

Report No.:

Test Time: 2021-03-24 16:39

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LED-380-3CCT-5K

Current: 0.060 A

Power Factor: 0.966

Voltage: 120.6 V

Power: 6.97 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 526 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 64.8, 63.4, 64.0, 64.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 37.3, 35.2, 35.5, 36.7

Luminaire Efficacy Rating (LER): 75.52

Max. Intensity: 1025.12 cd

S/MH(C0/C180): 0.62

Total Rated Lamp Lumens: 526.0 lm

Efficiency: 100%

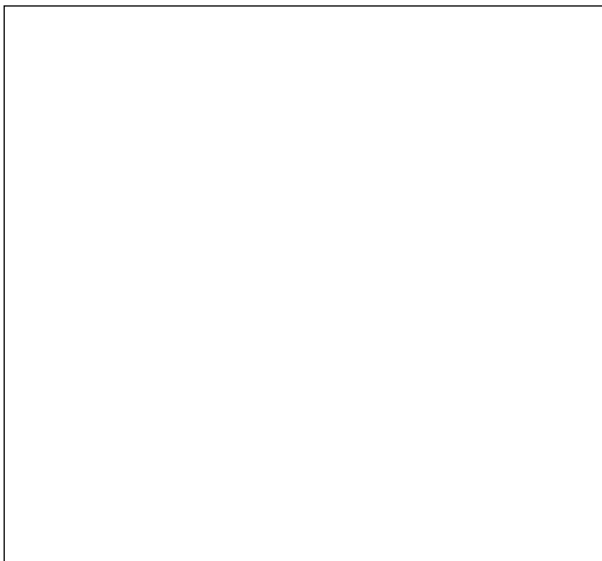
Upward Ratio: 0%

Central Intensity: 1007.18 cd

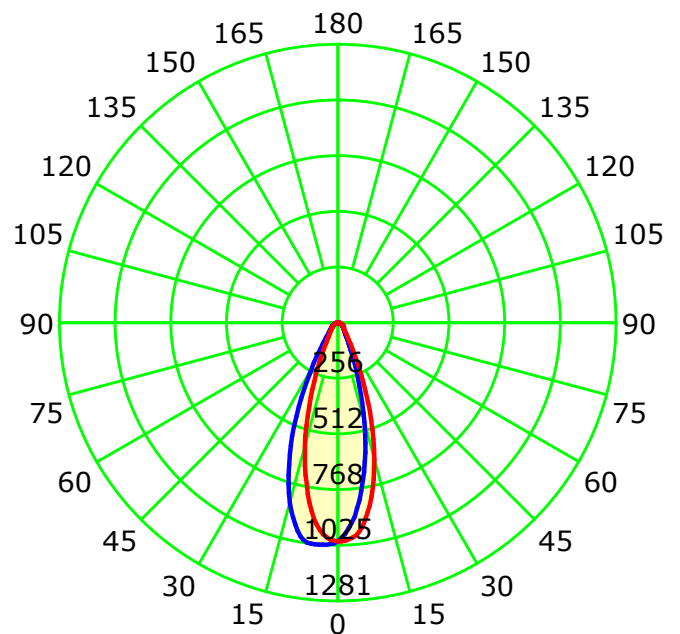
Pos of Max. Intensity: H180 V7

S/MH(C90/C270): 0.58

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:

Operator:

Gamma Plane (°):0.0-90.0:1.0

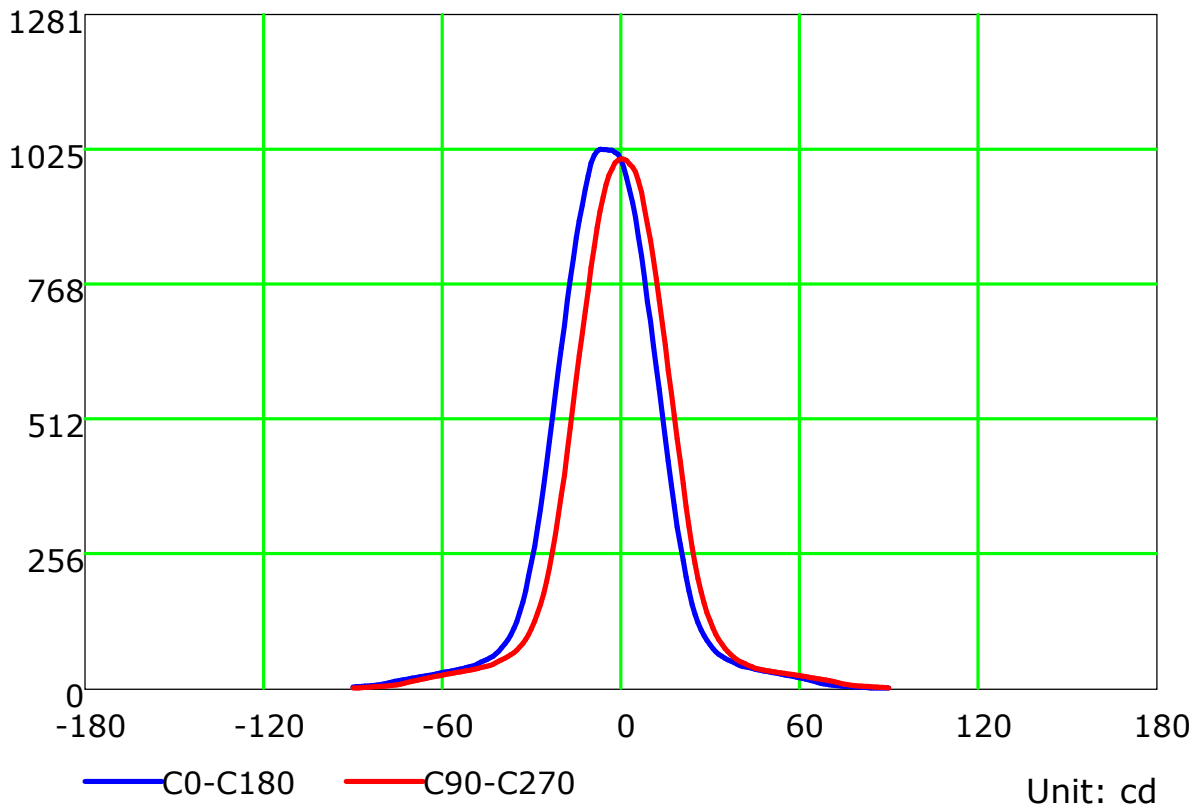
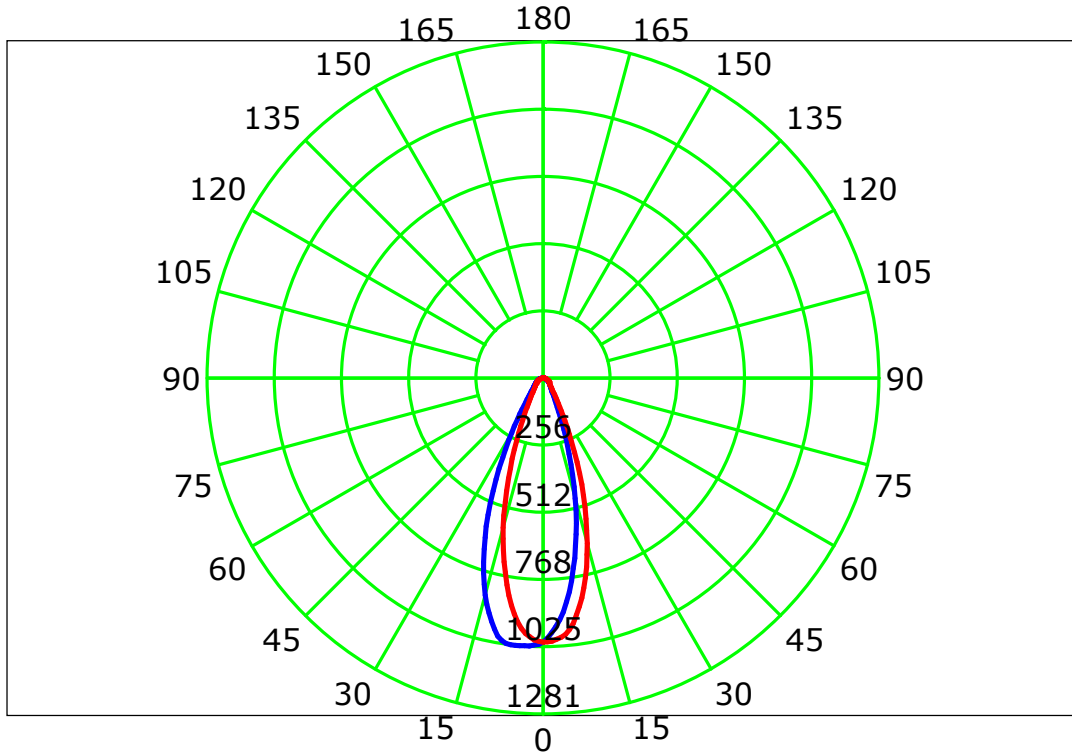
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve

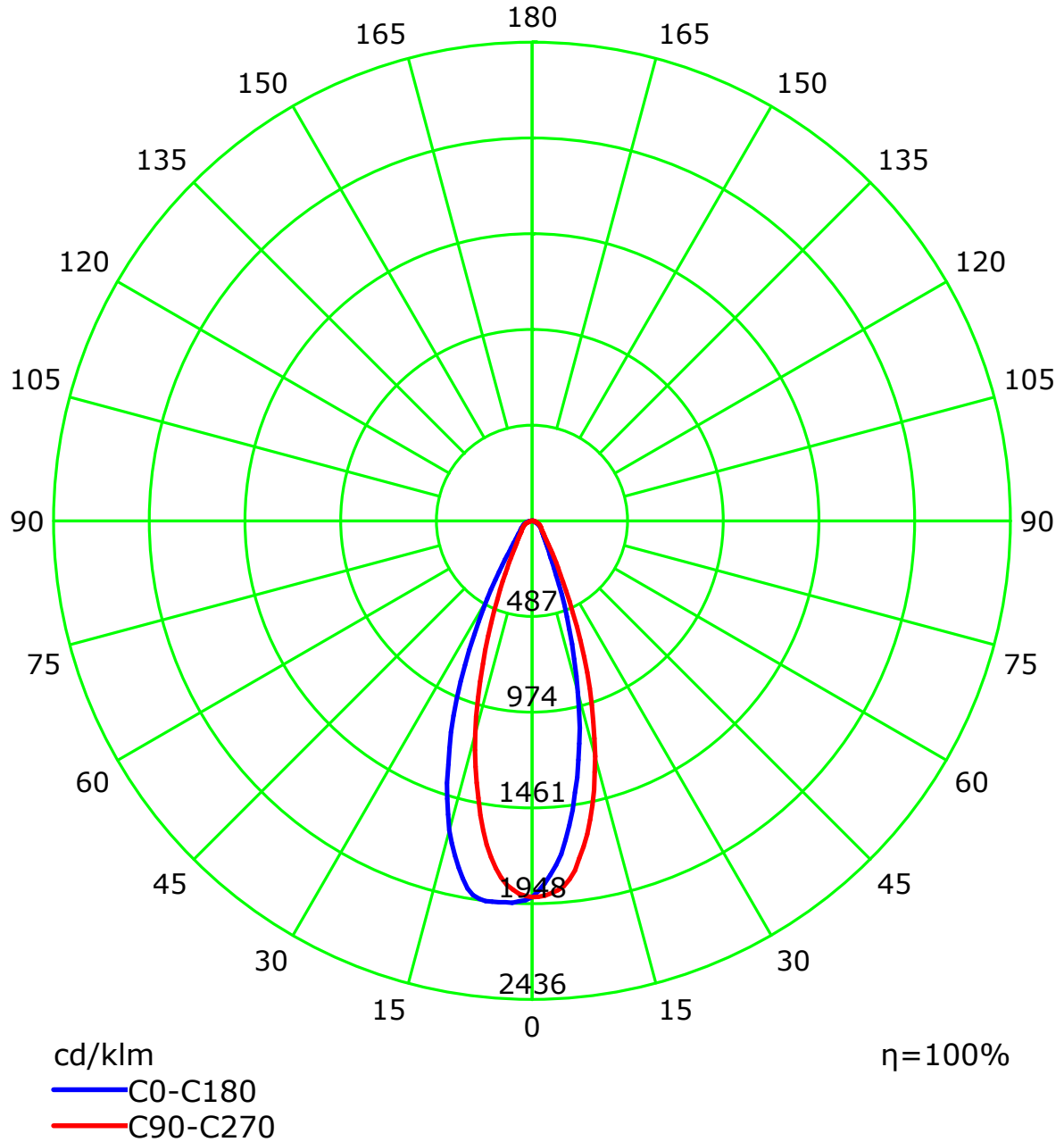


C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 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

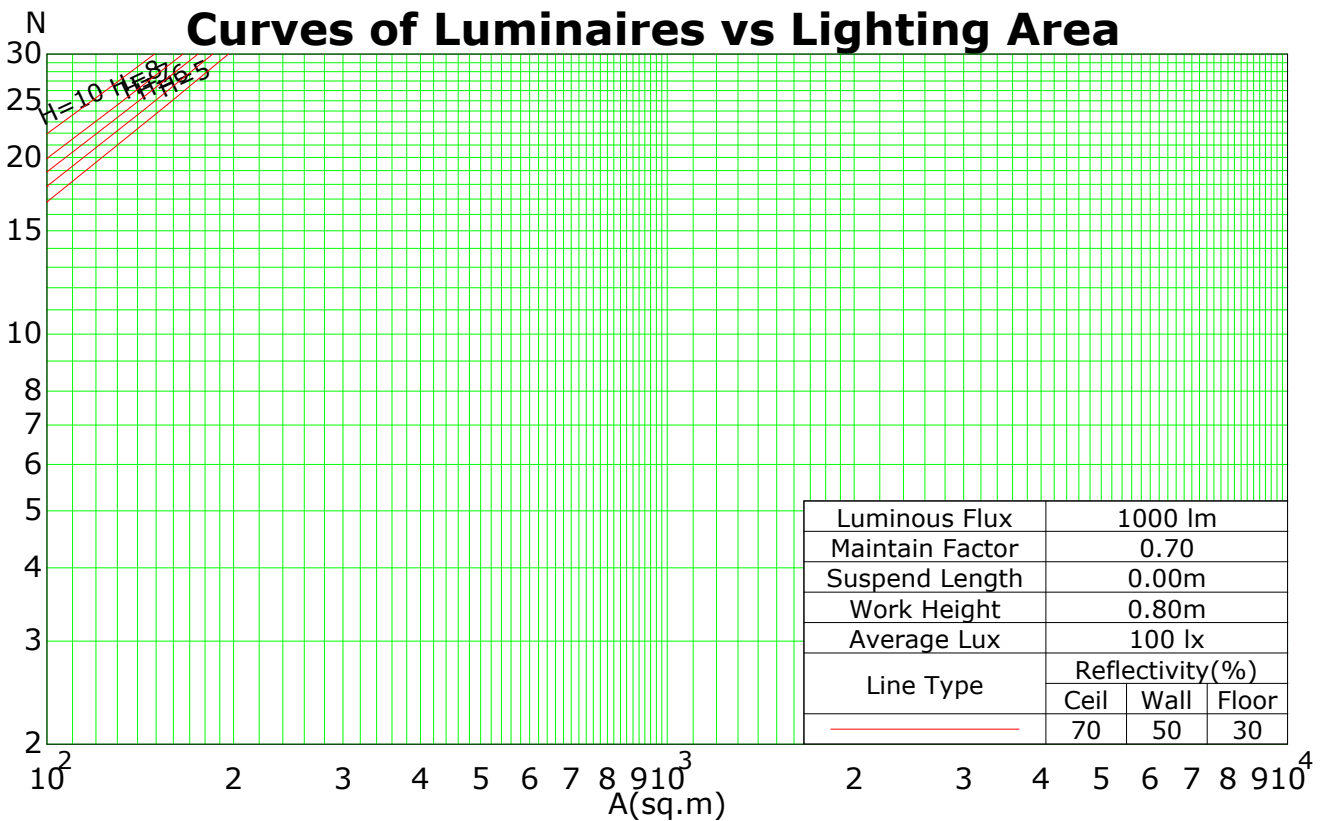
Humidity:

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	61
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	62	57	54	53

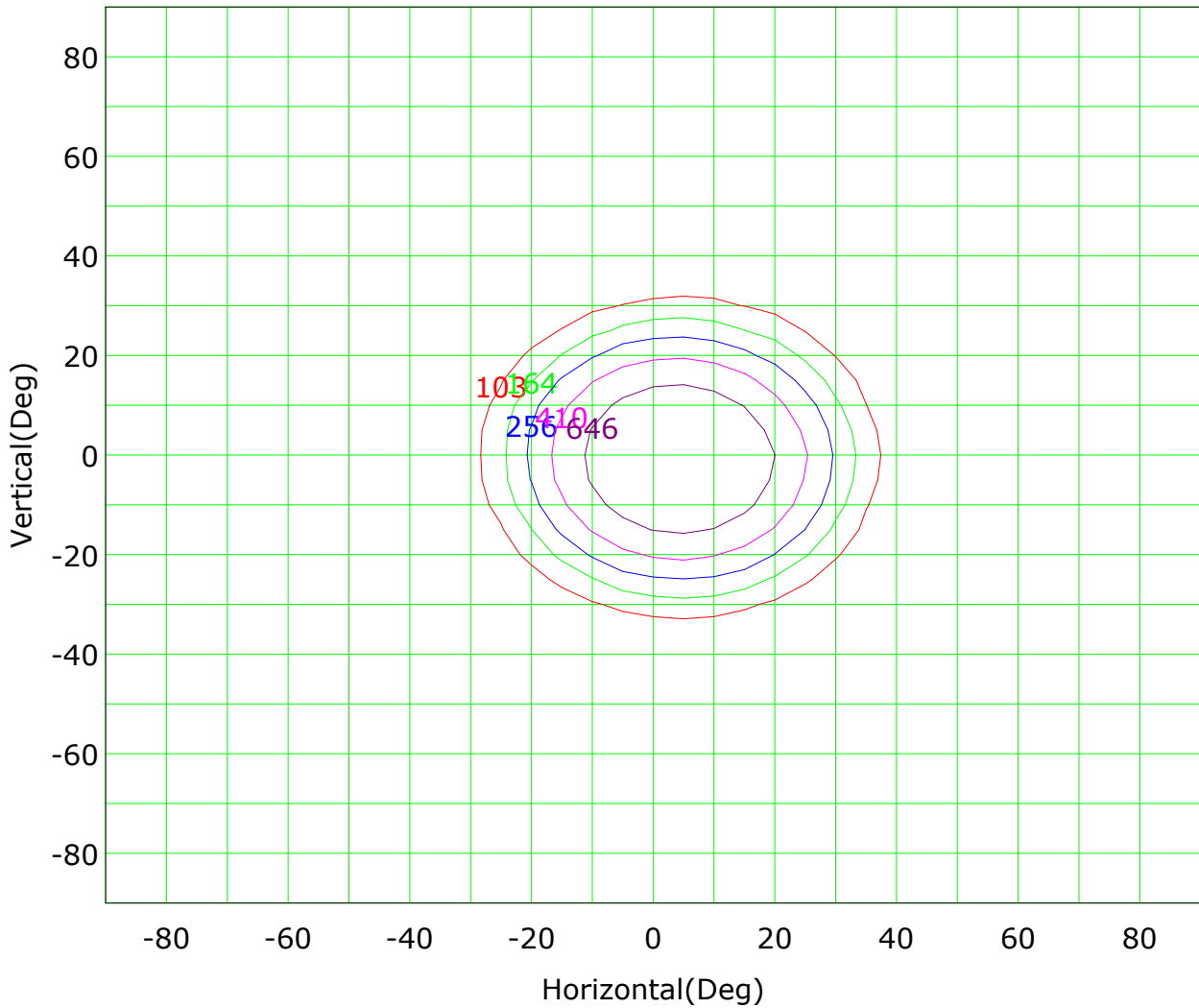
Spacing Criteria (0-180): 0.62  
 Spacing Criteria (90-270): 0.58  
 Spacing Criteria (Diagonal): 0.59



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%): 1025 cd

— ( 10%): 103 cd	— ( 16%): 164 cd
— ( 25%): 256 cd	— ( 40%): 410 cd
— ( 63%): 646 cd	— (100%): 1025 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

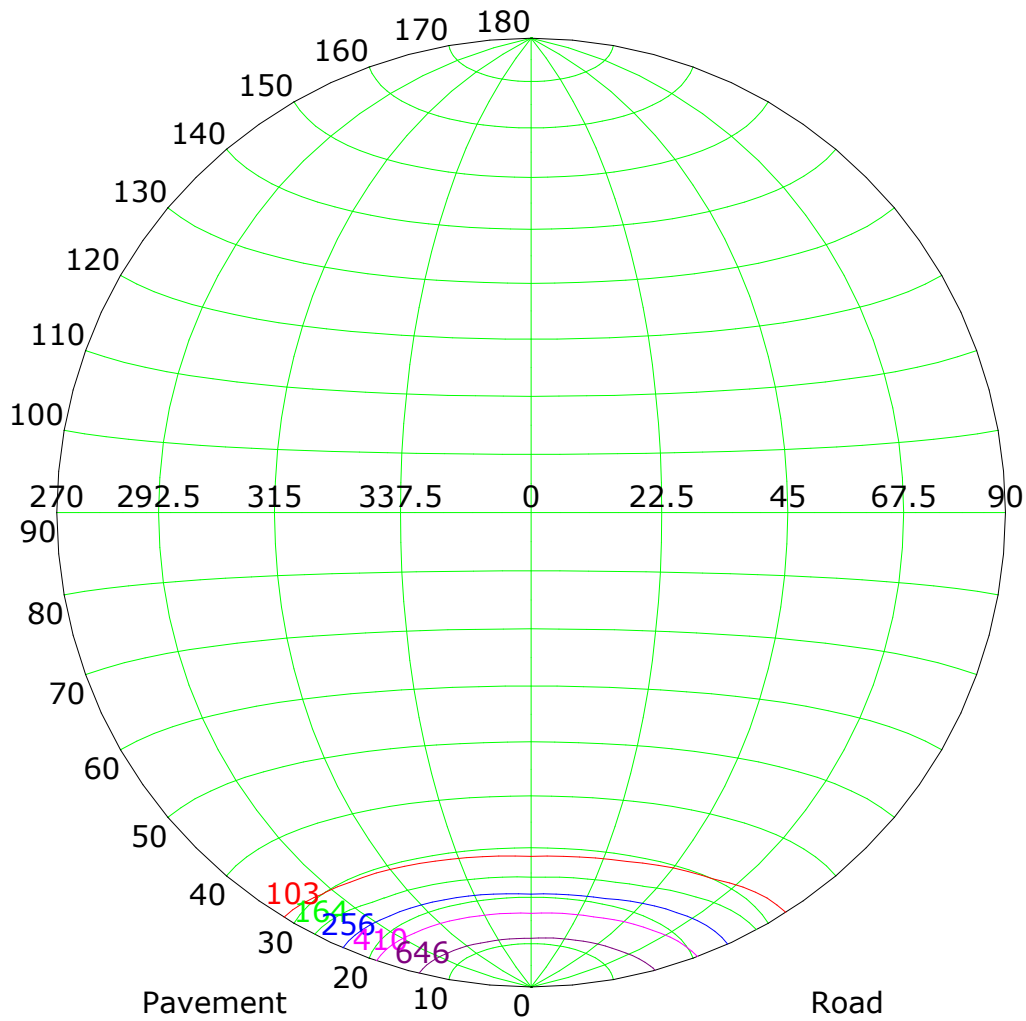
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 1025 cd

— ( 10%):	103 cd	— ( 16%):	164 cd
— ( 25%):	256 cd	— ( 40%):	410 cd
— ( 63%):	646 cd	— (100%):	1025 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

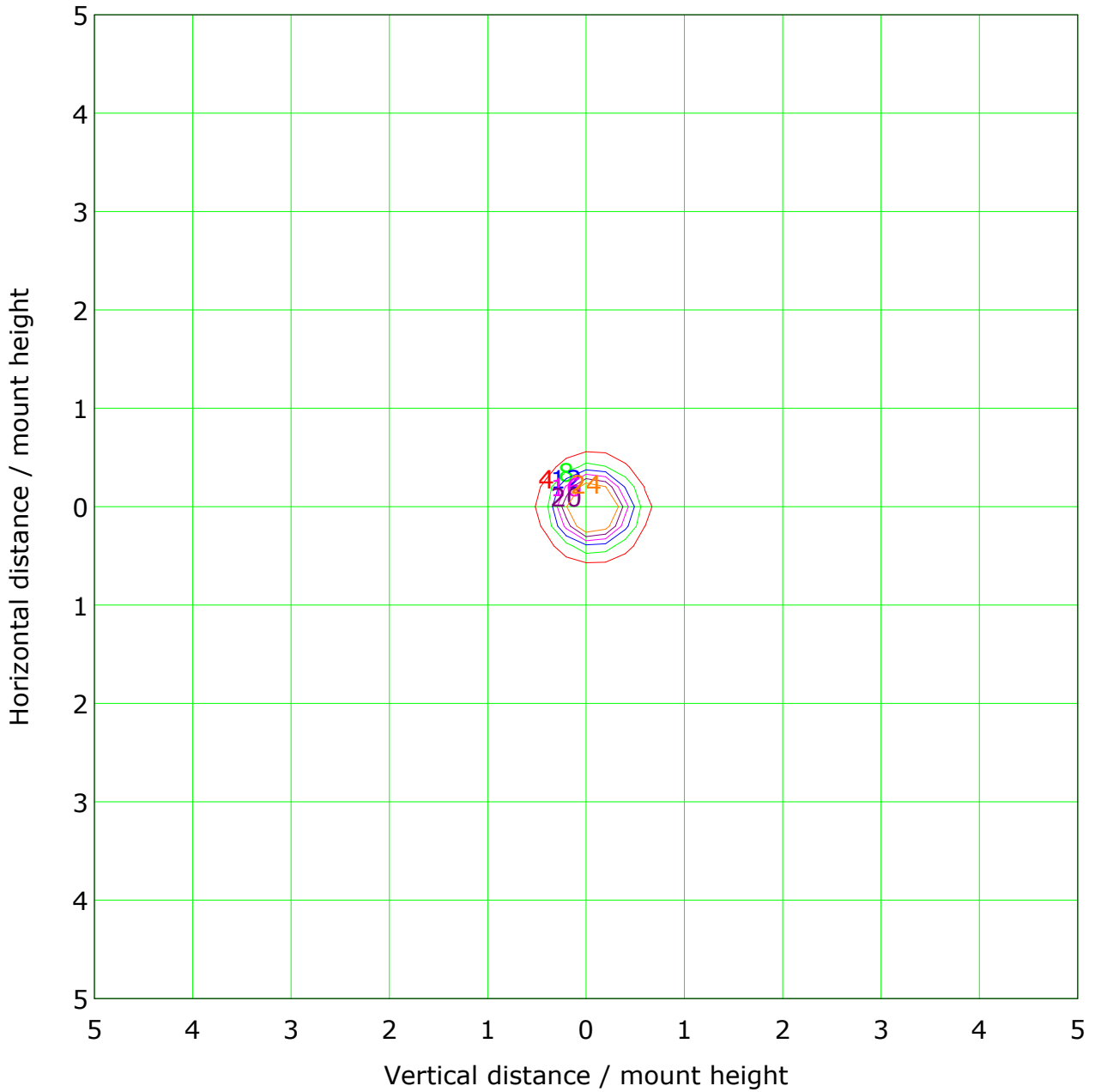
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 40.8 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 10%): 4.1 lx</li> <li><span style="color: blue;">—</span> ( 30%): 12.2 lx</li> <li><span style="color: purple;">—</span> ( 50%): 20.4 lx</li> <li><span style="color: green;">—</span> (100%): 40.8 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 20%): 8.2 lx</li> <li><span style="color: magenta;">—</span> ( 40%): 16.3 lx</li> <li><span style="color: orange;">—</span> ( 60%): 24.5 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

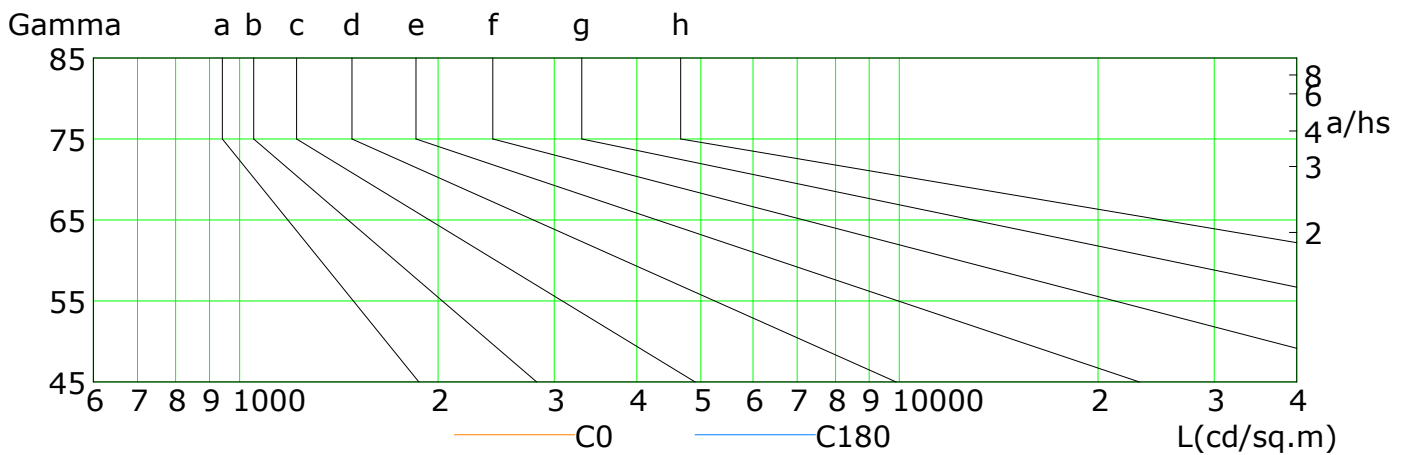
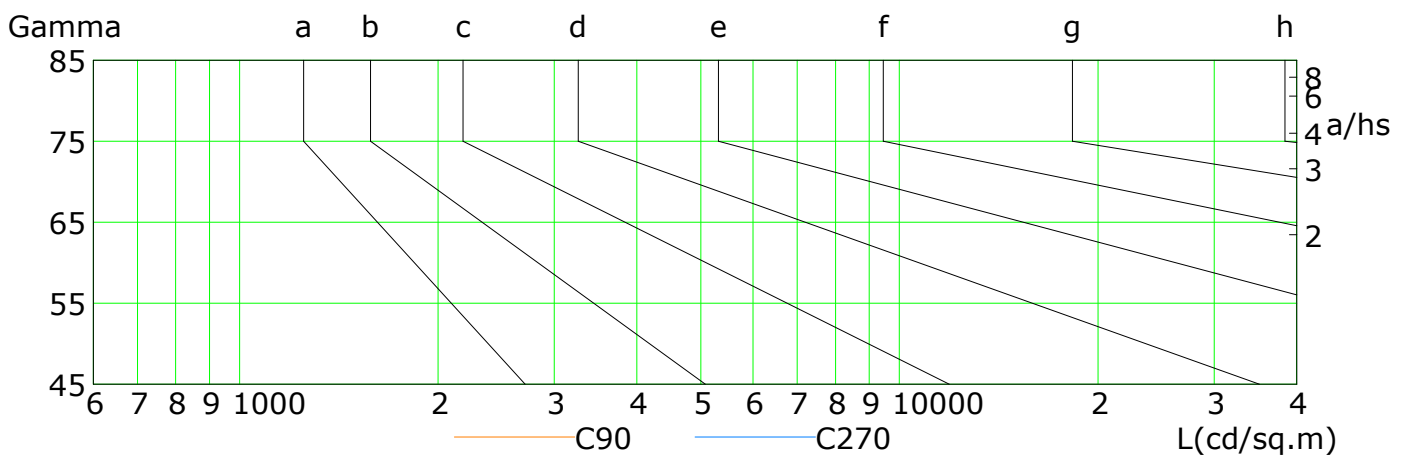
Humidity:

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	37	31	26	20	13	7	4	2	1
C90	39	33	29	25	20	15	8	5	3
C180	55	42	36	30	25	20	15	8	5
C270	42	36	31	25	20	14	7	4	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

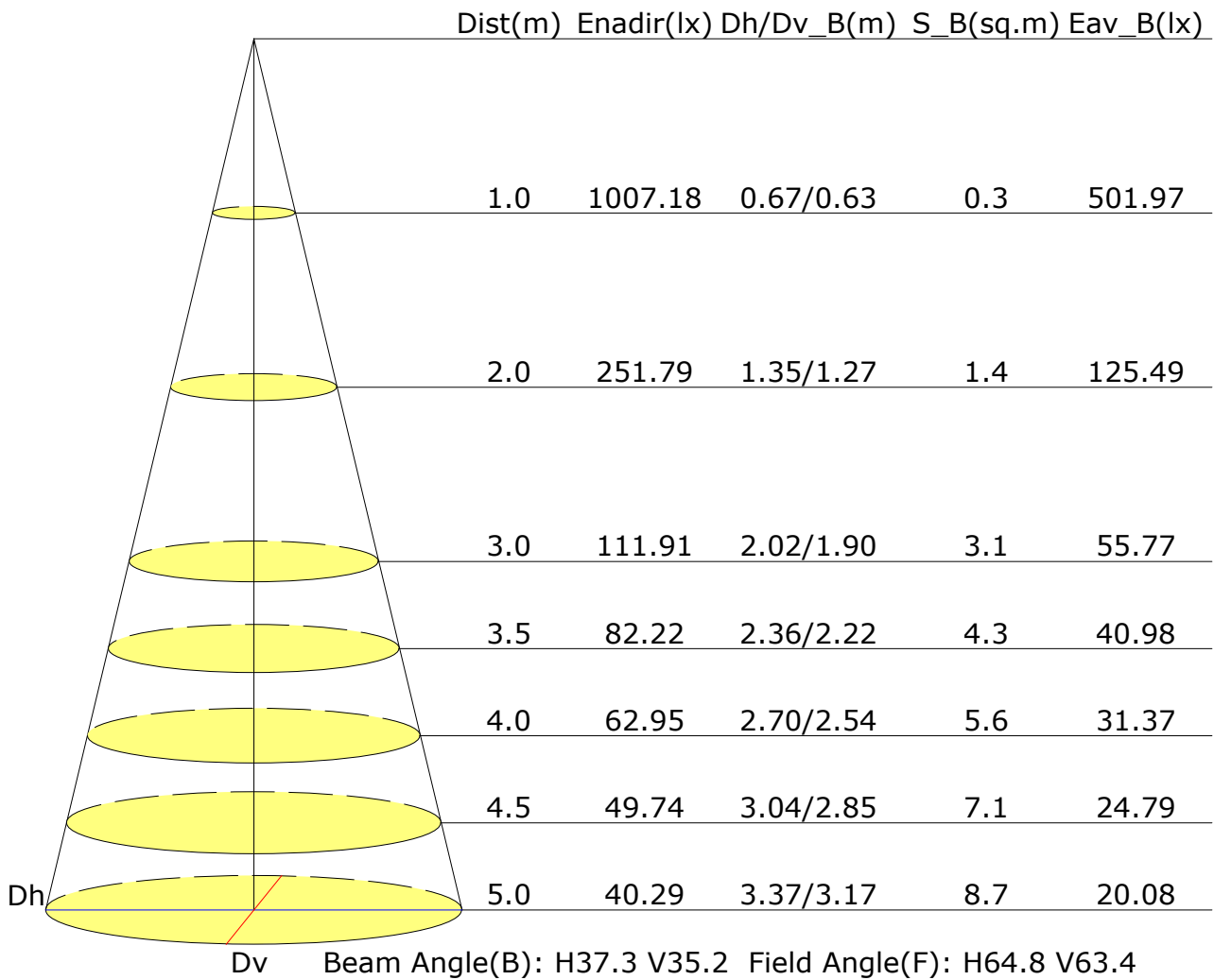
Distance: 6.935 m

Humidity:

Inspector:



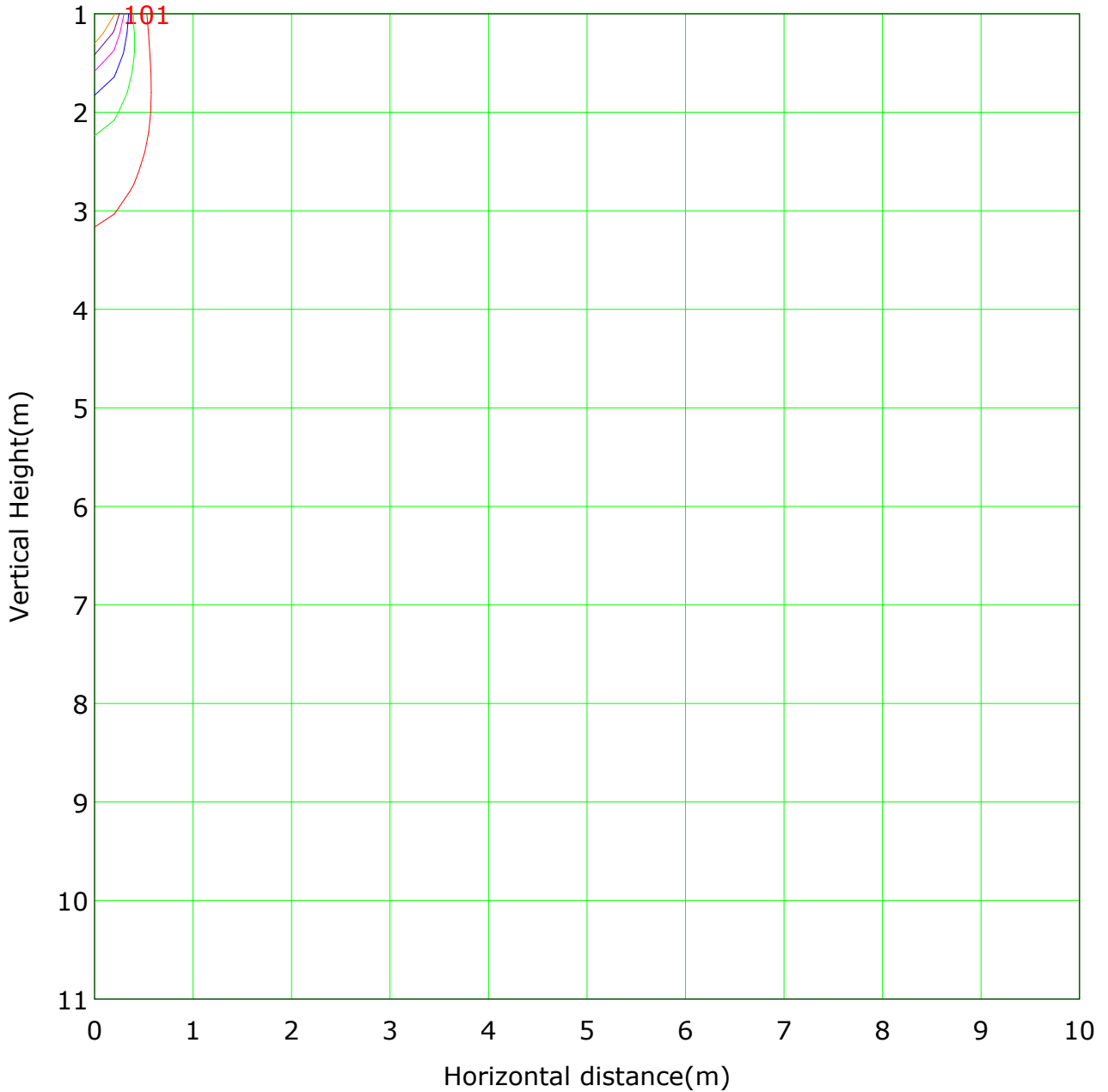
## Illuminance at a Distance



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: 1007.2 lx

— ( 10%): 100.7 lx	— ( 20%): 201.4 lx
— ( 30%): 302.2 lx	— ( 40%): 402.9 lx
— ( 50%): 503.6 lx	— ( 60%): 604.3 lx
— (100%):1007.2 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	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
-80	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	0.1	0.0	0.0	0.0	0.0	2.1	0.0
-70	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.9	0.0
-60	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.7	0.5	0.3	0.1	0.1	0.0	0.0	7.8	0.0
-50	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.2	1.3	1.3	1.1	0.9	0.7	0.5	0.2	0.1	0.0	0.0	10.7	0.0
-40	0.0	0.1	0.3	0.5	0.8	1.1	1.6	2.1	2.4	2.2	1.7	1.2	0.9	0.6	0.3	0.1	0.0	0.0	15.8	0.6
-30	0.0	0.1	0.3	0.5	0.9	1.5	2.9	5.1	6.7	5.7	3.3	1.8	1.1	0.7	0.4	0.1	0.0	0.0	31.3	21.1
-20	0.0	0.1	0.3	0.6	1.1	2.3	6.3	13.4	18.0	15.3	8.0	2.9	1.3	0.8	0.4	0.2	0.0	0.0	70.9	63.4
-10	0.0	0.1	0.3	0.6	1.2	3.2	10.5	22.3	28.8	24.8	13.1	4.1	1.5	0.8	0.5	0.2	0.0	0.0	112.0	105.4
0	0.0	0.1	0.3	0.6	1.2	3.3	11.1	23.3	29.6	25.3	13.3	4.1	1.5	0.8	0.5	0.2	0.0	0.0	115.0	108.5
10	0.0	0.1	0.3	0.6	1.1	2.4	7.2	15.5	20.1	16.7	8.3	2.9	1.3	0.7	0.4	0.2	0.0	0.0	77.8	70.6
20	0.0	0.1	0.3	0.5	0.9	1.6	3.2	6.1	8.0	6.5	3.6	1.8	1.0	0.7	0.4	0.1	0.0	0.0	34.8	25.4
30	0.0	0.1	0.3	0.5	0.7	1.1	1.6	2.2	2.5	2.3	1.7	1.2	0.8	0.6	0.3	0.1	0.0	0.0	15.9	1.4
40	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.3	1.2	1.0	0.9	0.7	0.5	0.2	0.1	0.0	0.0	10.2	0.0
50	0.0	0.1	0.2	0.3	0.5	0.6	0.8	0.9	0.9	0.9	0.8	0.7	0.5	0.3	0.1	0.1	0.0	0.0	7.5	0.0
60	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.0	0.0
70	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	2.3	0.0
80	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
90	0.2	1.3	3.5	6.7	11.1	20.9	49.9	96.0	122.3	104.7	58.3	24.2	12.6	7.8	4.3	1.6	0.4	0.0	526	
Flux(T)	0.0	0.0	0.0	0.0	0.0	6.9	39.0	85.8	112.2	94.6	47.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0		396
Flux(E)	0.0	0.0	0.0	0.0	0.0	6.9	39.0	85.8	112.2	94.6	47.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0		396

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

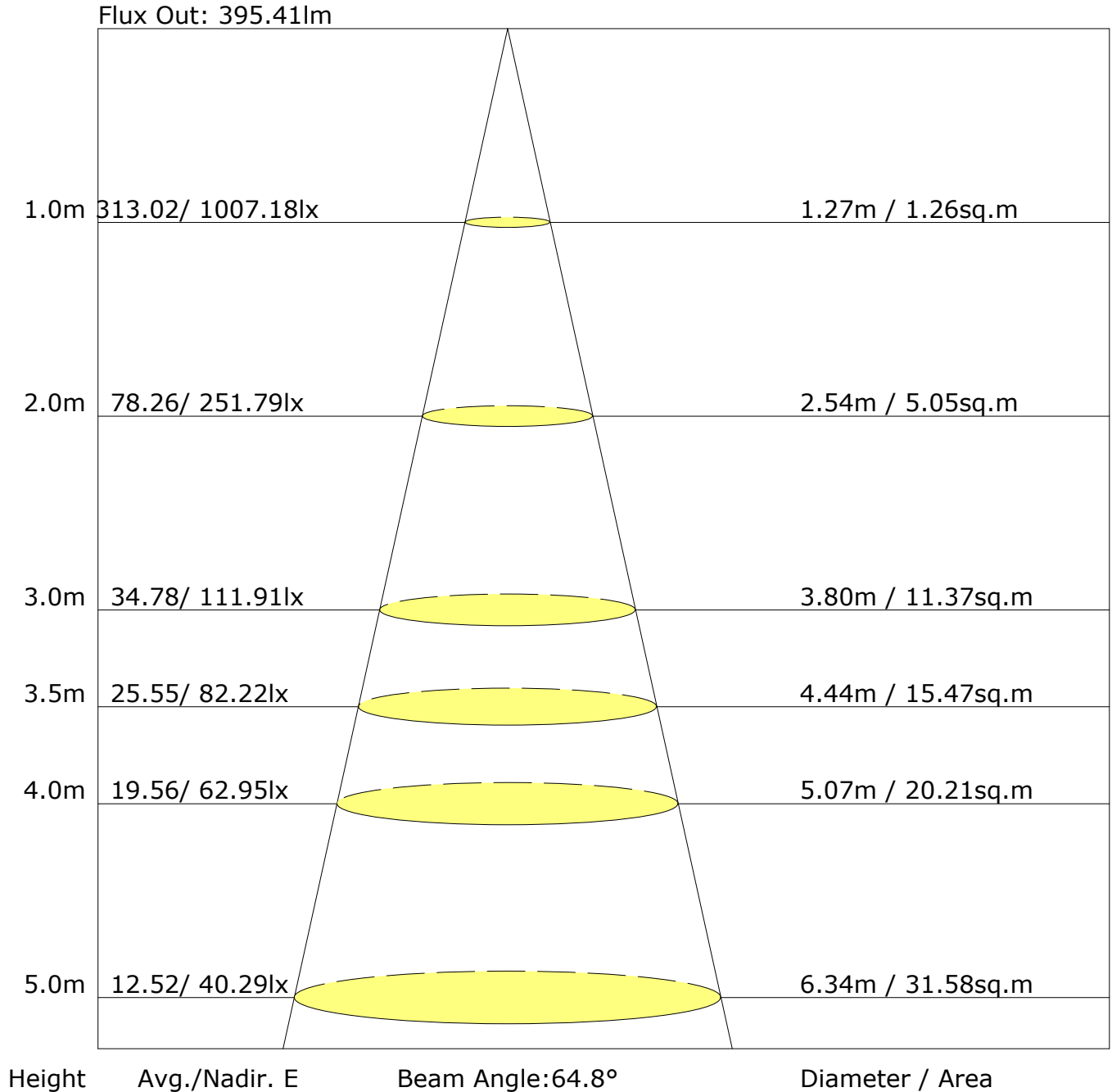
Test Lab:

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.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with  $526lm$  ( $8\log(F/F_0) = -2.2$ ).

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:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

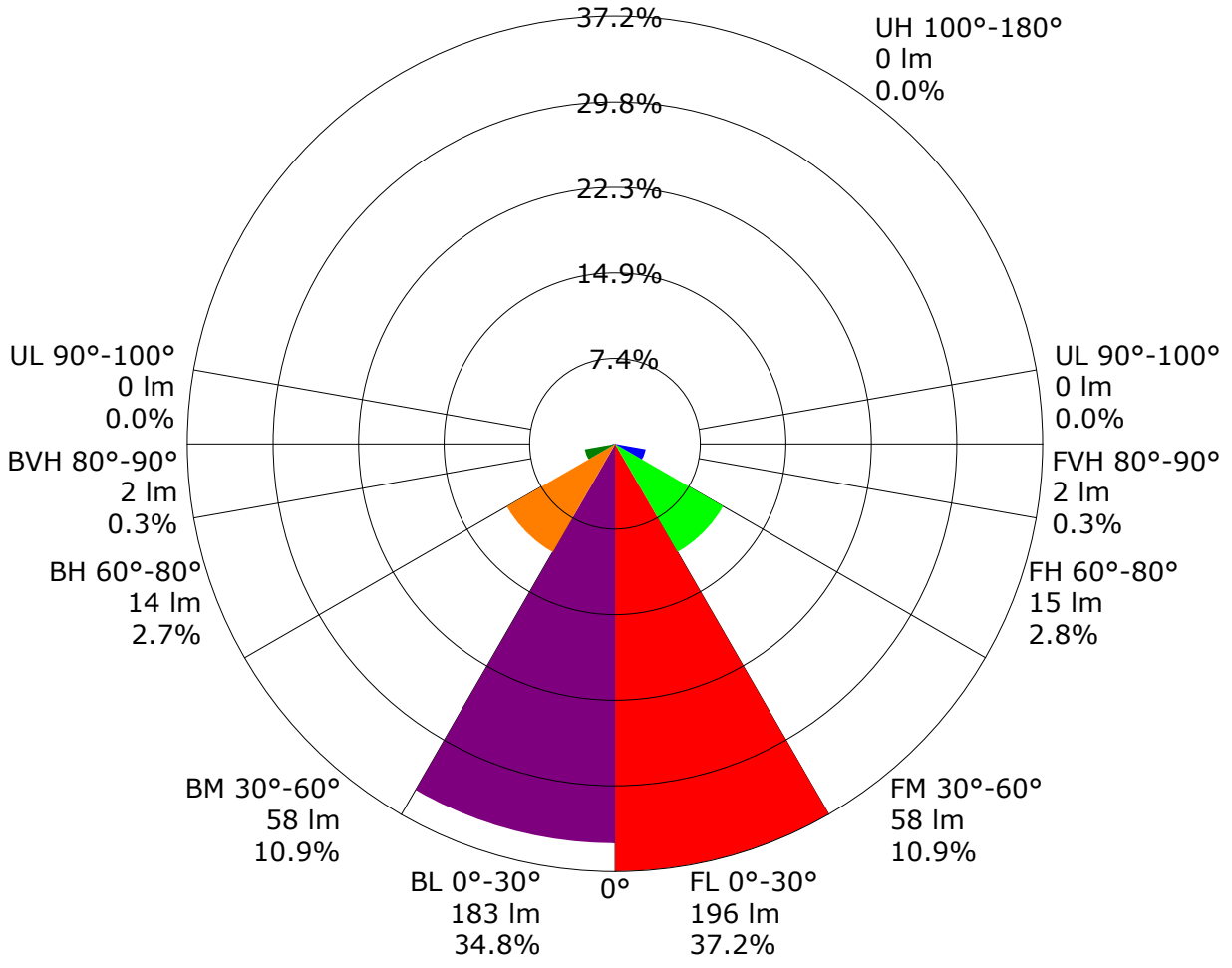
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	270	51.3
	FL ( 0°-30°)	196	37.2
	FM (30°-60°)	58	10.9
	FH (60°-80°)	15	2.8
	FVH (80°-90°)	2	0.3
	BACK LIGHT	256	48.7
	BL ( 0°-30°)	183	34.8
	BM (30°-60°)	58	10.9
	BH (60°-80°)	14	2.7
	BVH (80°-90°)	2	0.3
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 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 = 0.75									
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	0.83	0.89	0.94	0.97	1.01	1.04	1.06	1.09	1.10	
	0.30		0.78	0.84	0.89	0.92	0.97	1.00	1.03	1.06	1.08	
	0.20		0.75	0.81	0.85	0.89	0.94	0.98	1.00	1.04	1.06	
0.50	0.50	0.20	0.82	0.87	0.91	0.94	0.98	1.01	1.02	1.05	1.06	
	0.30		0.77	0.83	0.88	0.91	0.95	0.98	1.00	1.03	1.04	
	0.20		0.74	0.80	0.84	0.88	0.92	0.95	0.98	1.01	1.03	
0.30	0.50	0.20	0.81	0.86	0.89	0.92	0.96	0.98	0.99	1.01	1.02	
	0.30		0.77	0.82	0.86	0.89	0.93	0.95	0.97	1.00	1.01	
	0.20		0.74	0.79	0.83	0.87	0.91	0.93	0.95	0.98	1.00	
0.00	0.00	0.00	0.72	0.77	0.81	0.84	0.88	0.90	0.92	0.94	0.95	
<p>Rating:7W 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(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75									
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	0.62	0.51	0.43	0.37	0.30	0.25	0.21	0.16	0.13	
	0.30		0.51	0.43	0.38	0.33	0.27	0.23	0.20	0.15	0.13	
	0.20		0.44	0.38	0.33	0.30	0.25	0.21	0.18	0.14	0.12	
0.50	0.50	0.20	0.59	0.48	0.41	0.35	0.28	0.27	0.20	0.15	0.12	
	0.30		0.50	0.42	0.36	0.32	0.25	0.21	0.18	0.14	0.12	
	0.20		0.43	0.37	0.32	0.29	0.23	0.20	0.17	0.14	0.11	
0.30	0.50	0.20	0.56	0.46	0.38	0.33	0.26	0.21	0.18	0.14	0.11	
	0.30		0.48	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
	0.20		0.42	0.36	0.31	0.27	0.22	0.19	0.16	0.13	0.11	
0.00	0.00	0.00	0.29	0.24	0.20	0.17	0.14	0.11	0.10	0.07	0.06	
<p>Rating:7W 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 = 0.75								
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	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.17	0.17	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.17
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19
	0.30		0.09	0.10	0.12	0.13	0.14	0.16	0.16	0.17	0.18
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:7W 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1005.7	1.0	1.0	0.18	0.18
1.0-2.0	1001.6	2.9	3.8	0.55	0.73
2.0-3.0	994.1	4.8	8.6	0.90	1.63
3.0-4.0	984.2	6.6	15.2	1.25	2.89
4.0-5.0	972.2	8.4	23.5	1.59	4.48
5.0-6.0	956.4	10.1	33.6	1.91	6.39
6.0-7.0	936.7	11.6	45.2	2.21	8.60
7.0-8.0	912.9	13.1	58.3	2.48	11.08
8.0-9.0	884.7	14.3	72.6	2.73	13.81
9.0-10.0	853.8	15.5	88.1	2.94	16.75
10.0-11.0	819.3	16.4	104.5	3.11	19.86
11.0-12.0	782.2	17.1	121.6	3.25	23.11
12.0-13.0	744.7	17.7	139.2	3.36	26.47
13.0-14.0	704.1	18.0	157.3	3.43	29.90
14.0-15.0	662.2	18.2	175.4	3.46	33.35
15.0-16.0	619.9	18.2	193.6	3.45	36.81
16.0-17.0	575.8	17.9	211.5	3.41	40.22
17.0-18.0	532.8	17.6	229.1	3.34	43.56
18.0-19.0	489.7	17.0	246.2	3.24	46.80
19.0-20.0	447.4	16.4	262.5	3.11	49.91
20.0-21.0	408.4	15.7	278.2	2.98	52.89
21.0-22.0	369.1	14.8	293.1	2.82	55.71
22.0-23.0	331.1	13.9	306.9	2.64	58.35
23.0-24.0	295.7	12.9	319.9	2.46	60.81
24.0-25.0	263.1	12.0	331.8	2.27	63.08
25.0-26.0	234.8	11.1	342.9	2.11	65.19
26.0-27.0	208.3	10.2	353.1	1.94	67.13
27.0-28.0	184.8	9.4	362.5	1.78	68.91
28.0-29.0	164.8	8.6	371.1	1.64	70.55
29.0-30.0	146.8	7.9	379.0	1.51	72.05
30.0-31.0	131.3	7.3	386.3	1.39	73.44
31.0-32.0	117.2	6.7	393.0	1.28	74.72
32.0-33.0	104.9	6.2	399.2	1.17	75.90
33.0-34.0	94.8	5.7	405.0	1.09	76.99
34.0-35.0	86.0	5.3	410.3	1.01	78.00
35.0-36.0	78.4	5.0	415.3	0.95	78.95

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	72.2	4.7	420.0	0.90	79.85
37.0-38.0	66.9	4.5	424.5	0.85	80.70
38.0-39.0	62.3	4.3	428.7	0.81	81.50
39.0-40.0	58.2	4.1	432.8	0.77	82.28
40.0-41.0	54.5	3.9	436.7	0.74	83.01
41.0-42.0	51.4	3.7	440.4	0.71	83.72
42.0-43.0	48.7	3.6	444.0	0.69	84.41
43.0-44.0	46.4	3.5	447.5	0.67	85.08
44.0-45.0	44.4	3.4	450.9	0.65	85.73
45.0-46.0	42.5	3.3	454.3	0.63	86.36
46.0-47.0	40.8	3.2	457.5	0.62	86.97
47.0-48.0	39.2	3.2	460.7	0.60	87.58
48.0-49.0	37.7	3.1	463.8	0.59	88.17
49.0-50.0	36.4	3.0	466.8	0.58	88.74
50.0-51.0	35.3	3.0	469.8	0.57	89.31
51.0-52.0	34.2	2.9	472.7	0.56	89.87
52.0-53.0	33.1	2.9	475.6	0.55	90.42
53.0-54.0	32.0	2.8	478.4	0.54	90.95
54.0-55.0	31.0	2.8	481.2	0.53	91.48
55.0-56.0	29.9	2.7	483.9	0.51	91.99
56.0-57.0	28.9	2.6	486.5	0.50	92.49
57.0-58.0	27.9	2.6	489.1	0.49	92.98
58.0-59.0	26.8	2.5	491.6	0.48	93.46
59.0-60.0	25.8	2.4	494.1	0.46	93.92
60.0-61.0	24.7	2.4	496.4	0.45	94.37
61.0-62.0	23.6	2.3	498.7	0.43	94.80
62.0-63.0	22.5	2.2	500.9	0.42	95.22
63.0-64.0	21.4	2.1	503.0	0.40	95.62
64.0-65.0	20.2	2.0	505.0	0.38	96.00
65.0-66.0	19.1	1.9	506.9	0.36	96.36
66.0-67.0	17.9	1.8	508.7	0.34	96.71
67.0-68.0	16.7	1.7	510.4	0.32	97.03
68.0-69.0	15.5	1.6	512.0	0.30	97.33
69.0-70.0	14.4	1.5	513.5	0.28	97.61
70.0-71.0	13.3	1.4	514.8	0.26	97.87
71.0-72.0	12.2	1.3	516.1	0.24	98.11

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	1007.2	1005.1	1008.6	1007.4	1006.6	1006.2	1007.2	1005.1	1008.6	1007.4
G1.0	991.5	994.4	1000.2	1006.8	1011.9	1014.5	1016.0	1013.7	1009.0	1004.1
G2.0	971.3	977.3	992.1	1003.9	1013.5	1017.5	1019.3	1016.0	1010.0	999.7
G3.0	948.4	955.0	978.7	997.4	1011.7	1018.8	1023.6	1019.9	1007.1	988.4
G4.0	923.9	935.4	961.4	991.1	1009.7	1019.1	1023.3	1019.2	1002.6	976.3
G5.0	895.8	910.2	939.7	982.0	1005.9	1018.1	1024.7	1017.7	994.9	958.2
G6.0	858.9	879.6	914.9	965.3	999.8	1018.7	1025.0	1013.9	982.8	934.8
G7.0	821.8	848.5	885.8	943.2	990.2	1016.2	1025.1	1005.9	964.8	907.1
G8.0	781.2	807.1	852.5	912.1	976.7	1011.8	1021.9	993.5	937.6	876.0
G9.0	735.8	766.5	814.0	883.0	957.3	1002.7	1013.9	975.5	909.3	839.1
G10.0	697.8	725.6	773.4	851.9	934.0	986.7	999.0	952.1	876.6	800.9
G11.0	651.8	680.7	732.7	815.9	901.4	965.2	974.9	923.6	838.8	755.6
G12.0	609.9	635.3	694.1	778.8	869.1	938.3	949.2	890.6	800.0	716.8
G13.0	569.2	593.0	651.9	739.0	831.5	907.8	919.5	857.7	759.1	675.9
G14.0	520.3	546.9	605.2	693.3	790.0	873.9	890.0	815.1	715.1	632.5
G15.0	475.6	505.3	562.9	653.3	751.1	836.7	857.3	773.3	675.9	590.2
G16.0	432.5	457.8	519.8	605.7	710.3	795.2	817.9	733.1	627.8	545.4
G17.0	386.6	415.4	472.0	562.0	663.9	753.0	777.8	687.9	585.7	495.1
G18.0	347.0	371.8	432.1	518.8	623.3	708.7	738.3	645.7	540.3	452.2
G19.0	307.2	327.3	386.7	474.9	578.3	663.0	690.0	598.0	494.5	405.0
G20.0	273.8	286.5	346.9	432.2	536.4	622.8	647.2	554.3	450.4	367.4
G21.0	243.8	253.4	311.0	389.8	494.6	582.2	606.4	509.9	409.6	330.4
G22.0	212.4	220.5	271.2	345.4	442.7	537.9	562.7	462.5	362.9	293.9
G23.0	185.4	195.2	239.1	307.8	397.1	495.2	517.8	420.9	325.0	262.2
G24.0	159.5	170.7	210.1	268.3	354.3	446.3	470.4	379.3	285.5	229.3
G25.0	140.9	152.3	186.1	237.4	316.0	402.9	426.5	342.8	252.8	203.1
G26.0	124.8	135.4	164.7	208.9	280.3	361.0	384.5	310.1	224.8	179.8
G27.0	111.2	120.1	144.6	183.5	245.3	318.6	340.9	273.1	198.7	159.0
G28.0	100.7	107.7	129.1	162.9	215.8	284.5	305.6	242.7	177.6	143.1
G29.0	91.6	95.9	116.1	144.3	191.2	251.5	270.1	213.3	158.9	128.0
G30.0	83.2	87.2	103.2	128.6	166.7	222.0	241.0	187.3	144.1	114.1
G31.0	75.9	79.3	92.9	114.9	147.6	194.9	214.6	167.2	129.7	102.8
G32.0	69.8	72.7	83.8	102.6	129.1	169.9	185.7	147.7	115.5	93.2
G33.0	64.8	66.6	76.5	93.1	115.8	148.2	163.9	132.6	104.3	85.6
G34.0	60.9	62.1	70.4	84.3	104.0	130.7	144.9	119.3	94.7	79.0
G35.0	57.4	57.7	64.3	76.6	93.4	114.8	126.9	106.5	86.2	72.9
G36.0	54.6	54.3	59.8	70.3	85.1	102.4	113.9	96.3	79.3	68.0

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:

## 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	52.1	51.0	55.8	64.3	77.9	92.0	101.7	88.5	72.9	64.1
G38.0	49.5	48.5	52.1	59.4	71.1	84.0	92.3	81.3	67.7	60.5
G39.0	46.8	46.4	49.3	55.3	65.7	77.5	84.7	75.0	63.3	57.5
G40.0	43.8	44.1	46.4	51.6	60.5	71.3	77.5	68.7	59.4	54.2
G41.0	42.0	41.6	44.2	48.9	56.3	66.1	71.1	64.2	56.7	51.8
G42.0	40.9	39.7	42.0	46.3	53.1	61.7	65.9	60.2	54.4	49.2
G43.0	39.7	38.4	39.2	43.8	50.3	57.6	61.3	56.9	51.8	46.1
G44.0	38.8	37.4	37.6	41.8	47.9	54.5	57.9	54.3	49.2	43.6
G45.0	36.8	36.5	36.5	38.9	45.6	51.6	54.9	51.6	46.5	42.1
G46.0	35.4	35.2	35.5	37.3	43.5	49.0	52.5	49.3	44.0	40.8
G47.0	34.4	33.9	34.6	36.0	41.5	46.6	50.1	47.0	42.3	39.7
G48.0	33.5	33.0	33.3	34.9	39.2	44.1	47.3	43.9	41.0	38.3
G49.0	32.5	32.1	32.3	33.9	38.1	42.0	44.4	42.0	40.0	36.8
G50.0	31.3	31.3	31.4	32.9	37.0	40.3	42.5	40.8	38.8	35.7
G51.0	30.3	30.4	30.6	31.9	36.0	39.0	40.9	39.7	36.9	34.6
G52.0	29.3	29.5	29.8	31.2	34.8	37.8	39.7	38.8	35.7	33.7
G53.0	28.3	28.4	29.0	30.2	33.9	36.5	38.3	37.4	34.5	32.7
G54.0	27.1	27.5	28.2	29.5	32.6	35.3	37.0	35.9	33.6	31.5
G55.0	26.0	26.6	27.5	28.7	31.8	34.0	35.5	35.0	32.5	30.7
G56.0	24.9	25.5	26.5	27.9	30.7	32.9	34.2	33.8	31.4	29.5
G57.0	23.8	24.5	25.7	27.1	29.9	31.9	33.2	32.8	30.3	28.6
G58.0	22.7	23.5	24.8	26.3	29.0	30.9	32.2	31.7	29.3	27.6
G59.0	21.6	22.4	23.9	25.4	28.1	29.7	31.1	30.7	28.4	26.5
G60.0	20.5	21.3	22.9	24.5	27.2	28.8	29.9	29.6	27.4	25.3
G61.0	19.4	20.2	22.0	23.5	26.2	27.6	28.6	28.5	26.4	24.3
G62.0	18.0	19.2	20.9	22.6	25.1	26.6	27.6	27.4	25.3	23.1
G63.0	16.6	18.1	19.8	21.7	24.3	25.7	26.6	26.5	24.4	22.0
G64.0	14.9	16.7	18.9	20.7	23.2	24.8	25.5	25.3	23.3	20.8
G65.0	13.4	15.3	17.9	19.8	22.1	23.8	24.5	24.3	22.3	19.8
G66.0	11.8	13.9	17.0	18.8	21.2	22.9	23.6	23.3	21.2	18.7
G67.0	10.3	12.2	15.7	17.9	20.1	21.7	22.6	22.1	20.1	17.5
G68.0	9.1	10.8	14.5	16.9	19.2	20.8	21.7	21.0	19.1	16.3
G69.0	7.9	9.2	12.9	15.9	18.2	19.7	20.7	20.0	17.9	15.0
G70.0	7.2	8.2	11.4	14.9	17.2	18.8	19.7	18.9	16.8	13.6
G71.0	6.4	7.4	10.2	13.8	16.4	17.9	18.7	17.9	15.6	12.4
G72.0	5.7	6.6	8.6	12.3	15.3	16.9	17.6	16.8	14.2	11.0
G73.0	5.2	5.9	7.7	11.0	14.1	15.9	16.7	15.6	13.0	9.6

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 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	1006.6	1006.2	1007.2						
G1.0	998.6	994.4	991.5						
G2.0	986.0	976.5	971.3						
G3.0	969.3	956.4	948.4						
G4.0	950.2	935.0	923.9						
G5.0	927.6	910.7	895.8						
G6.0	899.9	873.4	858.9						
G7.0	868.6	837.2	821.8						
G8.0	830.2	794.0	781.2						
G9.0	790.4	749.9	735.8						
G10.0	749.2	707.6	697.8						
G11.0	701.4	665.6	651.8						
G12.0	656.4	627.3	609.9						
G13.0	615.8	586.9	569.2						
G14.0	569.8	538.8	520.3						
G15.0	527.4	492.8	475.6						
G16.0	480.2	449.3	432.5						
G17.0	439.5	404.6	386.6						
G18.0	400.6	366.2	347.0						
G19.0	356.2	327.8	307.2						
G20.0	317.1	294.0	273.8						
G21.0	280.8	261.6	243.8						
G22.0	245.0	228.9	212.4						
G23.0	215.2	200.6	185.4						
G24.0	188.3	172.6	159.5						
G25.0	166.6	151.7	140.9						
G26.0	147.5	133.4	124.8						
G27.0	130.3	117.8	111.2						
G28.0	116.9	106.3	100.7						
G29.0	104.4	97.0	91.6						
G30.0	95.6	88.4	83.2						
G31.0	88.3	81.1	75.9						
G32.0	80.3	73.6	69.8						
G33.0	73.9	68.4	64.8						
G34.0	68.3	64.0	60.9						
G35.0	63.6	60.3	57.4						
G36.0	60.0	57.4	54.6						

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	56.9	54.9	52.1						
G38.0	54.3	52.3	49.5						
G39.0	51.8	49.9	46.8						
G40.0	49.1	46.8	43.8						
G41.0	46.5	44.2	42.0						
G42.0	44.3	42.6	40.9						
G43.0	42.9	41.5	39.7						
G44.0	41.8	40.5	38.8						
G45.0	40.6	39.4	36.8						
G46.0	39.0	37.6	35.4						
G47.0	37.7	36.6	34.4						
G48.0	36.5	35.6	33.5						
G49.0	35.5	34.6	32.5						
G50.0	34.5	33.6	31.3						
G51.0	33.5	32.3	30.3						
G52.0	32.5	31.4	29.3						
G53.0	31.4	30.2	28.3						
G54.0	30.4	29.0	27.1						
G55.0	29.4	27.9	26.0						
G56.0	28.3	26.7	24.9						
G57.0	27.2	25.6	23.8						
G58.0	26.1	24.4	22.7						
G59.0	24.9	23.1	21.6						
G60.0	23.8	22.0	20.5						
G61.0	22.5	20.8	19.4						
G62.0	21.3	19.5	18.0						
G63.0	20.2	18.3	16.6						
G64.0	18.9	16.7	14.9						
G65.0	17.6	15.3	13.4						
G66.0	16.2	13.9	11.8						
G67.0	14.8	12.3	10.3						
G68.0	13.5	10.9	9.1						
G69.0	12.0	9.5	7.9						
G70.0	10.6	8.3	7.2						
G71.0	9.4	7.4	6.4						
G72.0	8.1	6.6	5.7						
G73.0	7.1	5.9	5.2						

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:

