

Report No.:

Test Time: 2020-09-28 11:14

## Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-GB-4D9CC-BZ 4000K

Voltage: 120.3 V

Current: 0.079 A

Power: 9.22 W

Power Factor: 0.970

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 743.1 lm

Measurement Flux: 743.1 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.6, 161.3, 161.1, 160.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.7, 108.2, 108.0, 108.0

Luminaire Efficacy Rating (LER): 80.65

Central Intensity: 271.96 cd

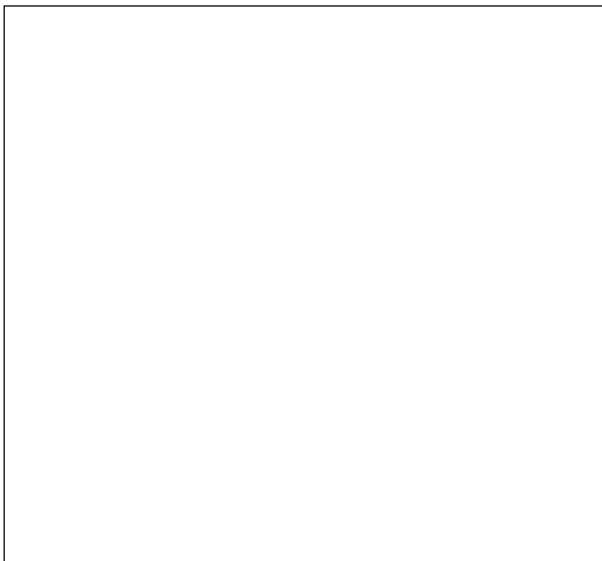
Max. Intensity: 274.09 cd

Pos of Max. Intensity: H210 V5

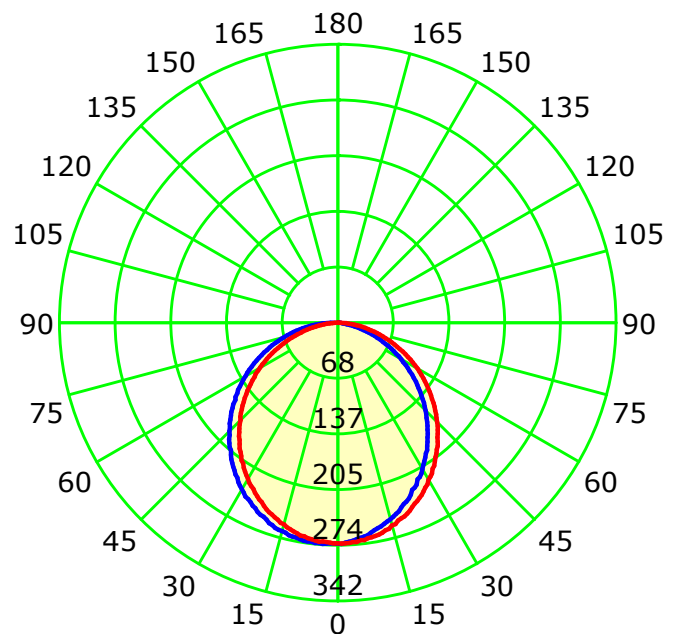
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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

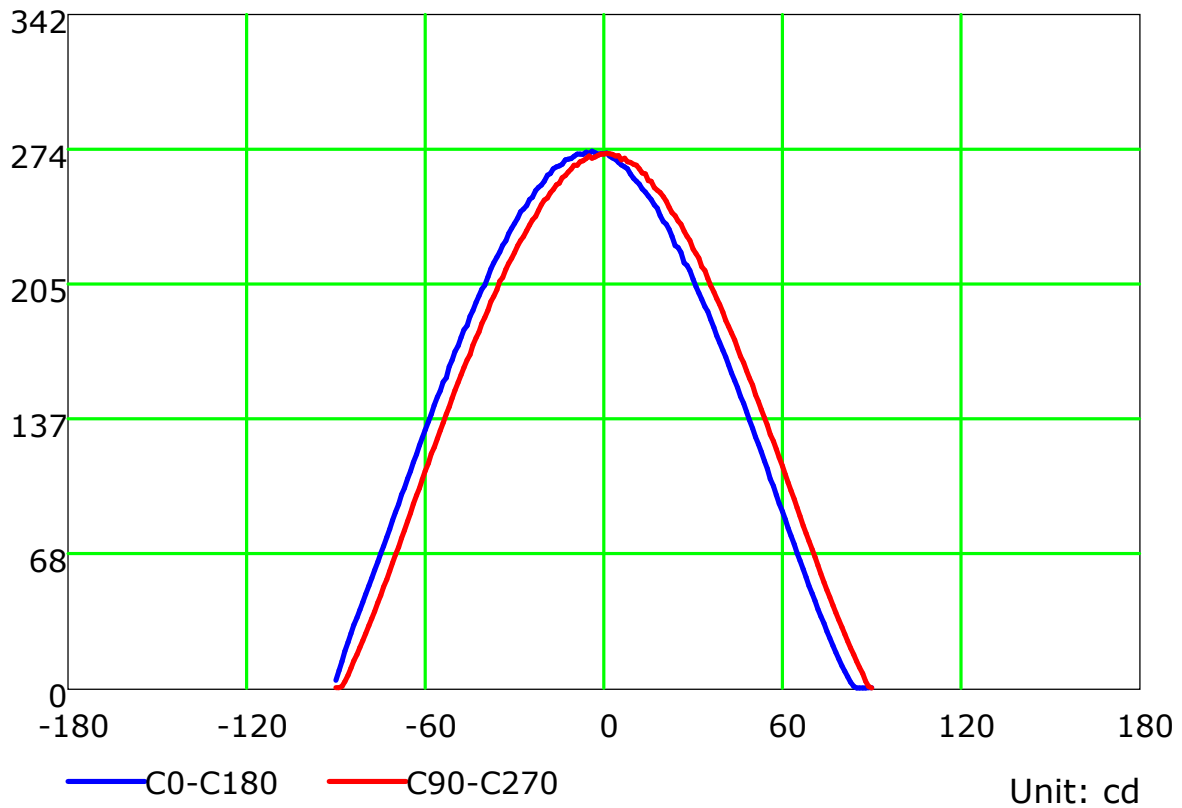
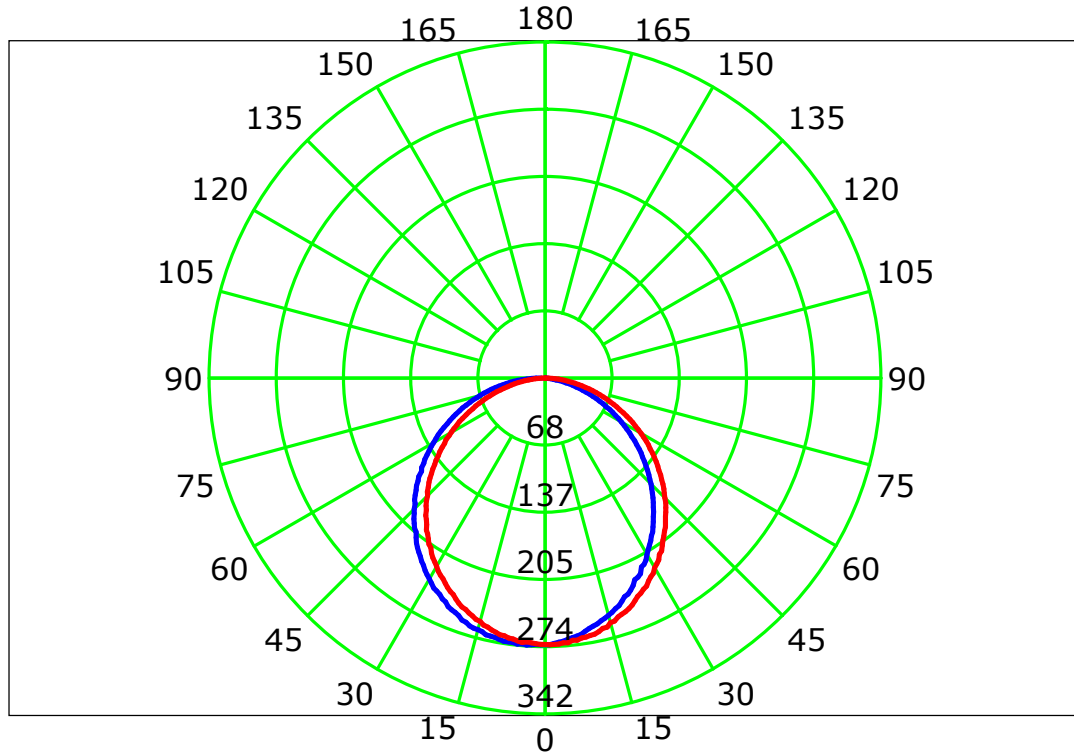
Temperature:

Humidity:

Operator:

Inspector:

## Luminous Intensity Distribution Curve

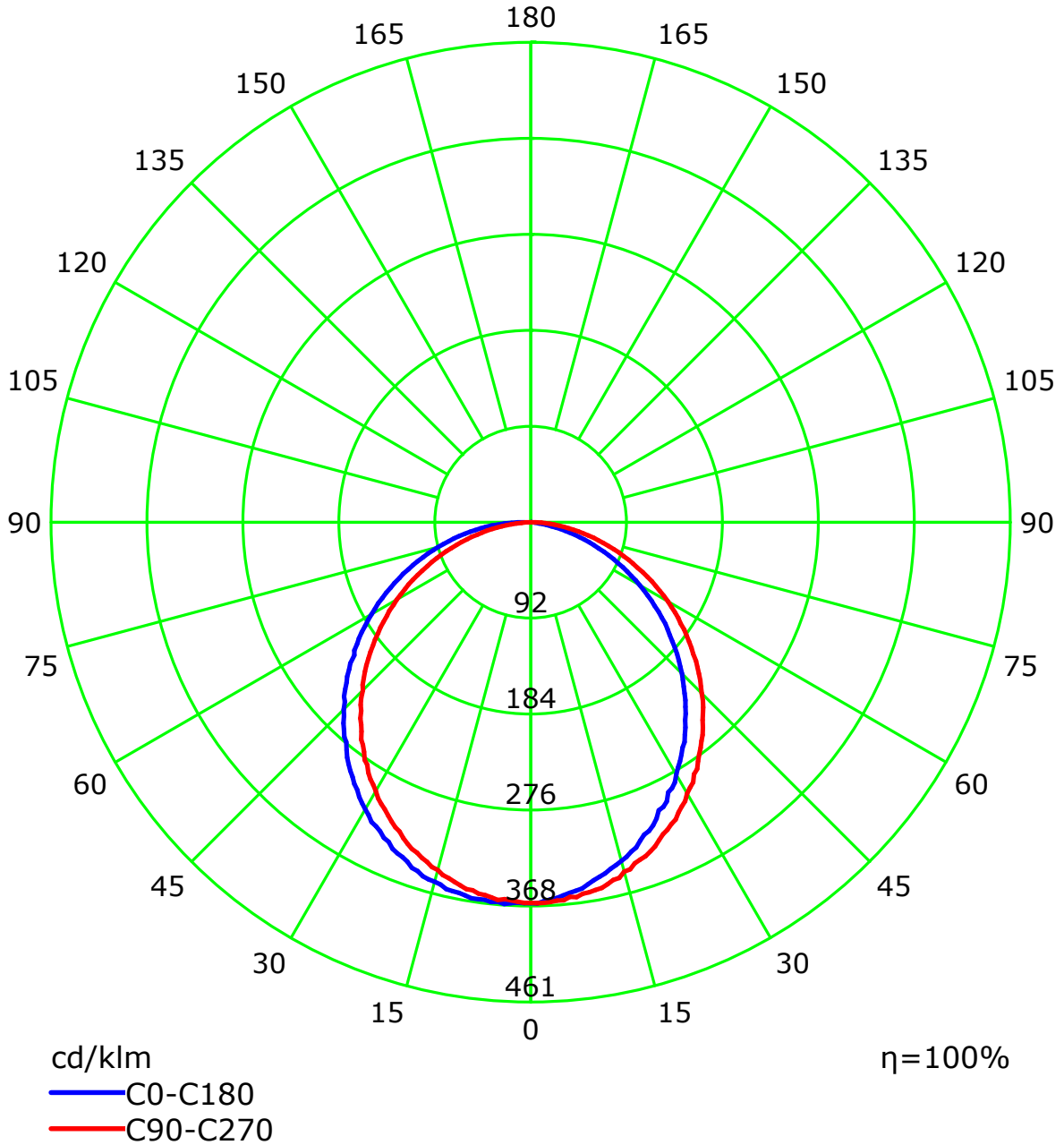


C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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

Unit: cd

## 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

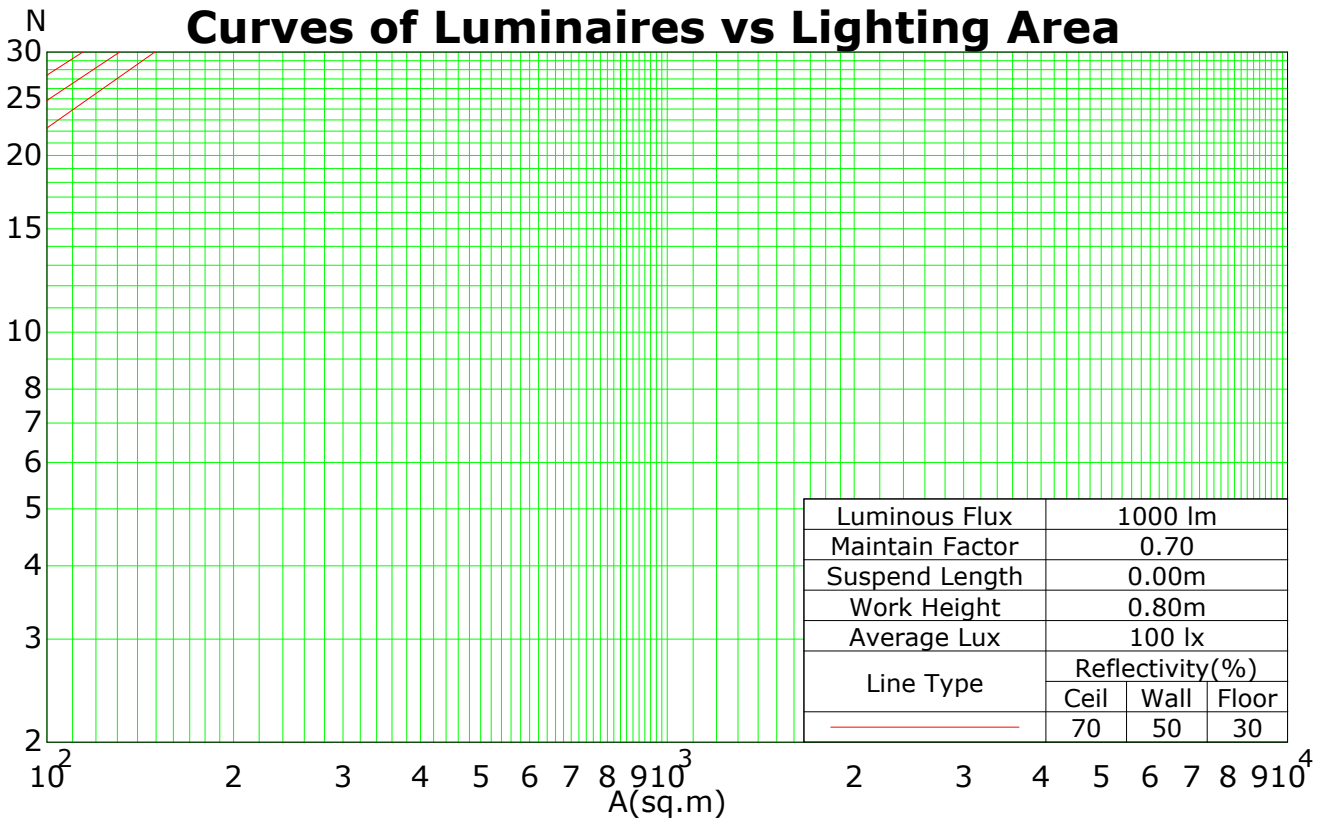
Humidity:

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	97	94	91	93	91	88	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	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

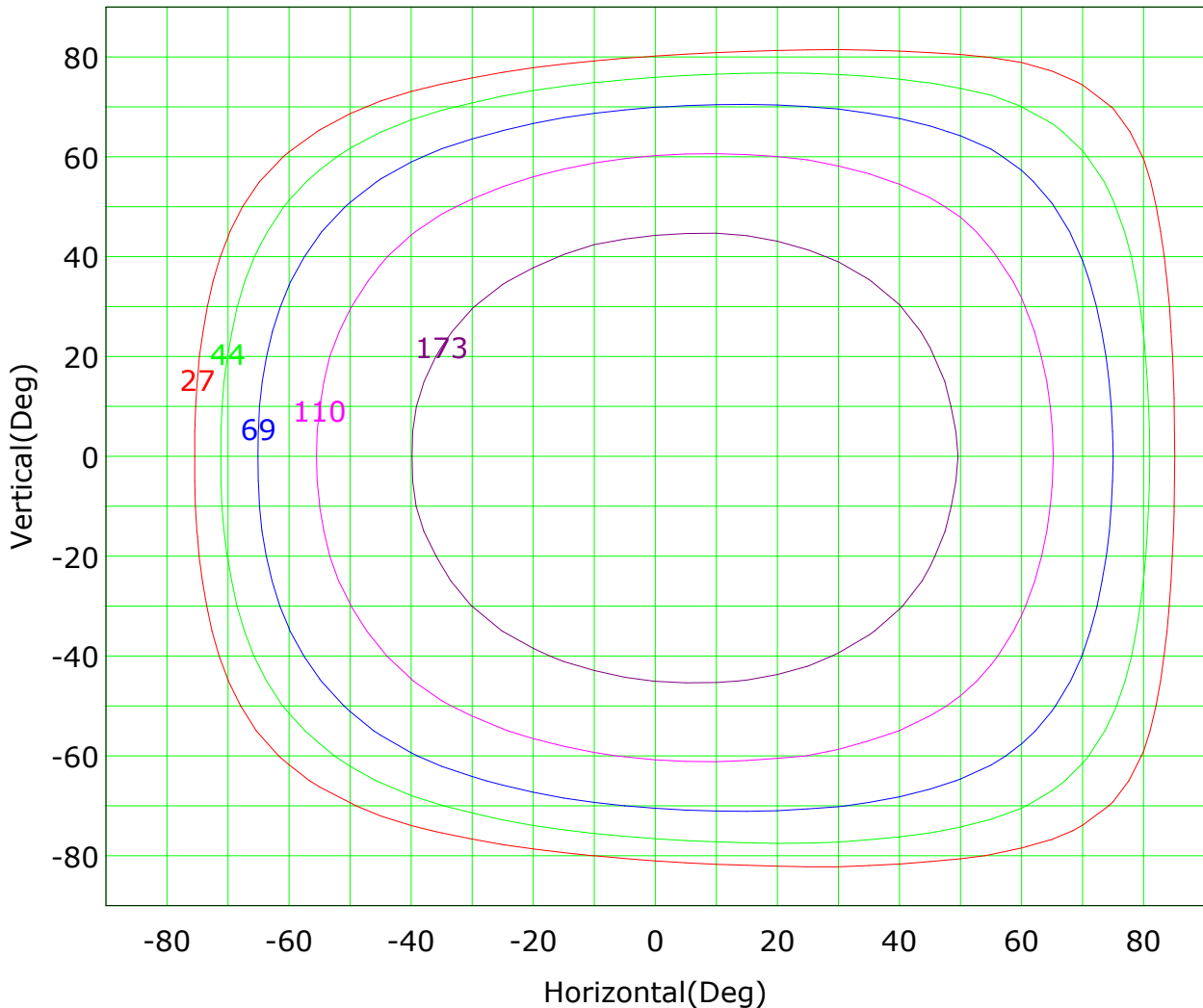
Spacing Criteria (0-180): 1.22  
 Spacing Criteria (90-270): 1.22  
 Spacing Criteria (Diagonal): 1.34



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%): 274 cd

— ( 10%):	27 cd	— ( 16%):	44 cd
— ( 25%):	69 cd	— ( 40%):	110 cd
— ( 63%):	173 cd	— (100%):	274 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

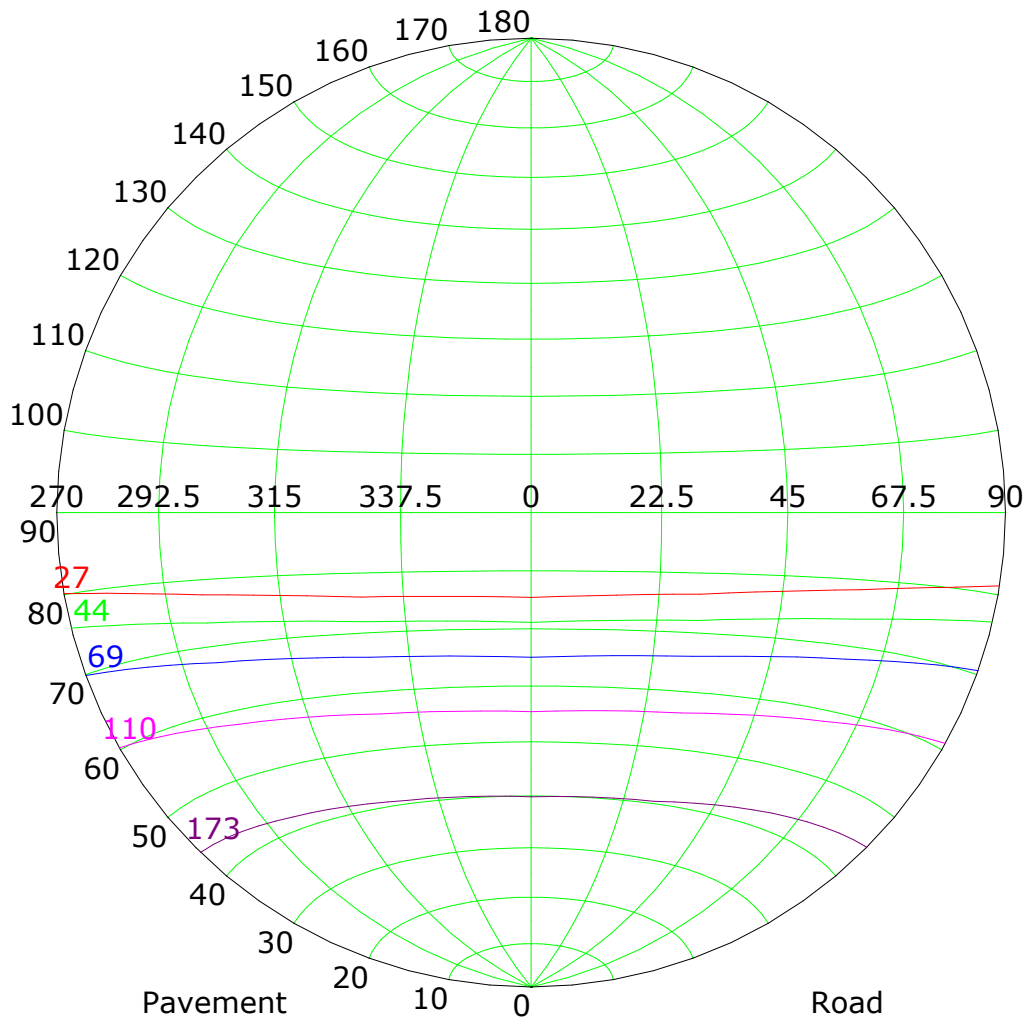
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 274 cd

— ( 10%):	27 cd	— ( 16%):	44 cd
— ( 25%):	69 cd	— ( 40%):	110 cd
— ( 63%):	173 cd	— (100%):	274 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

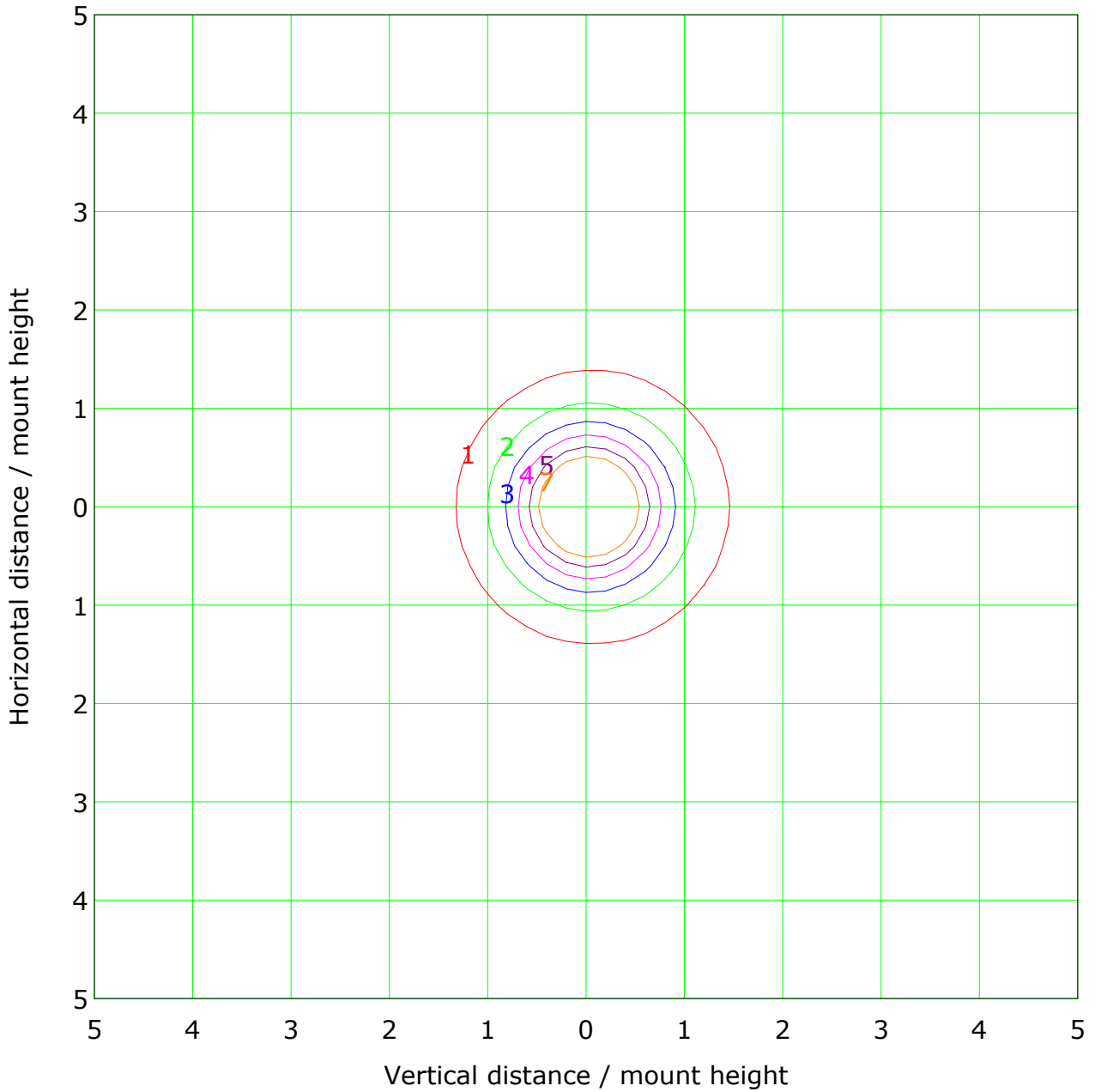
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 10.9 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 10%): 1.1 lx</li> <li><span style="color: blue;">—</span> ( 30%): 3.3 lx</li> <li><span style="color: purple;">—</span> ( 50%): 5.4 lx</li> <li><span style="color: green;">—</span> (100%): 10.9 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: lightgreen;">—</span> ( 20%): 2.2 lx</li> <li><span style="color: magenta;">—</span> ( 40%): 4.4 lx</li> <li><span style="color: orange;">—</span> ( 60%): 6.5 lx</li> </ul>		

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

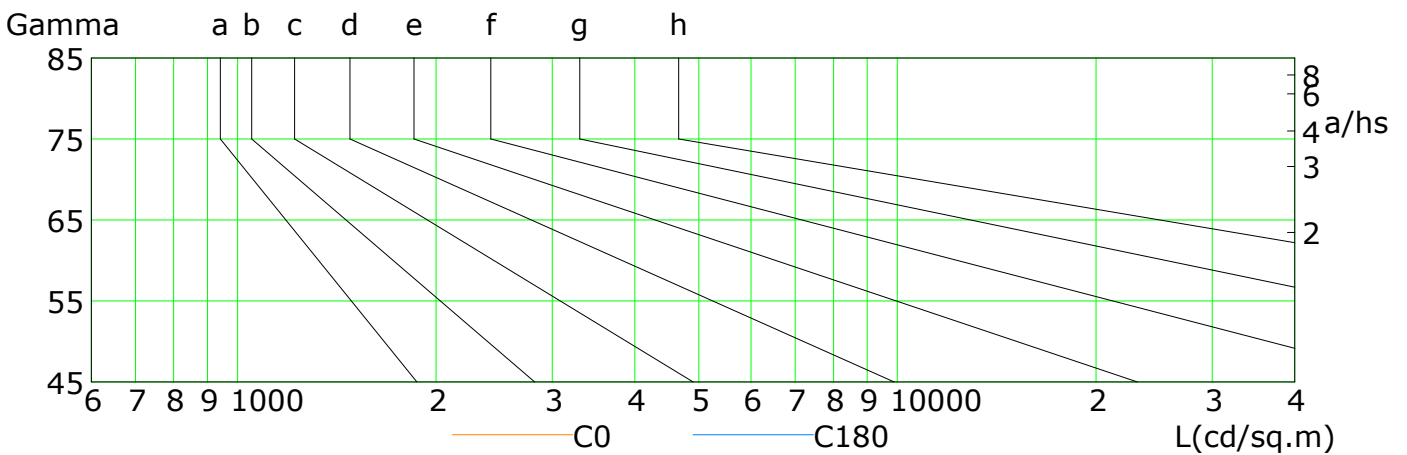
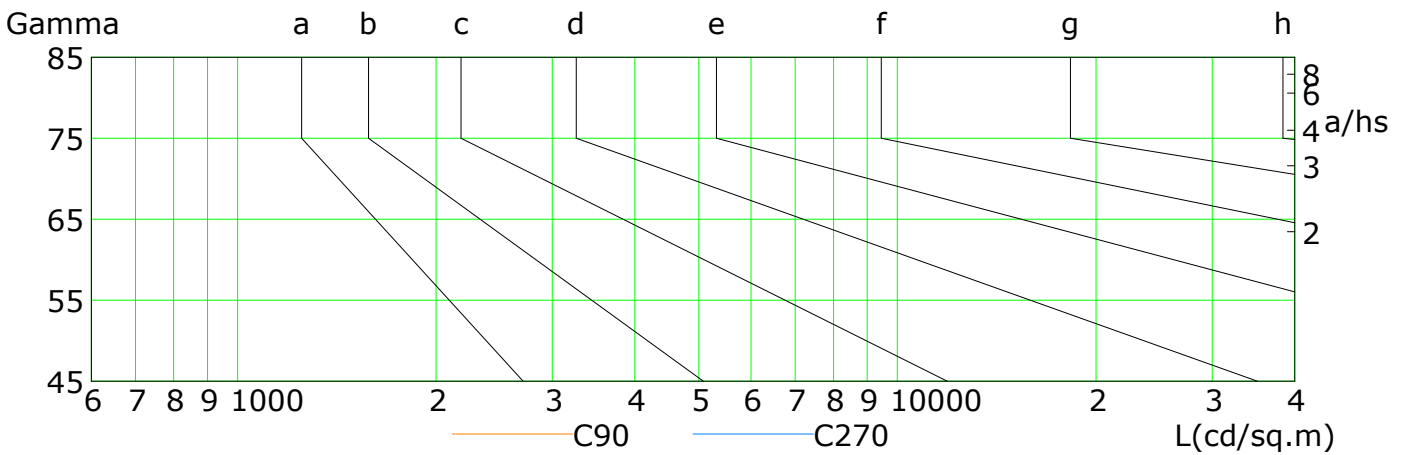
Humidity:

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	153	132	112	90	69	48	29	12	0
C90	173	154	134	113	92	71	50	31	14
C180	189	171	151	131	111	90	69	48	28
C270	170	152	131	111	89	68	47	28	10

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

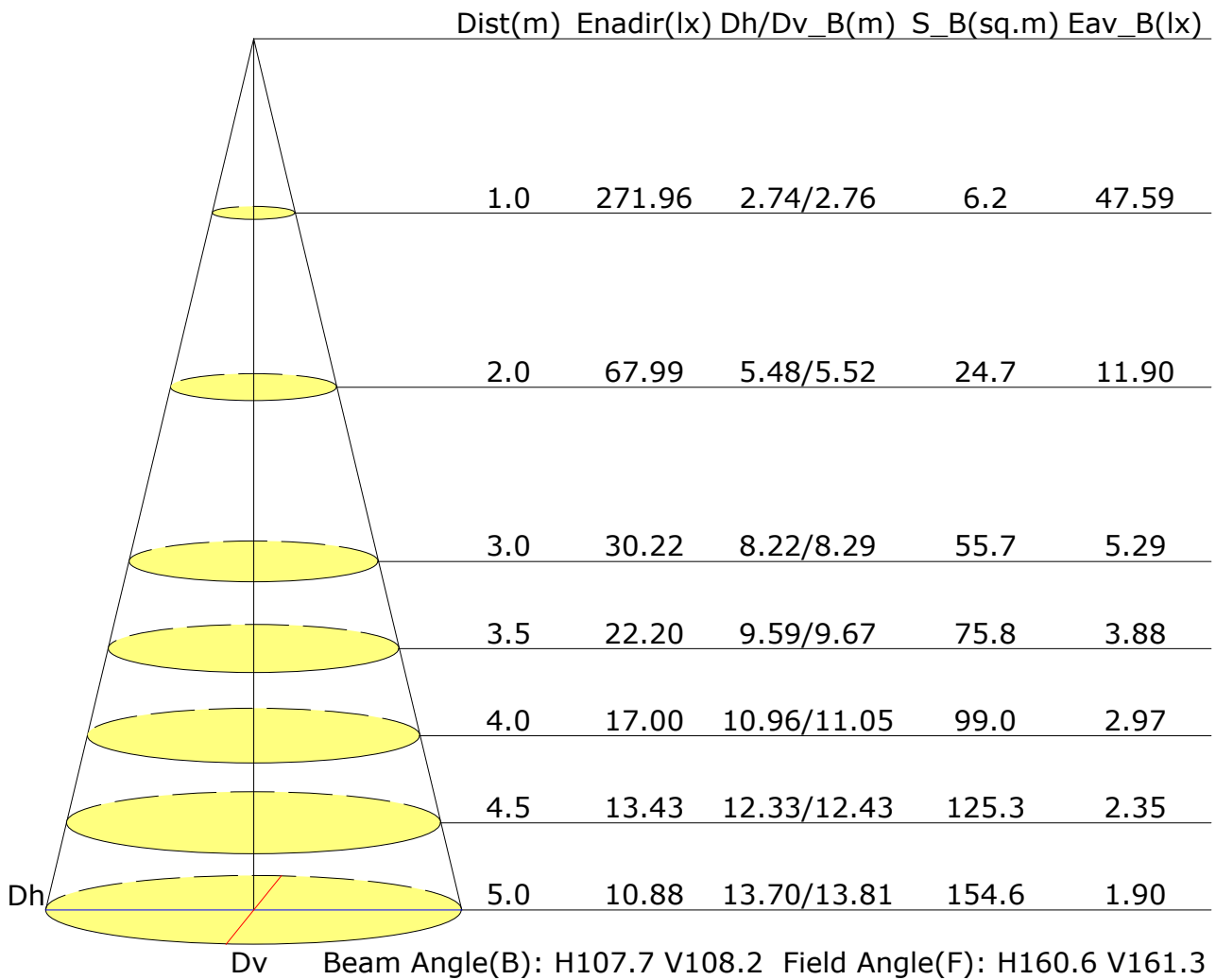
Distance: 6.935 m

Humidity:

Inspector:



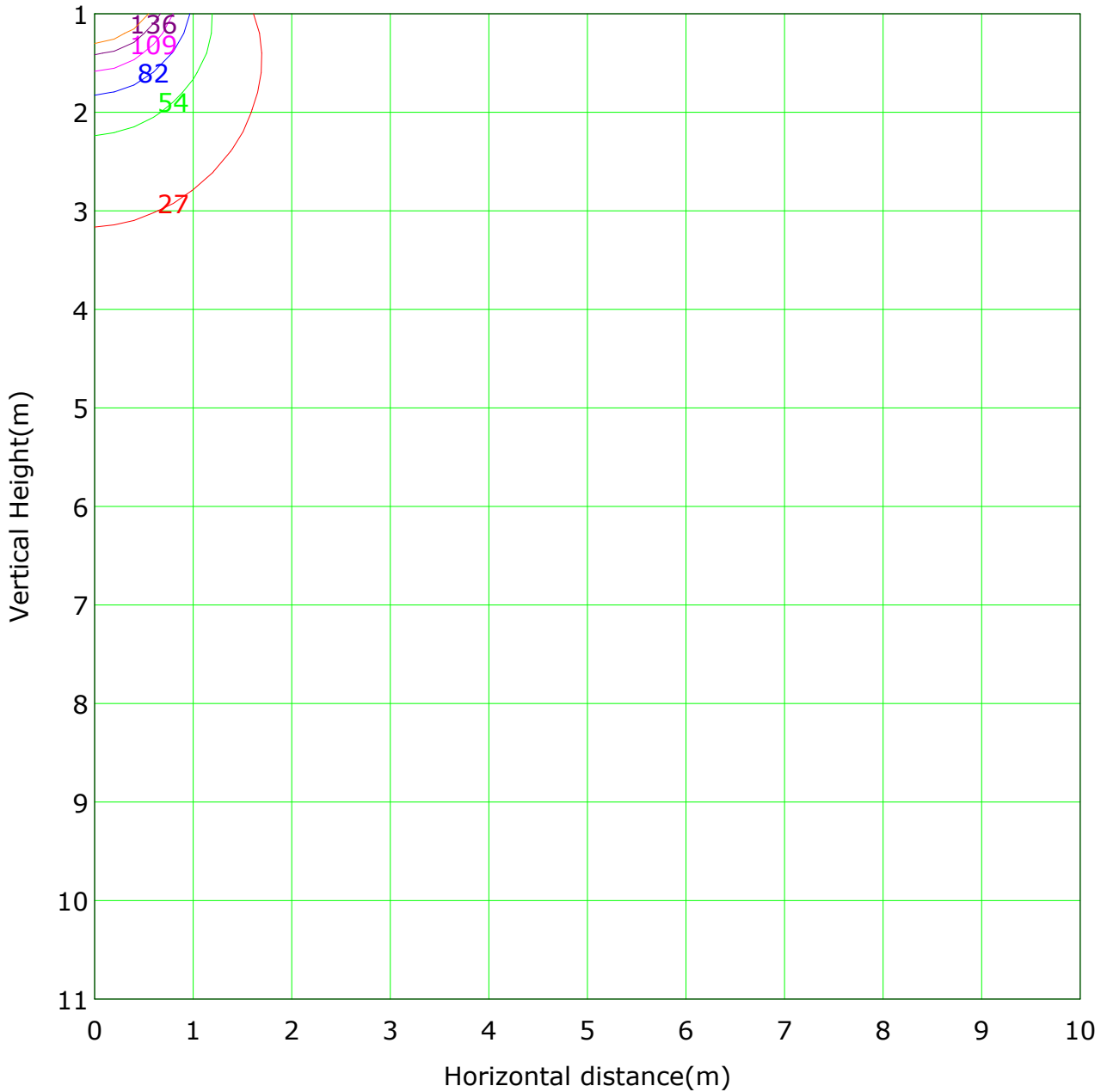
## Illuminance at a Distance



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: 272.0 lx
( 10%): 27.2 lx	( 20%): 54.4 lx	
( 30%): 81.6 lx	( 40%): 108.8 lx	
( 50%): 136.0 lx	( 60%): 163.2 lx	
(100%): 272.0 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	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.4	0.3
-80	0.0	0.2	0.4	0.7	0.9	1.2	1.4	1.5	1.5	1.4	1.2	0.9	0.7	0.4	0.2	0.0	0.0	0.0	12.5	11.1
-70	0.0	0.3	0.6	1.1	1.5	2.0	2.4	2.7	2.7	2.6	2.3	1.9	1.4	0.9	0.5	0.2	0.0	0.0	23.3	22.8
-60	0.1	0.3	0.8	1.4	2.2	2.9	3.5	3.9	4.0	3.9	3.5	2.9	2.2	1.5	0.9	0.4	0.1	0.0	34.3	34.1
-50	0.1	0.4	1.0	1.8	2.7	3.6	4.4	5.0	5.2	5.1	4.6	3.9	3.0	2.0	1.2	0.5	0.1	0.0	44.6	44.5
-40	0.1	0.5	1.2	2.1	3.2	4.3	5.3	6.0	6.3	6.1	5.6	4.7	3.6	2.5	1.5	0.7	0.2	0.0	53.8	53.7
-30	0.1	0.5	1.3	2.4	3.6	4.9	6.0	6.8	7.2	7.0	6.4	5.4	4.2	2.9	1.7	0.8	0.2	0.0	61.3	61.2
-20	0.1	0.5	1.4	2.5	3.9	5.3	6.5	7.4	7.8	7.7	7.0	5.9	4.5	3.2	1.9	0.9	0.2	0.0	66.7	66.6
-10	0.1	0.6	1.4	2.6	4.0	5.5	6.8	7.7	8.2	8.0	7.3	6.1	4.7	3.3	1.9	0.9	0.2	0.0	69.5	69.5
0	0.1	0.6	1.4	2.6	4.0	5.5	6.8	7.8	8.2	8.0	7.3	6.1	4.7	3.3	2.0	0.9	0.2	0.0	69.6	69.5
10	0.1	0.5	1.4	2.5	3.9	5.3	6.5	7.5	7.9	7.7	7.0	5.9	4.6	3.2	1.9	0.9	0.2	0.0	66.9	66.9
20	0.1	0.5	1.3	2.4	3.6	4.9	6.0	6.9	7.2	7.1	6.5	5.4	4.2	2.9	1.7	0.8	0.2	0.0	61.7	61.6
30	0.1	0.5	1.2	2.1	3.2	4.4	5.3	6.0	6.3	6.2	5.6	4.8	3.7	2.5	1.5	0.7	0.2	0.0	54.3	54.1
40	0.1	0.4	1.0	1.8	2.7	3.7	4.5	5.0	5.3	5.1	4.7	3.9	3.0	2.1	1.2	0.5	0.1	0.0	45.2	45.0
50	0.1	0.3	0.8	1.5	2.2	2.9	3.5	3.9	4.1	4.0	3.6	3.0	2.3	1.5	0.9	0.4	0.1	0.0	34.9	34.7
60	0.0	0.3	0.6	1.1	1.6	2.1	2.5	2.7	2.8	2.7	2.4	2.0	1.5	1.0	0.5	0.2	0.0	0.0	24.0	23.5
70	0.0	0.2	0.4	0.7	1.0	1.2	1.5	1.6	1.6	1.5	1.3	1.0	0.7	0.4	0.2	0.1	0.0	0.0	13.2	11.9
80	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	3.9	0.8
Flux(T)	1.1	6.6	16.5	29.9	45.2	60.5	73.9	83.2	87.1	84.8	76.8	64.2	49.2	33.6	19.5	8.7	2.2	0.1	743	
Flux(E)	0.7	6.1	15.9	29.3	44.6	59.9	73.2	82.6	86.4	84.2	76.1	63.6	48.5	32.9	18.8	7.9	1.1	0.0		732
	-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

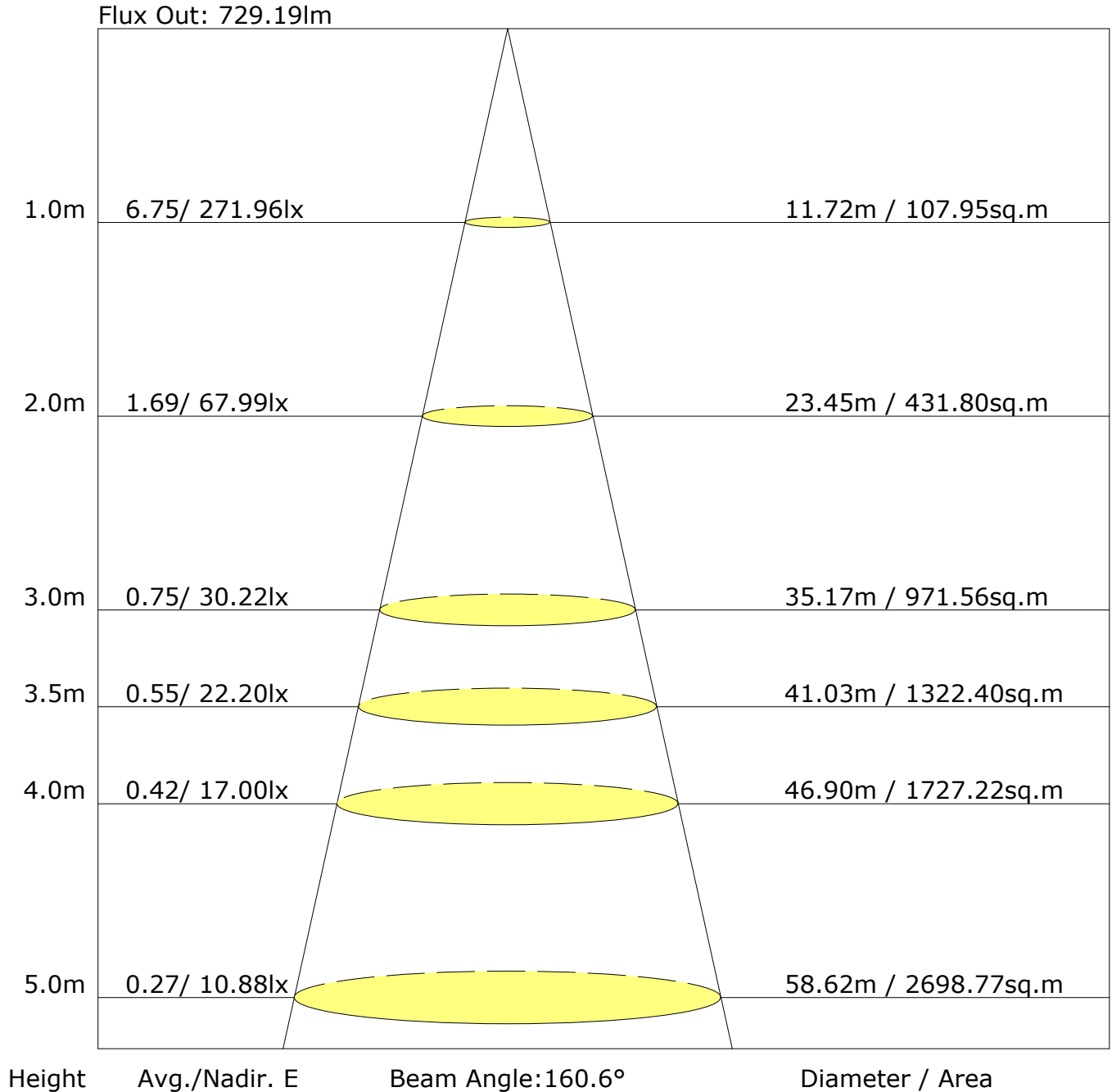
Test Lab:

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	-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.\$
Variations with the observer position at spacings:										
S=1.0H										-1.\$/-1.\$
S=1.5H										-1.\$/-1.\$
S=2.0H										-1.\$/-1.\$

Calculate in accordance with CIE Pub.117. The table is revised with  $743lm$  ( $8\log(F/F_0) = -1.0$ ).

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	374	50.3
	FL ( 0°-30°)	104	14.0
	FM (30°-60°)	191	25.7
	FH (60°-80°)	71	9.6
	FVH (80°-90°)	8	1.1
	BACK LIGHT	369	49.7
	BL ( 0°-30°)	104	13.9
	BM (30°-60°)	189	25.4
	BH (60°-80°)	70	9.4
	BVH (80°-90°)	7	1.0
	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:



## 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	0.57	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.49	0.60	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.43	0.54	0.61	0.67	0.76	0.82	0.86	0.93	0.97
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.48	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.43	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95
	0.30		0.48	0.57	0.64	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.91
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86
<p>Rating:9W 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 = 1.25									
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	0.99	0.82	0.70	0.61	0.49	0.40	0.35	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.47	0.42	0.33	0.26	0.21	
	0.30		0.81	0.69	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.70	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
<p>Rating:9W 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(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	0.16	0.18	0.18	0.19	0.20	0.21	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	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	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	0.18	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:9W 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:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	271.4	0.3	0.3	0.03	0.03
1.0-2.0	271.3	0.8	1.0	0.10	0.14
2.0-3.0	271.0	1.3	2.3	0.17	0.31
3.0-4.0	270.7	1.8	4.1	0.24	0.56
4.0-5.0	270.4	2.3	6.5	0.31	0.87
5.0-6.0	269.8	2.8	9.3	0.38	1.25
6.0-7.0	269.0	3.3	12.6	0.45	1.70
7.0-8.0	268.1	3.8	16.5	0.52	2.22
8.0-9.0	267.3	4.3	20.8	0.58	2.80
9.0-10.0	266.2	4.8	25.6	0.65	3.45
10.0-11.0	264.9	5.3	30.9	0.71	4.16
11.0-12.0	263.9	5.8	36.7	0.78	4.94
12.0-13.0	262.4	6.2	42.9	0.84	5.78
13.0-14.0	260.8	6.7	49.6	0.90	6.68
14.0-15.0	259.3	7.1	56.7	0.96	7.63
15.0-16.0	257.7	7.6	64.3	1.02	8.65
16.0-17.0	255.9	8.0	72.2	1.07	9.72
17.0-18.0	254.0	8.4	80.6	1.13	10.85
18.0-19.0	251.9	8.8	89.4	1.18	12.03
19.0-20.0	249.8	9.1	98.5	1.23	13.26
20.0-21.0	247.7	9.5	108.0	1.28	14.54
21.0-22.0	245.4	9.9	117.9	1.33	15.87
22.0-23.0	242.9	10.2	128.1	1.37	17.24
23.0-24.0	240.4	10.5	138.6	1.41	18.65
24.0-25.0	237.8	10.8	149.4	1.46	20.11
25.0-26.0	235.5	11.1	160.5	1.50	21.60
26.0-27.0	232.7	11.4	171.9	1.53	23.14
27.0-28.0	230.0	11.6	183.6	1.57	24.70
28.0-29.0	227.3	11.9	195.5	1.60	26.30
29.0-30.0	224.4	12.1	207.6	1.63	27.93
30.0-31.0	221.2	12.3	219.9	1.66	29.59
31.0-32.0	218.2	12.5	232.4	1.68	31.27
32.0-33.0	215.1	12.7	245.1	1.71	32.98
33.0-34.0	212.0	12.8	257.9	1.73	34.71
34.0-35.0	208.7	13.0	270.9	1.74	36.45
35.0-36.0	205.4	13.1	284.0	1.76	38.21

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	202.1	13.2	297.1	1.77	39.98
37.0-38.0	198.5	13.3	310.4	1.78	41.77
38.0-39.0	195.1	13.3	323.7	1.79	43.56
39.0-40.0	191.5	13.4	337.1	1.80	45.36
40.0-41.0	187.9	13.4	350.4	1.80	47.16
41.0-42.0	184.4	13.4	363.8	1.80	48.96
42.0-43.0	180.8	13.4	377.2	1.80	50.76
43.0-44.0	177.1	13.4	390.6	1.80	52.56
44.0-45.0	173.3	13.3	403.9	1.79	54.35
45.0-46.0	169.5	13.3	417.2	1.78	56.14
46.0-47.0	165.9	13.2	430.4	1.78	57.91
47.0-48.0	162.0	13.1	443.5	1.76	59.68
48.0-49.0	158.0	13.0	456.5	1.75	61.42
49.0-50.0	154.2	12.9	469.3	1.73	63.15
50.0-51.0	150.2	12.7	482.0	1.71	64.86
51.0-52.0	146.1	12.5	494.6	1.69	66.55
52.0-53.0	142.3	12.4	506.9	1.67	68.22
53.0-54.0	138.1	12.2	519.1	1.64	69.85
54.0-55.0	134.0	12.0	531.1	1.61	71.46
55.0-56.0	129.9	11.7	542.8	1.58	73.04
56.0-57.0	125.8	11.5	554.3	1.55	74.59
57.0-58.0	121.9	11.3	565.6	1.52	76.11
58.0-59.0	117.6	11.0	576.6	1.48	77.59
59.0-60.0	113.3	10.7	587.3	1.44	79.03
60.0-61.0	109.2	10.4	597.7	1.40	80.43
61.0-62.0	104.9	10.1	607.8	1.36	81.79
62.0-63.0	100.8	9.8	617.6	1.32	83.11
63.0-64.0	96.7	9.5	627.1	1.28	84.39
64.0-65.0	92.3	9.1	636.3	1.23	85.62
65.0-66.0	88.1	8.8	645.1	1.18	86.80
66.0-67.0	83.8	8.4	653.5	1.13	87.94
67.0-68.0	79.6	8.1	661.6	1.09	89.02
68.0-69.0	75.4	7.7	669.3	1.04	90.06
69.0-70.0	71.2	7.3	676.6	0.98	91.04
70.0-71.0	67.2	6.9	683.5	0.93	91.98
71.0-72.0	63.0	6.6	690.1	0.88	92.86

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	272.0	270.6	271.7	271.6	271.8	271.0	272.0	270.6	271.7	271.6
G1.0	272.2	270.4	271.6	272.1	271.4	271.0	271.9	271.9	272.4	271.8
G2.0	270.7	270.9	270.4	271.8	271.4	272.1	271.6	270.9	271.9	271.0
G3.0	269.8	269.7	270.3	271.5	271.6	271.3	272.4	271.7	272.7	270.3
G4.0	268.9	267.4	269.1	270.7	272.7	272.8	273.1	273.2	270.9	269.7
G5.0	267.4	268.2	269.2	271.0	271.5	272.0	272.0	274.1	271.9	270.7
G6.0	266.1	267.3	267.6	268.9	271.6	271.6	272.7	271.4	271.5	269.4
G7.0	265.1	264.8	267.1	269.6	271.1	271.7	271.6	271.9	271.0	268.2
G8.0	264.2	264.2	265.9	267.8	269.9	271.9	271.7	270.8	269.7	267.8
G9.0	261.6	263.5	265.5	267.5	269.8	271.4	271.7	270.8	267.9	266.0
G10.0	259.4	260.2	263.7	266.5	269.3	269.6	270.6	269.5	267.6	266.0
G11.0	257.9	260.0	262.2	266.0	267.5	269.5	269.5	268.7	267.1	264.1
G12.0	256.4	258.8	260.7	264.2	267.4	269.8	269.2	269.9	265.7	262.6
G13.0	253.9	256.1	258.7	262.1	265.7	267.6	268.8	267.5	264.3	260.9
G14.0	252.3	253.4	257.8	261.7	264.3	267.1	266.5	266.3	262.3	259.7
G15.0	250.4	251.9	255.2	258.2	264.6	266.3	265.6	265.1	260.8	256.9
G16.0	248.5	250.4	253.9	257.8	262.5	264.5	265.2	263.1	260.4	256.1
G17.0	245.9	247.4	251.0	254.6	260.7	263.9	264.2	262.4	258.9	253.7
G18.0	244.2	244.7	250.6	253.3	258.8	261.5	261.8	260.4	257.4	252.0
G19.0	240.5	243.0	246.4	252.2	256.1	259.7	260.9	258.7	255.1	249.5
G20.0	237.4	240.1	244.6	250.1	253.9	257.3	257.9	257.8	254.0	248.3
G21.0	236.0	237.4	243.1	247.8	252.2	256.3	256.0	256.6	251.4	246.0
G22.0	233.4	234.3	240.4	244.8	250.3	254.8	254.9	251.7	248.2	243.1
G23.0	229.9	232.8	237.3	242.0	247.9	252.1	253.2	251.8	247.6	239.9
G24.0	225.1	228.4	234.2	240.3	246.0	251.1	249.8	249.4	243.3	238.3
G25.0	224.1	226.2	232.0	237.8	244.8	248.2	248.6	246.3	242.0	235.7
G26.0	221.8	223.3	229.1	236.1	241.3	245.4	245.5	245.3	239.6	232.8
G27.0	216.4	221.3	226.6	232.5	239.1	242.9	243.7	241.4	236.2	229.8
G28.0	215.1	217.6	223.8	229.8	236.6	240.3	242.5	239.0	234.3	227.8
G29.0	212.5	214.3	220.3	227.7	233.7	237.9	239.2	237.9	231.0	225.2
G30.0	208.0	211.4	216.8	223.4	230.8	235.3	236.5	234.5	228.4	221.7
G31.0	204.4	207.0	213.9	221.1	228.1	232.7	234.0	231.3	226.1	218.7
G32.0	201.2	203.9	211.3	218.9	225.2	229.3	231.3	227.9	223.2	216.2
G33.0	197.8	200.7	207.5	214.4	222.1	227.6	227.7	226.4	219.8	213.2
G34.0	194.1	197.8	204.7	212.6	219.3	224.3	225.4	223.4	217.9	208.9
G35.0	191.6	194.1	200.3	208.4	216.0	220.3	222.0	219.1	213.8	207.0
G36.0	187.6	189.2	197.4	204.8	213.1	218.3	219.3	217.1	210.4	202.7

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	183.6	186.4	193.0	201.6	209.6	214.9	216.4	214.2	208.1	199.2
G38.0	179.3	182.4	189.9	198.2	206.3	210.8	213.3	209.4	203.6	196.8
G39.0	175.9	179.1	186.4	195.3	203.9	207.8	209.3	207.7	201.1	192.3
G40.0	172.0	174.3	183.2	191.3	199.8	204.1	205.0	204.0	196.2	188.6
G41.0	168.5	171.6	179.5	187.1	196.1	201.0	203.0	200.8	193.6	185.6
G42.0	164.4	168.2	175.2	184.0	193.1	197.9	199.6	196.3	190.1	181.3
G43.0	160.4	163.4	172.3	180.7	189.1	194.4	196.3	193.7	187.2	178.3
G44.0	156.6	160.1	167.7	177.1	185.8	191.1	192.2	189.4	182.7	174.5
G45.0	153.0	156.1	164.3	173.0	181.8	187.2	189.1	187.0	179.2	169.7
G46.0	148.4	152.1	160.0	168.9	178.7	183.3	184.6	182.9	175.6	167.0
G47.0	144.9	148.2	156.0	165.6	174.6	180.3	182.4	179.6	172.3	163.2
G48.0	140.7	143.8	151.1	161.6	170.4	176.0	178.5	175.4	168.4	159.4
G49.0	136.4	140.3	148.5	157.8	166.7	172.0	174.3	171.4	165.1	155.7
G50.0	132.2	136.1	144.1	154.1	162.9	169.1	171.3	168.2	160.7	151.6
G51.0	127.8	132.0	140.0	149.3	159.1	164.5	166.9	164.1	156.1	147.6
G52.0	124.3	127.4	136.2	145.8	155.5	161.2	163.7	160.9	152.9	143.2
G53.0	120.4	123.7	132.5	141.8	151.6	157.6	158.0	156.4	148.8	139.6
G54.0	115.7	119.3	127.8	137.6	146.7	153.2	155.8	152.0	144.6	135.0
G55.0	111.7	115.3	123.8	133.9	142.8	148.9	151.3	148.7	140.8	131.1
G56.0	106.6	110.6	118.9	129.2	139.4	144.6	148.3	144.8	136.6	127.0
G57.0	103.0	106.6	115.2	125.8	135.3	140.8	143.9	140.7	132.8	122.6
G58.0	98.4	102.3	111.3	121.6	131.4	137.5	139.4	136.9	129.4	119.4
G59.0	94.1	98.0	106.7	117.4	126.3	132.8	135.6	131.9	124.9	114.4
G60.0	90.2	93.8	102.4	113.3	122.8	129.2	131.4	128.7	119.7	110.6
G61.0	86.1	89.3	98.8	108.8	118.1	124.0	127.4	124.1	116.0	106.3
G62.0	81.5	85.3	93.6	104.6	113.8	120.3	123.7	119.6	112.1	101.9
G63.0	77.6	81.0	89.7	100.5	110.4	116.6	119.1	116.5	107.9	98.2
G64.0	73.3	76.9	85.8	96.3	105.9	112.2	115.0	111.3	103.8	93.8
G65.0	68.7	72.8	81.0	92.0	101.6	108.3	110.5	108.2	99.0	89.2
G66.0	65.0	68.6	77.1	87.7	97.3	103.7	106.8	103.4	95.3	85.0
G67.0	60.6	63.8	72.9	82.8	93.1	99.5	101.8	98.7	90.9	80.3
G68.0	56.6	60.1	68.6	78.9	88.8	95.5	98.5	95.0	86.9	76.4
G69.0	52.1	56.0	64.3	75.0	85.2	91.2	93.6	90.4	82.2	71.9
G70.0	48.3	52.0	60.4	70.7	80.7	86.8	89.6	86.2	77.6	68.0
G71.0	44.5	48.1	56.5	66.8	76.4	82.7	85.5	82.2	74.1	63.8
G72.0	40.2	44.0	52.2	62.5	71.8	78.2	80.9	77.5	69.5	59.6
G73.0	36.7	40.2	48.0	58.4	68.1	74.3	76.9	73.6	65.5	55.5

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	271.8	271.0	272.0						
G1.0	270.5	270.0	272.2						
G2.0	270.7	270.5	270.7						
G3.0	270.5	269.0	269.8						
G4.0	268.0	268.6	268.9						
G5.0	267.7	268.1	267.4						
G6.0	268.1	266.3	266.1						
G7.0	266.5	264.6	265.1						
G8.0	265.3	263.1	264.2						
G9.0	264.1	262.9	261.6						
G10.0	263.0	259.6	259.4						
G11.0	261.0	259.7	257.9						
G12.0	258.2	256.8	256.4						
G13.0	258.0	255.2	253.9						
G14.0	255.8	253.9	252.3						
G15.0	254.3	252.1	250.4						
G16.0	251.1	249.3	248.5						
G17.0	249.9	247.3	245.9						
G18.0	247.3	244.4	244.2						
G19.0	245.3	242.5	240.5						
G20.0	243.7	239.9	237.4						
G21.0	240.8	237.2	236.0						
G22.0	237.3	234.8	233.4						
G23.0	235.9	231.3	229.9						
G24.0	232.8	228.7	225.1						
G25.0	229.4	225.8	224.1						
G26.0	227.4	223.0	221.8						
G27.0	224.2	220.1	216.4						
G28.0	221.2	216.9	215.1						
G29.0	217.9	213.5	212.5						
G30.0	215.5	210.9	208.0						
G31.0	211.2	207.3	204.4						
G32.0	208.3	203.6	201.2						
G33.0	205.1	200.2	197.8						
G34.0	201.6	196.6	194.1						
G35.0	198.5	191.9	191.6						
G36.0	196.0	190.1	187.6						

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 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	191.6	186.3	183.6						
G38.0	187.6	182.4	179.3						
G39.0	184.0	178.4	175.9						
G40.0	180.6	175.2	172.0						
G41.0	177.2	170.9	168.5						
G42.0	173.0	167.6	164.4						
G43.0	169.0	164.0	160.4						
G44.0	165.2	159.6	156.6						
G45.0	161.7	155.7	153.0						
G46.0	158.1	151.8	148.4						
G47.0	154.4	148.4	144.9						
G48.0	149.2	144.0	140.7						
G49.0	145.5	139.6	136.4						
G50.0	141.9	135.9	132.2						
G51.0	137.9	130.7	127.8						
G52.0	133.1	127.1	124.3						
G53.0	129.4	123.2	120.4						
G54.0	125.4	119.0	115.7						
G55.0	122.0	114.4	111.7						
G56.0	116.7	110.3	106.6						
G57.0	112.8	106.8	103.0						
G58.0	108.9	102.2	98.4						
G59.0	104.4	97.7	94.1						
G60.0	100.2	93.5	90.2						
G61.0	95.9	89.3	86.1						
G62.0	91.6	85.0	81.5						
G63.0	88.1	80.8	77.6						
G64.0	83.0	76.3	73.3						
G65.0	78.9	72.3	68.7						
G66.0	74.8	68.1	65.0						
G67.0	70.4	63.7	60.6						
G68.0	66.1	59.9	56.6						
G69.0	62.0	55.5	52.1						
G70.0	58.1	51.3	48.3						
G71.0	53.8	47.6	44.5						
G72.0	49.8	43.3	40.2						
G73.0	45.9	39.6	36.7						

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:

