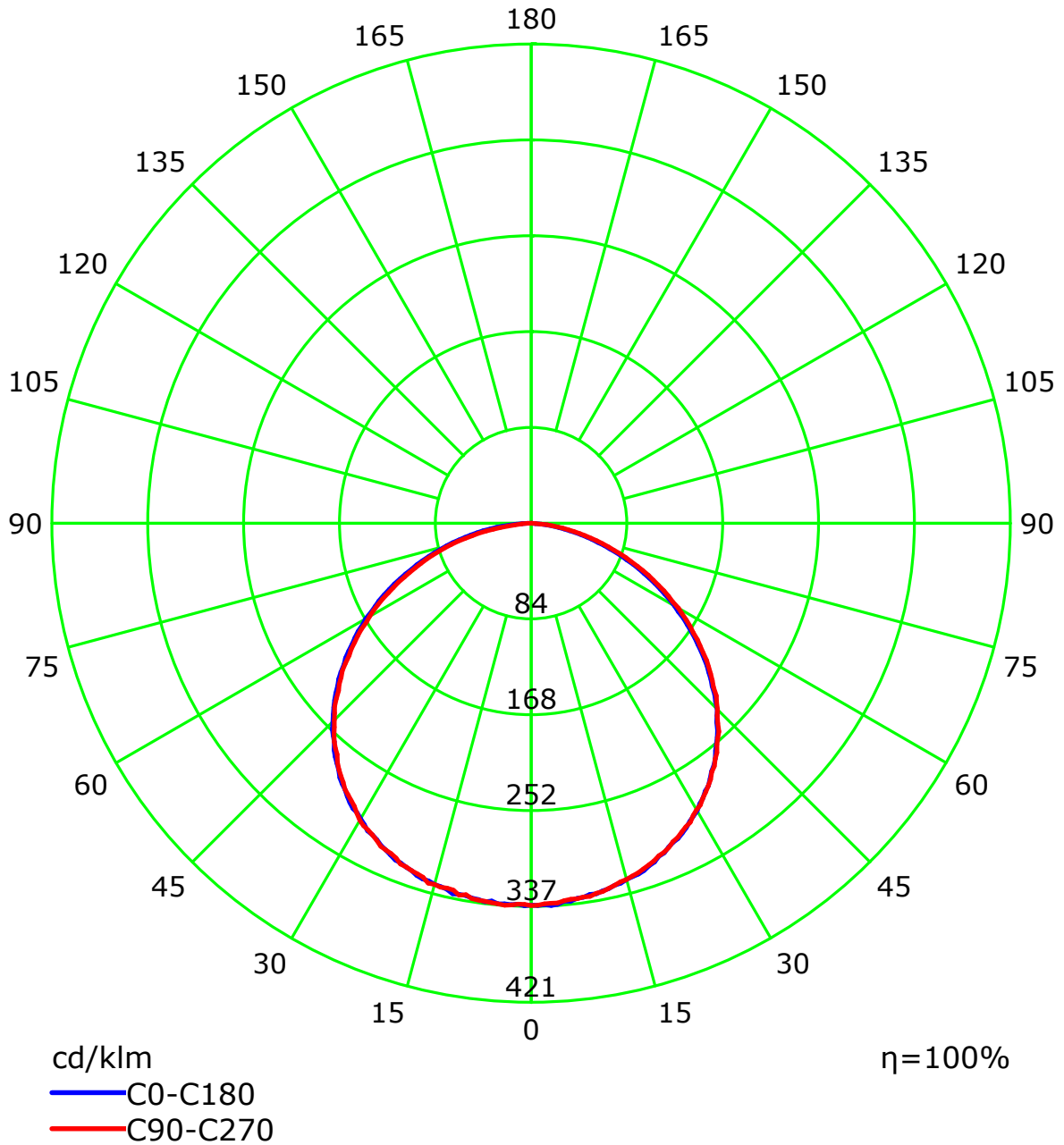
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



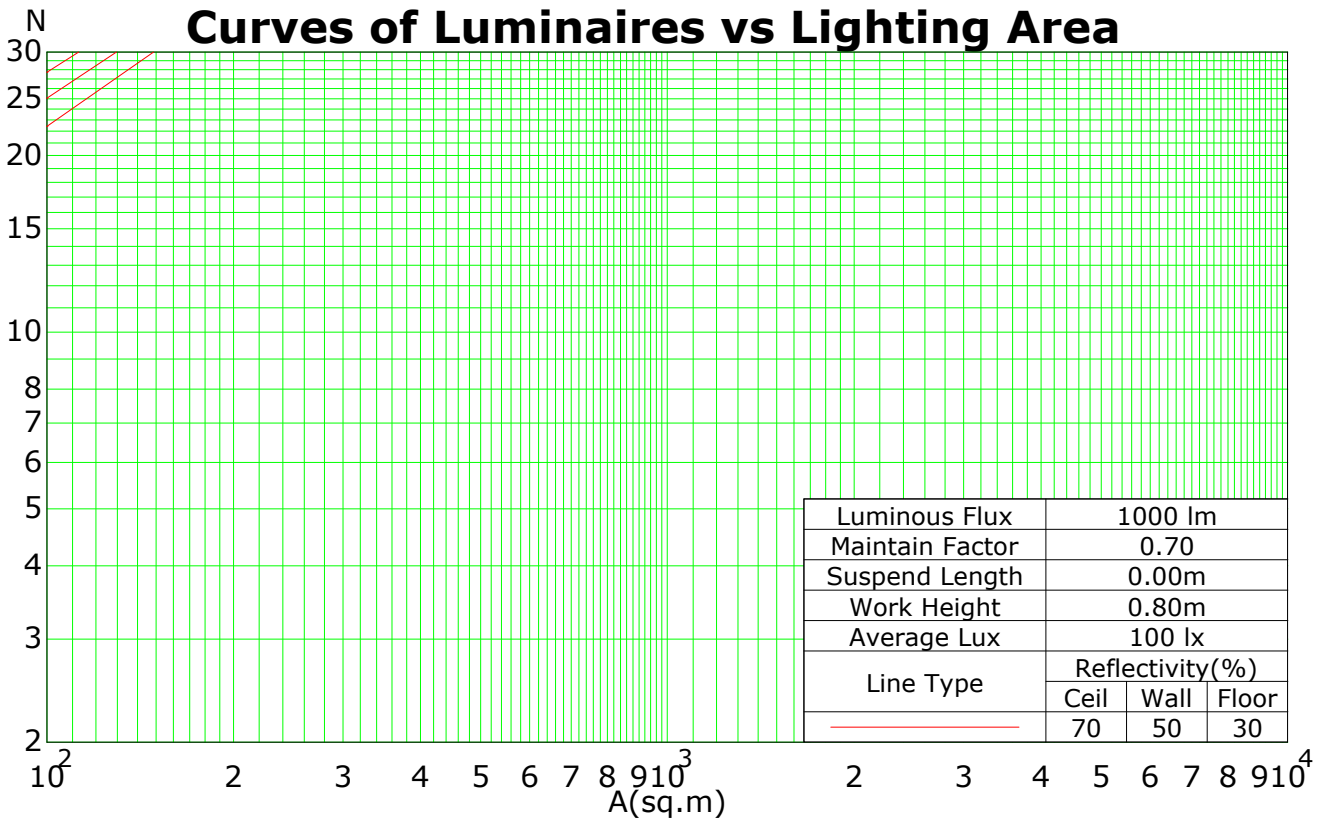
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

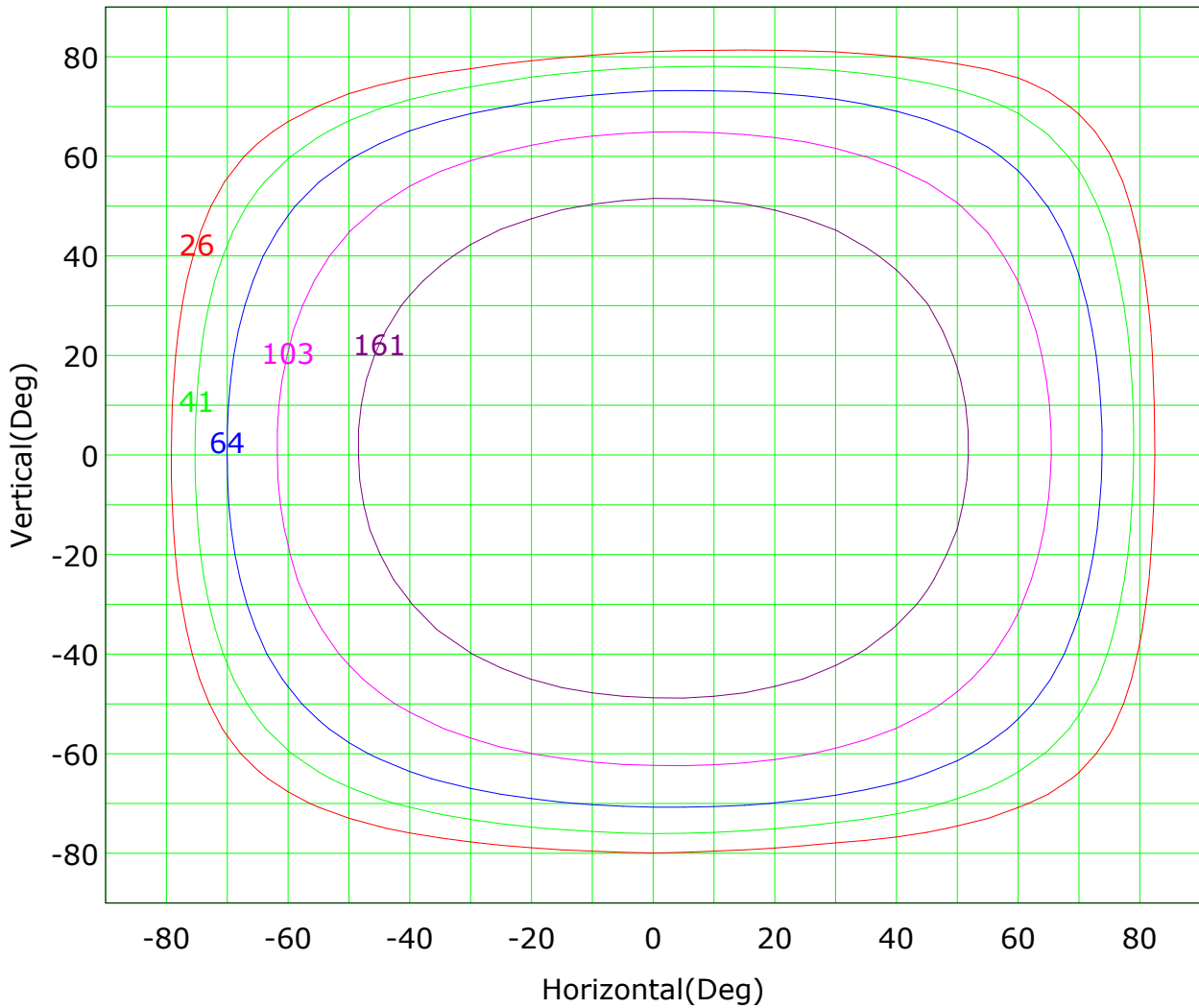
Spacing Criteria (0-180): 1.31
 Spacing Criteria (90-270): 1.30
 Spacing Criteria (Diagonal): 1.42



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 256 cd

— (10%):	26 cd	— (16%):	41 cd
— (25%):	64 cd	— (40%):	103 cd
— (63%):	161 cd	— (100%):	256 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

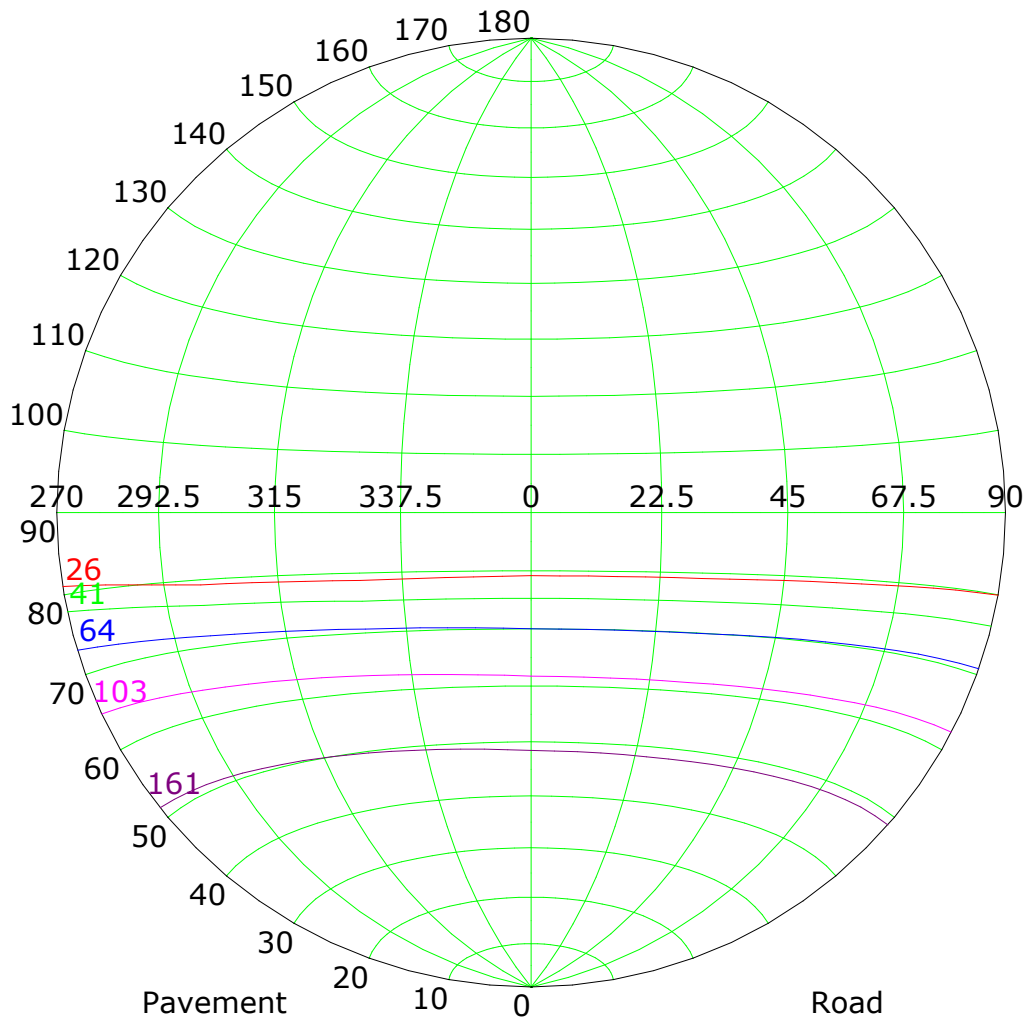
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 256 cd

— (10%):	26 cd	— (16%):	41 cd
— (25%):	64 cd	— (40%):	103 cd
— (63%):	161 cd	— (100%):	256 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

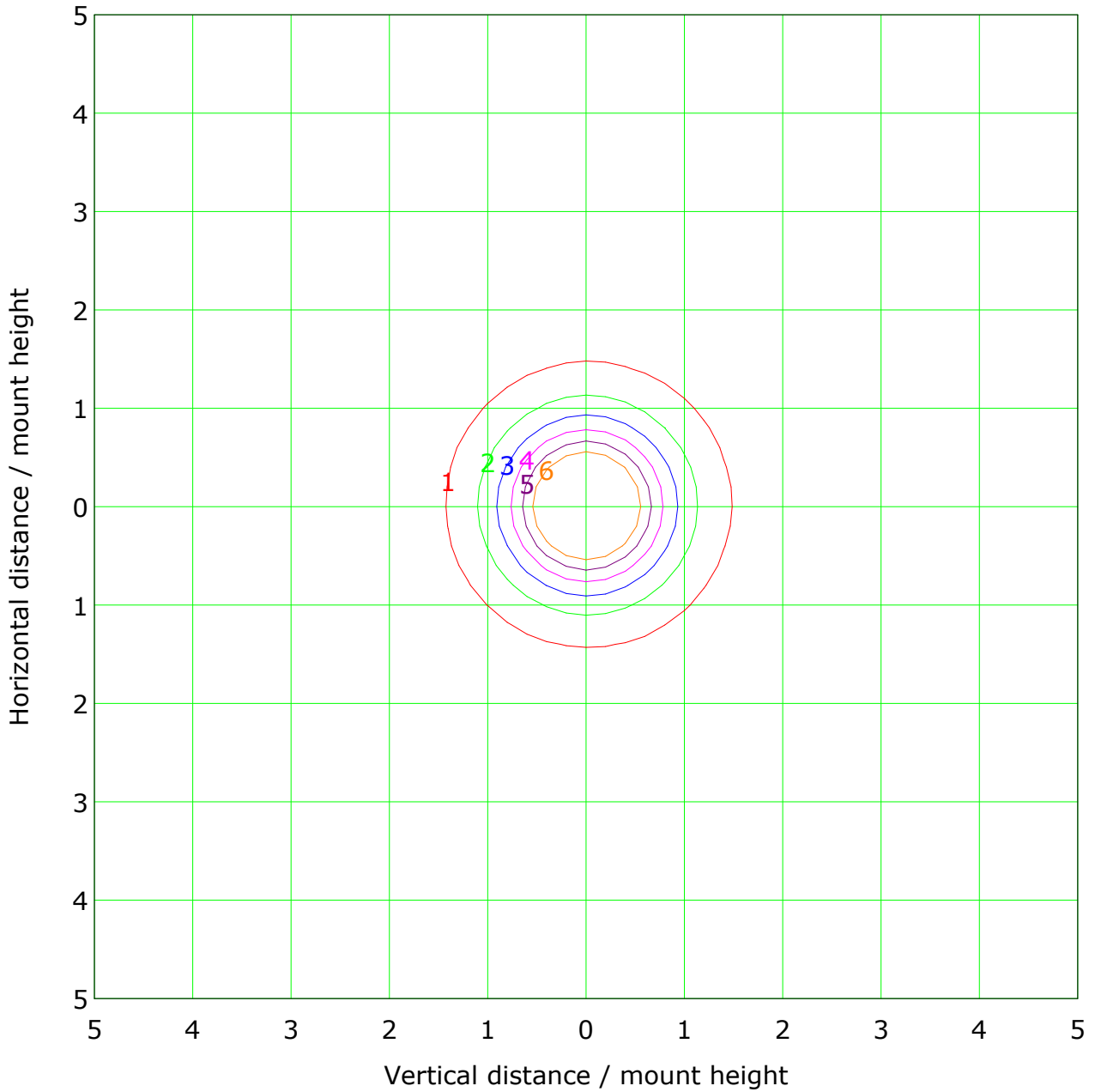
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 10.2 lx	
<ul style="list-style-type: none"> — (10%): 1.0 lx — (30%): 3.1 lx — (50%): 5.1 lx — (100%): 10.2 lx 	<ul style="list-style-type: none"> — (20%): 2.0 lx — (40%): 4.1 lx — (60%): 6.1 lx 		

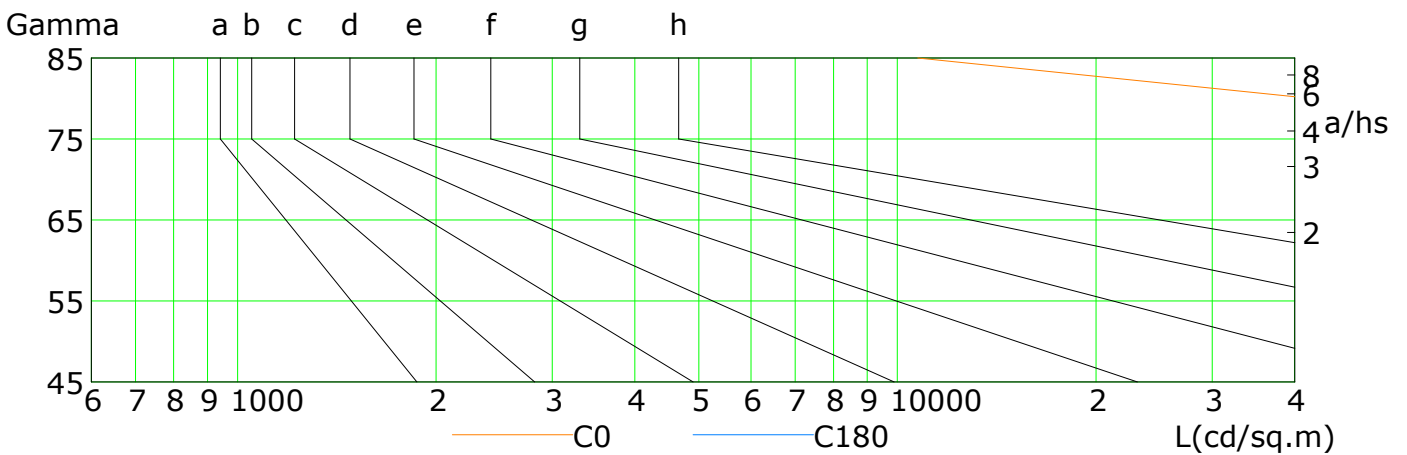
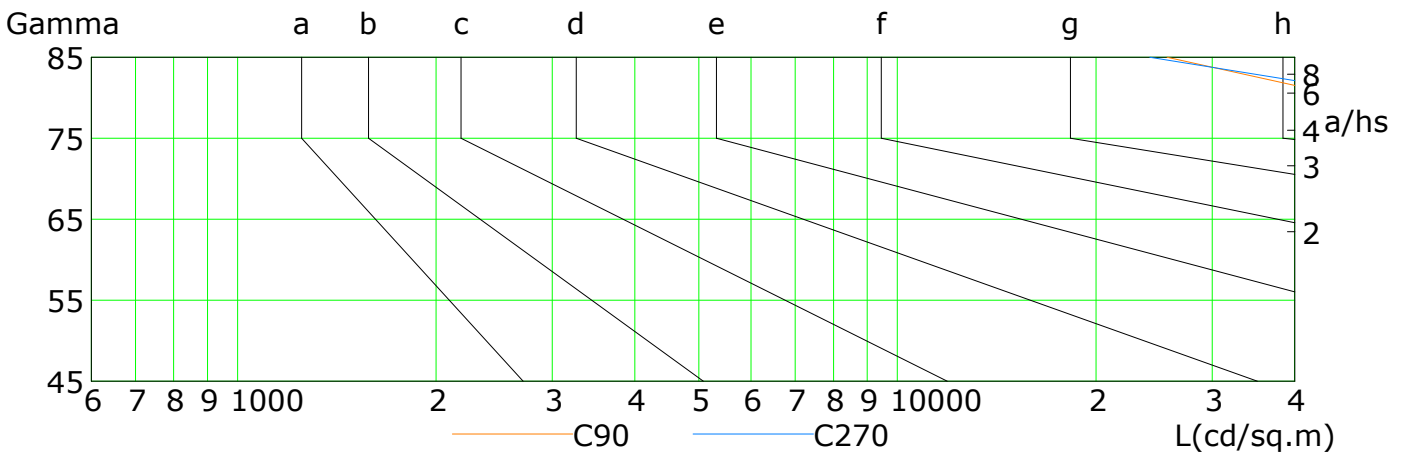
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	82300	79638	77086	73243	68217	62023	53773	42682	10734
C90	82450	80646	78285	75345	70517	65242	58039	48564	25640
C180	87709	86848	85927	84483	81968	78774	75077	69924	54391
C270	87111	86210	84763	82625	79708	75845	70581	58349	24123

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

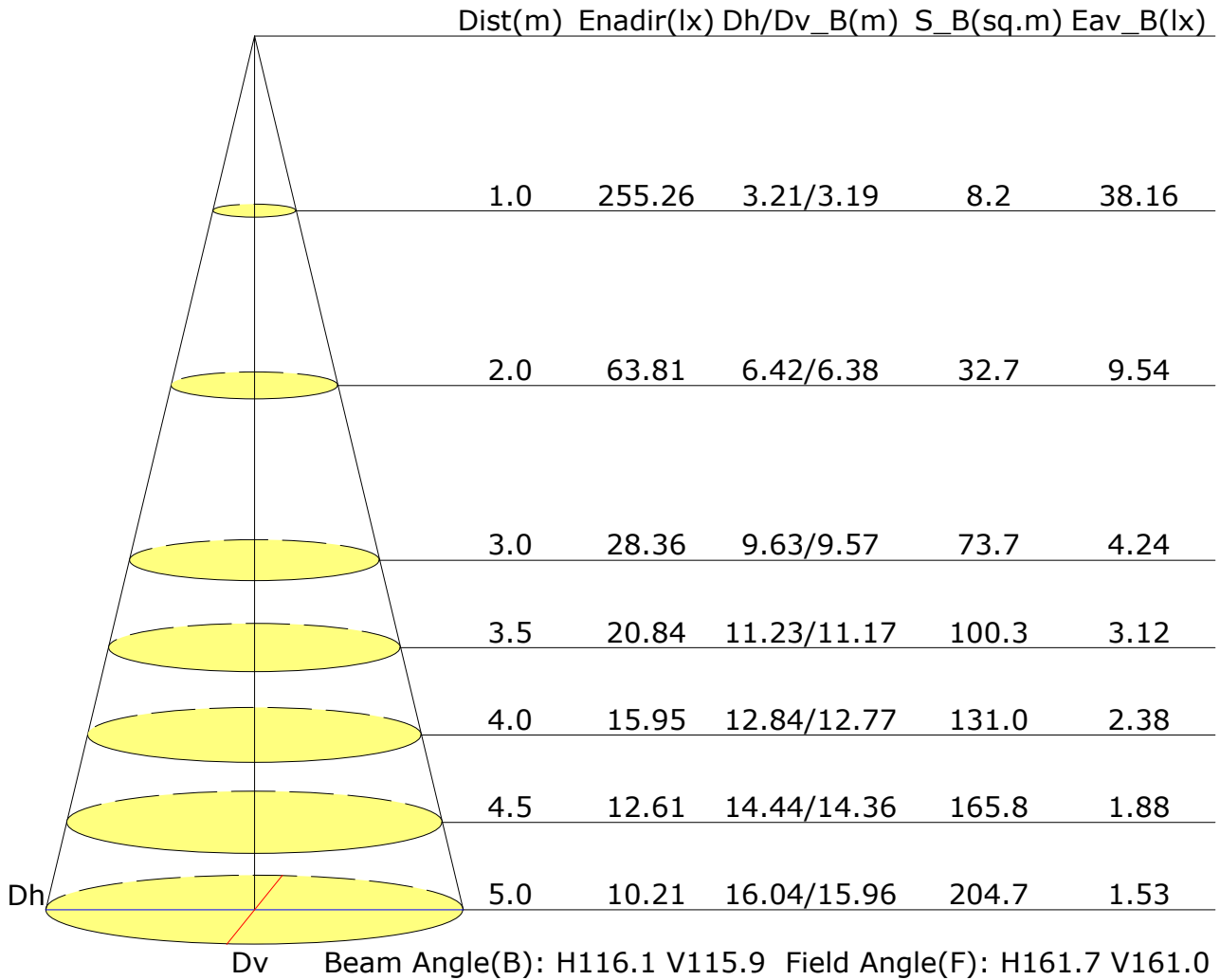
Test Device: GPM-1600L

Distance: 6.935 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 (°):0.0-90.0:1.0

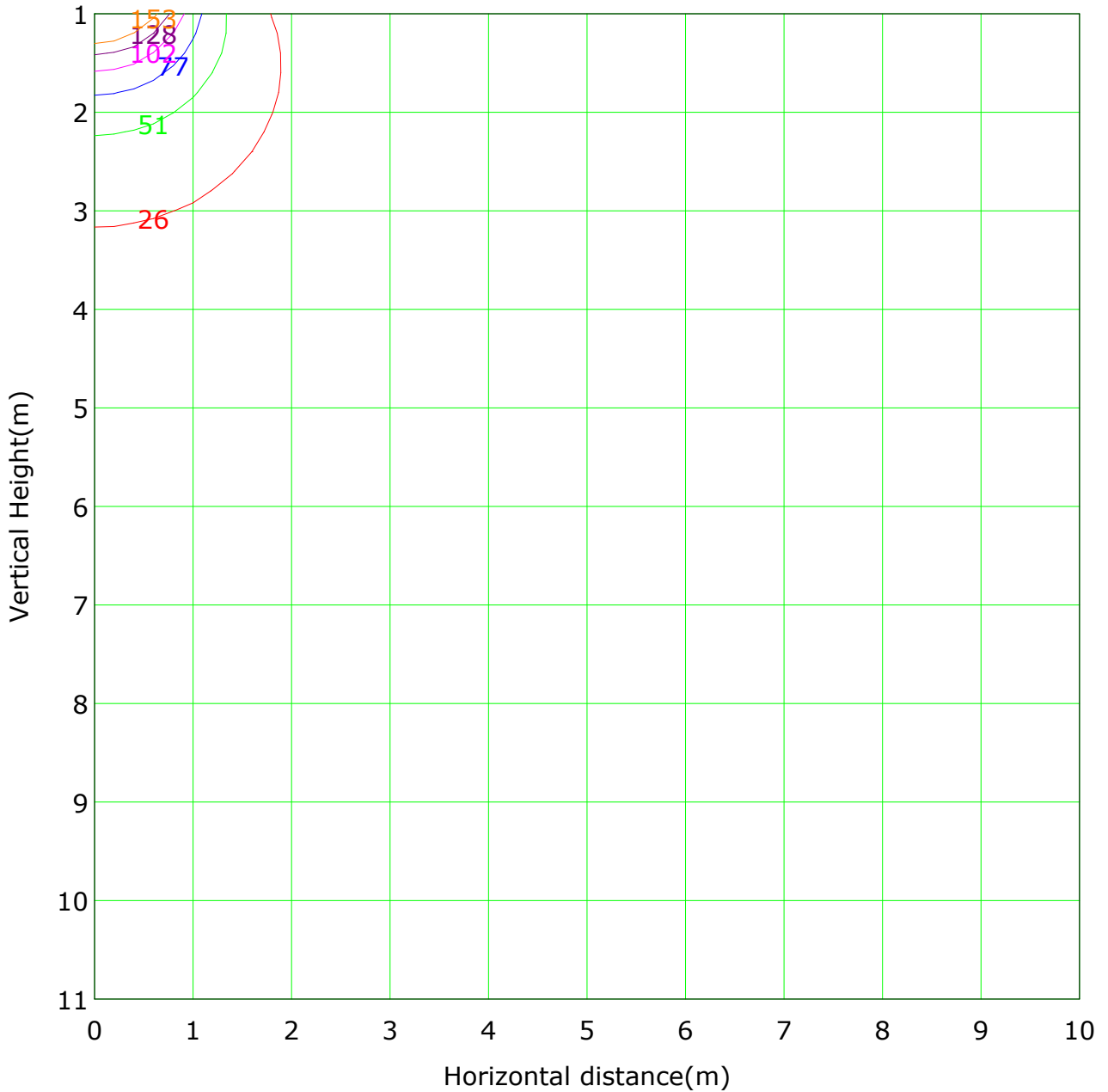
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 255.3 lx
(10%): 25.5 lx	(20%): 51.1 lx	
(30%): 76.6 lx	(40%): 102.1 lx	
(50%): 127.6 lx	(60%): 153.2 lx	
(100%): 255.3 lx		

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Area Flux Table

Unit: lm

-90	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	2.5	0.4
-80	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.6	1.4	1.1	0.8	0.5	0.3	0.1	0.0	0.0	13.6	12.3
-70	0.0	0.2	0.5	1.0	1.5	2.1	2.6	2.9	3.1	3.0	2.8	2.3	1.8	1.2	0.7	0.3	0.1	0.0	26.1	25.7
-60	0.0	0.3	0.7	1.4	2.2	3.0	3.7	4.2	4.4	4.4	4.1	3.5	2.7	1.9	1.1	0.5	0.1	0.0	38.2	38.0
-50	0.0	0.3	0.9	1.8	2.8	3.8	4.7	5.3	5.6	5.6	5.2	4.5	3.5	2.5	1.5	0.7	0.2	0.0	48.9	48.8
-40	0.0	0.4	1.1	2.1	3.3	4.5	5.5	6.2	6.5	6.5	6.1	5.3	4.2	3.0	1.8	0.9	0.3	0.0	57.6	57.5
-30	0.1	0.4	1.2	2.4	3.7	4.9	6.0	6.8	7.2	7.1	6.7	5.9	4.7	3.4	2.1	1.0	0.3	0.0	63.9	63.8
-20	0.1	0.5	1.3	2.5	3.9	5.3	6.4	7.2	7.5	7.5	7.1	6.2	5.0	3.7	2.3	1.1	0.3	0.0	67.8	67.8
-10	0.1	0.5	1.4	2.6	4.0	5.4	6.5	7.3	7.7	7.7	7.2	6.4	5.2	3.8	2.3	1.1	0.4	0.0	69.6	69.5
0	0.1	0.5	1.3	2.6	4.0	5.4	6.5	7.3	7.7	7.6	7.2	6.4	5.2	3.7	2.3	1.1	0.4	0.0	69.2	69.2
10	0.1	0.5	1.3	2.5	3.8	5.2	6.3	7.1	7.4	7.4	7.0	6.1	5.0	3.6	2.2	1.1	0.3	0.0	66.9	66.8
20	0.0	0.4	1.2	2.3	3.6	4.8	5.9	6.6	7.0	7.0	6.5	5.7	4.6	3.3	2.0	1.0	0.3	0.0	62.3	62.2
30	0.0	0.4	1.0	2.0	3.1	4.3	5.3	6.0	6.3	6.3	5.9	5.1	4.1	2.9	1.8	0.9	0.3	0.0	55.5	55.4
40	0.0	0.3	0.8	1.7	2.6	3.6	4.4	5.0	5.3	5.3	4.9	4.2	3.4	2.4	1.4	0.7	0.2	0.0	46.3	46.2
50	0.0	0.2	0.6	1.3	2.0	2.8	3.4	3.9	4.1	4.1	3.8	3.2	2.5	1.8	1.1	0.5	0.1	0.0	35.3	35.1
60	0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.6	2.7	2.7	2.5	2.1	1.6	1.1	0.7	0.3	0.1	0.0	23.2	22.8
70	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.2	1.0	0.8	0.5	0.3	0.1	0.0	0.0	11.3	9.4
80	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	2.0	0.0
Flux(T)	0.6	5.1	14.5	28.0	43.7	59.2	72.4	81.8	86.3	85.7	79.9	69.5	55.4	39.4	24.0	11.4	3.4	0.2	760	
Flux(E)	0.2	4.5	13.9	27.4	43.1	58.6	71.9	81.2	85.8	85.3	79.4	68.9	54.8	38.9	23.4	10.8	2.6	0.0		751
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	Flux(T)	Flux(E)

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

C Plane (°):0.0-360.0: 30.0

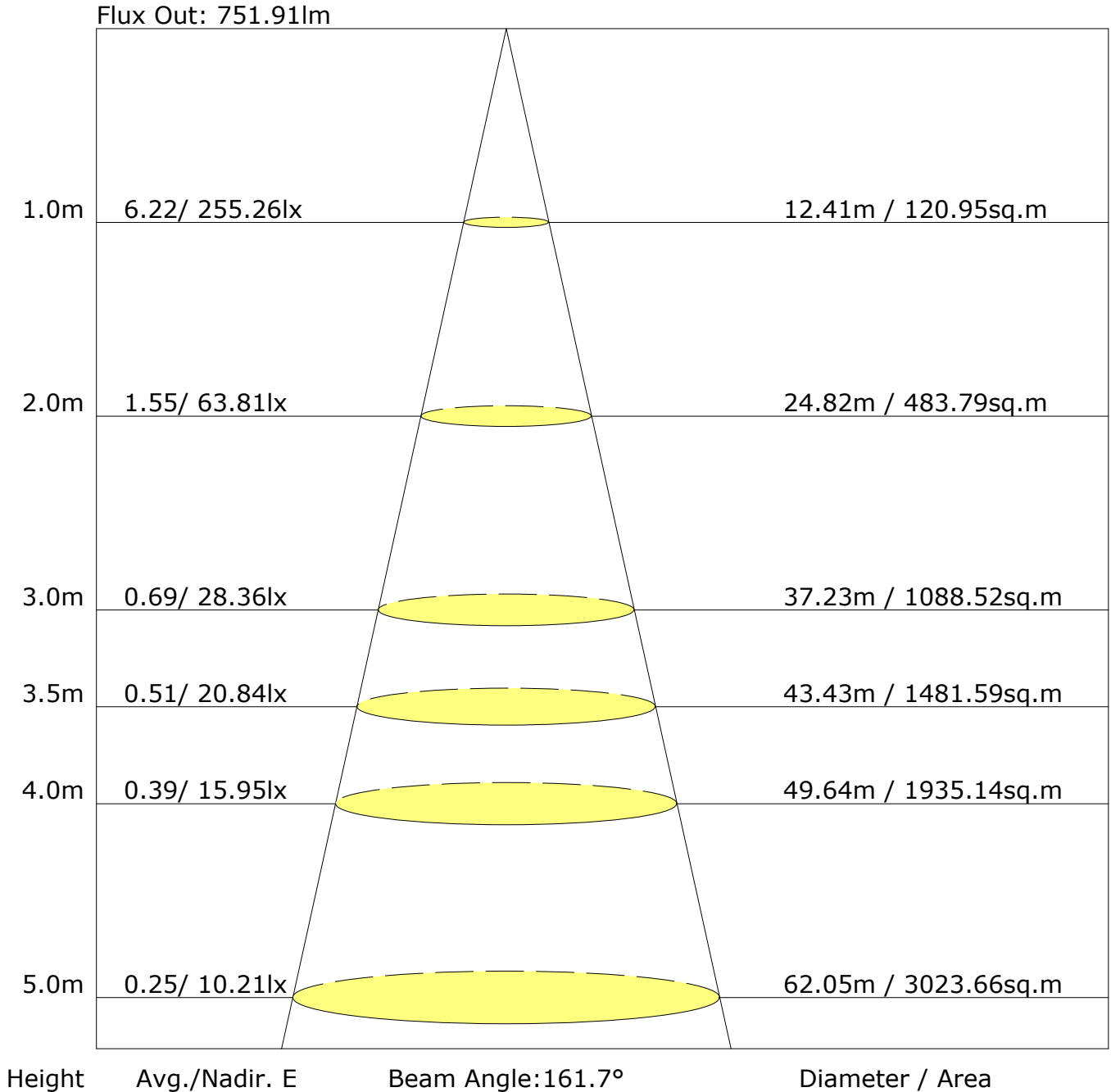
Test Lab:

Test Type: TYPE C

Temperature:

Operator:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	27.6	29.0	27.9	29.3	29.5	27.9	29.3	28.2	29.5	29.8					
3H	29.0	30.3	29.3	30.5	30.8	29.4	30.7	29.7	30.9	31.2					
4H	29.5	30.7	29.8	31.0	31.3	30.0	31.2	30.3	31.5	31.8					
6H	29.8	30.9	30.1	31.2	31.5	30.4	31.5	30.7	31.8	32.1					
8H	29.8	30.9	30.2	31.2	31.6	30.5	31.5	30.8	31.9	32.2					
12H	29.8	30.9	30.2	31.2	31.5	30.5	31.5	30.9	31.8	32.2					
X=4H Y=2H	28.3	29.5	28.6	29.8	30.1	28.5	29.7	28.8	30.0	30.3					
3H	29.8	30.9	30.2	31.2	31.5	30.2	31.2	30.6	31.5	31.9					
4H	30.4	31.4	30.8	31.7	32.1	30.9	31.8	31.3	32.1	32.5					
6H	30.8	31.6	31.2	32.0	32.4	31.3	32.2	31.8	32.5	32.9					
8H	30.9	31.7	31.3	32.1	32.5	31.5	32.2	31.9	32.6	33.0					
12H	30.9	31.6	31.4	32.0	32.5	31.5	32.2	32.0	32.6	33.1					
X=8H Y=4H	30.7	31.4	31.1	31.8	32.3	31.1	31.8	31.5	32.2	32.6					
6H	31.2	31.8	31.6	32.2	32.7	31.6	32.2	32.1	32.7	33.1					
8H	31.3	31.8	31.8	32.3	32.8	31.8	32.3	32.3	32.8	33.3					
12H	31.3	31.8	31.8	32.3	32.8	31.9	32.3	32.4	32.8	33.3					
X=12H Y=4H	30.7	31.4	31.1	31.8	32.2	31.1	31.7	31.5	32.2	32.6					
6H	31.2	31.7	31.7	32.2	32.7	31.7	32.2	32.1	32.6	33.1					
8H	31.3	31.8	31.8	32.3	32.8	31.8	32.3	32.3	32.8	33.3					
Variations with the observer position at spacings:															
S=1.0H						+0.2/-0.2					+0.1/-0.1				
S=1.5H						+0.3/-0.5					+0.3/-0.4				
S=2.0H						+0.6/-1.0					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 760lm ($8\log(F/F_0) = -1.0$).

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

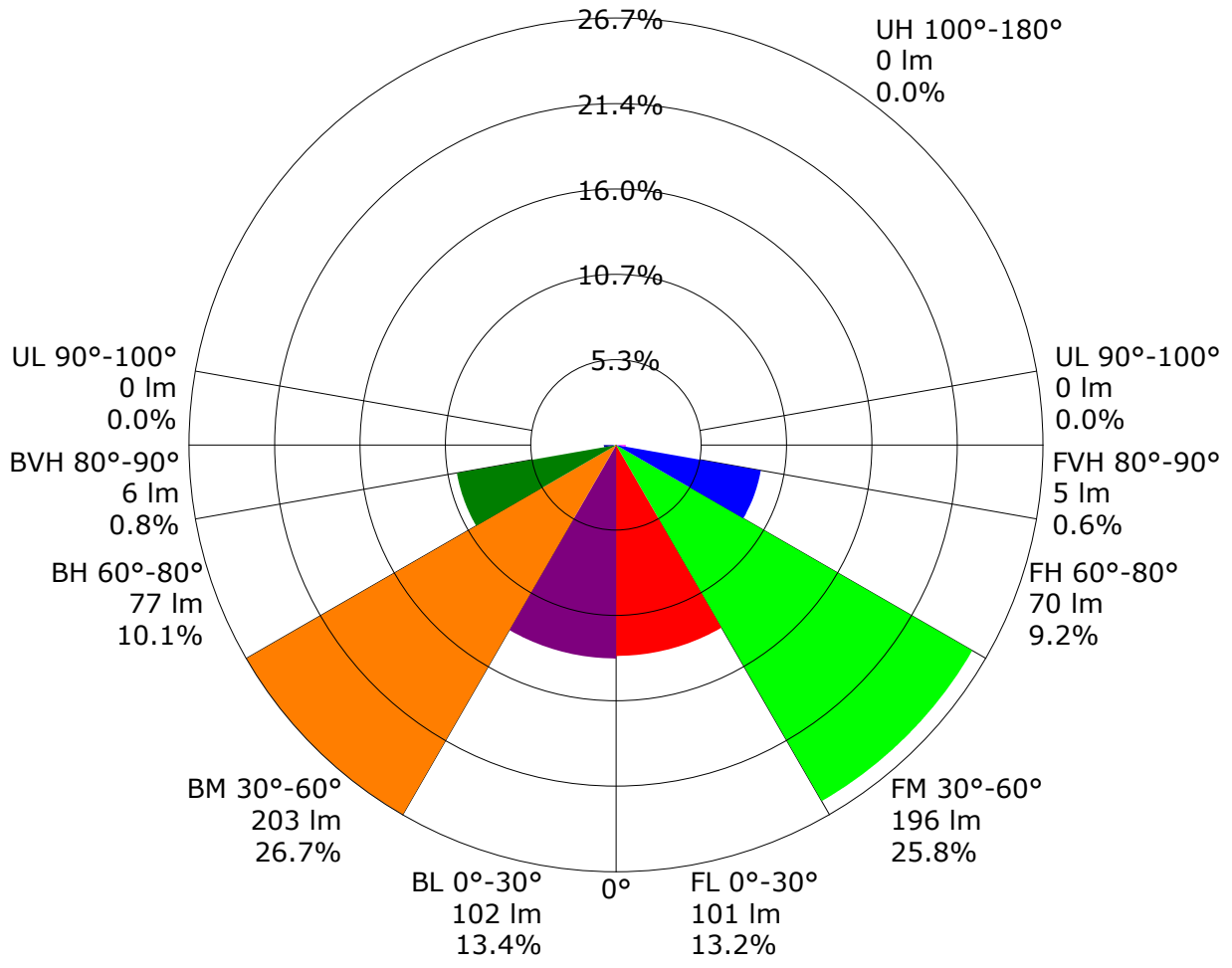
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	372	48.9
	FL (0°-30°)	101	13.2
	FM (30°-60°)	196	25.8
	FH (60°-80°)	70	9.2
	FVH (80°-90°)	5	0.6
	BACK LIGHT	388	51.1
	BL (0°-30°)	102	13.4
	BM (30°-60°)	203	26.7
	BH (60°-80°)	77	10.1
	BVH (80°-90°)	6	0.8
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

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	0.60	0.68	0.76	0.81	0.88	0.93	0.97	1.01	1.04	
	0.30		0.52	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.01	
	0.20		0.47	0.55	0.63	0.69	0.77	0.83	0.88	0.94	0.98	
0.50	0.50	0.20	0.58	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.51	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
	0.20		0.47	0.54	0.62	0.68	0.76	0.81	0.85	0.91	0.95	
0.30	0.50	0.20	0.57	0.64	0.71	0.76	0.82	0.87	0.90	0.93	0.96	
	0.30		0.51	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
	0.20		0.46	0.54	0.62	0.67	0.74	0.80	0.83	0.88	0.92	
0.00	0.00	0.00	0.44	0.51	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
<p>Rating:11W 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 (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

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	0.95	0.80	0.68	0.59	0.47	0.39	0.33	0.26	0.21	
	0.30		0.79	0.69	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.68	0.60	0.52	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.92	0.77	0.65	0.56	0.45	0.40	0.32	0.24	0.20	
	0.30		0.78	0.67	0.57	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.89	0.74	0.62	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.76	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.67	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.56	0.49	0.41	0.36	0.29	0.24	0.21	0.16	0.13	
<p>Rating:11W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:11W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	255.3	0.2	0.2	0.03	0.03
1.0-2.0	255.1	0.7	1.0	0.10	0.13
2.0-3.0	255.0	1.2	2.2	0.16	0.29
3.0-4.0	255.0	1.7	3.9	0.22	0.51
4.0-5.0	254.7	2.2	6.1	0.29	0.80
5.0-6.0	254.3	2.7	8.8	0.35	1.15
6.0-7.0	253.8	3.2	11.9	0.41	1.57
7.0-8.0	253.4	3.6	15.5	0.48	2.04
8.0-9.0	252.9	4.1	19.6	0.54	2.58
9.0-10.0	252.4	4.6	24.2	0.60	3.18
10.0-11.0	252.0	5.0	29.2	0.66	3.85
11.0-12.0	251.3	5.5	34.7	0.72	4.57
12.0-13.0	250.4	5.9	40.7	0.78	5.35
13.0-14.0	249.5	6.4	47.1	0.84	6.19
14.0-15.0	248.7	6.8	53.9	0.90	7.09
15.0-16.0	247.9	7.3	61.2	0.96	8.04
16.0-17.0	247.0	7.7	68.9	1.01	9.06
17.0-18.0	245.8	8.1	77.0	1.07	10.12
18.0-19.0	244.5	8.5	85.5	1.12	11.24
19.0-20.0	243.3	8.9	94.4	1.17	12.41
20.0-21.0	241.9	9.3	103.7	1.22	13.63
21.0-22.0	240.5	9.7	113.3	1.27	14.90
22.0-23.0	238.9	10.0	123.4	1.32	16.22
23.0-24.0	237.4	10.4	133.7	1.36	17.59
24.0-25.0	235.9	10.7	144.5	1.41	19.00
25.0-26.0	234.2	11.1	155.5	1.45	20.45
26.0-27.0	232.2	11.4	166.9	1.49	21.95
27.0-28.0	230.2	11.7	178.5	1.53	23.48
28.0-29.0	228.4	12.0	190.5	1.57	25.05
29.0-30.0	226.4	12.2	202.7	1.61	26.66
30.0-31.0	224.1	12.5	215.2	1.64	28.30
31.0-32.0	221.7	12.7	227.9	1.67	29.97
32.0-33.0	219.3	12.9	240.8	1.70	31.67
33.0-34.0	216.9	13.1	253.9	1.73	33.39
34.0-35.0	214.4	13.3	267.3	1.75	35.14
35.0-36.0	211.7	13.5	280.7	1.77	36.92

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	209.0	13.6	294.4	1.79	38.71
37.0-38.0	206.1	13.8	308.1	1.81	40.52
38.0-39.0	203.1	13.9	322.0	1.82	42.34
39.0-40.0	199.9	13.9	335.9	1.83	44.18
40.0-41.0	196.8	14.0	350.0	1.84	46.02
41.0-42.0	193.7	14.1	364.0	1.85	47.87
42.0-43.0	190.2	14.1	378.1	1.85	49.72
43.0-44.0	186.7	14.1	392.2	1.85	51.58
44.0-45.0	183.3	14.1	406.3	1.85	53.43
45.0-46.0	179.7	14.1	420.4	1.85	55.28
46.0-47.0	176.1	14.0	434.4	1.84	57.12
47.0-48.0	172.4	13.9	448.3	1.83	58.95
48.0-49.0	168.3	13.8	462.1	1.82	60.77
49.0-50.0	164.4	13.7	475.8	1.80	62.57
50.0-51.0	160.3	13.6	489.4	1.78	64.36
51.0-52.0	156.3	13.4	502.8	1.76	66.12
52.0-53.0	152.2	13.2	516.1	1.74	67.86
53.0-54.0	147.8	13.0	529.1	1.71	69.58
54.0-55.0	143.7	12.8	541.9	1.69	71.26
55.0-56.0	139.3	12.6	554.5	1.66	72.92
56.0-57.0	134.9	12.3	566.8	1.62	74.54
57.0-58.0	130.7	12.1	578.9	1.59	76.13
58.0-59.0	126.1	11.8	590.7	1.55	77.68
59.0-60.0	121.5	11.5	602.2	1.51	79.19
60.0-61.0	117.0	11.2	613.4	1.47	80.66
61.0-62.0	112.3	10.8	624.2	1.42	82.08
62.0-63.0	107.8	10.5	634.7	1.38	83.46
63.0-64.0	103.2	10.1	644.8	1.33	84.79
64.0-65.0	98.5	9.7	654.5	1.28	86.07
65.0-66.0	94.0	9.4	663.9	1.23	87.31
66.0-67.0	89.3	9.0	672.9	1.18	88.49
67.0-68.0	84.5	8.6	681.5	1.13	89.62
68.0-69.0	79.7	8.1	689.6	1.07	90.68
69.0-70.0	74.9	7.7	697.3	1.01	91.70
70.0-71.0	70.3	7.3	704.6	0.96	92.65
71.0-72.0	65.6	6.8	711.4	0.90	93.55

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	60.9	6.4	717.8	0.84	94.39
73.0-74.0	56.3	5.9	723.7	0.78	95.17
74.0-75.0	51.7	5.5	729.1	0.72	95.88
75.0-76.0	47.2	5.0	734.1	0.66	96.54
76.0-77.0	42.6	4.5	738.7	0.60	97.14
77.0-78.0	38.1	4.1	742.8	0.54	97.68
78.0-79.0	33.8	3.6	746.4	0.48	98.15
79.0-80.0	29.5	3.2	749.6	0.42	98.57
80.0-81.0	25.3	2.7	752.3	0.36	98.93
81.0-82.0	21.3	2.3	754.6	0.30	99.24
82.0-83.0	17.3	1.9	756.5	0.25	99.48
83.0-84.0	13.6	1.5	758.0	0.19	99.68
84.0-85.0	9.8	1.1	759.1	0.14	99.82
85.0-86.0	6.3	0.7	759.7	0.09	99.91
86.0-87.0	3.5	0.4	760.1	0.05	99.96
87.0-88.0	1.7	0.2	760.3	0.02	99.98
88.0-89.0	0.8	0.1	760.4	0.01	99.99
89.0-90.0	0.4	0.0	760.4	0.01	100.00

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

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	255.3	254.5	255.8	255.6	254.8	256.0	255.3	254.5	255.8	255.6
G1.0	255.7	255.1	254.6	255.5	254.9	255.0	255.9	255.5	254.9	254.9
G2.0	255.2	253.9	255.2	254.6	254.7	255.3	254.9	255.3	254.4	254.9
G3.0	255.9	254.8	254.8	254.4	254.0	254.0	255.5	254.4	255.9	255.6
G4.0	255.6	253.9	254.7	254.7	254.4	254.8	255.1	254.4	254.9	256.1
G5.0	253.7	253.4	254.6	253.4	254.3	253.8	255.4	254.9	255.4	255.5
G6.0	254.1	253.4	254.3	252.8	253.4	254.4	254.0	254.6	255.1	255.2
G7.0	252.7	251.7	252.9	252.9	252.6	254.2	255.1	254.1	254.8	254.8
G8.0	252.7	252.6	252.2	252.3	252.1	254.0	254.1	253.4	254.6	254.5
G9.0	251.3	250.9	251.4	252.7	252.1	252.5	253.8	253.2	253.7	254.2
G10.0	251.6	251.2	251.5	251.3	251.0	252.5	252.9	253.9	253.8	252.2
G11.0	250.6	250.1	250.3	250.9	250.6	251.2	252.9	253.8	253.3	253.5
G12.0	249.8	249.4	249.1	249.6	249.8	250.8	253.5	252.9	252.6	250.8
G13.0	248.4	248.4	248.3	248.5	249.5	249.9	251.1	252.2	251.6	250.5
G14.0	248.1	247.0	248.0	247.2	247.8	249.2	250.5	251.2	251.1	250.9
G15.0	246.7	245.7	245.6	246.7	247.8	248.3	250.1	250.4	250.1	250.1
G16.0	245.9	245.6	244.8	245.5	246.9	247.6	248.8	249.4	249.9	250.5
G17.0	245.4	243.3	244.2	244.6	245.5	246.5	248.7	248.7	249.0	247.6
G18.0	244.2	242.0	243.2	243.1	243.0	244.9	247.8	248.7	247.6	246.6
G19.0	242.4	240.8	241.7	241.6	243.5	244.7	245.6	246.5	246.5	245.8
G20.0	241.2	239.5	239.5	240.3	241.6	243.2	244.8	245.4	245.1	244.5
G21.0	238.6	238.7	238.2	238.2	240.2	241.4	243.4	244.5	244.2	244.2
G22.0	237.8	236.5	237.2	237.4	238.6	240.5	242.9	244.2	241.5	241.5
G23.0	235.4	235.1	234.2	235.6	236.8	238.6	240.9	241.1	241.4	240.0
G24.0	233.5	233.5	233.0	233.3	236.1	237.4	239.1	240.5	240.4	239.2
G25.0	232.6	231.2	231.5	232.0	234.4	235.9	237.8	238.9	238.7	238.4
G26.0	230.6	229.3	230.5	229.9	232.4	234.3	235.4	238.1	236.6	235.9
G27.0	228.6	226.3	226.6	227.8	229.8	232.0	234.0	235.4	235.3	233.9
G28.0	225.8	225.1	225.1	226.6	227.3	230.1	233.1	233.1	233.4	232.4
G29.0	223.9	223.3	223.0	223.4	226.5	228.6	230.4	232.0	232.6	231.3
G30.0	222.2	220.1	220.5	221.2	224.4	226.0	228.3	230.8	229.6	229.3
G31.0	218.9	218.7	218.6	219.9	221.0	224.8	226.0	227.1	227.6	226.4
G32.0	216.9	215.7	215.5	216.7	218.8	221.4	225.1	224.8	225.8	223.1
G33.0	213.7	212.8	212.6	214.4	217.1	219.2	222.8	223.1	223.6	221.1
G34.0	211.8	210.4	210.1	211.8	214.7	216.9	220.3	221.1	220.1	219.1
G35.0	208.6	207.6	207.1	209.1	210.9	214.4	217.3	218.6	218.7	217.2
G36.0	205.2	203.9	205.1	205.6	209.3	212.3	215.3	215.4	215.9	214.1

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	203.1	201.9	202.1	203.6	206.7	208.8	212.9	214.5	213.1	211.7
G38.0	200.0	198.3	198.3	200.0	203.1	206.3	209.2	211.3	209.9	208.9
G39.0	195.8	194.7	195.2	197.6	200.2	203.9	206.7	208.4	207.5	205.8
G40.0	192.6	191.9	192.1	193.3	196.8	200.7	204.0	205.2	204.6	202.0
G41.0	189.8	188.5	189.0	190.2	194.0	198.1	201.0	202.3	201.7	199.6
G42.0	186.3	183.8	185.9	187.6	190.4	194.4	196.8	199.0	198.5	196.8
G43.0	181.9	181.4	182.0	182.9	187.0	190.9	194.1	196.2	195.2	193.5
G44.0	178.9	177.8	179.0	179.1	183.1	187.1	191.6	192.7	192.2	189.7
G45.0	176.0	173.7	175.3	176.4	180.4	184.0	187.6	188.8	188.8	186.3
G46.0	171.4	170.0	171.2	172.5	176.7	180.0	184.3	185.8	184.6	182.9
G47.0	167.8	166.5	167.2	169.4	173.7	177.3	180.6	182.3	182.1	179.7
G48.0	162.9	162.1	163.2	164.1	169.2	173.1	177.0	178.6	177.9	175.4
G49.0	159.3	157.9	158.9	160.5	164.8	169.3	173.4	175.1	174.2	170.8
G50.0	154.9	154.3	154.9	156.8	161.1	165.3	168.9	171.9	170.2	167.6
G51.0	151.2	149.5	150.5	152.8	157.2	160.6	165.8	166.8	166.2	163.6
G52.0	146.7	145.8	146.5	148.9	152.4	157.5	161.6	163.7	162.8	160.2
G53.0	142.5	141.3	142.4	144.1	148.9	152.7	156.7	159.9	158.4	155.5
G54.0	137.7	136.9	137.8	139.6	144.1	148.4	153.6	155.9	154.3	150.4
G55.0	133.8	132.6	133.9	135.8	140.5	144.9	149.1	150.9	150.4	147.1
G56.0	128.8	128.2	129.2	130.8	135.7	140.1	144.3	147.0	145.4	142.4
G57.0	124.4	123.4	124.7	126.9	131.3	136.1	140.7	142.7	141.6	138.3
G58.0	120.2	119.6	120.1	122.3	127.3	131.8	136.7	139.0	137.9	134.2
G59.0	114.9	114.6	115.7	117.6	122.1	127.3	131.6	134.2	132.6	128.6
G60.0	110.8	109.8	110.9	114.0	118.0	122.2	127.8	129.7	128.6	125.0
G61.0	106.1	105.0	106.7	108.1	113.6	117.4	122.3	125.4	123.7	120.8
G62.0	101.0	100.2	101.9	104.1	108.7	113.4	118.2	120.8	119.2	116.1
G63.0	97.0	95.9	97.8	99.8	104.3	109.0	114.2	115.9	114.7	111.5
G64.0	92.1	91.3	92.1	94.9	99.0	104.4	109.4	111.4	109.8	106.3
G65.0	87.2	86.7	88.3	90.2	95.1	99.5	104.8	106.9	105.8	101.9
G66.0	82.8	82.3	83.4	85.9	90.1	95.0	100.1	102.6	100.8	97.3
G67.0	78.2	77.3	78.8	81.1	85.8	90.0	95.2	97.6	96.4	92.2
G68.0	73.5	72.8	74.3	76.6	80.7	85.2	90.7	93.1	91.9	87.9
G69.0	68.6	67.8	69.2	71.5	75.3	80.2	85.6	88.3	87.2	82.9
G70.0	64.2	63.7	65.4	67.5	70.4	75.5	81.5	83.6	82.2	78.5
G71.0	59.8	59.4	60.7	62.8	65.9	70.6	77.0	79.2	77.9	73.8
G72.0	55.2	54.8	56.2	58.3	60.8	65.6	72.0	74.5	73.1	69.2
G73.0	50.8	50.3	52.2	54.3	55.6	60.5	67.8	69.9	68.9	64.6

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	46.5	46.2	47.4	49.6	51.0	55.5	62.8	65.7	63.8	60.1
G75.0	42.1	41.9	43.0	45.4	45.6	50.5	58.8	60.6	59.5	55.3
G76.0	38.3	37.9	39.2	41.2	41.0	46.1	54.2	56.6	54.9	50.5
G77.0	34.0	33.5	34.7	37.0	36.2	40.8	49.6	52.0	50.3	45.4
G78.0	30.0	29.6	30.8	33.3	31.6	36.5	45.3	47.6	45.5	40.5
G79.0	26.2	26.0	27.2	29.4	27.5	32.1	41.1	43.4	40.9	35.9
G80.0	22.4	22.0	23.3	25.5	22.9	27.5	36.7	39.0	35.9	30.6
G81.0	18.9	18.4	19.7	21.6	19.3	23.4	32.7	34.7	31.3	25.8
G82.0	15.0	14.7	16.2	18.0	15.9	19.2	27.9	30.3	26.0	20.9
G83.0	10.9	11.3	12.4	14.5	13.1	15.7	23.5	25.3	21.5	15.9
G84.0	6.8	7.8	9.1	11.0	10.9	12.7	19.1	20.7	16.6	11.3
G85.0	2.8	4.0	5.3	6.8	8.2	9.8	14.3	15.6	11.7	6.4
G86.0	0.4	1.2	2.1	3.0	5.6	7.3	10.0	11.2	7.4	2.4
G87.0	0.3	0.3	0.4	0.4	2.6	4.9	6.0	6.8	3.8	0.3
G88.0	0.3	0.2	0.3	0.3	0.6	2.2	2.3	2.9	1.6	0.3
G89.0	0.3	0.3	0.3	0.3	0.3	0.8	0.3	1.6	1.0	0.3
G90.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	0.5	0.3

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	254.8	256.0	255.3						
G1.0	256.3	255.2	255.7						
G2.0	255.3	256.0	255.2						
G3.0	255.3	255.5	255.9						
G4.0	256.2	254.7	255.6						
G5.0	255.4	254.4	253.7						
G6.0	254.3	253.7	254.1						
G7.0	253.2	252.4	252.7						
G8.0	254.8	253.2	252.7						
G9.0	252.2	252.2	251.3						
G10.0	252.4	252.8	251.6						
G11.0	252.4	251.2	250.6						
G12.0	251.1	251.1	249.8						
G13.0	250.6	250.3	248.4						
G14.0	249.3	248.9	248.1						
G15.0	248.6	248.7	246.7						
G16.0	248.4	247.1	245.9						
G17.0	247.4	246.6	245.4						
G18.0	246.1	244.3	244.2						
G19.0	244.5	243.4	242.4						
G20.0	244.0	242.3	241.2						
G21.0	241.9	240.7	238.6						
G22.0	240.7	239.0	237.8						
G23.0	238.9	237.9	235.4						
G24.0	237.8	236.7	233.5						
G25.0	235.8	234.6	232.6						
G26.0	234.1	232.0	230.6						
G27.0	232.6	231.0	228.6						
G28.0	230.6	228.9	225.8						
G29.0	228.1	227.1	223.9						
G30.0	226.3	224.3	222.2						
G31.0	224.1	222.4	218.9						
G32.0	221.5	220.1	216.9						
G33.0	219.0	217.6	213.7						
G34.0	217.5	214.6	211.8						
G35.0	215.0	211.8	208.6						
G36.0	211.9	209.0	205.2						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	208.1	206.0	203.1						
G38.0	206.2	203.6	200.0						
G39.0	202.6	200.1	195.8						
G40.0	199.8	196.4	192.6						
G41.0	197.5	193.0	189.8						
G42.0	193.3	190.6	186.3						
G43.0	189.4	186.4	181.9						
G44.0	186.5	182.9	178.9						
G45.0	182.7	179.6	176.0						
G46.0	178.8	175.3	171.4						
G47.0	175.8	171.6	167.8						
G48.0	171.6	167.6	162.9						
G49.0	167.8	163.6	159.3						
G50.0	163.7	159.7	154.9						
G51.0	159.3	154.9	151.2						
G52.0	155.3	151.7	146.7						
G53.0	150.7	147.2	142.5						
G54.0	146.2	142.5	137.7						
G55.0	142.9	138.5	133.8						
G56.0	137.8	133.8	128.8						
G57.0	133.8	129.3	124.4						
G58.0	129.3	124.6	120.2						
G59.0	124.4	120.3	114.9						
G60.0	120.1	115.8	110.8						
G61.0	115.3	111.1	106.1						
G62.0	110.7	106.3	101.0						
G63.0	105.8	101.6	97.0						
G64.0	101.1	96.9	92.1						
G65.0	96.4	92.1	87.2						
G66.0	92.3	87.8	82.8						
G67.0	87.1	82.8	78.2						
G68.0	82.1	77.7	73.5						
G69.0	77.0	71.9	68.6						
G70.0	72.0	67.4	64.2						
G71.0	67.0	62.4	59.8						
G72.0	61.7	57.1	55.2						
G73.0	57.1	52.0	50.8						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G74.0	51.7	47.5	46.5						
G75.0	46.9	42.4	42.1						
G76.0	42.0	37.6	38.3						
G77.0	36.5	33.0	34.0						
G78.0	31.8	28.5	30.0						
G79.0	26.8	24.2	26.2						
G80.0	21.8	19.9	22.4						
G81.0	17.4	16.4	18.9						
G82.0	12.7	13.7	15.0						
G83.0	9.8	10.8	10.9						
G84.0	7.2	8.0	6.8						
G85.0	4.7	5.0	2.8						
G86.0	3.0	2.3	0.4						
G87.0	1.7	0.8	0.3						
G88.0	0.8	0.3	0.3						
G89.0	0.3	0.3	0.3						
G90.0	0.3	0.3	0.3						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector: