

Report No.:

Test Time: 2020-08-04 09:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MLS0140W24V40KHDB77

Voltage: 13.8 V

Current: 3.304 A

Power: 38.90 W

Power Factor: 0.849

Volt Amps: 45.82 VA

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3922.6 lm

Measurement Flux: 3922.6 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Horizontal Diffuse Angle(10%,50%,75%,100%): H147.8,H84.5,H62.2,H4

Vertical Diffuse Angle(10%,50%,75%,100%): V153.2,V108.2,V73.3,V1

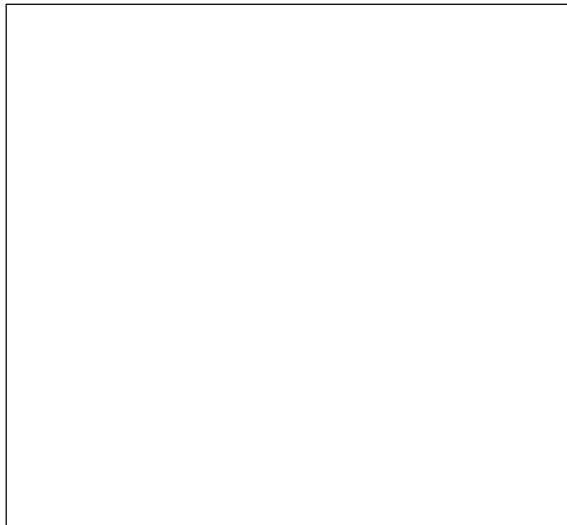
Luminaire Efficacy Rating (LER): 101

Central Intensity: 1714.23 cd

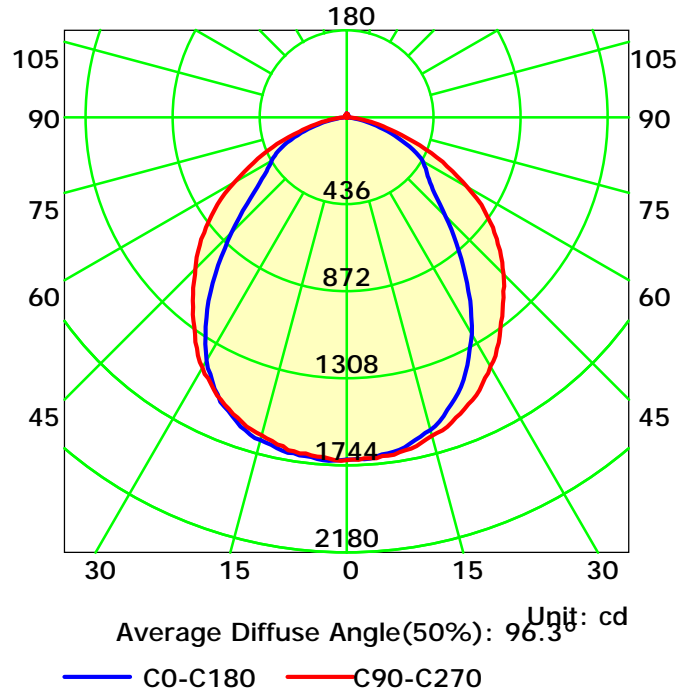
Max. Intensity: 1723.5 cd

Pos of Max. Intensity: H180 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0: 1.0

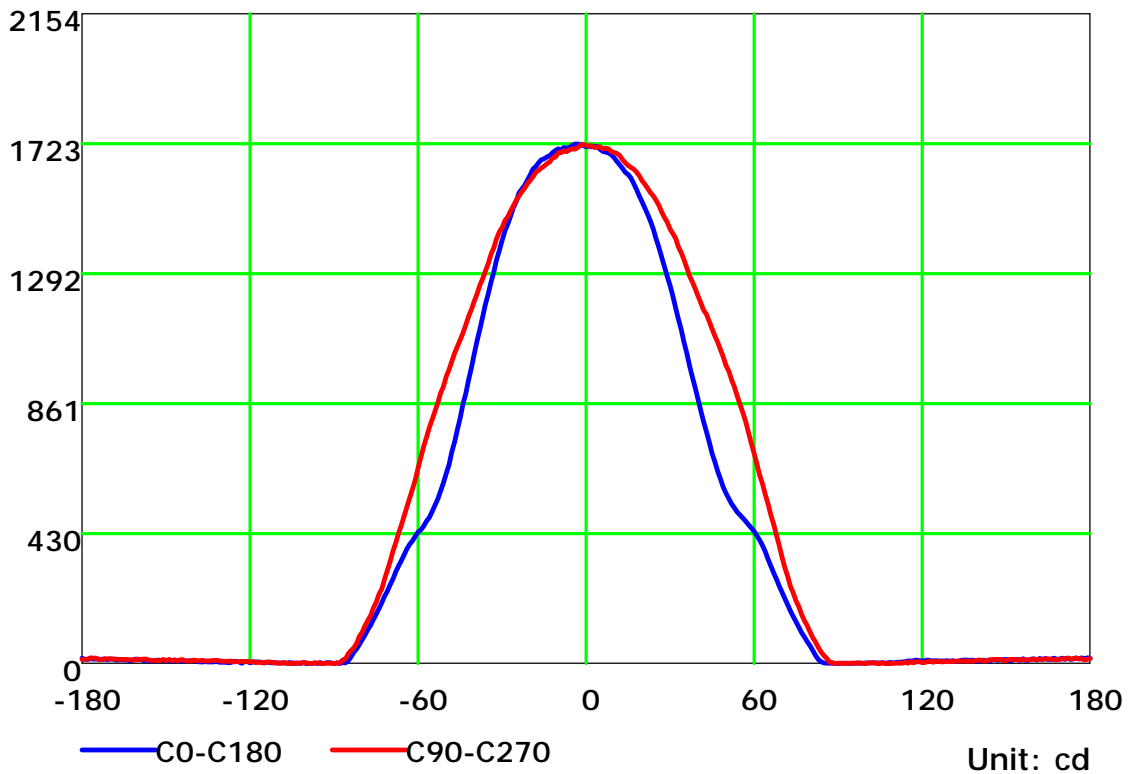
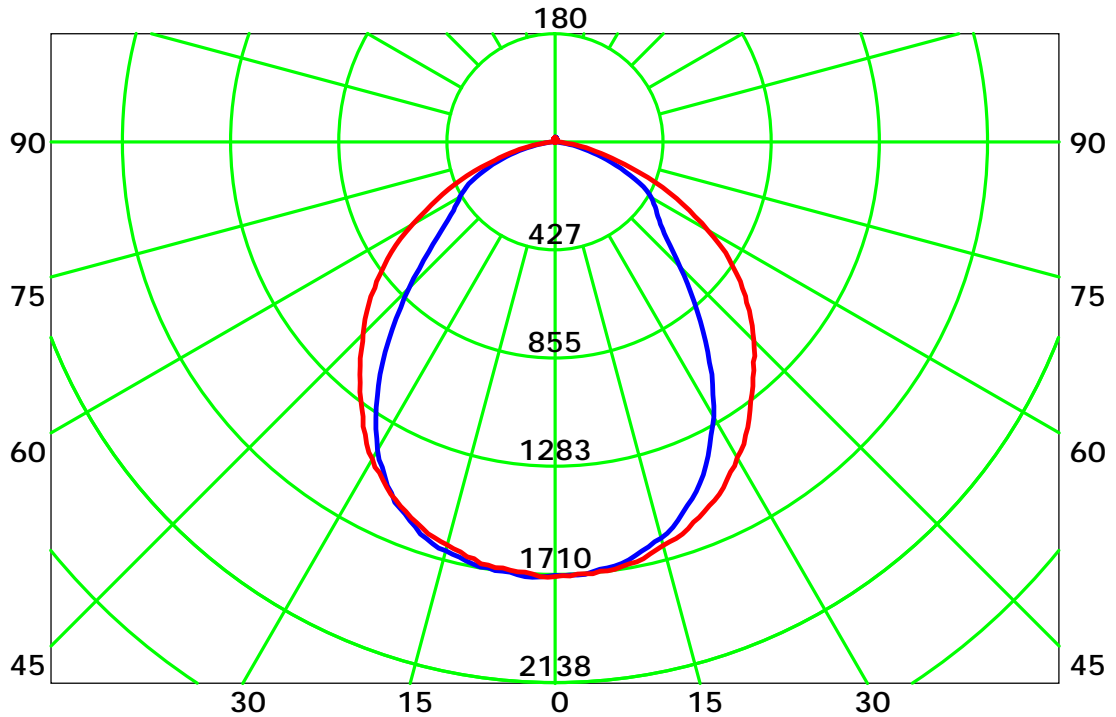
Test Device: GPM-1600

Distance: 8.177 m

Humidity:

Inspector:

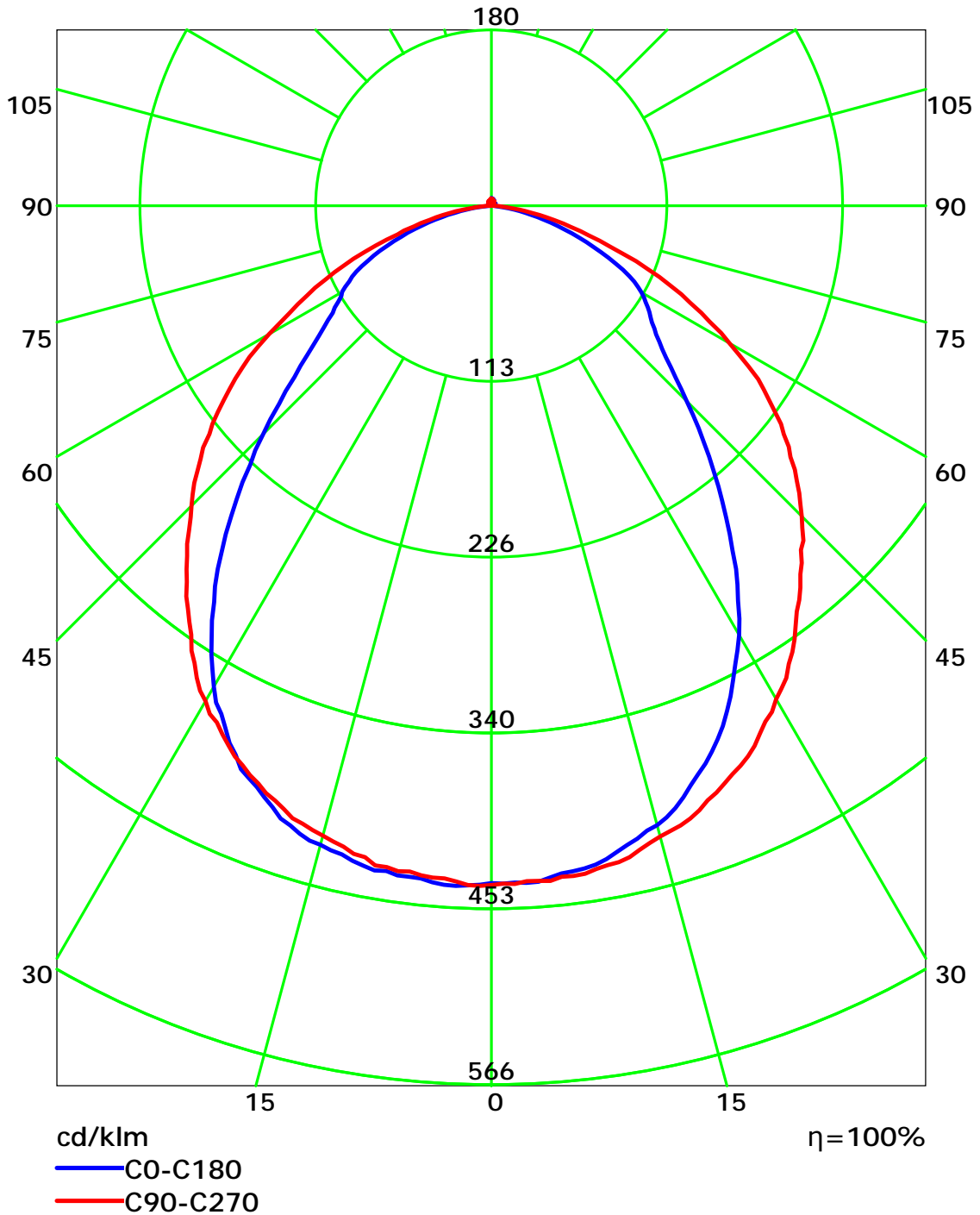
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



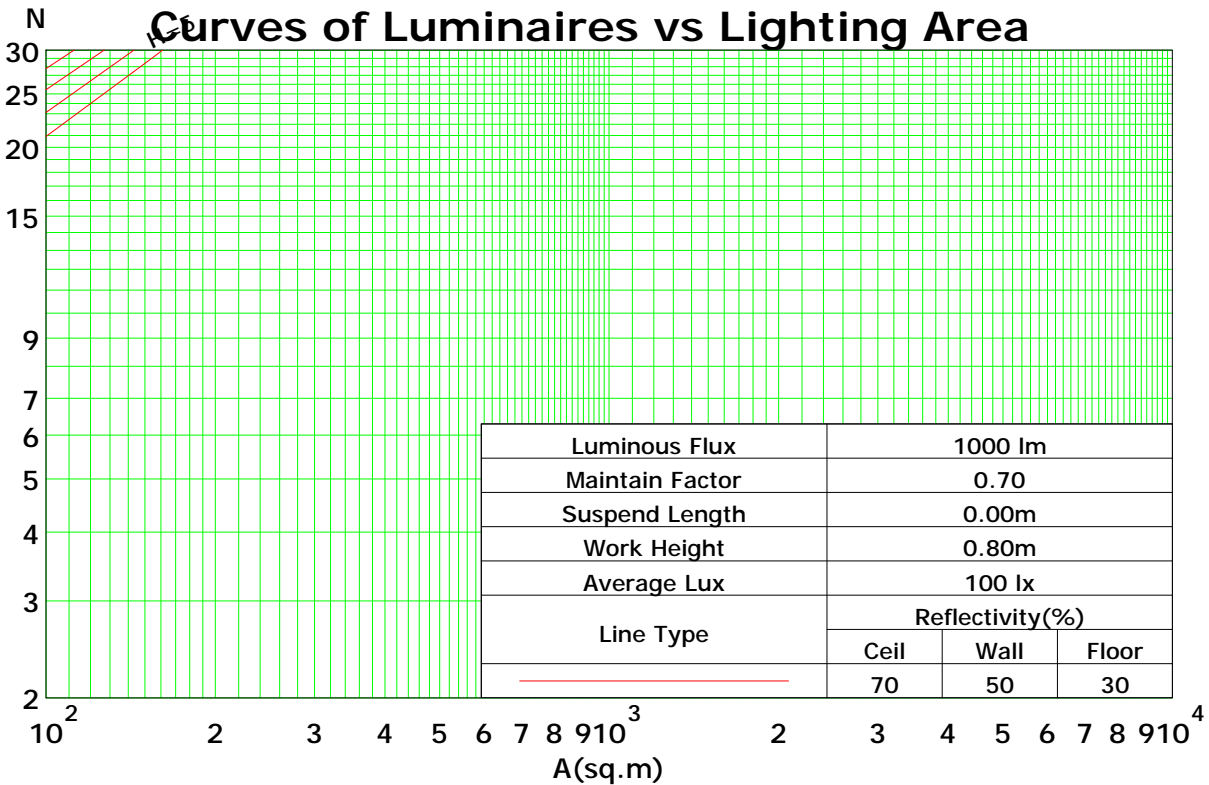
C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	101	101	101	99
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	90	88	86
2	101	94	88	82	98	92	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	65	63
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	50	48
6	73	61	53	47	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

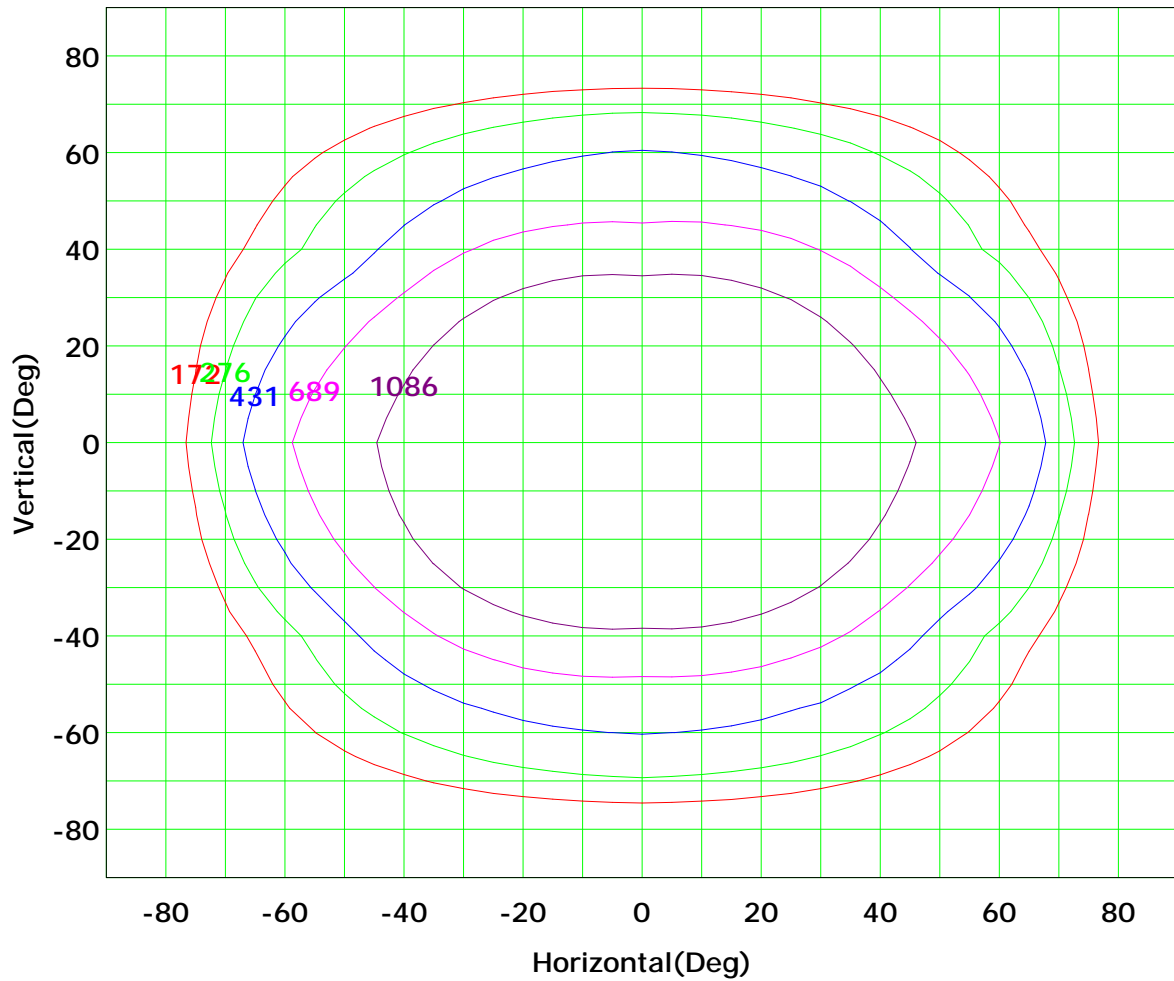
Spacing Criteria (0-180): 1.16
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.26



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Isocandela (rectangle)



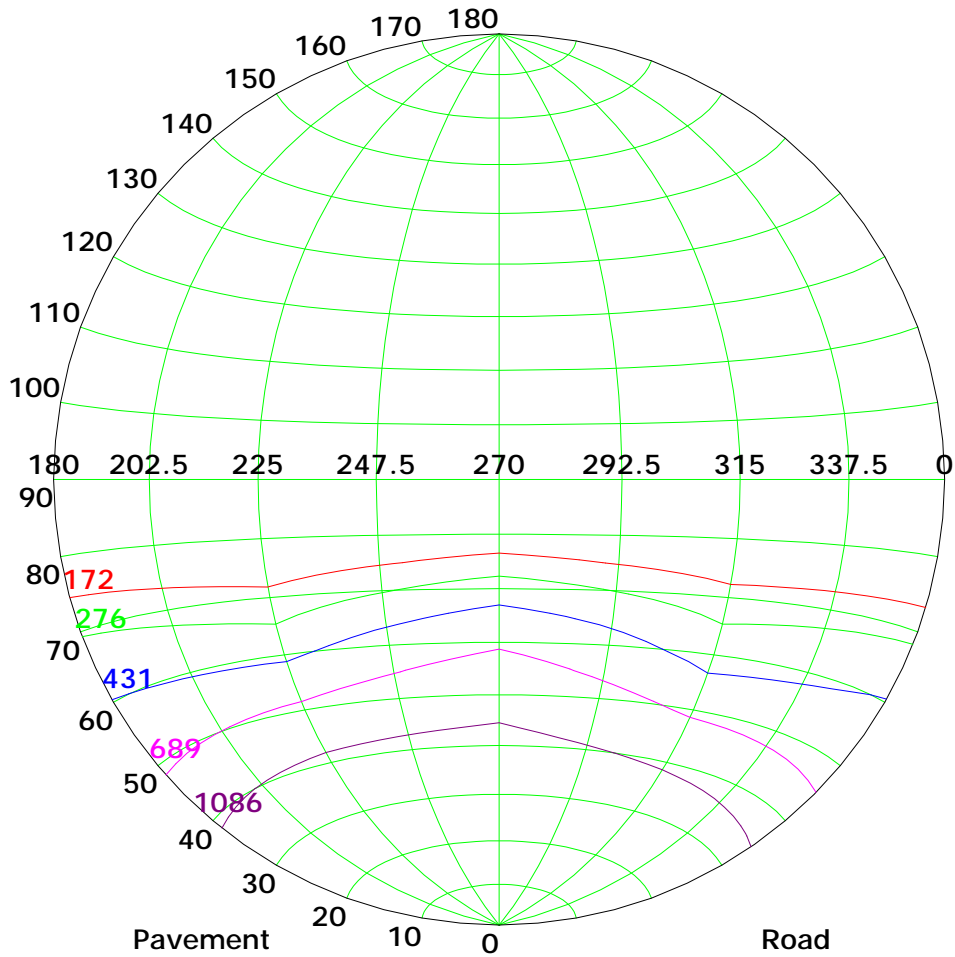
I_{max} (100%): 1724 cd

— (10%): 172 cd	— (16%): 276 cd
— (25%): 431 cd	— (40%): 689 cd
— (63%): 1086 cd	— (100%): 1724 cd

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600
Distance: 8.177 m
Humidity:
Inspector:

Isocandela (sphere)



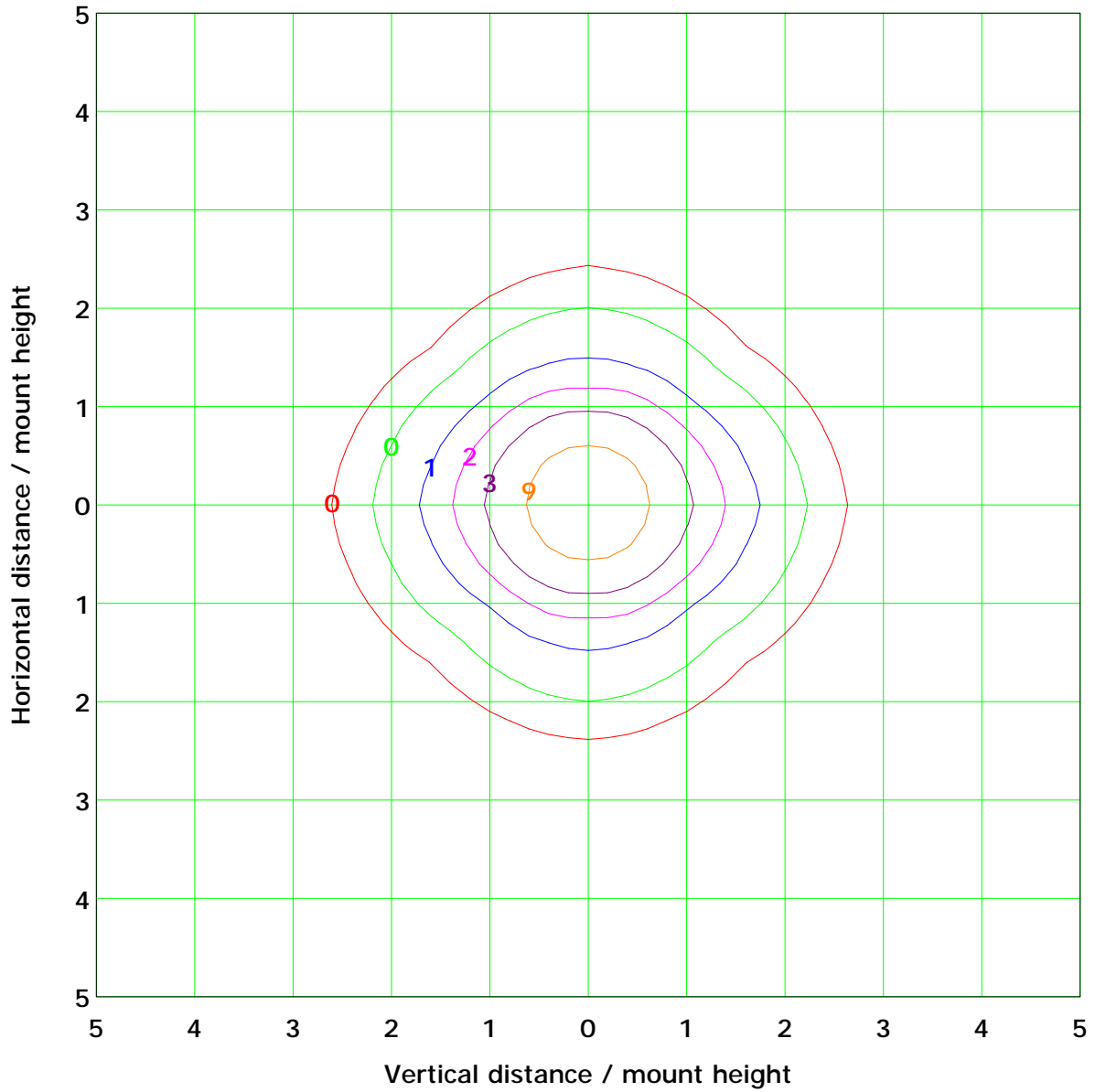
Imax (100%): 1724 cd

— (10%): 172 cd	— (16%): 276 cd
— (25%): 431 cd	— (40%): 689 cd
— (63%): 1086 cd	— (100%): 1724 cd

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600
Distance: 8.177 m
Humidity:
Inspector:

IsoLux Plot



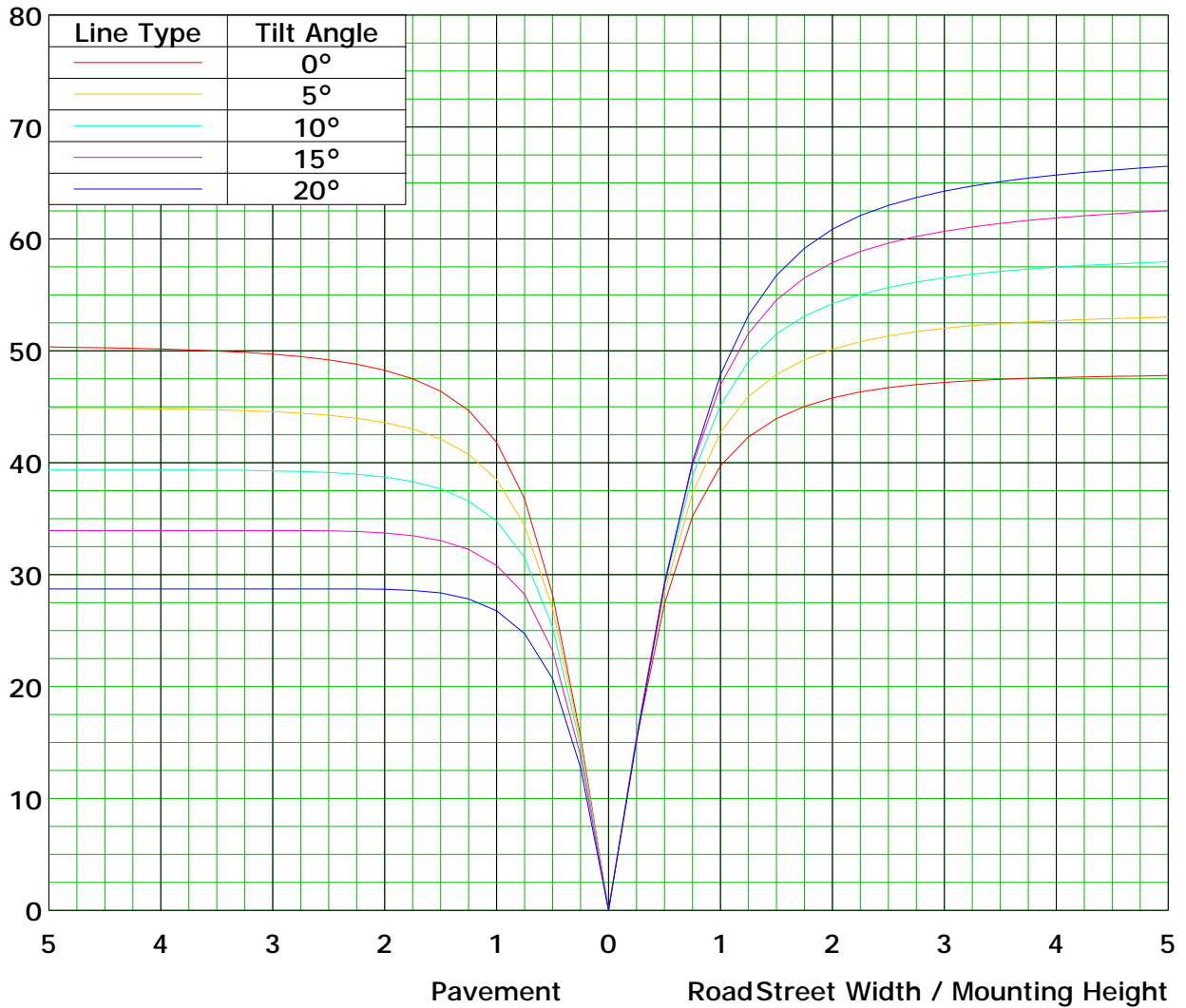
Mounting Height: 10.0m		Max Lux(100%): 17.2 lx	
<ul style="list-style-type: none"> — (1%): 0.2 lx — (5%): 0.9 lx — (20%): 3.4 lx — (100%): 17.2 lx 	<ul style="list-style-type: none"> — (2%): 0.3 lx — (10%): 1.7 lx — (50%): 8.6 lx 		

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Roadway CU Curve

Efficiency(%)



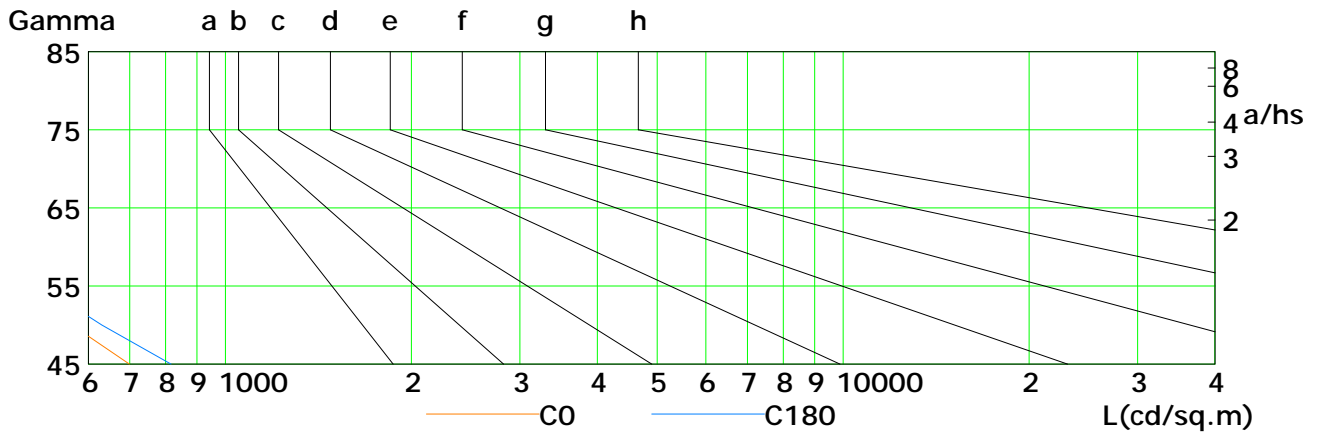
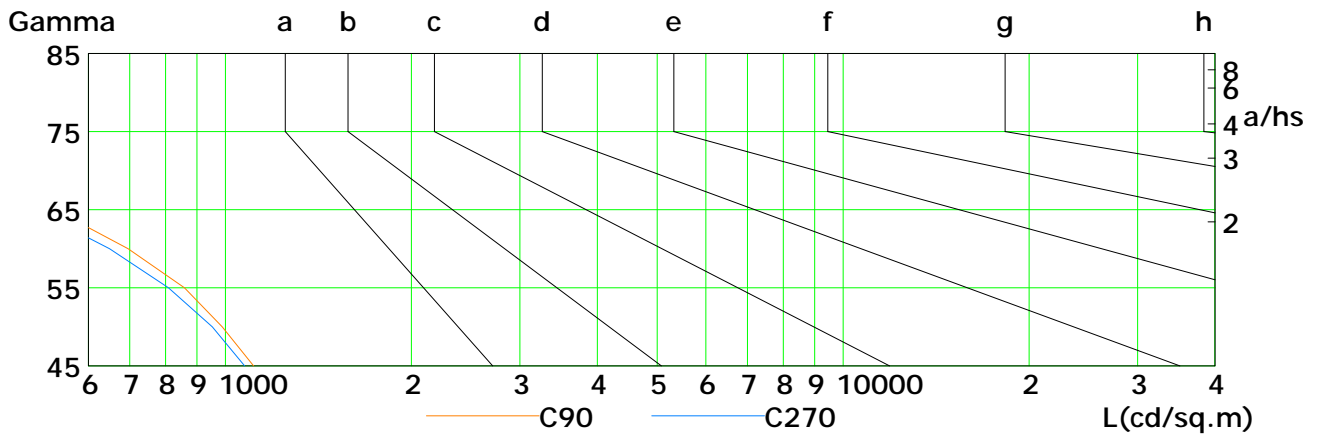
C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

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

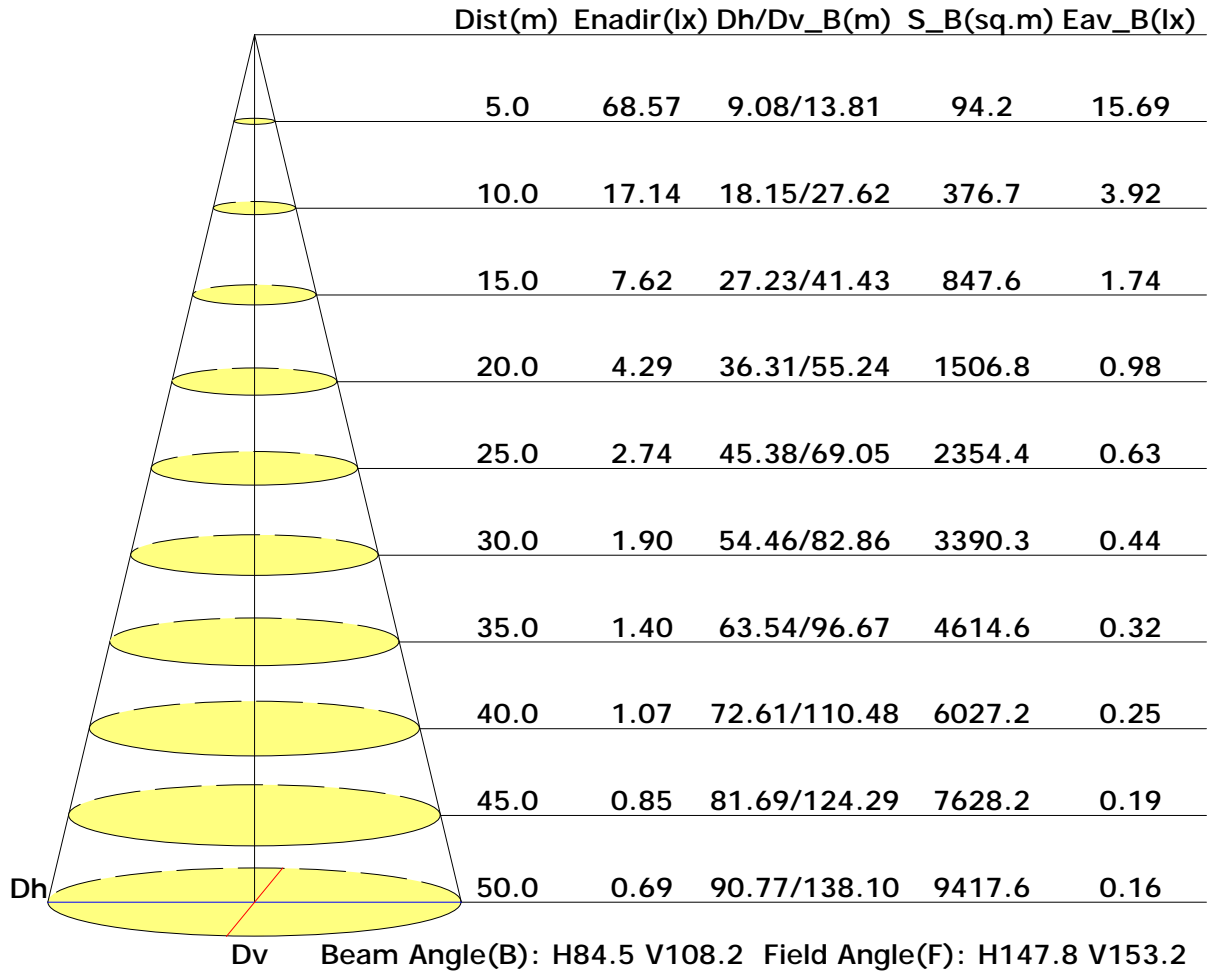


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	699	565	493	439	348	237	138	59	3
C90	1112	989	859	696	531	354	207	105	27
C180	817	631	505	436	362	263	164	79	10
C270	1074	953	809	649	492	340	204	104	33

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

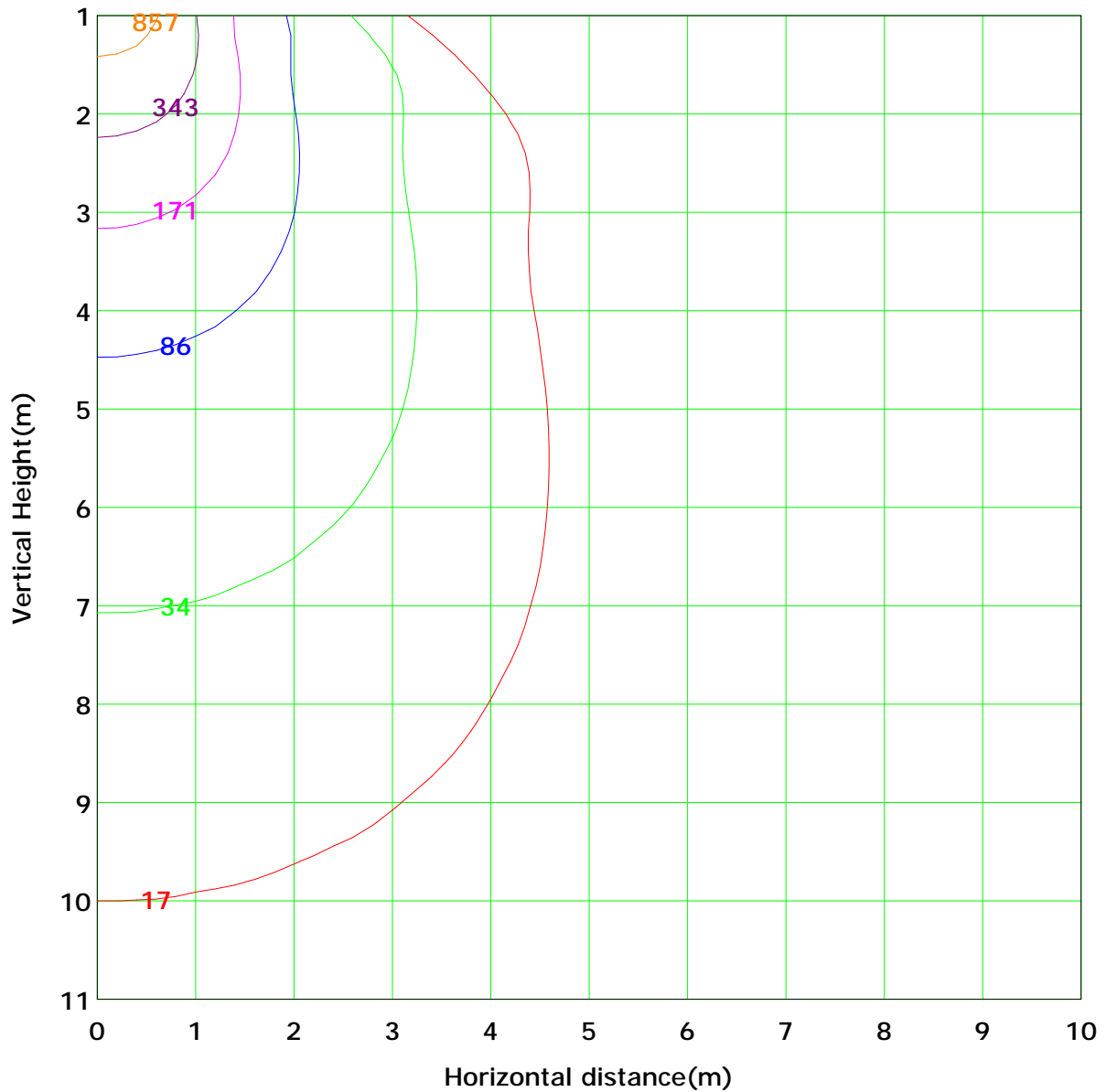
Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1714.2 lx

— (1%): 17.1 lx	— (2%): 34.3 lx
— (5%): 85.7 lx	— (10%): 171.4 lx
— (20%): 342.8 lx	— (50%): 857.1 lx
— (100%): 1714.2 lx	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Area Flux Table

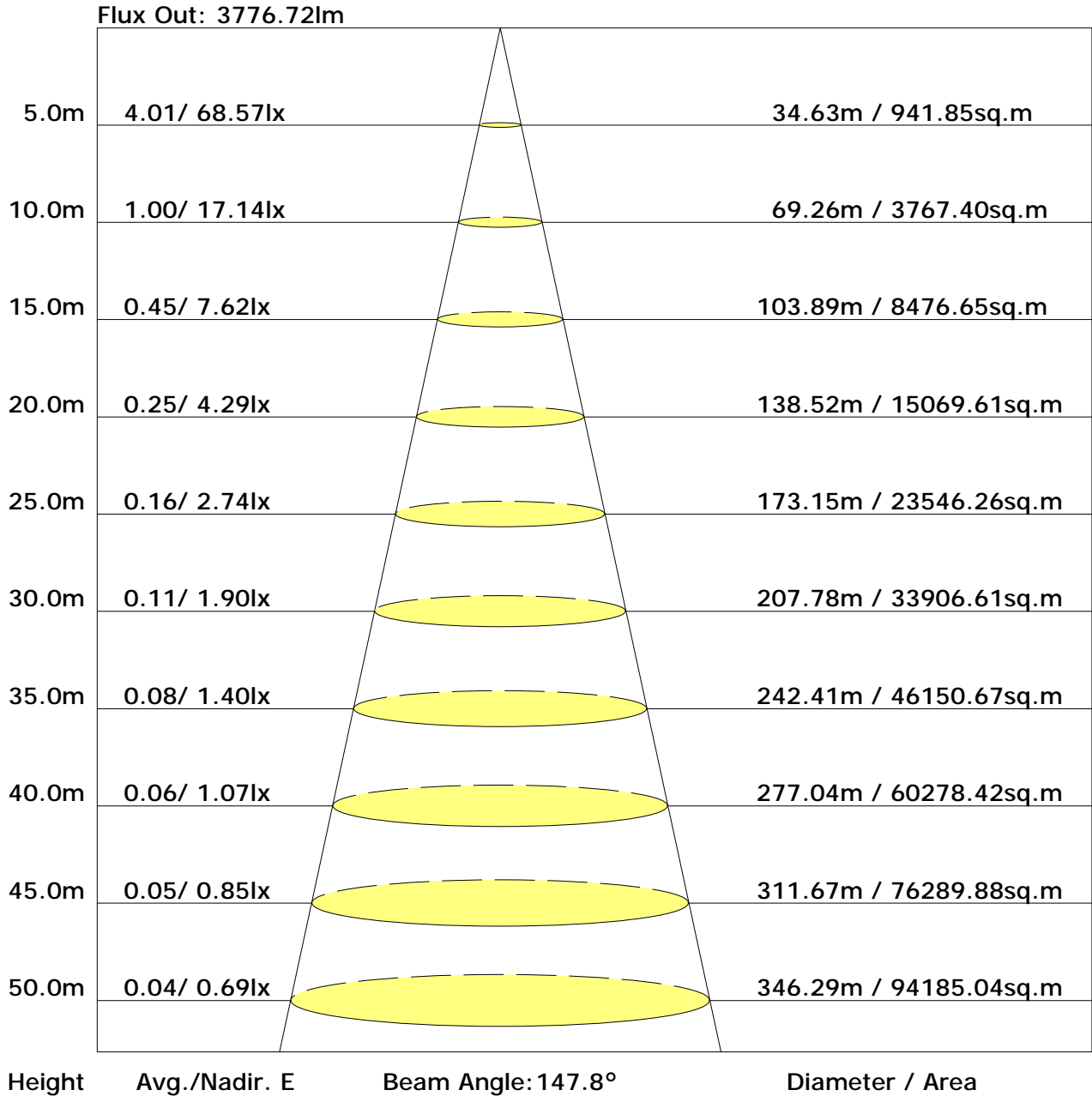
Unit: lx

-90.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.8	0.0
-80.0	0.0	0.1	0.2	0.5	0.7	0.9	1.1	1.3	1.4	1.4	1.3	1.1	0.9	0.7	0.5	0.2	0.1	0.0	0.0	12.4	4.4
-70.0	0.0	0.4	1.0	1.7	2.5	3.2	3.8	4.3	4.6	4.6	4.3	3.9	3.2	2.5	1.7	1.0	0.4	0.0	0.0	43.2	36.1
-60.0	0.1	1.0	2.2	3.6	5.2	6.7	7.9	8.7	9.0	9.0	8.6	7.8	6.6	5.2	3.7	2.2	0.9	0.1	0.0	88.5	81.5
-50.0	0.3	1.7	3.5	5.9	8.8	12.0	14.9	17.0	17.9	17.8	16.9	14.7	11.8	8.7	6.0	3.6	1.6	0.2	0.0	163.2	155.8
-40.0	0.5	2.7	5.7	9.3	14.4	20.5	25.8	29.2	30.6	30.5	29.0	25.4	20.1	14.1	9.4	5.8	2.7	0.4	0.0	276.2	2269.3
-30.0	0.7	3.9	8.5	14.5	21.9	30.0	36.5	40.2	41.9	41.9	40.1	36.1	29.5	21.8	14.8	8.9	3.9	0.6	0.0	395.5	389.4
-20.0	0.9	5.1	11.5	19.5	28.1	36.6	43.2	47.0	48.8	48.8	47.0	43.1	36.5	28.4	20.2	12.2	5.1	0.9	0.0	482.8	477.2
-10.0	1.1	6.1	14.0	23.3	31.8	39.9	46.3	49.9	51.7	51.7	50.0	46.2	40.0	32.6	24.5	15.0	6.2	1.0	0.0	531.1	525.8
0.00	1.1	6.1	14.0	22.9	31.2	39.2	45.7	49.5	51.3	51.4	49.6	45.7	39.5	32.2	24.3	15.0	6.2	1.0	0.0	525.8	520.5
10.0	0.9	5.1	11.5	18.7	26.5	34.6	41.3	45.5	47.3	47.3	45.5	41.4	34.9	27.3	19.7	12.1	5.2	0.9	0.0	465.7	460.1
20.0	0.7	3.9	8.6	13.6	19.7	26.8	33.2	37.2	38.8	38.8	37.3	33.4	27.2	20.5	14.3	8.9	3.9	0.7	0.0	367.4	361.3
30.0	0.5	2.7	5.8	8.9	12.5	17.6	22.5	25.7	26.8	26.9	25.8	22.8	18.1	13.0	9.1	5.8	2.7	0.4	0.0	247.7	240.9
40.0	0.3	1.7	3.6	5.9	8.1	10.6	13.0	14.8	15.4	15.5	14.9	13.3	10.9	8.3	5.8	3.6	1.7	0.3	0.0	147.8	140.5
50.0	0.1	0.9	2.1	3.6	5.1	6.4	7.5	8.3	8.6	8.7	8.3	7.6	6.5	5.1	3.5	2.1	0.9	0.1	0.0	85.4	78.2
60.0	0.0	0.3	0.9	1.6	2.3	3.0	3.7	4.1	4.4	4.4	4.1	3.7	3.0	2.3	1.6	0.9	0.3	0.0	0.0	40.8	33.4
70.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	10.4	2.6
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
90.0	7.1	41.6	93.5	153.7	219.4	289.1	347.6	384.0	399.8	400.0	384.0	347.1	289.7	223.4	159.3	97.4	41.7	6.7	0.0	3885	
ΦE	0.0	18.2	82.7	149.0	216.7	287.1	346.1	382.7	398.6	398.8	382.7	345.6	287.8	220.6	154.6	86.7	19.1	0.0		3777	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
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UGR Table

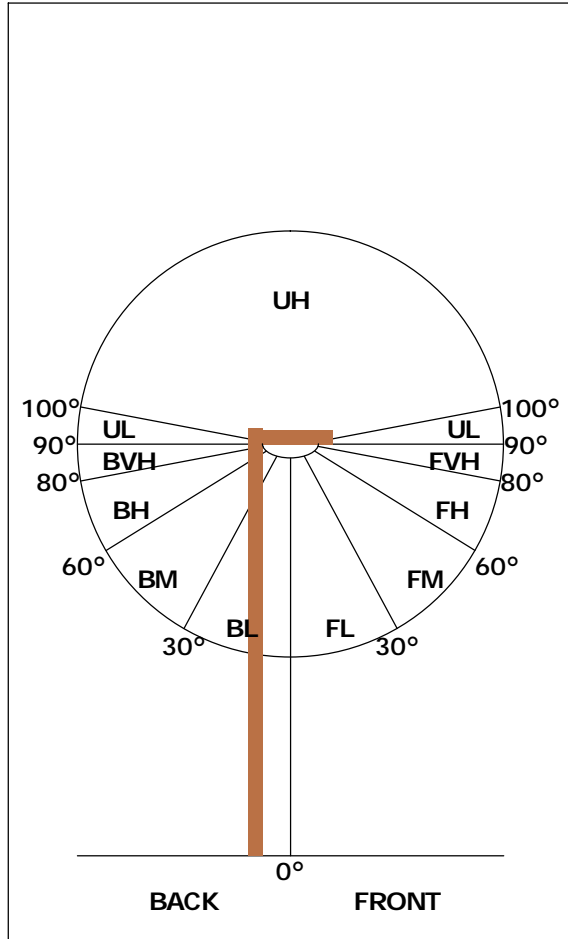
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	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: 45.0
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



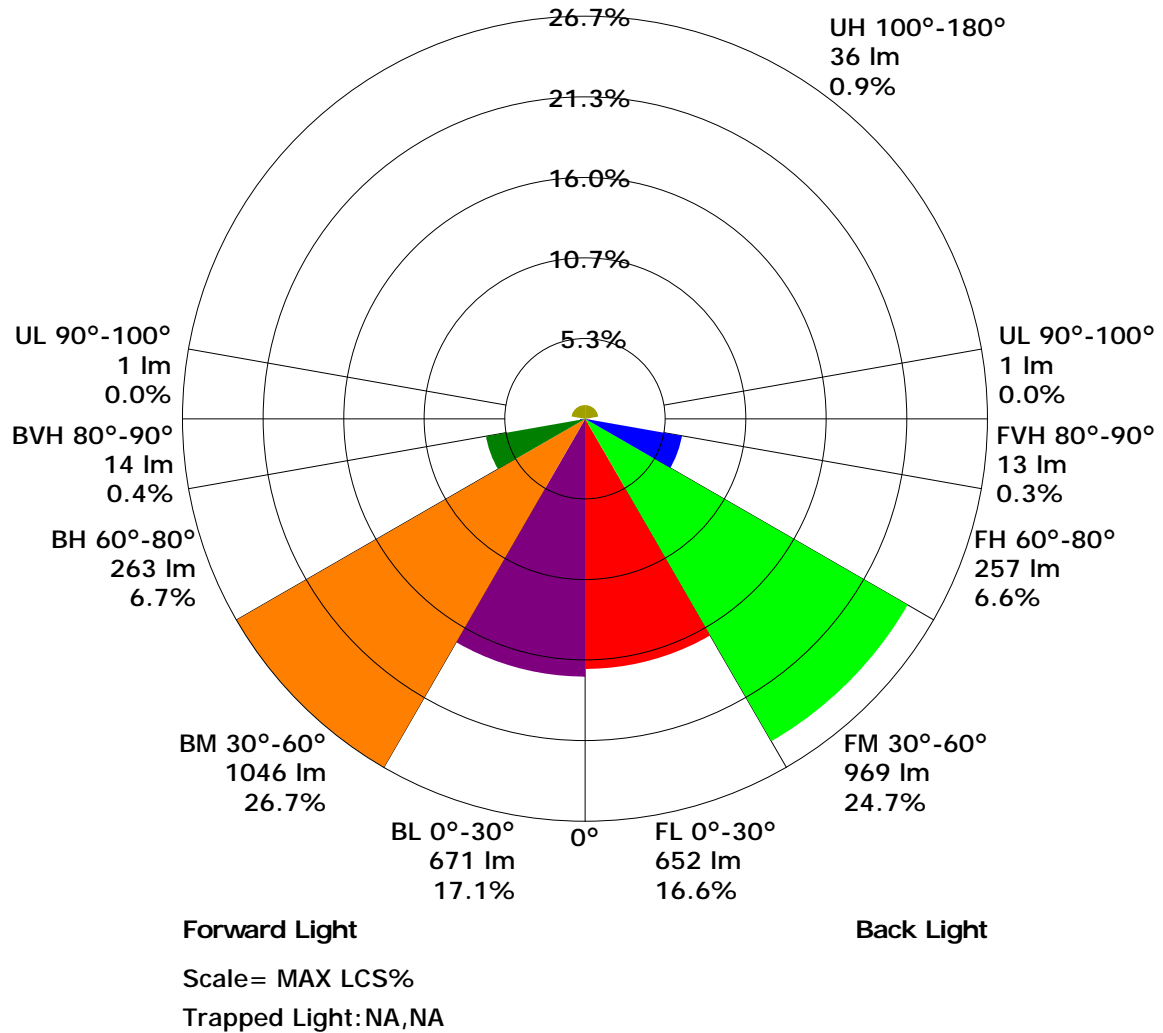
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1891	48.2
FL (0°-30°)	652	16.6
FM (30°-60°)	969	24.7
FH (60°-80°)	257	6.6
FVH (80°-90°)	13	0.3
BACK LIGHT	1994	50.8
BL (0°-30°)	671	17.1
BM (30°-60°)	1046	26.7
BH (60°-80°)	263	6.7
BVH (80°-90°)	14	0.4
UP LIGHT	37	0.9
UL (90°-100°)	1	0.0
UH (100°-180°)	36	0.9
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

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LCS Graph



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	0.63	0.73	0.80	0.85	0.91	0.96	0.99	1.03	1.05
	0.30		0.56	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02
	0.20		0.51	0.61	0.68	0.74	0.81	0.87	0.91	0.96	1.00
0.50	0.50	0.20	0.61	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01
	0.30		0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.98
	0.20		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96
0.30	0.50	0.20	0.60	0.69	0.75	0.79	0.85	0.89	0.92	0.95	0.97
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95
	0.20		0.50	0.60	0.66	0.71	0.78	0.83	0.86	0.90	0.93
0.00	0.00	0.00	0.48	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.88
<p>Rating: 39W 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: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	0.90	0.73	0.62	0.53	0.42	0.35	0.29	0.23	0.18	
	0.30		0.75	0.62	0.54	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		0.64	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17	
0.50	0.50	0.20	0.86	0.70	0.59	0.51	0.40	0.36	0.28	0.21	0.17	
	0.30		0.73	0.61	0.52	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.63	0.54	0.46	0.41	0.34	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.83	0.67	0.56	0.48	0.38	0.31	0.26	0.20	0.16	
	0.30		0.71	0.59	0.50	0.44	0.35	0.29	0.25	0.19	0.16	
	0.20		0.62	0.53	0.45	0.40	0.33	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.51	0.42	0.36	0.31	0.25	0.20	0.17	0.13	0.11	
<p>Rating: 39W 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: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<p>Rating: 39W 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: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	1718.0	1.6	1.6	0.04	0.04
1.0-2.0	1717.6	4.9	6.6	0.13	0.17
2.0-3.0	1716.1	8.2	14.8	0.21	0.38
3.0-4.0	1714.0	11.5	26.3	0.29	0.67
4.0-5.0	1712.2	14.7	41.0	0.38	1.04
5.0-6.0	1709.1	18.0	59.0	0.46	1.50
6.0-7.0	1706.2	21.2	80.1	0.54	2.04
7.0-8.0	1703.7	24.4	104.5	0.62	2.66
8.0-9.0	1699.7	27.6	132.1	0.70	3.37
9.0-10.0	1695.8	30.7	162.8	0.78	4.15
10.0-11.0	1689.3	33.8	196.5	0.86	5.01
11.0-12.0	1681.0	36.8	233.3	0.94	5.95
12.0-13.0	1672.6	39.7	273.0	1.01	6.96
13.0-14.0	1663.0	42.6	315.5	1.09	8.04
14.0-15.0	1655.1	45.4	361.0	1.16	9.20
15.0-16.0	1648.0	48.3	409.3	1.23	10.43
16.0-17.0	1639.0	51.0	460.3	1.30	11.74
17.0-18.0	1628.5	53.7	514.0	1.37	13.10
18.0-19.0	1615.0	56.2	570.2	1.43	14.54
19.0-20.0	1599.4	58.5	628.8	1.49	16.03
20.0-21.0	1585.3	60.9	689.7	1.55	17.58
21.0-22.0	1570.7	63.1	752.8	1.61	19.19
22.0-23.0	1554.8	65.2	818.0	1.66	20.85
23.0-24.0	1539.7	67.3	885.4	1.72	22.57
24.0-25.0	1522.0	69.2	954.6	1.76	24.33
25.0-26.0	1501.1	70.9	1025.4	1.81	26.14
26.0-27.0	1479.5	72.4	1097.8	1.85	27.99
27.0-28.0	1456.9	73.8	1171.6	1.88	29.87
28.0-29.0	1435.3	75.1	1246.7	1.91	31.78
29.0-30.0	1412.6	76.3	1323.0	1.94	33.73
30.0-31.0	1386.6	77.2	1400.2	1.97	35.69
31.0-32.0	1359.9	77.9	1478.1	1.99	37.68
32.0-33.0	1330.9	78.4	1556.5	2.00	39.68
33.0-34.0	1301.3	78.8	1635.2	2.01	41.69
34.0-35.0	1271.0	78.9	1714.2	2.01	43.70
35.0-36.0	1238.8	78.9	1793.1	2.01	45.71

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	1206.6	78.7	1871.8	2.01	47.72
37.0-38.0	1173.8	78.4	1950.1	2.00	49.72
38.0-39.0	1140.1	77.8	2028.0	1.98	51.70
39.0-40.0	1104.7	77.1	2105.0	1.96	53.66
40.0-41.0	1069.8	76.2	2181.2	1.94	55.61
41.0-42.0	1034.8	75.2	2256.4	1.92	57.52
42.0-43.0	999.1	74.0	2330.4	1.89	59.41
43.0-44.0	964.0	72.8	2403.2	1.86	61.27
44.0-45.0	928.4	71.4	2474.6	1.82	63.08
45.0-46.0	893.0	69.8	2544.4	1.78	64.86
46.0-47.0	858.3	68.3	2612.7	1.74	66.61
47.0-48.0	823.4	66.6	2679.3	1.70	68.30
48.0-49.0	789.0	64.8	2744.1	1.65	69.95
49.0-50.0	755.4	63.0	2807.0	1.61	71.56
50.0-51.0	722.7	61.2	2868.2	1.56	73.12
51.0-52.0	691.1	59.3	2927.5	1.51	74.63
52.0-53.0	661.0	57.5	2985.0	1.47	76.10
53.0-54.0	632.3	55.7	3040.7	1.42	77.52
54.0-55.0	603.8	53.9	3094.7	1.37	78.89
55.0-56.0	576.9	52.1	3146.8	1.33	80.22
56.0-57.0	551.8	50.5	3197.3	1.29	81.51
57.0-58.0	526.6	48.7	3246.0	1.24	82.75
58.0-59.0	501.1	46.9	3292.8	1.19	83.94
59.0-60.0	477.4	45.1	3337.9	1.15	85.09
60.0-61.0	454.9	43.4	3381.3	1.11	86.20
61.0-62.0	432.5	41.7	3423.0	1.06	87.26
62.0-63.0	410.7	40.0	3463.0	1.02	88.28
63.0-64.0	389.5	38.2	3501.2	0.97	89.26
64.0-65.0	368.6	36.5	3537.7	0.93	90.19
65.0-66.0	347.1	34.6	3572.3	0.88	91.07
66.0-67.0	325.0	32.7	3605.0	0.83	91.90
67.0-68.0	303.1	30.7	3635.7	0.78	92.69
68.0-69.0	282.4	28.8	3664.5	0.73	93.42
69.0-70.0	261.4	26.9	3691.4	0.68	94.10
70.0-71.0	239.3	24.7	3716.1	0.63	94.74
71.0-72.0	218.8	22.8	3738.9	0.58	95.32

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 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	199.3	20.8	3759.7	0.53	95.85
73.0-74.0	181.1	19.0	3778.8	0.49	96.33
74.0-75.0	163.6	17.3	3796.1	0.44	96.77
75.0-76.0	146.6	15.6	3811.6	0.40	97.17
76.0-77.0	130.1	13.9	3825.5	0.35	97.52
77.0-78.0	114.3	12.2	3837.7	0.31	97.84
78.0-79.0	100.4	10.8	3848.5	0.27	98.11
79.0-80.0	85.6	9.2	3857.7	0.24	98.35
80.0-81.0	71.5	7.7	3865.5	0.20	98.54
81.0-82.0	58.1	6.3	3871.8	0.16	98.70
82.0-83.0	44.8	4.9	3876.6	0.12	98.83
83.0-84.0	33.1	3.6	3880.3	0.09	98.92
84.0-85.0	22.8	2.5	3882.7	0.06	98.98
85.0-86.0	13.2	1.4	3884.2	0.04	99.02
86.0-87.0	6.4	0.7	3884.9	0.02	99.04
87.0-88.0	3.1	0.3	3885.2	0.01	99.05
88.0-89.0	1.6	0.2	3885.4	0.00	99.05
89.0-90.0	1.0	0.1	3885.5	0.00	99.05
90.0-91.0	0.9	0.1	3885.6	0.00	99.06
91.0-92.0	1.1	0.1	3885.7	0.00	99.06
92.0-93.0	1.2	0.1	3885.9	0.00	99.06
93.0-94.0	0.9	0.1	3886.0	0.00	99.06
94.0-95.0	0.9	0.1	3886.0	0.00	99.07
95.0-96.0	1.1	0.1	3886.2	0.00	99.07
96.0-97.0	1.4	0.2	3886.3	0.00	99.07
97.0-98.0	1.3	0.1	3886.5	0.00	99.08
98.0-99.0	0.8	0.1	3886.5	0.00	99.08
99.0-100.0	0.9	0.1	3886.6	0.00	99.08
100.0-101.0	1.8	0.2	3886.8	0.00	99.09
101.0-102.0	2.0	0.2	3887.0	0.01	99.09
102.0-103.0	1.6	0.2	3887.2	0.00	99.10
103.0-104.0	1.3	0.1	3887.4	0.00	99.10
104.0-105.0	1.3	0.1	3887.5	0.00	99.10
105.0-106.0	1.6	0.2	3887.7	0.00	99.11
106.0-107.0	1.3	0.1	3887.8	0.00	99.11
107.0-108.0	1.8	0.2	3888.0	0.00	99.12

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	2.4	0.2	3888.2	0.01	99.12
109.0-110.0	2.0	0.2	3888.4	0.01	99.13
110.0-111.0	2.2	0.2	3888.7	0.01	99.13
111.0-112.0	3.1	0.3	3889.0	0.01	99.14
112.0-113.0	3.4	0.3	3889.3	0.01	99.15
113.0-114.0	4.0	0.4	3889.7	0.01	99.16
114.0-115.0	4.1	0.4	3890.1	0.01	99.17
115.0-116.0	4.1	0.4	3890.5	0.01	99.18
116.0-117.0	4.7	0.5	3891.0	0.01	99.19
117.0-118.0	5.1	0.5	3891.5	0.01	99.21
118.0-119.0	5.6	0.5	3892.0	0.01	99.22
119.0-120.0	5.4	0.5	3892.5	0.01	99.23
120.0-121.0	5.1	0.5	3893.0	0.01	99.25
121.0-122.0	5.8	0.5	3893.6	0.01	99.26
122.0-123.0	5.9	0.5	3894.1	0.01	99.27
123.0-124.0	5.6	0.5	3894.6	0.01	99.29
124.0-125.0	5.8	0.5	3895.2	0.01	99.30
125.0-126.0	6.0	0.5	3895.7	0.01	99.31
126.0-127.0	6.2	0.5	3896.2	0.01	99.33
127.0-128.0	6.4	0.6	3896.8	0.01	99.34
128.0-129.0	6.5	0.6	3897.4	0.01	99.36
129.0-130.0	7.0	0.6	3897.9	0.02	99.37
130.0-131.0	7.6	0.6	3898.6	0.02	99.39
131.0-132.0	8.3	0.7	3899.3	0.02	99.40
132.0-133.0	8.4	0.7	3899.9	0.02	99.42
133.0-134.0	7.9	0.6	3900.6	0.02	99.44
134.0-135.0	8.3	0.6	3901.2	0.02	99.45
135.0-136.0	8.8	0.7	3901.9	0.02	99.47
136.0-137.0	8.8	0.7	3902.5	0.02	99.49
137.0-138.0	8.7	0.6	3903.2	0.02	99.50
138.0-139.0	8.6	0.6	3903.8	0.02	99.52
139.0-140.0	9.1	0.6	3904.5	0.02	99.54
140.0-141.0	9.6	0.7	3905.1	0.02	99.55
141.0-142.0	9.6	0.7	3905.8	0.02	99.57
142.0-143.0	9.2	0.6	3906.4	0.02	99.59
143.0-144.0	10.0	0.7	3907.1	0.02	99.60

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	10.6	0.7	3907.7	0.02	99.62
145.0-146.0	11.0	0.7	3908.4	0.02	99.64
146.0-147.0	11.5	0.7	3909.1	0.02	99.66
147.0-148.0	11.4	0.7	3909.8	0.02	99.67
148.0-149.0	11.6	0.7	3910.4	0.02	99.69
149.0-150.0	12.0	0.7	3911.1	0.02	99.71
150.0-151.0	12.0	0.6	3911.8	0.02	99.72
151.0-152.0	11.5	0.6	3912.4	0.02	99.74
152.0-153.0	11.7	0.6	3912.9	0.02	99.75
153.0-154.0	12.1	0.6	3913.5	0.02	99.77
154.0-155.0	12.5	0.6	3914.1	0.01	99.78
155.0-156.0	12.9	0.6	3914.7	0.01	99.80
156.0-157.0	12.8	0.6	3915.3	0.01	99.81
157.0-158.0	13.1	0.6	3915.8	0.01	99.83
158.0-159.0	13.9	0.6	3916.4	0.01	99.84
159.0-160.0	14.4	0.6	3916.9	0.01	99.85
160.0-161.0	14.1	0.5	3917.5	0.01	99.87
161.0-162.0	14.2	0.5	3918.0	0.01	99.88
162.0-163.0	14.5	0.5	3918.4	0.01	99.89
163.0-164.0	14.5	0.5	3918.9	0.01	99.90
164.0-165.0	15.0	0.4	3919.3	0.01	99.92
165.0-166.0	14.9	0.4	3919.7	0.01	99.93
166.0-167.0	14.9	0.4	3920.1	0.01	99.94
167.0-168.0	14.8	0.4	3920.5	0.01	99.94
168.0-169.0	15.2	0.3	3920.8	0.01	99.95
169.0-170.0	15.8	0.3	3921.1	0.01	99.96
170.0-171.0	15.8	0.3	3921.4	0.01	99.97
171.0-172.0	16.2	0.3	3921.7	0.01	99.98
172.0-173.0	15.8	0.2	3921.9	0.01	99.98
173.0-174.0	14.9	0.2	3922.1	0.00	99.99
174.0-175.0	15.8	0.2	3922.2	0.00	99.99
175.0-176.0	16.7	0.1	3922.4	0.00	99.99
176.0-177.0	16.8	0.1	3922.5	0.00	100.00
177.0-178.0	16.4	0.1	3922.6	0.00	100.00
178.0-179.0	16.3	0.0	3922.6	0.00	100.00
179.0-180.0	17.0	0.0	3922.6	0.00	100.00

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	1714.2	1720.6	1718.5	1718.9	1714.2	1720.6	1718.5	1718.9	1714.2	
G1.0	1715.8	1717.4	1715.3	1717.7	1718.2	1723.3	1721.5	1714.8	1715.8	
G2.0	1713.5	1712.9	1717.3	1715.3	1720.7	1720.9	1719.6	1717.5	1713.5	
G3.0	1715.4	1709.8	1711.6	1718.5	1723.5	1716.6	1711.8	1712.6	1715.4	
G4.0	1714.5	1711.2	1712.3	1715.8	1722.5	1714.4	1705.9	1707.1	1714.5	
G5.0	1706.5	1711.1	1714.6	1717.0	1718.4	1716.6	1706.6	1701.3	1706.5	
G6.0	1698.6	1705.0	1707.4	1715.0	1711.1	1711.2	1703.4	1701.9	1698.6	
G7.0	1696.9	1705.2	1708.7	1713.3	1710.6	1712.8	1697.3	1701.2	1696.9	
G8.0	1693.6	1692.5	1706.8	1705.7	1711.2	1711.2	1700.5	1692.6	1693.6	
G9.0	1687.6	1695.6	1699.0	1706.4	1704.3	1702.8	1694.2	1691.4	1687.6	
G10.0	1678.7	1688.0	1694.6	1704.4	1707.4	1702.3	1694.7	1681.6	1678.7	
G11.0	1665.9	1678.6	1691.9	1700.9	1701.4	1687.2	1679.2	1671.5	1665.9	
G12.0	1653.6	1671.6	1685.1	1689.2	1694.1	1683.9	1676.8	1664.6	1653.6	
G13.0	1643.5	1662.1	1672.0	1679.8	1684.4	1680.7	1664.6	1656.2	1643.5	
G14.0	1629.7	1647.8	1661.5	1673.0	1680.6	1670.4	1658.1	1643.2	1629.7	
G15.0	1622.3	1643.5	1652.1	1662.4	1674.1	1669.5	1649.9	1643.8	1622.3	
G16.0	1610.0	1628.0	1645.3	1658.9	1671.4	1662.7	1643.8	1629.5	1610.0	
G17.0	1593.3	1620.7	1640.0	1655.3	1661.7	1651.6	1635.6	1615.8	1593.3	
G18.0	1573.7	1606.4	1630.6	1647.1	1648.5	1641.8	1629.2	1604.2	1573.7	
G19.0	1550.8	1594.7	1617.6	1628.5	1639.8	1626.4	1615.0	1586.1	1550.8	
G20.0	1531.0	1574.5	1600.8	1619.1	1619.8	1615.0	1602.1	1569.2	1531.0	
G21.0	1512.2	1559.0	1590.5	1605.8	1603.6	1607.7	1592.3	1562.1	1512.2	
G22.0	1490.3	1541.6	1576.7	1589.4	1586.2	1594.2	1576.8	1542.7	1490.3	
G23.0	1466.8	1523.6	1562.0	1578.6	1573.3	1582.8	1565.1	1526.1	1466.8	
G24.0	1440.9	1508.4	1551.4	1567.0	1560.6	1569.1	1549.7	1510.3	1440.9	
G25.0	1411.2	1491.3	1537.3	1553.9	1532.6	1549.8	1537.8	1480.1	1411.2	
G26.0	1381.3	1466.8	1520.7	1530.4	1512.9	1532.4	1519.3	1459.8	1381.3	
G27.0	1348.0	1446.1	1498.3	1513.3	1484.2	1519.2	1500.8	1438.9	1348.0	
G28.0	1314.9	1419.4	1478.4	1497.2	1456.5	1501.6	1481.1	1412.2	1314.9	
G29.0	1286.0	1393.9	1464.9	1473.0	1437.8	1483.9	1470.6	1392.7	1286.0	
G30.0	1255.3	1368.5	1442.0	1451.1	1405.6	1460.9	1447.3	1367.5	1255.3	
G31.0	1218.9	1343.0	1426.1	1427.1	1370.8	1435.2	1432.0	1333.5	1218.9	
G32.0	1179.1	1312.7	1409.4	1401.2	1338.7	1413.9	1408.4	1308.3	1179.1	
G33.0	1143.7	1282.6	1382.5	1373.9	1301.0	1386.2	1379.8	1272.7	1143.7	
G34.0	1108.8	1252.7	1362.7	1346.7	1265.6	1359.3	1358.1	1244.6	1108.8	
G35.0	1065.1	1223.8	1338.5	1314.7	1224.7	1330.2	1325.5	1214.7	1065.1	
G36.0	1027.3	1185.8	1311.5	1283.9	1190.4	1305.1	1301.0	1179.0	1027.3	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	988.3	1151.4	1285.3	1252.0	1151.2	1272.0	1277.2	1144.7	988.3	
G38.0	949.8	1115.9	1265.9	1215.5	1108.6	1239.4	1254.6	1109.3	949.8	
G39.0	913.9	1078.5	1242.8	1178.0	1069.3	1204.3	1225.5	1070.0	913.9	
G40.0	874.8	1041.2	1217.5	1141.2	1024.8	1162.7	1201.2	1029.8	874.8	
G41.0	840.5	1004.6	1197.8	1102.6	983.0	1127.6	1175.0	993.1	840.5	
G42.0	803.3	964.9	1171.9	1063.4	941.4	1083.2	1151.7	952.6	803.3	
G43.0	769.2	926.8	1158.4	1024.4	895.6	1045.4	1122.9	911.1	769.2	
G44.0	734.2	885.2	1133.6	982.6	860.5	1006.2	1095.9	872.5	734.2	
G45.0	699.3	847.7	1111.8	939.4	816.9	960.0	1074.1	834.1	699.3	
G46.0	669.7	812.7	1087.5	894.5	777.7	916.9	1051.7	793.3	669.7	
G47.0	638.6	775.5	1066.0	855.5	734.9	878.3	1028.8	750.8	638.6	
G48.0	612.2	735.2	1040.4	813.3	701.3	832.1	1001.5	709.7	612.2	
G49.0	586.2	698.9	1018.0	773.1	661.1	792.9	976.0	671.8	586.2	
G50.0	564.8	657.6	988.9	729.5	631.2	750.2	952.7	633.5	564.8	
G51.0	547.2	626.1	969.2	690.9	599.4	705.2	918.3	598.7	547.2	
G52.0	529.2	586.4	939.9	649.0	571.7	667.1	896.2	562.4	529.2	
G53.0	516.9	557.4	918.5	607.7	547.3	628.9	866.5	531.1	516.9	
G54.0	502.7	521.2	887.5	573.3	525.4	593.2	837.4	501.5	502.7	
G55.0	492.6	495.4	858.7	534.7	504.8	553.3	809.5	470.2	492.6	
G56.0	482.6	465.0	831.3	504.4	484.5	516.1	782.5	444.7	482.6	
G57.0	472.7	434.3	805.2	474.1	473.6	486.6	752.7	418.3	472.7	
G58.0	461.0	411.1	767.9	440.6	456.6	453.9	722.1	395.5	461.0	
G59.0	450.7	387.1	730.8	411.0	443.9	421.6	686.4	377.3	450.7	
G60.0	439.0	367.1	696.2	391.3	436.3	392.5	649.3	357.9	439.0	
G61.0	425.5	347.0	665.3	366.9	423.7	367.3	613.1	340.8	425.5	
G62.0	410.0	329.8	626.1	345.7	407.9	345.0	580.2	326.6	410.0	
G63.0	392.3	311.8	597.2	321.1	396.1	322.7	550.4	308.7	392.3	
G64.0	370.7	296.4	559.9	306.2	380.8	301.4	519.9	296.9	370.7	
G65.0	347.8	284.0	531.0	283.9	362.3	282.0	492.4	281.8	347.8	
G66.0	324.4	267.9	493.9	270.6	342.3	262.4	459.9	267.1	324.4	
G67.0	301.2	248.1	462.5	249.1	324.1	245.2	432.3	249.6	301.2	
G68.0	279.9	231.9	424.7	232.2	304.3	229.0	400.0	235.4	279.9	
G69.0	258.2	216.5	393.2	219.9	281.8	213.5	374.6	223.6	258.2	
G70.0	237.4	201.0	353.6	203.8	262.6	197.8	339.7	205.4	237.4	
G71.0	216.0	186.4	318.1	184.1	240.8	183.1	309.8	189.6	216.0	
G72.0	195.1	174.9	289.1	169.4	223.4	167.2	279.3	174.4	195.1	
G73.0	175.6	157.2	257.5	154.4	202.8	156.1	248.6	163.6	175.6	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	156.2	145.7	234.9	141.6	183.4	143.1	230.5	146.9	156.2	
G75.0	138.3	132.2	207.3	131.9	164.3	126.1	203.6	131.5	138.3	
G76.0	120.7	118.8	188.9	115.1	146.2	112.9	184.6	123.2	120.7	
G77.0	103.3	104.8	163.6	100.8	128.1	100.2	159.9	110.1	103.3	
G78.0	88.8	91.6	142.8	88.4	113.2	92.2	143.7	97.5	88.8	
G79.0	72.9	80.7	125.8	80.4	95.3	81.1	126.0	85.3	72.9	
G80.0	58.9	69.3	104.7	65.6	79.3	70.7	104.0	70.1	58.9	
G81.0	43.6	58.4	86.8	58.3	63.9	60.5	91.6	59.2	43.6	
G82.0	27.6	48.3	71.7	48.1	49.3	46.2	67.7	48.8	27.6	
G83.0	13.6	37.9	52.2	34.3	37.5	37.2	52.2	43.4	13.6	
G84.0	6.0	28.1	37.5	24.1	21.8	28.2	42.5	33.3	6.0	
G85.0	2.7	17.5	27.1	15.9	10.5	18.6	33.4	17.3	2.7	
G86.0	1.9	8.4	17.8	7.7	2.3	7.5	15.9	6.9	1.9	
G87.0	1.4	4.2	4.3	4.6	4.2	1.9	11.9	1.8	1.4	
G88.0	1.2	2.2	3.5	0.3	0.0	3.2	1.1	3.3	1.2	
G89.0	0.8	0.8	0.0	0.0	2.9	1.5	2.8	1.5	0.8	
G90.0	0.7	1.0	1.2	1.5	0.0	0.9	0.0	0.9	0.7	
G91.0	1.2	0.0	1.3	0.0	3.0	0.0	1.9	0.8	1.2	
G92.0	1.5	1.2	0.0	0.0	3.2	0.8	1.9	0.7	1.5	
G93.0	1.4	1.6	1.5	0.0	3.2	0.0	1.9	0.0	1.4	
G94.0	0.8	0.0	1.7	1.9	0.0	0.0	0.0	0.4	0.8	
G95.0	1.5	1.9	1.8	0.0	3.3	0.0	0.0	0.3	1.5	
G96.0	1.5	0.0	2.0	2.2	0.0	0.6	2.2	0.0	1.5	
G97.0	2.0	2.2	2.2	2.3	3.1	0.3	2.2	0.0	2.0	
G98.0	1.5	0.0	2.3	2.3	0.0	0.4	0.4	0.1	1.5	
G99.0	1.7	0.0	0.0	2.4	0.0	0.4	0.6	0.0	1.7	
G100.0	2.3	2.7	0.0	0.0	0.1	0.0	3.5	0.8	2.3	
G101.0	2.7	2.8	2.9	2.6	3.6	0.3	3.9	0.9	2.7	
G102.0	2.5	0.0	3.0	2.6	0.3	0.7	2.6	0.0	2.5	
G103.0	2.5	2.9	3.3	0.0	3.2	0.1	0.1	1.7	2.5	
G104.0	2.2	0.0	0.0	0.0	1.0	1.3	2.9	0.0	2.2	
G105.0	3.1	3.2	0.1	2.6	2.9	1.5	0.4	0.0	3.1	
G106.0	2.4	0.0	4.0	0.0	3.8	0.2	0.8	0.0	2.4	
G107.0	2.1	0.0	0.5	0.2	2.0	0.2	1.1	2.9	2.1	
G108.0	3.6	3.5	0.7	2.5	2.4	0.2	3.2	3.3	3.6	
G109.0	3.8	3.6	0.8	2.4	2.7	0.3	1.6	3.6	3.8	
G110.0	3.0	0.7	1.1	2.3	3.2	0.3	1.9	0.0	3.0	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	4.4	3.8	1.2	2.3	2.8	0.4	3.9	4.1	4.4	
G112.0	4.5	3.9	1.4	2.3	2.8	3.8	4.1	4.4	4.5	
G113.0	5.8	1.7	1.5	2.8	3.9	0.5	5.7	4.7	5.8	
G114.0	7.4	2.2	6.1	2.2	4.3	4.3	6.0	4.9	7.4	
G115.0	8.8	2.5	2.0	3.7	2.7	0.7	3.2	5.2	8.8	
G116.0	8.7	2.9	6.4	4.1	4.9	0.8	3.5	5.4	8.7	
G117.0	9.9	3.2	2.5	2.1	5.3	5.2	5.2	5.6	9.9	
G118.0	12.1	4.4	7.1	2.1	5.6	5.4	4.0	1.5	12.1	
G119.0	9.8	4.5	7.3	5.4	5.9	1.4	7.0	6.0	9.8	
G120.0	8.9	4.3	3.3	5.6	2.9	1.6	5.8	6.1	8.9	
G121.0	10.4	4.9	3.7	2.3	6.5	6.1	7.5	2.5	10.4	
G122.0	11.7	5.3	7.8	2.5	6.9	2.1	6.4	6.4	11.7	
G123.0	10.4	5.0	8.0	2.8	1.8	6.5	8.1	3.2	10.4	
G124.0	8.8	5.1	4.8	2.9	6.0	2.7	6.9	6.7	8.8	
G125.0	10.4	5.2	8.2	3.0	7.7	3.0	7.2	4.0	10.4	
G126.0	8.7	5.3	8.3	3.3	8.0	3.1	6.0	4.4	8.7	
G127.0	8.7	5.4	6.0	7.9	4.2	3.7	9.2	7.0	8.7	
G128.0	8.7	5.6	6.5	8.1	4.2	4.1	7.7	5.3	8.7	
G129.0	10.5	5.8	6.9	4.3	4.5	7.1	8.0	7.1	10.5	
G130.0	8.4	8.6	7.2	8.4	4.6	4.8	8.3	7.1	8.4	
G131.0	10.6	8.9	7.9	8.5	5.0	5.2	10.4	7.1	10.6	
G132.0	8.5	9.2	8.4	8.6	9.1	7.3	10.8	7.2	8.5	
G133.0	8.4	9.6	8.9	8.6	5.6	6.1	10.9	6.9	8.4	
G134.0	10.8	6.3	8.6	6.1	5.9	6.6	10.0	7.2	10.8	
G135.0	12.2	10.3	8.6	8.7	6.3	7.4	9.1	8.6	12.2	
G136.0	12.2	10.6	8.4	7.3	6.6	7.5	9.3	7.1	12.2	
G137.0	11.0	10.7	8.6	7.5	5.5	7.6	10.9	9.5	11.0	
G138.0	12.4	7.2	8.6	8.1	5.9	8.2	9.7	7.4	12.4	
G139.0	9.9	7.4	8.7	8.8	7.8	7.7	9.7	10.2	9.9	
G140.0	8.5	7.6	12.1	8.8	10.1	9.3	11.8	7.6	8.5	
G141.0	8.5	12.0	12.5	8.8	10.3	9.6	8.6	7.6	8.5	
G142.0	11.8	8.1	8.9	10.0	9.4	10.1	8.8	7.8	11.8	
G143.0	8.8	8.3	9.1	8.8	9.3	11.9	8.9	7.9	8.8	
G144.0	9.0	8.5	13.5	8.9	9.4	12.6	12.9	12.2	9.0	
G145.0	12.6	8.7	13.7	8.9	8.9	8.0	13.2	8.1	12.6	
G146.0	14.1	13.3	13.9	8.9	9.4	11.6	9.4	12.7	14.1	
G147.0	11.1	9.1	14.1	12.0	10.6	11.9	13.7	8.6	11.1	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	13.4	13.6	14.3	8.9	9.2	8.4	9.6	13.3	13.4	
G149.0	13.7	13.9	10.3	12.7	9.2	9.9	14.1	10.5	13.7	
G150.0	13.9	15.3	10.4	13.0	10.7	10.1	10.1	14.9	13.9	
G151.0	10.4	9.8	14.5	9.1	10.5	14.5	14.4	9.7	10.4	
G152.0	10.5	10.3	14.6	13.6	10.7	10.7	10.3	10.0	10.5	
G153.0	14.6	10.5	14.4	9.6	12.2	10.8	10.5	13.9	14.6	
G154.0	14.8	14.9	11.8	9.8	9.4	15.2	10.7	10.8	14.8	
G155.0	11.1	16.5	14.7	14.3	9.4	11.0	10.9	14.0	11.1	
G156.0	16.6	11.1	12.5	14.5	9.5	15.4	11.2	13.9	16.6	
G157.0	11.3	11.2	12.8	14.7	13.4	10.3	14.9	12.0	11.3	
G158.0	11.6	15.6	13.2	16.3	9.6	14.3	14.9	13.9	11.6	
G159.0	15.8	15.6	14.4	11.0	14.1	14.4	14.8	12.8	15.8	
G160.0	16.0	16.0	14.3	15.0	14.3	14.5	14.9	13.3	16.0	
G161.0	12.2	13.3	14.2	15.2	15.3	11.6	12.6	13.8	12.2	
G162.0	17.6	17.8	14.6	16.5	11.6	14.6	12.8	13.7	17.6	
G163.0	13.9	17.9	14.1	13.6	10.6	14.5	13.3	14.5	13.9	
G164.0	18.0	13.7	15.6	16.8	12.4	14.6	14.7	14.6	18.0	
G165.0	14.2	18.3	16.9	16.8	12.4	13.2	14.0	13.5	14.2	
G166.0	14.2	18.3	15.7	16.8	13.2	13.3	14.4	13.4	14.2	
G167.0	18.3	14.2	13.6	16.5	11.9	14.3	14.4	15.7	18.3	
G168.0	15.0	18.6	13.8	15.2	12.2	14.3	15.2	13.4	15.0	
G169.0	14.2	18.7	15.4	15.6	15.6	14.5	15.5	16.3	14.2	
G170.0	18.7	14.5	15.4	15.9	15.6	14.1	15.9	16.6	18.7	
G171.0	14.8	18.7	17.0	16.4	13.4	15.5	16.3	13.3	14.8	
G172.0	18.8	19.0	18.6	16.3	15.6	15.9	16.7	13.4	18.8	
G173.0	14.8	14.7	15.1	17.0	14.3	16.0	13.8	13.3	14.8	
G174.0	14.9	14.8	17.6	16.2	15.5	13.6	13.8	13.1	14.9	
G175.0	19.3	19.2	17.8	16.1	15.3	13.5	19.0	13.4	19.3	
G176.0	15.3	19.3	17.9	16.1	15.8	13.4	19.1	17.6	15.3	
G177.0	19.3	15.3	15.0	18.3	16.4	13.2	19.4	17.6	19.3	
G178.0	15.3	19.1	13.7	18.7	14.5	13.4	15.0	17.8	15.3	
G179.0	19.3	15.7	14.1	19.2	14.1	19.1	13.8	17.8	19.3	
G180.0	17.6	17.8	17.5	18.4	18.1	15.4	14.8	18.9	17.6	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 8.177 m
 Humidity:
 Inspector: