Report No.: 202602081054 Test Time: 2026-02-08 11:29

Luminaire Property

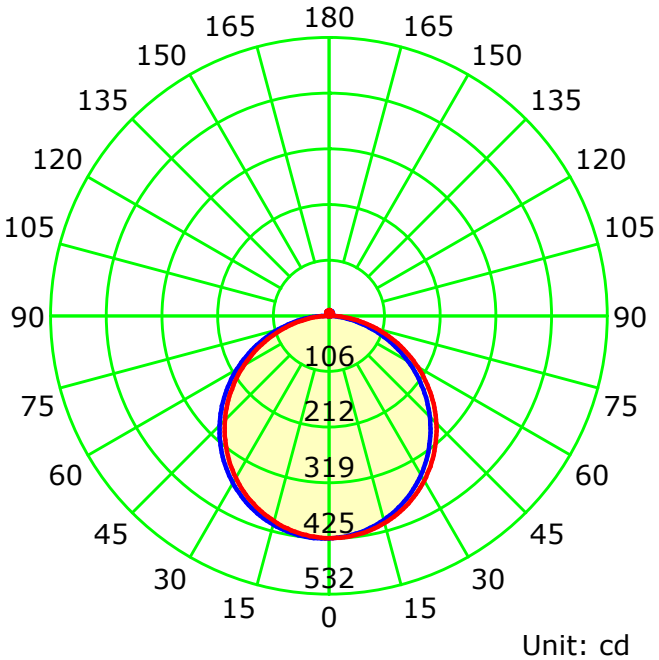
Luminaire Manufacturer:
Luminaire Description: ASD-LPR-7D15WH-5000K
Voltage: 120.8 V Current: 0.129 A
Power: 14.95 W Power Factor: 0.960

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 1276.9 lm
Measurement Flux: 1276.9 lm Efficiency: 100%
Downward Ratio: 97% Upward Ratio: 3%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.0, 164.7, 164.3, 164.4
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.0, 113.8, 113.4, 113.4
Luminaire Efficacy Rating (LER): 85.46 Central Intensity: 425.59 cd
Max. Intensity: 425.77 cd Pos of Max. Intensity: H180 V2
S/MH(C0/C180): 1.26 S/MH(C90/C270): 1.26

Picture Of Luminaire

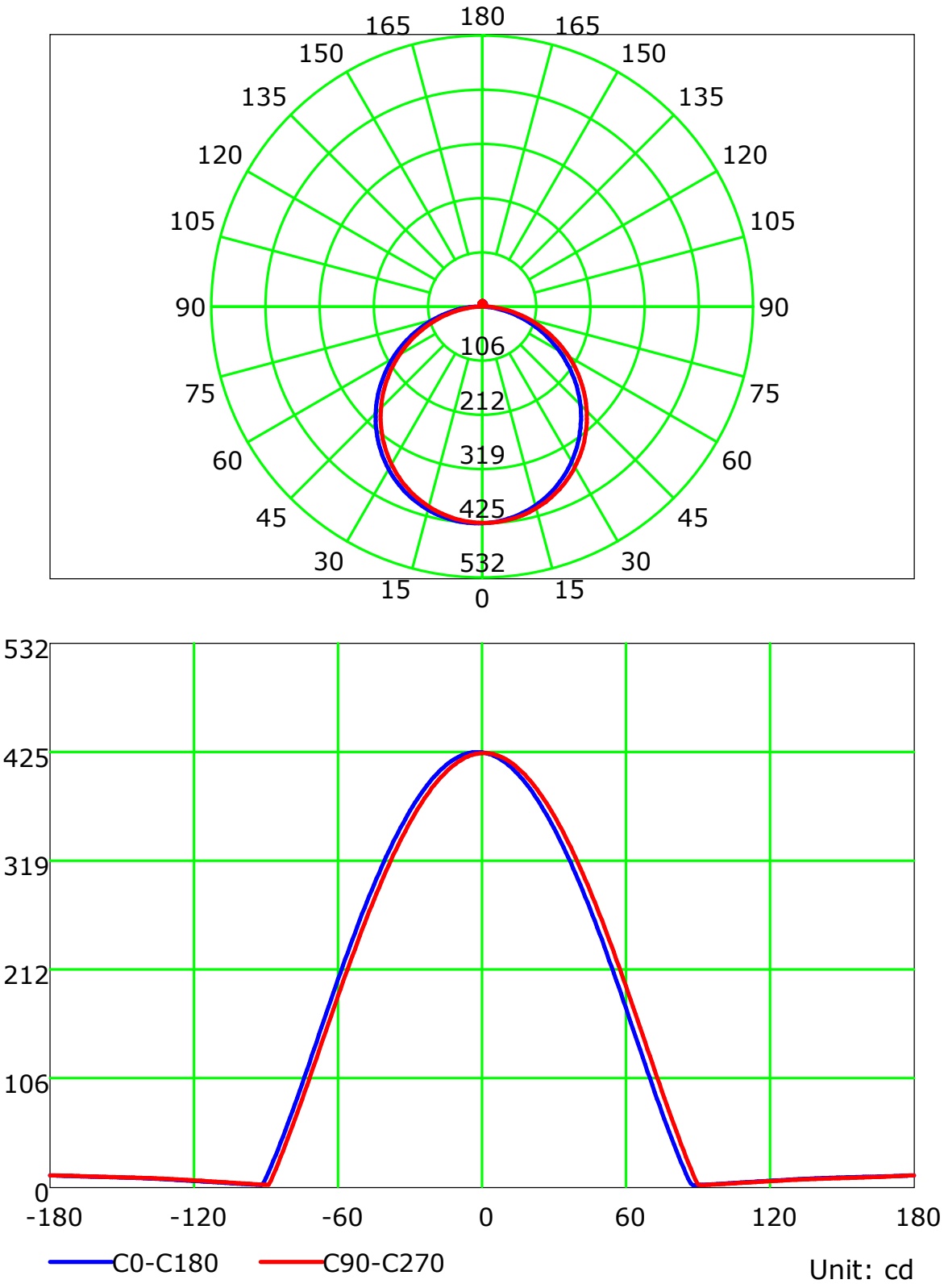
Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 113.4°
C0-C180 C90-C270

C Plane (°):0.0-360.0: 30.0 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: GPM-1600L
Test Type: TYPE C Distance: 8.432 m
Temperature: Humidity:
Operator: OQC1 Inspector:

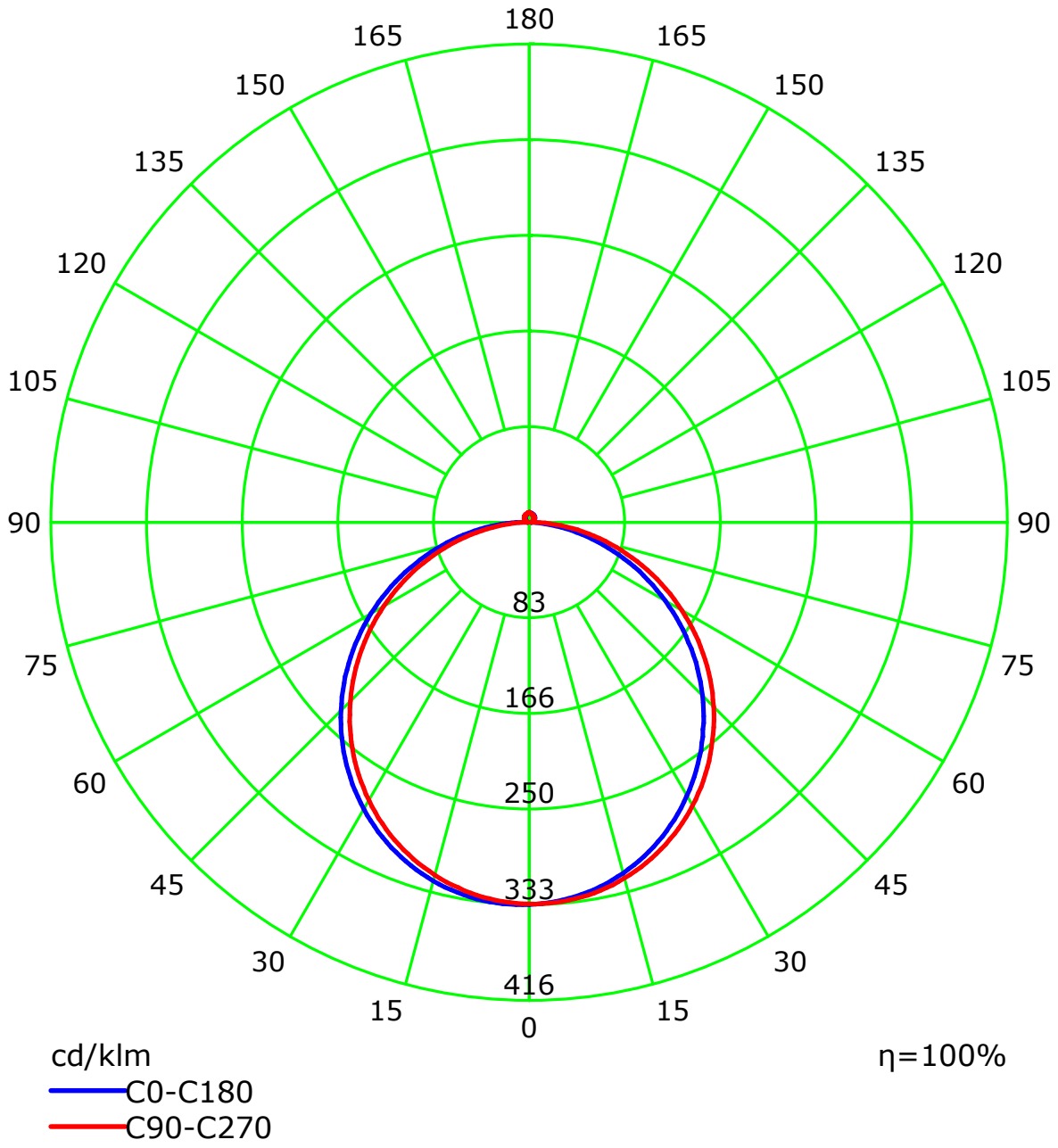
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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: OQC1

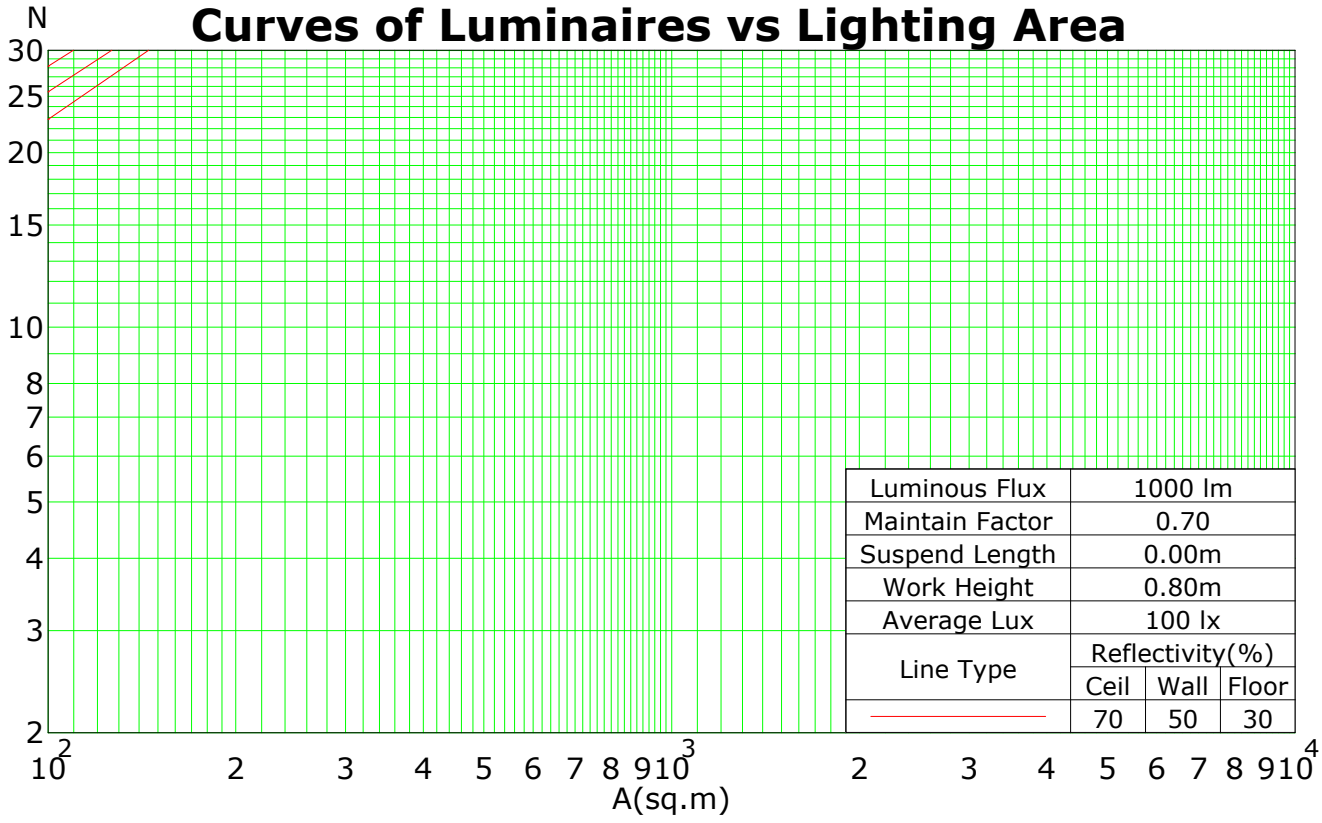
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	93	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.26
Spacing Criteria (Diagonal): 1.38

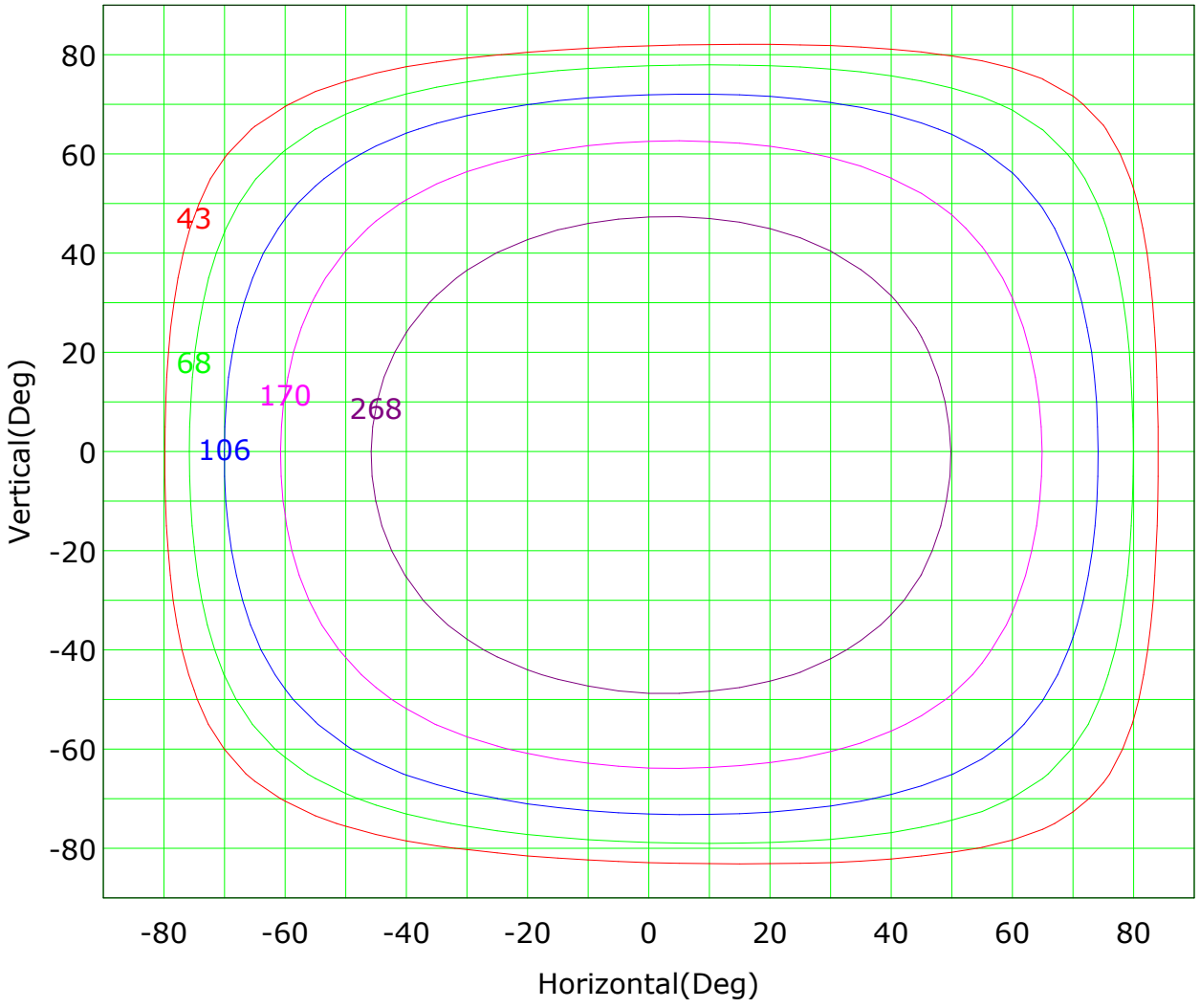
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Isocandela (rectangle)



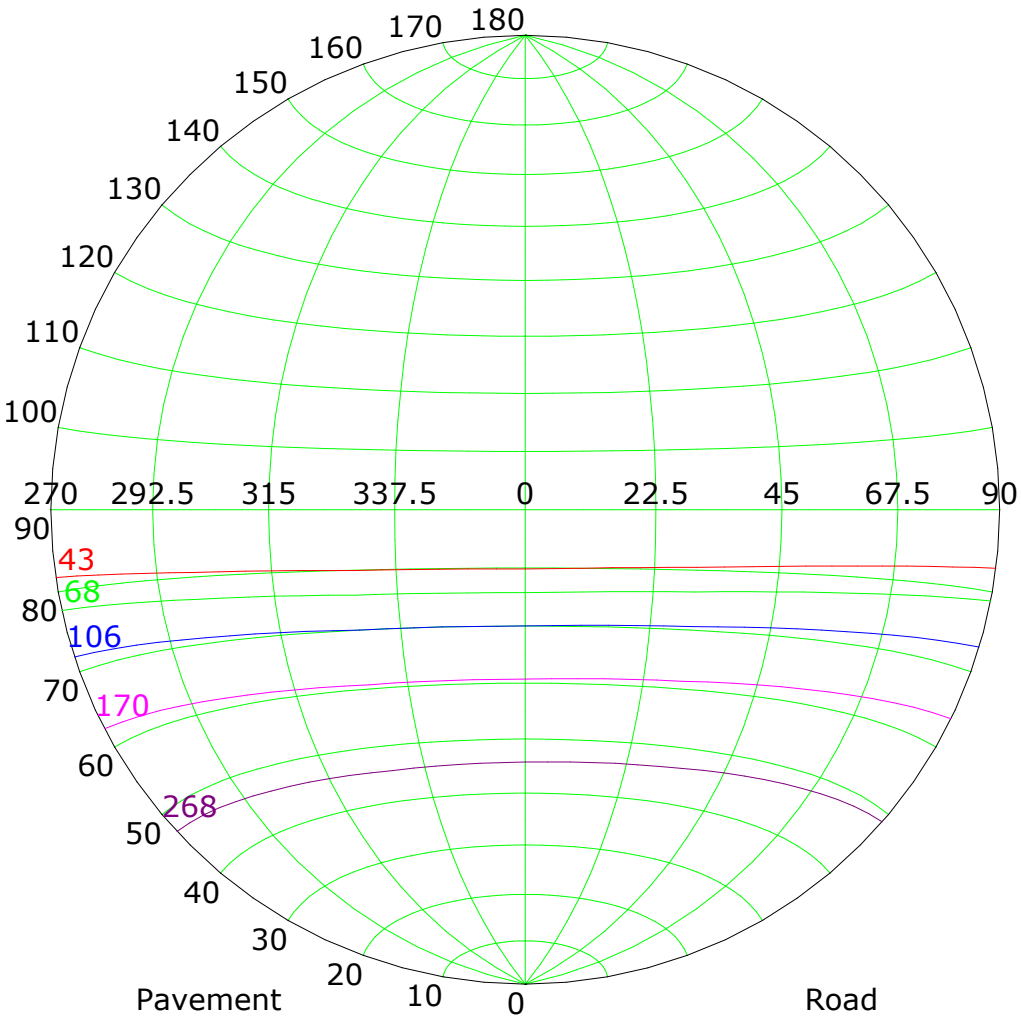
Imax (100%): 426 cd

(10%): 43 cd	(16%): 68 cd
(25%): 106 cd	(40%): 170 cd
(63%): 268 cd	(100%): 426 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Isocandela (sphere)



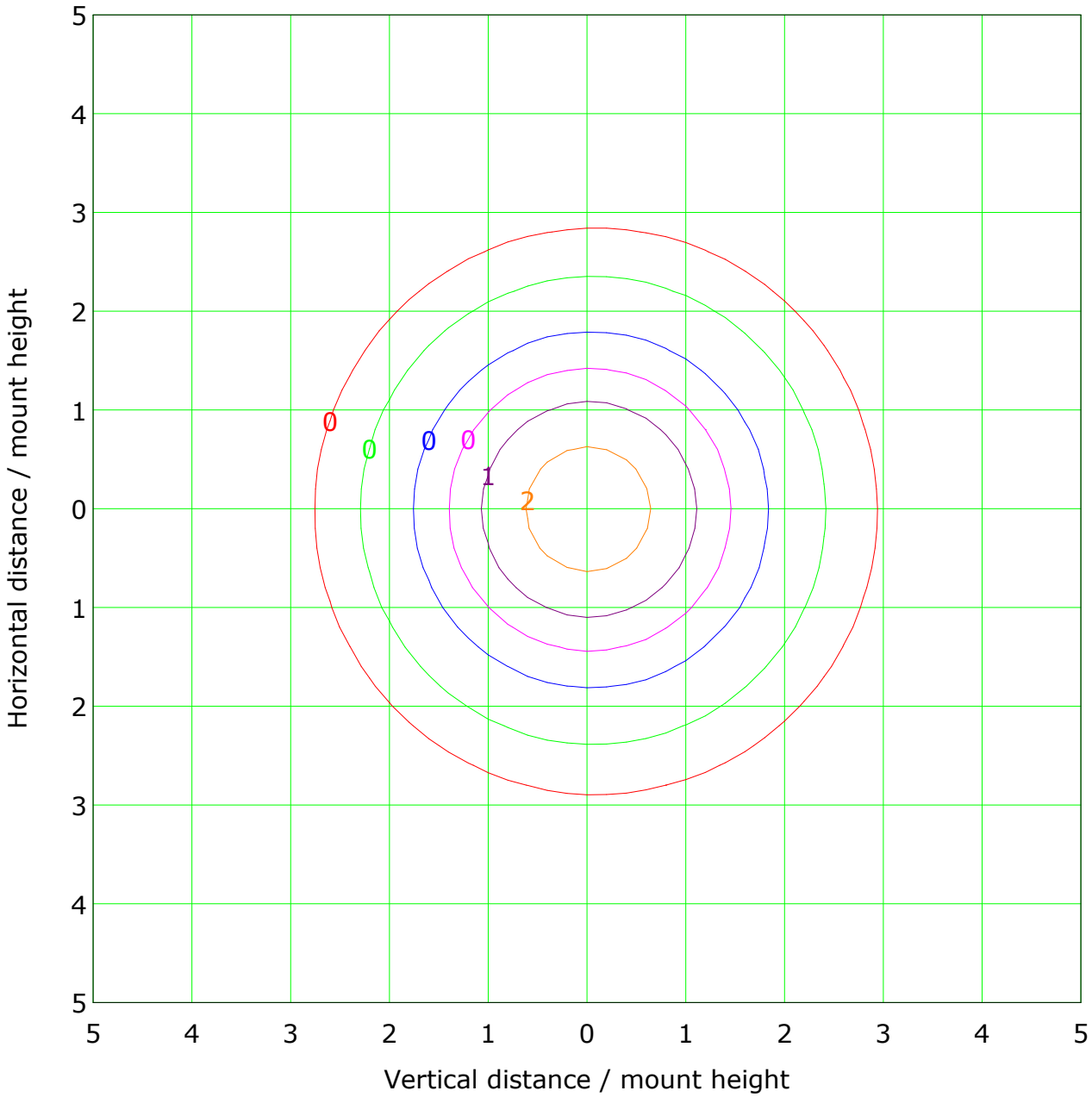
Imax (100%): 426 cd

(10%): 43 cd	(16%): 68 cd
(25%): 106 cd	(40%): 170 cd
(63%): 268 cd	(100%): 426 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

IsoLux Plot



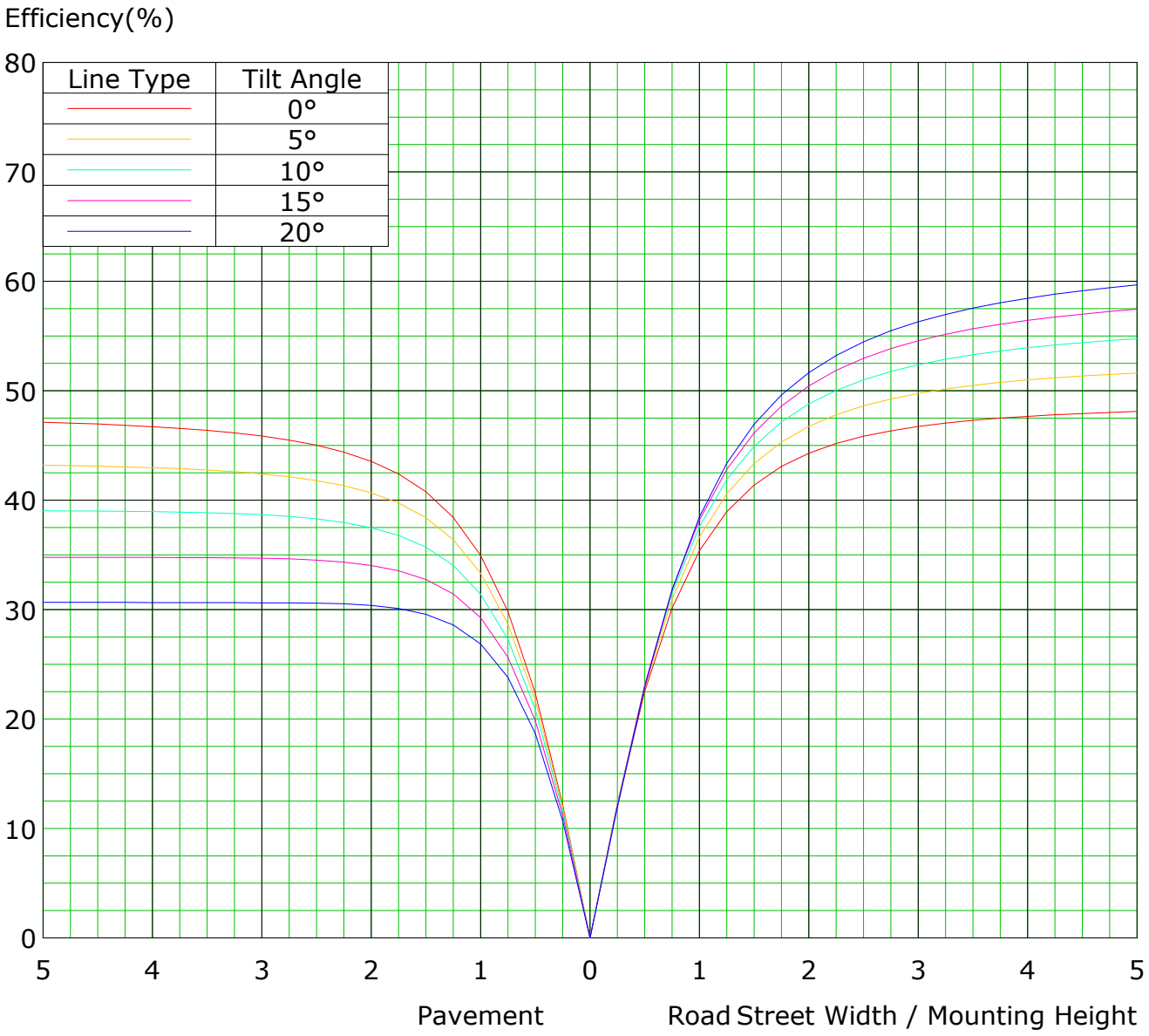
Mounting Height: 10.0m Max Lux(100%): 4.3 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.4 lx
(20%): 0.9 lx	(50%): 2.1 lx
(100%): 4.3 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Roadway CU Curve

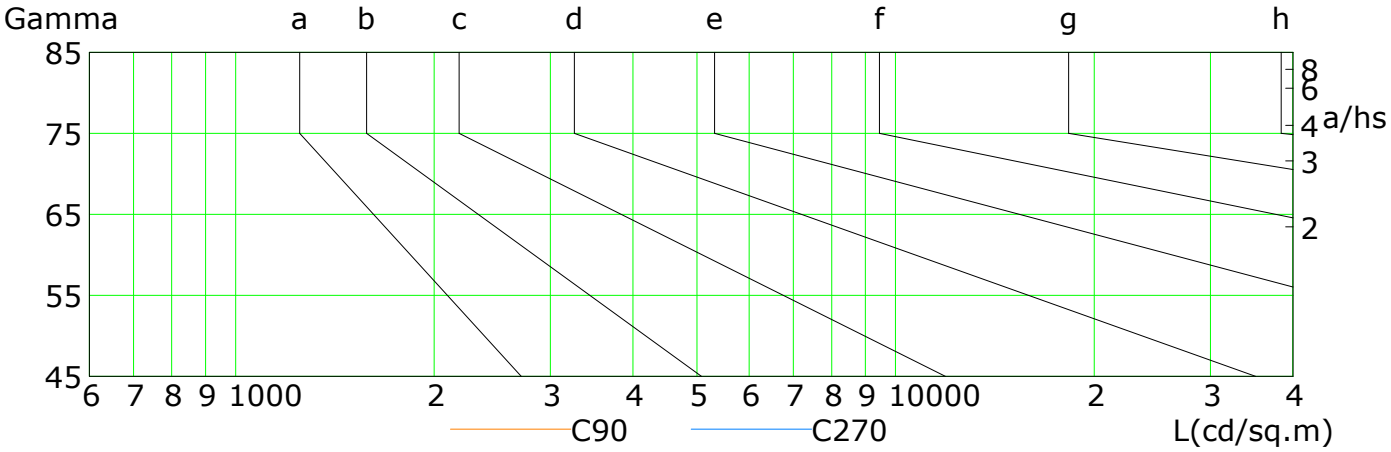


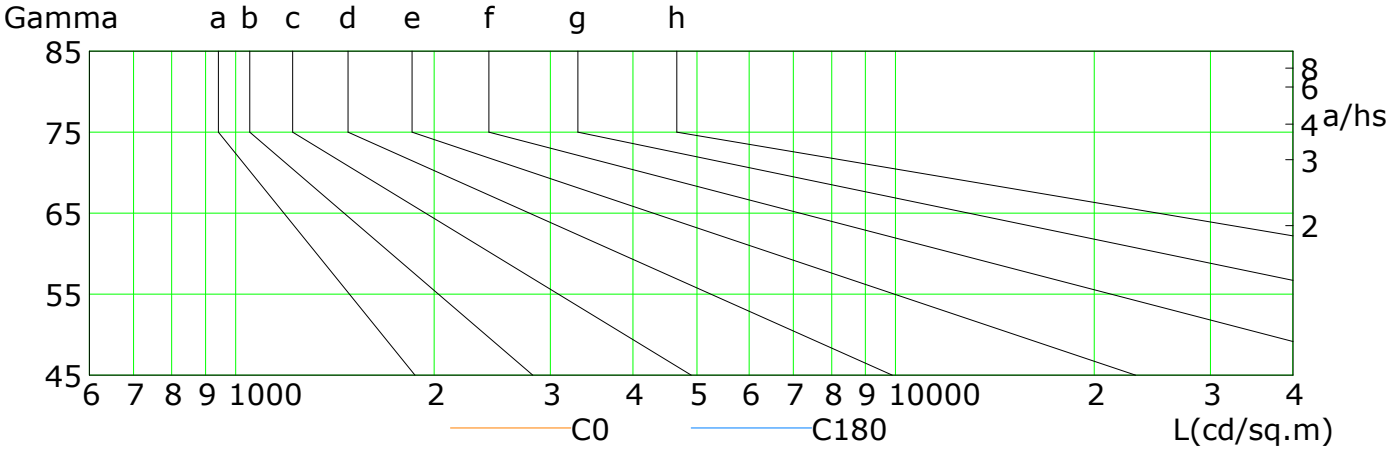
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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



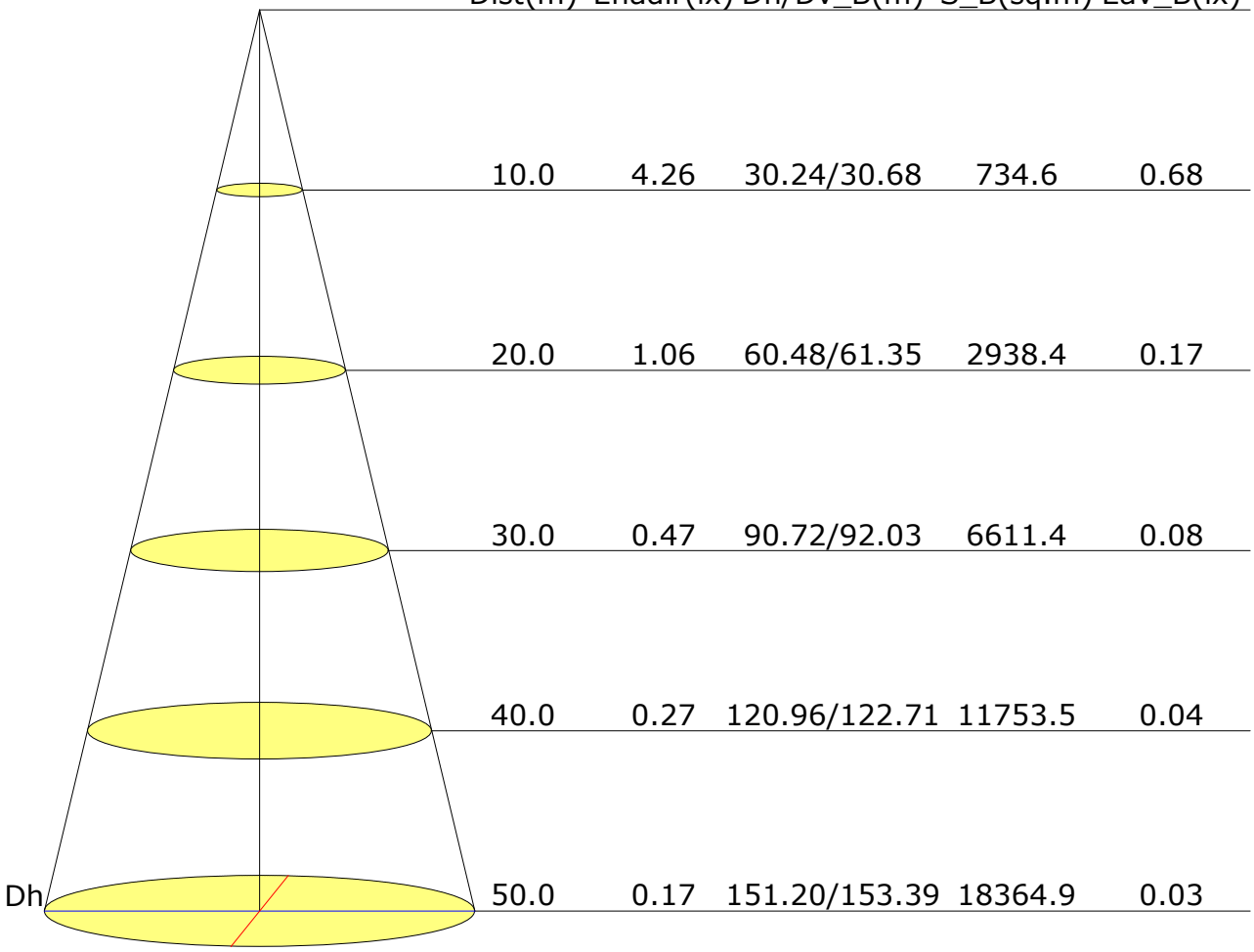


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	273	242	209	175	141	106	73	41	13
C90	291	261	230	196	162	128	94	61	29
C180	296	268	236	204	170	135	101	68	37
C270	282	252	220	187	153	119	86	53	23

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Illuminance at a Distance



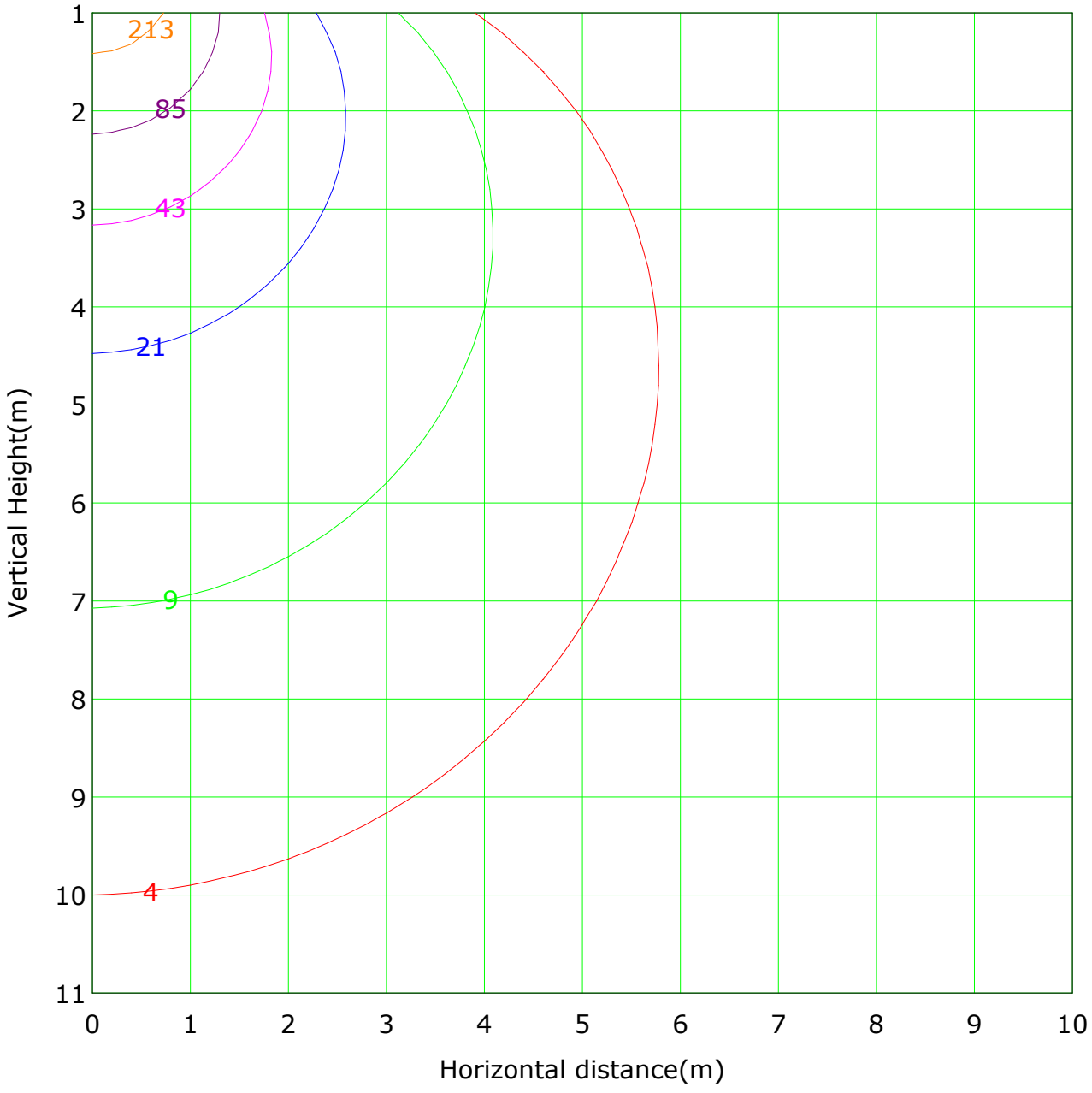
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	4.26	30.24/30.68	734.6	0.68
20.0	1.06	60.48/61.35	2938.4	0.17
30.0	0.47	90.72/92.03	6611.4	0.08
40.0	0.27	120.96/122.71	11753.5	0.04
50.0	0.17	151.20/153.39	18364.9	0.03

Beam Angle(B): H113.0 V113.8 Field Angle(F): H164.0 V164.7

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 425.6 lx

(1%): 4.3 lx
(2%): 8.5 lx
(5%): 21.3 lx
(10%): 42.6 lx
(20%): 85.1 lx
(50%): 212.8 lx
(100%): 425.6 lx

C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 8.432 m
Temperature:
Humidity:
Operator: OQC1
Inspector:

Area Flux Table

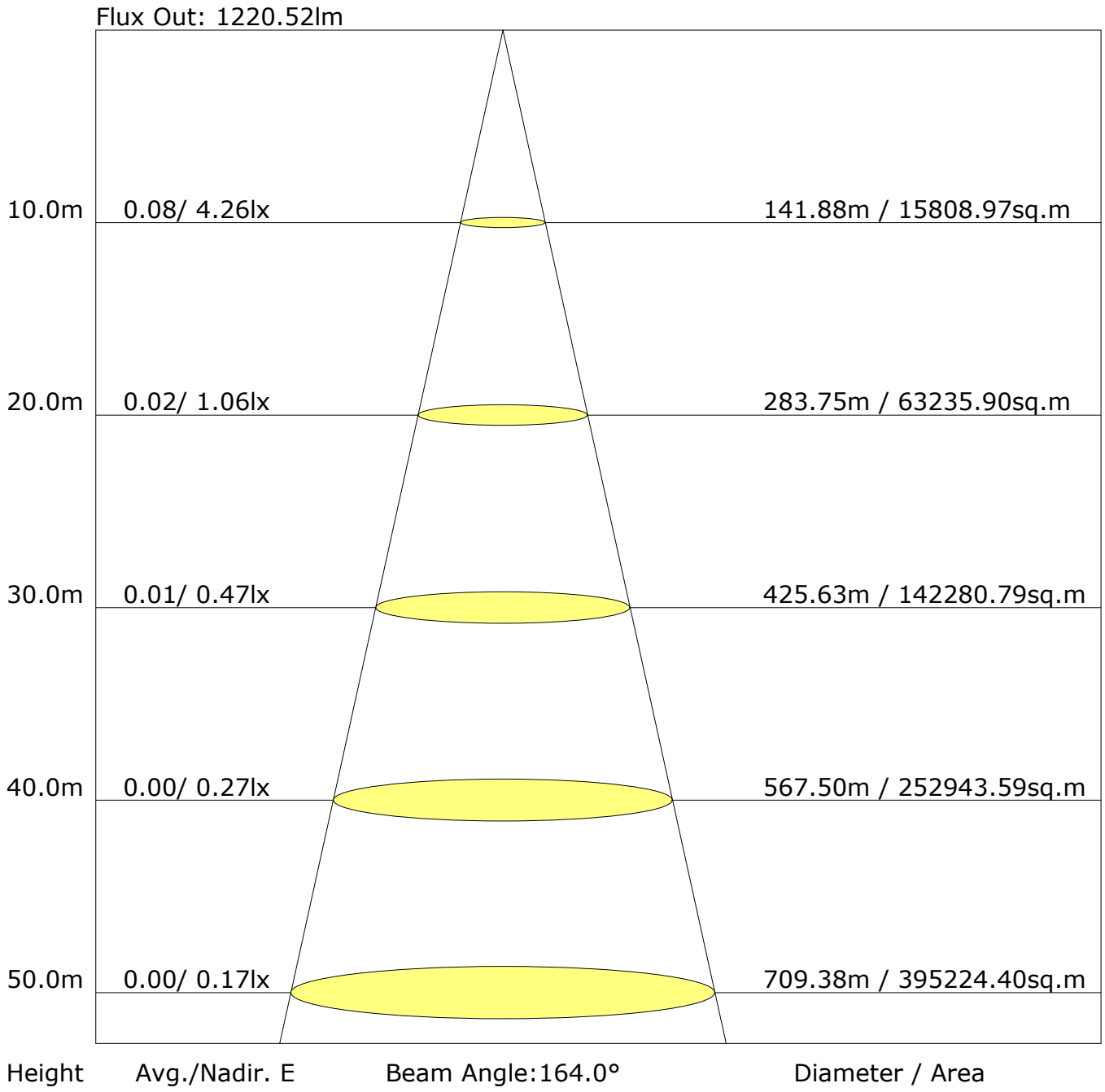
Unit: lm

Vertical plane \ Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	Flux(T)	Flux(E)
-90	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	6.7	1.4
-80	0.0	0.2	0.6	1.0	1.4	1.9	2.3	2.5	2.6	2.6	2.3	1.9	1.5	1.0	0.6	0.3	0.1	0.0	22.9	21.1
-70	0.1	0.4	0.9	1.6	2.4	3.2	3.9	4.4	4.7	4.6	4.2	3.6	2.8	2.0	1.2	0.6	0.2	0.0	40.7	40.1
-60	0.1	0.5	1.2	2.2	3.4	4.6	5.6	6.3	6.7	6.6	6.1	5.2	4.1	2.9	1.8	0.9	0.3	0.0	58.4	58.1
-50	0.1	0.6	1.5	2.8	4.3	5.8	7.1	8.1	8.5	8.4	7.8	6.7	5.3	3.8	2.3	1.2	0.4	0.0	74.7	74.5
-40	0.1	0.7	1.8	3.3	5.1	6.8	8.4	9.6	10.1	10.0	9.3	8.0	6.4	4.6	2.8	1.4	0.5	0.0	88.8	88.7
-30	0.1	0.7	2.0	3.7	5.7	7.7	9.5	10.8	11.4	11.3	10.5	9.1	7.2	5.2	3.2	1.6	0.5	0.1	100.1	100.0
-20	0.1	0.8	2.1	4.0	6.1	8.3	10.2	11.6	12.3	12.2	11.3	9.8	7.8	5.6	3.5	1.8	0.6	0.1	108.0	107.9
-10	0.1	0.8	2.2	4.1	6.3	8.6	10.6	12.0	12.8	12.7	11.8	10.2	8.1	5.8	3.6	1.8	0.6	0.1	112.2	112.1
0	0.1	0.8	2.2	4.1	6.4	8.6	10.6	12.1	12.8	12.7	11.8	10.2	8.1	5.9	3.7	1.8	0.6	0.1	112.6	112.5
10	0.1	0.8	2.1	4.0	6.2	8.3	10.3	11.7	12.4	12.3	11.4	9.9	7.9	5.7	3.5	1.8	0.6	0.1	108.9	108.8
20	0.1	0.7	2.0	3.7	5.8	7.8	9.6	10.9	11.6	11.5	10.6	9.2	7.3	5.2	3.3	1.6	0.5	0.1	101.5	101.4
30	0.1	0.7	1.8	3.3	5.2	7.0	8.6	9.8	10.3	10.2	9.5	8.2	6.5	4.6	2.9	1.4	0.5	0.0	90.6	90.5
40	0.1	0.6	1.5	2.9	4.4	5.9	7.3	8.3	8.8	8.7	8.0	6.9	5.5	3.9	2.4	1.2	0.4	0.0	76.8	76.6
50	0.1	0.5	1.2	2.3	3.5	4.7	5.8	6.6	6.9	6.9	6.3	5.4	4.3	3.0	1.8	0.9	0.3	0.0	60.6	60.3
60	0.1	0.4	0.9	1.7	2.5	3.4	4.2	4.7	4.9	4.8	4.4	3.8	2.9	2.1	1.3	0.6	0.2	0.0	42.8	42.3
70	0.0	0.2	0.6	1.0	1.5	2.0	2.5	2.8	2.9	2.8	2.5	2.1	1.6	1.1	0.7	0.3	0.1	0.0	24.8	23.3
80	0.0	0.1	0.3	0.4	0.6	0.8	0.9	0.9	0.9	0.9	0.8	0.6	0.4	0.3	0.1	0.1	0.0	0.0	8.2	2.7
Flux(T)	1.6	9.6	25.1	46.5	71.2	96.2	118.0	133.7	141.3	139.8	129.2	111.2	88.1	62.9	38.9	19.2	6.2	0.6	1239	
Flux(E)	0.7	8.7	24.1	45.6	70.3	95.2	117.1	132.8	140.4	138.9	128.3	110.2	87.1	61.8	37.8	18.2	5.0	0.0		1222

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

UGR Table

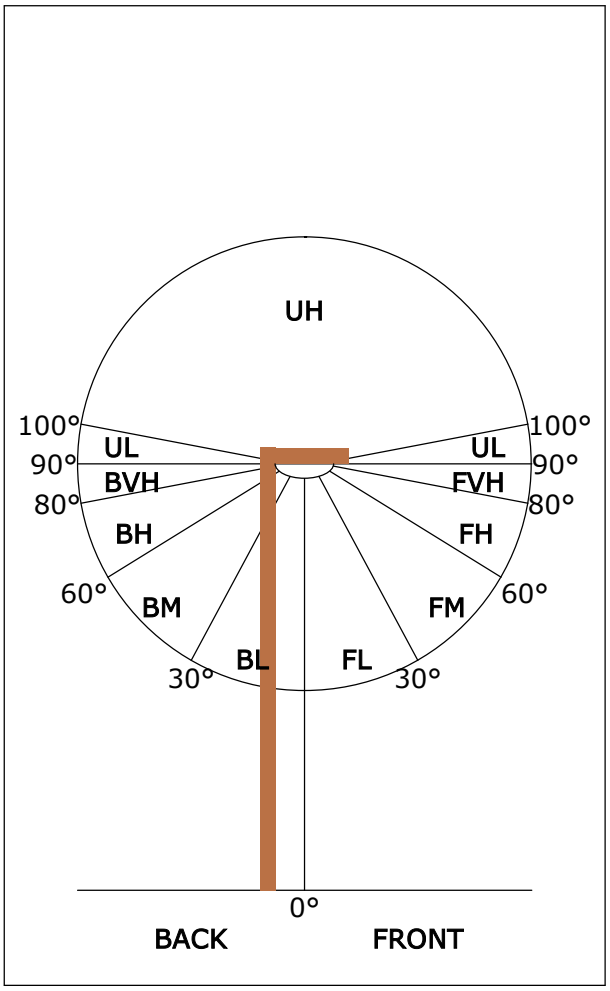
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-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 1277lm (8log(F/F0) = 0.8).

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



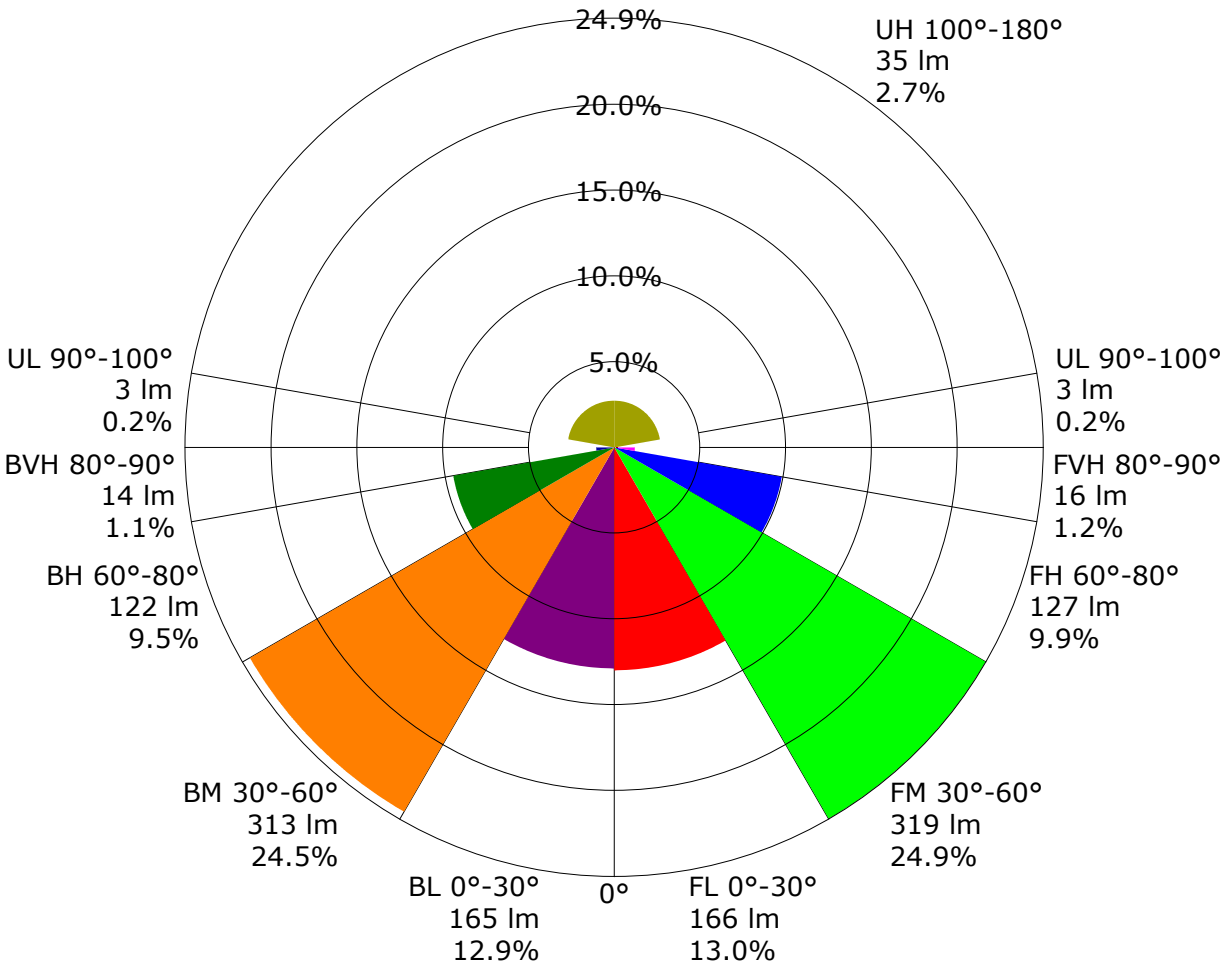
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	627	49.1
FL (0°-30°)	166	13.0
FM (30°-60°)	319	24.9
FH (60°-80°)	127	9.9
FVH (80°-90°)	16	1.2
BACK LIGHT	612	48.0
BL (0°-30°)	165	12.9
BM (30°-60°)	313	24.5
BH (60°-80°)	122	9.5
BVH (80°-90°)	14	1.1
UP LIGHT	38	2.9
UL (90°-100°)	3	0.2
UH (100°-180°)	35	2.7
TRAPPED LIGHT	NA	NA

BUG(**B**acklight,**U**plight,**G**lare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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	0.55	0.65	0.73	0.78	0.86	0.91	0.94	0.99	1.02
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.98
	0.20		0.41	0.52	0.59	0.65	0.74	0.80	0.85	0.91	0.95
0.50	0.50	0.20	0.53	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.97
	0.30		0.46	0.56	0.63	0.69	0.77	0.82	0.86	0.91	0.94
	0.20		0.41	0.51	0.58	0.64	0.72	0.78	0.82	0.88	0.91
0.30	0.50	0.20	0.52	0.61	0.67	0.72	0.79	0.83	0.86	0.90	0.93
	0.30		0.45	0.55	0.62	0.67	0.74	0.79	0.83	0.87	0.90
	0.20		0.40	0.50	0.57	0.63	0.70	0.76	0.79	0.85	0.88
0.00	0.00	0.00	0.38	0.47	0.54	0.59	0.66	0.71	0.75	0.80	0.83

Rating:15W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.28	0.23
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.21
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	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
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.37	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.31	0.26	0.22	0.18	0.15

Rating:15W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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	0.19	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19
0.50	0.50	0.20	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24
	0.30		0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.19
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23
	0.30		0.12	0.13	0.15	0.15	0.17	0.18	0.19	0.20	0.20
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Rating:15W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	425.0	0.4	0.4	0.03	0.03
1.0-2.0	424.9	1.2	1.6	0.10	0.13
2.0-3.0	424.6	2.0	3.7	0.16	0.29
3.0-4.0	424.2	2.8	6.5	0.22	0.51
4.0-5.0	423.6	3.6	10.1	0.29	0.79
5.0-6.0	422.9	4.4	14.6	0.35	1.14
6.0-7.0	421.9	5.2	19.8	0.41	1.55
7.0-8.0	420.9	6.0	25.8	0.47	2.02
8.0-9.0	419.7	6.8	32.7	0.53	2.56
9.0-10.0	418.4	7.6	40.2	0.59	3.15
10.0-11.0	416.9	8.3	48.6	0.65	3.80
11.0-12.0	415.3	9.1	57.6	0.71	4.51
12.0-13.0	413.5	9.8	67.4	0.77	5.28
13.0-14.0	411.6	10.5	78.0	0.83	6.11
14.0-15.0	409.5	11.2	89.2	0.88	6.99
15.0-16.0	407.3	11.9	101.2	0.93	7.92
16.0-17.0	404.9	12.6	113.8	0.99	8.91
17.0-18.0	402.5	13.3	127.1	1.04	9.95
18.0-19.0	399.9	13.9	141.0	1.09	11.04
19.0-20.0	397.1	14.5	155.5	1.14	12.18
20.0-21.0	394.3	15.1	170.6	1.19	13.36
21.0-22.0	391.2	15.7	186.4	1.23	14.60
22.0-23.0	388.0	16.3	202.6	1.28	15.87
23.0-24.0	384.7	16.8	219.5	1.32	17.19
24.0-25.0	381.2	17.3	236.8	1.36	18.55
25.0-26.0	377.8	17.8	254.6	1.40	19.94
26.0-27.0	374.0	18.3	272.9	1.43	21.38
27.0-28.0	370.2	18.7	291.7	1.47	22.84
28.0-29.0	366.4	19.2	310.9	1.50	24.35
29.0-30.0	362.3	19.6	330.4	1.53	25.88
30.0-31.0	358.1	19.9	350.4	1.56	27.44
31.0-32.0	353.7	20.3	370.6	1.59	29.03
32.0-33.0	349.3	20.6	391.2	1.61	30.64
33.0-34.0	344.9	20.9	412.1	1.63	32.27
34.0-35.0	340.2	21.1	433.2	1.65	33.93
35.0-36.0	335.4	21.4	454.6	1.67	35.60

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	330.7	21.6	476.1	1.69	37.29
37.0-38.0	325.7	21.7	497.9	1.70	38.99
38.0-39.0	320.6	21.9	519.8	1.71	40.71
39.0-40.0	315.3	22.0	541.8	1.72	42.43
40.0-41.0	310.0	22.1	563.8	1.73	44.16
41.0-42.0	304.8	22.1	586.0	1.73	45.89
42.0-43.0	299.3	22.2	608.1	1.74	47.63
43.0-44.0	293.7	22.2	630.3	1.74	49.36
44.0-45.0	288.1	22.1	652.5	1.73	51.10
45.0-46.0	282.2	22.1	674.5	1.73	52.83
46.0-47.0	276.4	22.0	696.5	1.72	54.55
47.0-48.0	270.5	21.9	718.4	1.71	56.26
48.0-49.0	264.4	21.7	740.1	1.70	57.96
49.0-50.0	258.5	21.6	761.7	1.69	59.65
50.0-51.0	252.4	21.4	783.0	1.67	61.32
51.0-52.0	246.0	21.1	804.1	1.65	62.98
52.0-53.0	239.6	20.8	825.0	1.63	64.61
53.0-54.0	233.2	20.6	845.5	1.61	66.22
54.0-55.0	226.9	20.3	865.8	1.59	67.81
55.0-56.0	220.4	19.9	885.7	1.56	69.37
56.0-57.0	213.8	19.5	905.3	1.53	70.90
57.0-58.0	207.4	19.2	924.4	1.50	72.40
58.0-59.0	200.7	18.8	943.2	1.47	73.87
59.0-60.0	193.9	18.3	961.5	1.43	75.30
60.0-61.0	187.0	17.9	979.4	1.40	76.70
61.0-62.0	180.2	17.4	996.7	1.36	78.06
62.0-63.0	173.6	16.9	1013.6	1.32	79.39
63.0-64.0	166.7	16.4	1030.0	1.28	80.67
64.0-65.0	159.8	15.8	1045.8	1.24	81.91
65.0-66.0	153.2	15.3	1061.1	1.20	83.10
66.0-67.0	146.3	14.7	1075.8	1.15	84.26
67.0-68.0	139.4	14.1	1089.9	1.11	85.36
68.0-69.0	132.4	13.5	1103.5	1.06	86.42
69.0-70.0	125.4	12.9	1116.3	1.01	87.43
70.0-71.0	118.8	12.3	1128.6	0.96	88.39
71.0-72.0	112.0	11.6	1140.3	0.91	89.30

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	105.1	11.0	1151.3	0.86	90.16
73.0-74.0	98.6	10.4	1161.6	0.81	90.98
74.0-75.0	91.8	9.7	1171.3	0.76	91.74
75.0-76.0	85.1	9.0	1180.4	0.71	92.44
76.0-77.0	78.5	8.4	1188.7	0.66	93.10
77.0-78.0	71.9	7.7	1196.4	0.60	93.70
78.0-79.0	65.7	7.1	1203.5	0.55	94.25
79.0-80.0	59.3	6.4	1209.9	0.50	94.76
80.0-81.0	52.9	5.7	1215.6	0.45	95.20
81.0-82.0	46.9	5.1	1220.7	0.40	95.60
82.0-83.0	40.8	4.4	1225.1	0.35	95.95
83.0-84.0	34.7	3.8	1228.9	0.30	96.24
84.0-85.0	28.7	3.1	1232.0	0.25	96.49
85.0-86.0	22.8	2.5	1234.5	0.20	96.69
86.0-87.0	17.4	1.9	1236.4	0.15	96.83
87.0-88.0	12.3	1.4	1237.8	0.11	96.94
88.0-89.0	8.3	0.9	1238.7	0.07	97.01
89.0-90.0	5.4	0.6	1239.3	0.05	97.06
90.0-91.0	3.3	0.4	1239.7	0.03	97.09
91.0-92.0	2.3	0.3	1239.9	0.02	97.11
92.0-93.0	2.2	0.2	1240.2	0.02	97.13
93.0-94.0	2.3	0.3	1240.4	0.02	97.15
94.0-95.0	2.4	0.3	1240.7	0.02	97.17
95.0-96.0	2.5	0.3	1240.9	0.02	97.19
96.0-97.0	2.6	0.3	1241.2	0.02	97.21
97.0-98.0	2.8	0.3	1241.5	0.02	97.23
98.0-99.0	2.9	0.3	1241.8	0.02	97.26
99.0-100.0	3.0	0.3	1242.2	0.03	97.28
100.0-101.0	3.2	0.3	1242.5	0.03	97.31
101.0-102.0	3.3	0.4	1242.9	0.03	97.34
102.0-103.0	3.4	0.4	1243.2	0.03	97.37
103.0-104.0	3.6	0.4	1243.6	0.03	97.40
104.0-105.0	3.7	0.4	1244.0	0.03	97.43
105.0-106.0	3.9	0.4	1244.4	0.03	97.46
106.0-107.0	4.0	0.4	1244.8	0.03	97.49
107.0-108.0	4.2	0.4	1245.3	0.03	97.53

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	4.3	0.4	1245.7	0.03	97.56
109.0-110.0	4.4	0.5	1246.2	0.04	97.60
110.0-111.0	4.6	0.5	1246.6	0.04	97.63
111.0-112.0	4.7	0.5	1247.1	0.04	97.67
112.0-113.0	4.9	0.5	1247.6	0.04	97.71
113.0-114.0	5.0	0.5	1248.1	0.04	97.75
114.0-115.0	5.1	0.5	1248.6	0.04	97.79
115.0-116.0	5.3	0.5	1249.2	0.04	97.83
116.0-117.0	5.4	0.5	1249.7	0.04	97.87
117.0-118.0	5.6	0.5	1250.2	0.04	97.91
118.0-119.0	5.7	0.6	1250.8	0.04	97.96
119.0-120.0	5.8	0.6	1251.3	0.04	98.00
120.0-121.0	6.0	0.6	1251.9	0.04	98.05
121.0-122.0	6.1	0.6	1252.5	0.04	98.09
122.0-123.0	6.2	0.6	1253.1	0.05	98.14
123.0-124.0	6.4	0.6	1253.6	0.05	98.18
124.0-125.0	6.5	0.6	1254.2	0.05	98.23
125.0-126.0	6.6	0.6	1254.8	0.05	98.27
126.0-127.0	6.8	0.6	1255.4	0.05	98.32
127.0-128.0	6.9	0.6	1256.0	0.05	98.37
128.0-129.0	7.0	0.6	1256.6	0.05	98.41
129.0-130.0	7.1	0.6	1257.2	0.05	98.46
130.0-131.0	7.2	0.6	1257.8	0.05	98.51
131.0-132.0	7.4	0.6	1258.4	0.05	98.56
132.0-133.0	7.5	0.6	1259.0	0.05	98.60
133.0-134.0	7.6	0.6	1259.6	0.05	98.65
134.0-135.0	7.7	0.6	1260.2	0.05	98.70
135.0-136.0	7.8	0.6	1260.8	0.05	98.74
136.0-137.0	7.9	0.6	1261.4	0.05	98.79
137.0-138.0	8.0	0.6	1262.0	0.05	98.84
138.0-139.0	8.1	0.6	1262.6	0.05	98.88
139.0-140.0	8.2	0.6	1263.2	0.05	98.93
140.0-141.0	8.3	0.6	1263.8	0.05	98.97
141.0-142.0	8.4	0.6	1264.3	0.04	99.02
142.0-143.0	8.5	0.6	1264.9	0.04	99.06
143.0-144.0	8.6	0.6	1265.5	0.04	99.11

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	8.6	0.5	1266.0	0.04	99.15
145.0-146.0	8.7	0.5	1266.5	0.04	99.19
146.0-147.0	8.8	0.5	1267.1	0.04	99.23
147.0-148.0	8.9	0.5	1267.6	0.04	99.28
148.0-149.0	8.9	0.5	1268.1	0.04	99.32
149.0-150.0	9.0	0.5	1268.6	0.04	99.35
150.0-151.0	9.1	0.5	1269.1	0.04	99.39
151.0-152.0	9.2	0.5	1269.6	0.04	99.43
152.0-153.0	9.3	0.5	1270.1	0.04	99.47
153.0-154.0	9.3	0.5	1270.5	0.04	99.50
154.0-155.0	9.4	0.4	1271.0	0.03	99.54
155.0-156.0	9.5	0.4	1271.4	0.03	99.57
156.0-157.0	9.6	0.4	1271.8	0.03	99.60
157.0-158.0	9.6	0.4	1272.2	0.03	99.64
158.0-159.0	9.7	0.4	1272.6	0.03	99.67
159.0-160.0	9.8	0.4	1273.0	0.03	99.70
160.0-161.0	9.8	0.4	1273.3	0.03	99.72
161.0-162.0	9.9	0.3	1273.7	0.03	99.75
162.0-163.0	10.0	0.3	1274.0	0.03	99.78
163.0-164.0	10.0	0.3	1274.3	0.02	99.80
164.0-165.0	10.1	0.3	1274.6	0.02	99.82
165.0-166.0	10.1	0.3	1274.9	0.02	99.85
166.0-167.0	10.2	0.3	1275.2	0.02	99.87
167.0-168.0	10.3	0.2	1275.4	0.02	99.89
168.0-169.0	10.3	0.2	1275.6	0.02	99.90
169.0-170.0	10.4	0.2	1275.8	0.02	99.92
170.0-171.0	10.5	0.2	1276.0	0.01	99.93
171.0-172.0	10.6	0.2	1276.2	0.01	99.95
172.0-173.0	10.6	0.2	1276.3	0.01	99.96
173.0-174.0	10.7	0.1	1276.5	0.01	99.97
174.0-175.0	10.8	0.1	1276.6	0.01	99.98
175.0-176.0	10.8	0.1	1276.7	0.01	99.99
176.0-177.0	10.9	0.1	1276.8	0.01	99.99
177.0-178.0	11.0	0.1	1276.8	0.00	100.00
178.0-179.0	11.0	0.0	1276.8	0.00	100.00
179.0-180.0	11.1	0.0	1276.9	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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	425.6	425.0	425.1	424.6	425.0	425.1	425.6	425.0	425.1	424.6
G1.0	425.1	424.9	424.7	425.0	425.4	425.1	425.6	425.2	424.5	424.7
G2.0	424.7	424.4	424.6	424.7	425.2	425.5	425.8	425.1	424.7	424.2
G3.0	423.9	423.8	424.1	424.7	425.2	425.4	425.6	425.2	424.3	423.8
G4.0	423.3	423.0	423.7	424.2	425.0	425.5	425.7	424.6	423.9	423.1
G5.0	422.2	422.4	422.8	423.8	424.9	425.0	425.1	424.4	423.1	422.5
G6.0	421.0	421.1	422.2	423.0	424.0	424.6	424.7	423.5	422.6	421.3
G7.0	419.7	420.1	420.9	422.1	423.6	423.9	424.0	422.9	421.7	420.5
G8.0	418.3	418.4	419.8	421.0	422.5	423.4	423.3	421.9	420.4	419.1
G9.0	416.9	417.3	418.3	420.2	421.7	422.1	422.1	420.7	419.6	417.6
G10.0	415.3	415.6	417.1	418.9	420.5	421.3	421.0	419.8	418.0	416.3
G11.0	413.0	414.0	415.0	417.3	419.2	420.0	419.6	418.3	416.5	414.3
G12.0	411.4	411.8	413.5	415.8	417.7	418.6	418.4	416.9	414.8	412.8
G13.0	409.2	409.8	411.6	414.2	416.1	417.0	416.8	415.0	413.2	411.0
G14.0	406.5	407.4	409.6	412.1	414.3	415.6	415.0	413.3	411.2	408.8
G15.0	404.4	405.1	407.4	410.0	412.5	413.6	413.2	411.1	409.3	406.5
G16.0	401.5	402.7	405.0	407.9	410.6	411.5	411.0	409.1	407.0	403.9
G17.0	399.0	400.0	402.8	405.7	408.5	409.5	409.0	406.9	404.6	401.6
G18.0	396.1	397.6	400.1	403.6	406.3	407.3	406.6	404.7	402.3	399.1
G19.0	393.2	394.3	397.3	400.7	403.3	404.7	404.1	402.0	399.5	396.3
G20.0	389.9	391.6	394.4	398.1	401.2	402.2	401.7	399.4	396.9	393.2
G21.0	386.9	388.4	391.6	395.3	398.4	400.0	399.0	396.8	394.2	390.6
G22.0	383.3	384.8	388.2	392.2	395.3	396.7	396.1	393.9	391.0	387.0
G23.0	379.8	381.6	384.8	389.4	392.4	393.9	393.2	390.9	388.0	384.0
G24.0	376.0	377.6	381.3	385.8	389.1	390.7	389.9	387.5	384.4	380.6
G25.0	372.0	374.3	377.8	382.7	386.0	387.5	386.6	384.4	381.3	377.0
G26.0	368.4	370.4	374.3	379.2	382.6	384.3	383.5	380.8	377.9	373.3
G27.0	364.2	366.3	370.4	375.6	378.9	380.5	379.7	377.3	373.7	369.6
G28.0	360.1	362.3	366.5	371.8	375.5	377.1	376.3	373.5	370.2	365.4
G29.0	355.8	358.2	362.6	368.1	371.8	373.4	372.6	370.2	366.4	361.5
G30.0	351.4	353.7	358.2	363.8	367.7	369.5	368.5	365.7	362.1	357.0
G31.0	347.0	349.4	354.1	360.0	363.7	365.6	364.5	362.0	358.2	353.2
G32.0	342.1	344.6	349.4	355.3	359.5	361.2	360.3	357.4	353.7	348.2
G33.0	337.6	340.0	345.2	351.4	355.7	357.1	356.0	353.1	349.3	344.1
G34.0	332.7	335.5	340.8	346.8	351.2	352.9	351.9	349.0	345.0	339.5
G35.0	327.6	330.2	335.6	342.0	346.2	348.0	347.1	344.0	340.1	334.7
G36.0	322.7	325.5	331.1	337.3	342.0	343.6	342.6	339.7	335.5	329.9

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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	317.9	320.4	326.3	332.8	337.5	339.3	338.2	335.0	331.0	325.2
G38.0	312.0	315.1	321.0	327.6	332.1	334.5	333.0	330.1	325.6	319.6
G39.0	307.1	309.8	315.8	322.6	327.5	329.5	328.3	325.4	320.8	314.8
G40.0	301.0	304.2	310.4	317.3	322.2	324.3	323.1	319.9	315.1	309.2
G41.0	296.0	298.7	305.1	312.2	317.3	319.3	317.9	314.9	310.2	304.0
G42.0	290.5	293.5	299.8	307.2	312.0	314.3	313.0	309.6	304.9	298.7
G43.0	284.3	287.6	294.0	301.6	306.5	308.4	307.2	304.1	299.3	292.9
G44.0	278.8	282.0	288.3	296.1	301.3	303.4	302.0	298.8	294.2	287.3
G45.0	273.0	276.3	282.9	290.7	295.8	298.0	296.2	292.7	288.1	281.6
G46.0	266.6	269.8	276.8	284.5	289.9	292.1	290.6	287.2	282.6	275.7
G47.0	260.8	264.0	270.9	279.0	284.5	286.5	285.0	281.5	276.7	270.2
G48.0	254.1	257.6	264.7	272.9	278.2	280.7	279.2	275.5	270.6	264.0
G49.0	248.1	251.4	258.6	267.0	272.6	274.7	273.1	269.9	264.8	258.0
G50.0	242.3	245.5	252.9	261.3	266.6	269.2	267.6	264.2	259.1	252.1
G51.0	235.2	238.7	246.2	254.8	260.4	262.5	261.2	257.9	252.8	245.6
G52.0	229.1	232.5	240.1	248.6	254.6	256.9	255.1	251.6	246.6	239.3
G53.0	222.0	225.9	233.3	242.2	247.7	250.3	248.7	245.1	240.1	232.9
G54.0	215.9	219.3	227.0	235.9	241.8	244.0	242.4	238.9	233.7	226.4
G55.0	209.3	213.2	220.7	229.8	235.5	237.9	236.2	232.8	227.7	220.3
G56.0	202.3	205.9	213.8	222.7	228.7	231.1	229.5	226.2	220.9	213.6
G57.0	195.8	199.6	207.3	216.6	222.4	224.8	223.4	219.7	214.8	207.2
G58.0	189.2	193.2	201.2	210.0	215.9	218.4	216.9	213.5	208.1	200.8
G59.0	182.0	185.9	193.9	203.1	209.2	211.4	210.0	206.6	201.4	193.9
G60.0	175.3	179.4	187.5	196.5	202.6	204.9	203.6	200.1	194.6	187.3
G61.0	168.1	172.0	180.1	189.5	195.6	197.9	196.5	193.1	187.9	180.2
G62.0	161.2	165.4	173.7	183.1	188.9	191.5	190.1	186.5	181.5	173.8
G63.0	154.6	158.7	166.9	176.3	182.6	184.8	183.4	179.9	174.7	167.1
G64.0	147.4	151.4	159.8	169.3	175.0	177.8	176.3	172.8	167.6	160.1
G65.0	140.7	145.0	153.0	162.4	168.7	170.9	169.7	166.1	161.0	153.3
G66.0	134.3	138.2	146.5	155.9	161.9	164.5	162.9	159.6	154.5	146.9
G67.0	126.7	130.7	139.4	148.6	154.8	157.0	155.8	152.6	147.3	139.8
G68.0	120.3	124.2	132.6	142.0	147.9	150.6	149.3	145.8	140.5	133.1
G69.0	112.9	117.1	125.1	134.6	140.9	143.0	141.8	138.6	133.3	126.1
G70.0	106.5	110.3	118.6	128.0	134.0	136.2	134.9	131.9	126.7	119.2
G71.0	99.7	103.6	112.2	121.3	127.6	129.7	128.5	125.4	120.4	112.9
G72.0	92.8	96.6	104.8	114.2	120.1	122.6	121.0	118.1	112.9	105.7
G73.0	86.2	90.2	98.5	107.4	113.6	115.8	114.6	111.6	106.6	99.2

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 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	80.0	83.7	91.8	101.0	106.9	109.3	107.8	104.9	99.9	92.6
G75.0	72.9	76.6	84.9	93.7	100.0	102.1	100.8	97.9	93.0	85.7
G76.0	66.6	70.6	78.4	87.4	93.2	95.7	94.4	91.5	86.5	79.5
G77.0	60.1	63.7	71.7	80.3	86.5	88.4	87.2	84.4	79.6	72.5
G78.0	53.9	57.7	65.3	74.0	79.9	81.9	81.0	78.2	73.5	66.4
G79.0	48.1	51.5	59.1	67.6	73.8	75.7	74.5	71.8	67.1	60.0
G80.0	41.5	45.1	52.5	60.7	66.7	68.7	67.9	65.2	60.6	53.4
G81.0	35.8	39.1	46.3	54.7	60.4	62.7	61.8	58.9	54.3	47.4
G82.0	30.0	33.4	40.4	48.7	54.4	56.8	55.6	53.1	48.3	41.2
G83.0	24.1	27.2	34.1	41.9	47.9	50.0	49.2	46.6	41.9	34.9
G84.0	18.8	21.7	28.2	36.0	41.7	44.2	43.3	40.5	35.8	29.2
G85.0	12.9	15.8	22.1	29.5	35.4	37.6	36.9	34.3	29.6	22.8
G86.0	8.0	10.7	16.5	23.9	29.4	32.0	31.3	28.5	23.8	17.3
G87.0	3.3	5.6	11.3	18.0	23.8	26.3	25.6	23.2	18.3	11.7
G88.0	1.8	1.8	5.6	12.2	17.6	20.3	19.9	17.2	12.4	6.2
G89.0	1.9	1.8	2.0	7.1	12.3	14.8	14.6	12.1	7.4	2.3
G90.0	2.0	1.8	1.9	2.5	7.1	9.7	9.1	6.7	2.7	2.1
G91.0	2.1	2.0	2.0	1.8	2.4	4.5	4.2	2.4	2.1	2.3
G92.0	2.2	2.1	2.0	1.9	1.8	1.8	2.0	2.1	2.2	2.4
G93.0	2.3	2.3	2.2	2.0	1.9	1.8	2.1	2.2	2.4	2.5
G94.0	2.4	2.4	2.3	2.1	2.0	2.0	2.2	2.4	2.5	2.7
G95.0	2.5	2.5	2.4	2.2	2.1	2.1	2.3	2.5	2.6	2.8
G96.0	2.7	2.6	2.5	2.3	2.2	2.2	2.5	2.5	2.7	2.9
G97.0	2.7	2.7	2.5	2.5	2.3	2.2	2.6	2.7	2.8	3.1
G98.0	2.8	2.8	2.7	2.6	2.4	2.4	2.7	2.8	3.0	3.2
G99.0	3.0	2.9	2.9	2.7	2.5	2.4	2.9	2.9	3.1	3.3
G100.0	3.1	3.1	3.0	2.8	2.6	2.6	3.0	3.1	3.2	3.5
G101.0	3.2	3.2	3.1	3.0	2.8	2.7	3.1	3.2	3.4	3.7
G102.0	3.4	3.3	3.2	3.1	2.9	2.9	3.3	3.3	3.6	3.8
G103.0	3.6	3.4	3.3	3.2	3.0	2.9	3.4	3.5	3.6	3.9
G104.0	3.7	3.6	3.5	3.4	3.2	3.1	3.5	3.6	3.8	4.1
G105.0	3.8	3.7	3.6	3.5	3.3	3.3	3.7	3.8	3.9	4.3
G106.0	4.0	3.9	3.8	3.7	3.5	3.4	3.8	3.9	4.1	4.4
G107.0	4.2	4.0	3.9	3.8	3.6	3.5	4.0	4.1	4.3	4.6
G108.0	4.3	4.2	4.1	3.9	3.7	3.6	4.2	4.3	4.3	4.7
G109.0	4.4	4.3	4.2	4.1	3.8	3.7	4.3	4.3	4.5	4.8
G110.0	4.6	4.4	4.3	4.2	4.0	3.9	4.5	4.5	4.7	5.0

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	4.8	4.5	4.4	4.4	4.1	4.0	4.6	4.6	4.8	5.1
G112.0	4.9	4.7	4.6	4.5	4.3	4.1	4.7	4.7	5.0	5.3
G113.0	5.0	4.8	4.7	4.6	4.4	4.3	4.9	4.9	5.2	5.4
G114.0	5.1	5.0	4.9	4.8	4.6	4.4	5.0	5.1	5.3	5.6
G115.0	5.3	5.1	5.1	4.9	4.7	4.5	5.2	5.2	5.4	5.7
G116.0	5.4	5.2	5.3	5.1	4.8	4.7	5.3	5.3	5.6	5.9
G117.0	5.6	5.3	5.4	5.2	4.9	4.8	5.5	5.5	5.8	6.1
G118.0	5.7	5.5	5.5	5.3	5.1	5.0	5.6	5.6	5.9	6.2
G119.0	5.8	5.6	5.6	5.5	5.2	5.1	5.8	5.8	6.0	6.3
G120.0	6.0	5.7	5.7	5.6	5.3	5.3	5.9	5.9	6.2	6.6
G121.0	6.2	5.8	5.9	5.7	5.4	5.4	6.0	6.0	6.3	6.6
G122.0	6.3	5.9	6.0	5.8	5.6	5.5	6.2	6.2	6.4	6.8
G123.0	6.4	6.1	6.1	6.0	5.7	5.6	6.3	6.3	6.6	6.9
G124.0	6.5	6.2	6.3	6.2	5.8	5.8	6.4	6.5	6.7	7.1
G125.0	6.7	6.3	6.4	6.3	6.0	5.9	6.6	6.6	6.9	7.2
G126.0	6.8	6.5	6.5	6.5	6.1	6.0	6.7	6.7	6.9	7.3
G127.0	6.9	6.6	6.6	6.6	6.2	6.0	6.8	6.8	7.1	7.5
G128.0	7.1	6.7	6.8	6.8	6.3	6.2	7.0	6.9	7.2	7.6
G129.0	7.2	6.8	6.9	6.8	6.5	6.3	7.1	7.1	7.3	7.7
G130.0	7.3	6.9	7.0	6.9	6.6	6.4	7.2	7.2	7.4	7.7
G131.0	7.5	7.1	7.1	7.0	6.7	6.5	7.4	7.3	7.6	7.9
G132.0	7.6	7.1	7.2	7.1	6.7	6.7	7.5	7.4	7.6	8.1
G133.0	7.7	7.3	7.3	7.3	6.9	6.8	7.6	7.5	7.8	8.1
G134.0	7.8	7.4	7.5	7.3	6.9	6.9	7.7	7.6	7.8	8.3
G135.0	7.9	7.5	7.5	7.4	7.0	7.1	7.9	7.7	7.9	8.3
G136.0	8.1	7.6	7.7	7.5	7.1	7.2	8.0	7.8	8.0	8.5
G137.0	8.1	7.7	7.7	7.6	7.3	7.2	8.1	7.9	8.1	8.5
G138.0	8.3	7.8	7.8	7.7	7.3	7.4	8.2	8.1	8.2	8.6
G139.0	8.4	8.0	7.9	7.8	7.5	7.5	8.3	8.1	8.3	8.7
G140.0	8.5	8.1	8.0	7.9	7.6	7.6	8.4	8.2	8.4	8.8
G141.0	8.5	8.2	8.1	8.0	7.7	7.7	8.6	8.3	8.5	8.8
G142.0	8.6	8.3	8.2	8.0	7.7	7.7	8.6	8.4	8.6	8.9
G143.0	8.7	8.4	8.3	8.1	7.8	7.9	8.8	8.6	8.7	9.0
G144.0	8.8	8.4	8.3	8.3	7.9	8.1	8.8	8.6	8.8	9.1
G145.0	8.9	8.5	8.4	8.3	8.0	8.1	8.9	8.7	8.8	9.1
G146.0	9.0	8.7	8.5	8.4	8.1	8.3	9.0	8.9	8.9	9.1
G147.0	9.0	8.7	8.6	8.4	8.1	8.4	9.1	8.9	8.9	9.3

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	9.1	8.8	8.7	8.5	8.3	8.5	9.1	9.0	9.0	9.3
G149.0	9.2	8.9	8.8	8.5	8.4	8.5	9.2	9.1	9.1	9.3
G150.0	9.2	9.0	8.9	8.6	8.5	8.6	9.3	9.1	9.2	9.5
G151.0	9.4	9.0	9.0	8.7	8.6	8.8	9.3	9.3	9.3	9.6
G152.0	9.4	9.1	9.1	8.8	8.6	8.8	9.4	9.4	9.4	9.6
G153.0	9.5	9.2	9.1	8.7	8.7	8.9	9.5	9.4	9.5	9.6
G154.0	9.5	9.3	9.2	8.9	8.8	8.9	9.5	9.4	9.5	9.7
G155.0	9.6	9.4	9.3	9.0	8.8	9.1	9.6	9.6	9.6	9.8
G156.0	9.7	9.4	9.4	9.1	8.9	9.2	9.6	9.6	9.6	9.9
G157.0	9.8	9.5	9.5	9.1	9.0	9.3	9.7	9.7	9.7	9.9
G158.0	9.8	9.6	9.5	9.2	9.1	9.4	9.8	9.8	9.8	10.0
G159.0	9.9	9.7	9.6	9.3	9.2	9.5	9.8	9.9	9.9	10.1
G160.0	9.9	9.7	9.7	9.4	9.3	9.5	9.9	9.9	9.9	10.1
G161.0	9.9	9.8	9.8	9.5	9.3	9.6	9.9	10.0	9.9	10.2
G162.0	10.0	9.8	9.9	9.5	9.4	9.7	10.0	10.1	10.0	10.2
G163.0	10.1	9.9	10.0	9.6	9.4	9.8	10.1	10.1	10.1	10.3
G164.0	10.1	9.9	10.1	9.7	9.5	9.9	10.1	10.2	10.1	10.4
G165.0	10.2	10.0	10.1	9.8	9.6	10.0	10.2	10.2	10.1	10.4
G166.0	10.2	10.1	10.2	9.8	9.6	10.0	10.3	10.2	10.2	10.5
G167.0	10.3	10.2	10.3	9.9	9.8	10.1	10.3	10.3	10.3	10.5
G168.0	10.4	10.2	10.3	10.0	9.9	10.1	10.4	10.3	10.4	10.6
G169.0	10.4	10.3	10.4	10.1	9.9	10.2	10.5	10.4	10.4	10.7
G170.0	10.4	10.3	10.5	10.3	10.0	10.3	10.5	10.4	10.5	10.8
G171.0	10.6	10.4	10.6	10.4	10.1	10.4	10.6	10.5	10.6	10.9
G172.0	10.7	10.5	10.7	10.5	10.2	10.4	10.7	10.6	10.6	11.0
G173.0	10.8	10.6	10.8	10.6	10.3	10.5	10.8	10.6	10.7	11.0
G174.0	10.9	10.6	10.8	10.7	10.4	10.6	10.8	10.7	10.8	11.1
G175.0	11.0	10.7	10.8	10.9	10.5	10.7	10.9	10.8	10.8	11.1
G176.0	11.0	10.7	10.9	11.0	10.6	10.8	11.0	10.8	10.9	11.2
G177.0	11.1	10.8	11.0	11.1	10.7	10.8	11.1	10.9	11.0	11.2
G178.0	11.2	10.9	11.1	11.1	10.8	10.9	11.2	10.9	11.0	11.3
G179.0	11.3	11.0	11.0	11.2	10.9	10.9	11.2	10.9	11.0	11.3
G180.0	11.3	11.0	11.1	11.3	10.9	11.0	11.2	11.0	11.1	11.3

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	425.0	425.1	425.6							
G1.0	424.7	424.7	425.1							
G2.0	424.1	424.3	424.7							
G3.0	423.7	423.3	423.9							
G4.0	422.7	422.7	423.3							
G5.0	421.7	421.6	422.2							
G6.0	420.6	420.3	421.0							
G7.0	419.5	419.0	419.7							
G8.0	418.1	417.5	418.3							
G9.0	416.6	415.9	416.9							
G10.0	415.1	414.1	415.3							
G11.0	413.3	412.4	413.0							
G12.0	411.4	410.3	411.4							
G13.0	409.2	408.3	409.2							
G14.0	407.0	405.8	406.5							
G15.0	404.6	403.3	404.4							
G16.0	402.1	400.7	401.5							
G17.0	399.5	398.2	399.0							
G18.0	396.8	395.4	396.1							
G19.0	393.7	392.2	393.2							
G20.0	390.7	389.0	389.9							
G21.0	387.6	385.9	386.9							
G22.0	384.1	382.4	383.3							
G23.0	380.8	378.8	379.8							
G24.0	377.0	375.1	376.0							
G25.0	373.4	371.3	372.0							
G26.0	369.7	367.6	368.4							
G27.0	365.6	363.3	364.2							
G28.0	361.5	359.2	360.1							
G29.0	357.6	355.3	355.8							
G30.0	353.1	350.5	351.4							
G31.0	348.8	346.0	347.0							
G32.0	344.0	341.1	342.1							
G33.0	339.5	336.7	337.6							
G34.0	334.8	332.0	332.7							
G35.0	329.8	326.8	327.6							
G36.0	325.1	321.7	322.7							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	320.0	317.0	317.9							
G38.0	314.7	311.1	312.0							
G39.0	309.3	306.2	307.1							
G40.0	303.9	300.5	301.0							
G41.0	298.4	294.9	296.0							
G42.0	293.2	289.5	290.5							
G43.0	287.2	283.3	284.3							
G44.0	281.7	277.9	278.8							
G45.0	275.5	271.6	273.0							
G46.0	269.9	265.7	266.6							
G47.0	263.9	259.8	260.8							
G48.0	257.6	253.5	254.1							
G49.0	251.7	247.6	248.1							
G50.0	245.5	241.4	242.3							
G51.0	239.1	234.8	235.2							
G52.0	232.6	228.4	229.1							
G53.0	226.0	221.5	222.0							
G54.0	219.9	215.1	215.9							
G55.0	213.5	208.7	209.3							
G56.0	206.9	201.8	202.3							
G57.0	200.2	195.5	195.8							
G58.0	193.9	188.8	189.2							
G59.0	186.6	181.8	182.0							
G60.0	180.4	175.1	175.3							
G61.0	172.9	168.1	168.1							
G62.0	166.5	161.5	161.2							
G63.0	160.1	154.7	154.6							
G64.0	153.0	147.6	147.4							
G65.0	146.3	141.1	140.7							
G66.0	139.8	134.2	134.3							
G67.0	132.4	127.2	126.7							
G68.0	125.9	120.7	120.3							
G69.0	118.5	113.3	112.9							
G70.0	112.2	106.6	106.5							
G71.0	105.5	100.2	99.7							
G72.0	98.4	92.9	92.8							
G73.0	91.8	86.7	86.2							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	85.7	80.4	80.0							
G75.0	78.9	73.4	72.9							
G76.0	72.4	67.3	66.6							
G77.0	65.7	60.5	60.1							
G78.0	59.4	54.6	53.9							
G79.0	53.4	48.7	48.1							
G80.0	46.6	42.1	41.5							
G81.0	40.8	36.4	35.8							
G82.0	35.0	30.5	30.0							
G83.0	28.5	24.5	24.1							
G84.0	23.0	19.1	18.8							
G85.0	17.0	13.2	12.9							
G86.0	11.5	8.2	8.0							
G87.0	6.5	3.5	3.3							
G88.0	2.3	1.9	1.8							
G89.0	2.1	2.1	1.9							
G90.0	2.2	2.1	2.0							
G91.0	2.3	2.3	2.1							
G92.0	2.5	2.4	2.2							
G93.0	2.6	2.5	2.3							
G94.0	2.7	2.7	2.4							
G95.0	2.8	2.8	2.5							
G96.0	2.9	2.9	2.7							
G97.0	3.1	3.1	2.7							
G98.0	3.2	3.3	2.8							
G99.0	3.4	3.4	3.0							
G100.0	3.5	3.5	3.1							
G101.0	3.7	3.7	3.2							
G102.0	3.8	3.8	3.4							
G103.0	4.0	4.0	3.6							
G104.0	4.1	4.2	3.7							
G105.0	4.2	4.3	3.8							
G106.0	4.4	4.4	4.0							
G107.0	4.6	4.6	4.2							
G108.0	4.7	4.7	4.3							
G109.0	4.8	4.8	4.4							
G110.0	5.0	5.0	4.6							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	5.2	5.1	4.8							
G112.0	5.3	5.3	4.9							
G113.0	5.5	5.4	5.0							
G114.0	5.6	5.6	5.1							
G115.0	5.7	5.7	5.3							
G116.0	5.9	5.8	5.4							
G117.0	6.1	6.0	5.6							
G118.0	6.1	6.2	5.7							
G119.0	6.2	6.3	5.8							
G120.0	6.4	6.4	6.0							
G121.0	6.5	6.6	6.2							
G122.0	6.7	6.7	6.3							
G123.0	6.8	6.8	6.4							
G124.0	6.9	6.9	6.5							
G125.0	7.0	7.1	6.7							
G126.0	7.2	7.2	6.8							
G127.0	7.3	7.3	6.9							
G128.0	7.4	7.5	7.1							
G129.0	7.5	7.6	7.2							
G130.0	7.6	7.7	7.3							
G131.0	7.8	7.8	7.5							
G132.0	7.8	7.9	7.6							
G133.0	7.9	8.0	7.7							
G134.0	8.0	8.1	7.8							
G135.0	8.2	8.2	7.9							
G136.0	8.3	8.3	8.1							
G137.0	8.4	8.5	8.1							
G138.0	8.4	8.6	8.3							
G139.0	8.6	8.7	8.4							
G140.0	8.6	8.8	8.5							
G141.0	8.7	8.8	8.5							
G142.0	8.7	9.0	8.6							
G143.0	8.9	9.1	8.7							
G144.0	9.0	9.1	8.8							
G145.0	9.0	9.1	8.9							
G146.0	9.1	9.3	9.0							
G147.0	9.2	9.4	9.0							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	9.3	9.5	9.1							
G149.0	9.4	9.5	9.2							
G150.0	9.4	9.6	9.2							
G151.0	9.5	9.6	9.4							
G152.0	9.5	9.8	9.4							
G153.0	9.6	9.8	9.5							
G154.0	9.7	9.9	9.5							
G155.0	9.7	9.9	9.6							
G156.0	9.8	10.0	9.7							
G157.0	9.9	10.0	9.8							
G158.0	10.0	10.1	9.8							
G159.0	10.0	10.1	9.9							
G160.0	10.1	10.2	9.9							
G161.0	10.1	10.2	9.9							
G162.0	10.2	10.3	10.0							
G163.0	10.2	10.3	10.1							
G164.0	10.3	10.4	10.1							
G165.0	10.4	10.4	10.2							
G166.0	10.4	10.5	10.2							
G167.0	10.5	10.5	10.3							
G168.0	10.6	10.6	10.4							
G169.0	10.6	10.6	10.4							
G170.0	10.6	10.7	10.4							
G171.0	10.7	10.7	10.6							
G172.0	10.8	10.7	10.7							
G173.0	10.8	10.7	10.8							
G174.0	10.8	10.8	10.9							
G175.0	10.9	10.8	11.0							
G176.0	10.9	10.8	11.0							
G177.0	11.0	10.9	11.1							
G178.0	11.0	10.9	11.2							
G179.0	11.0	10.9	11.3							
G180.0	10.9	10.9	11.3							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator: OQC1

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.432 m
Humidity:
Inspector: