Report No.: 9 Test Time: 2015/7/14 17:11

Luminaire Property

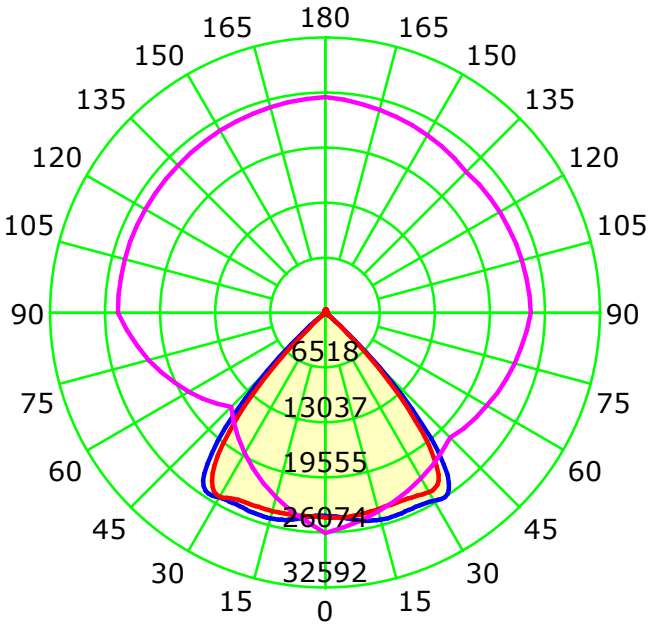
Luminaire Manufacturer:
Luminaire Description: HB-A400-H107E Voltage: 220V
Current: 1.95 A Power: 420W
Power Factor: 0.98

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 43680.4 lm
Measurement Flux: 43680.4 lm Efficiency: 100%
Downward Ratio: 98% Upward Ratio: 2%
Horizontal Diffuse Angle(10%,50%): H97.5,H86.8
Vertical Diffuse Angle(10%,50%): V95.3,V84.5
Luminaire Efficacy Rating (LER): 104 Central Intensity: 24078.93 cd
Max. Intensity: 26074.12 cd Pos of Max. Intensity: H0 V33

Picture Of Luminaire

Luminous Intensity Distribution Curve



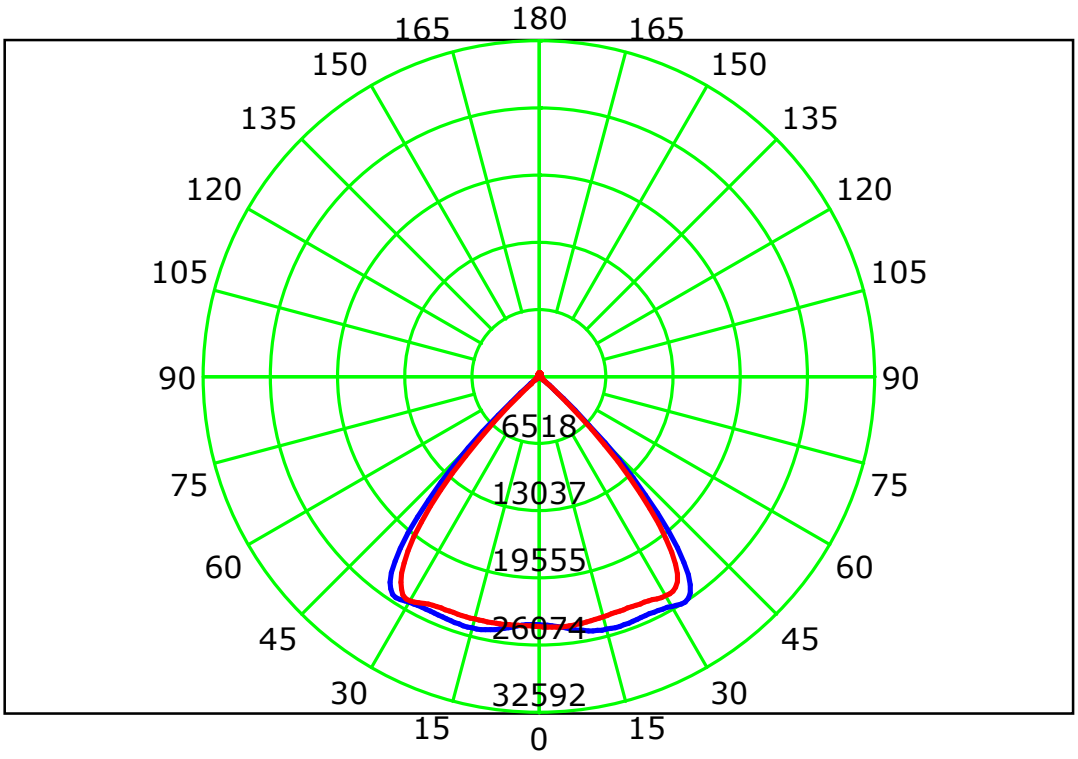
Unit: cd

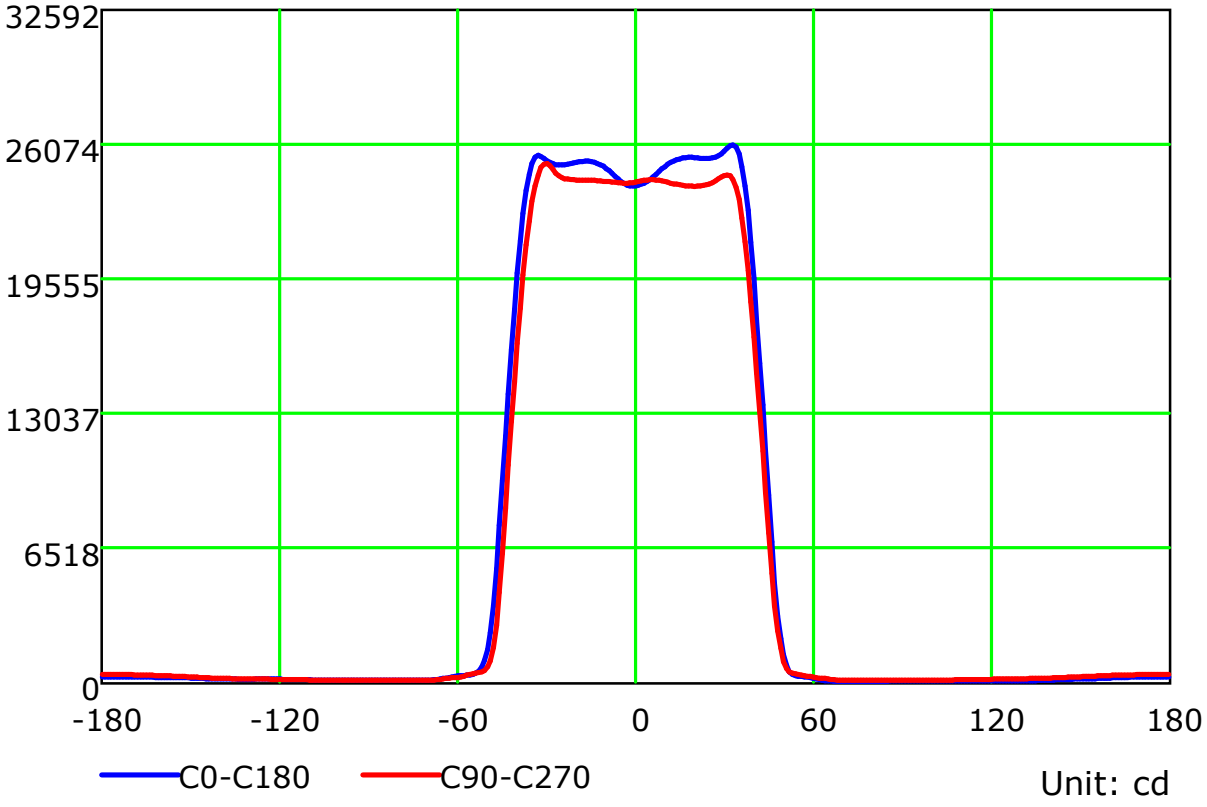
Average Diffuse Angle(50%): 85.6°

C0-C180 C90-C270 G33

C Plane (°):0.0-360.0: 45.0 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: GPM-1800B
Test Type: TYPE C Distance: 8.030 m
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

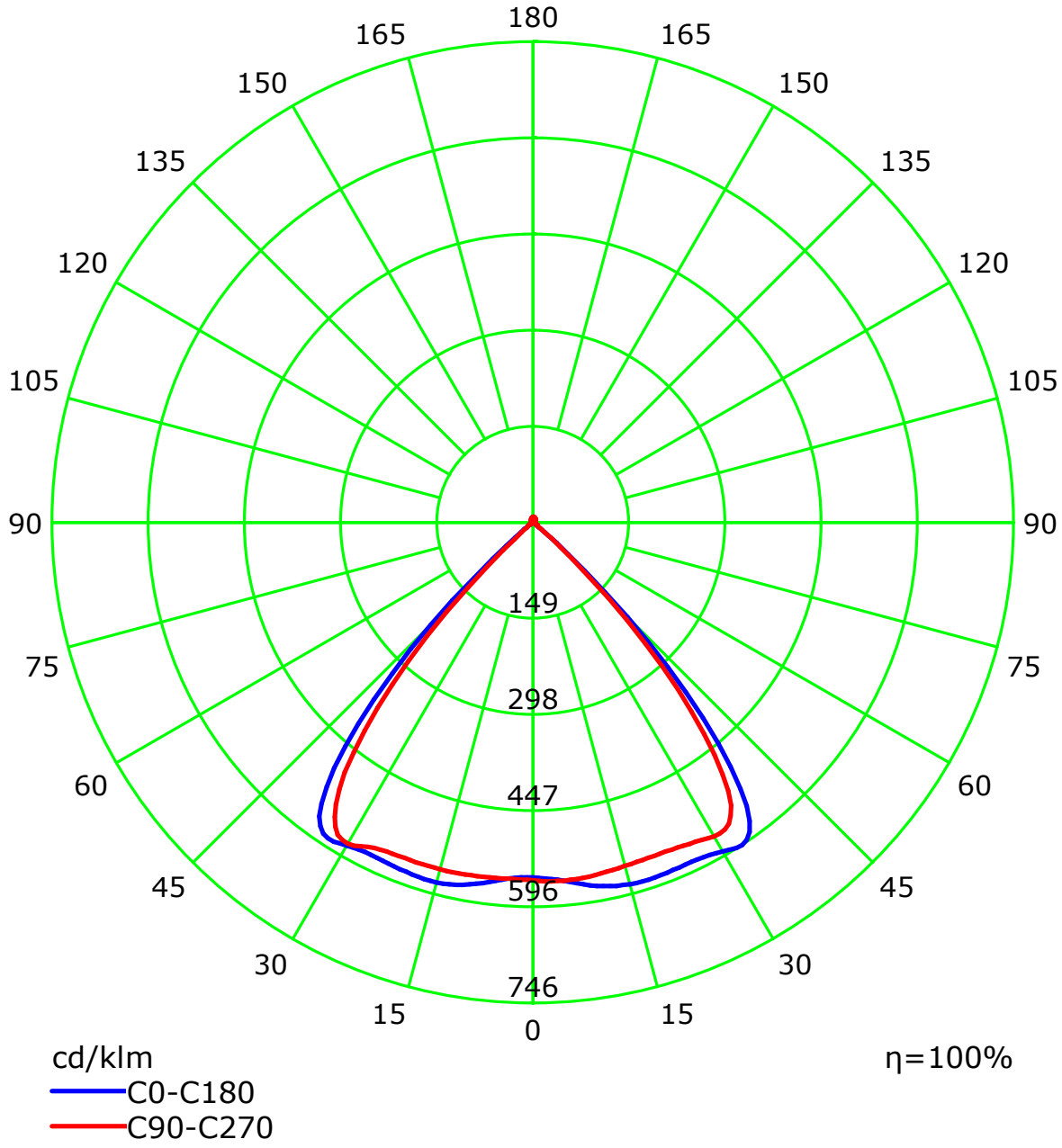




C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 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:

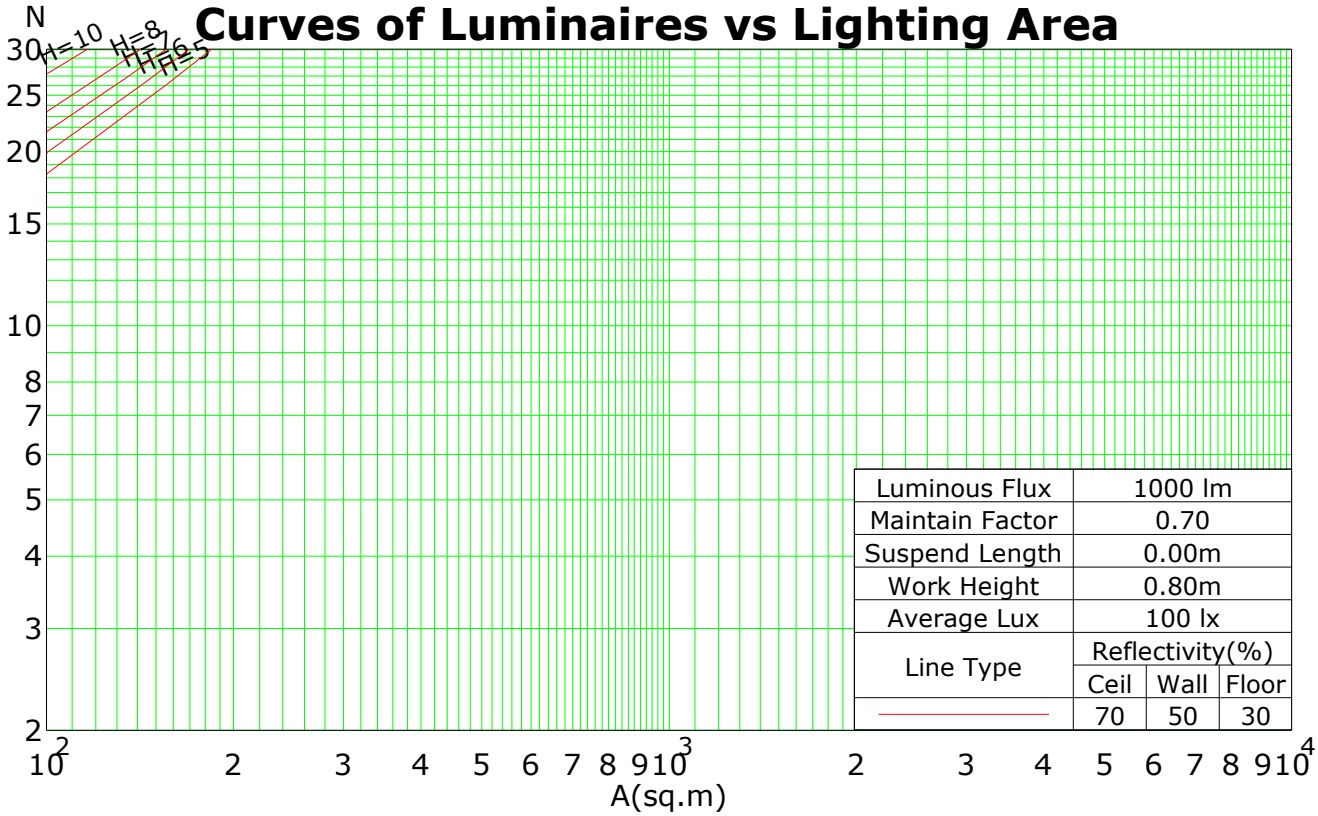
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 m
Humidity:
Inspector:

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	110	110	110	105	105	105	100	100	100	98
1	112	109	106	103	109	106	104	101	102	100	98	98	96	95	94	93	91	89
2	105	100	95	91	103	98	93	90	94	90	87	91	88	85	87	85	83	81
3	99	91	85	81	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	92	84	77	72	90	82	76	72	80	74	70	77	73	69	75	71	68	66
5	87	77	70	65	85	76	69	64	73	68	64	71	67	63	70	65	62	60
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	65	60	56	55
7	76	65	58	53	74	64	58	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	63	52	45	41	62	51	45	41	50	45	40	49	44	40	48	44	40	38

Spacing Criteria (0-180): 1.52
Spacing Criteria (90-270): 1.44
Spacing Criteria (Diagonal): 1.23

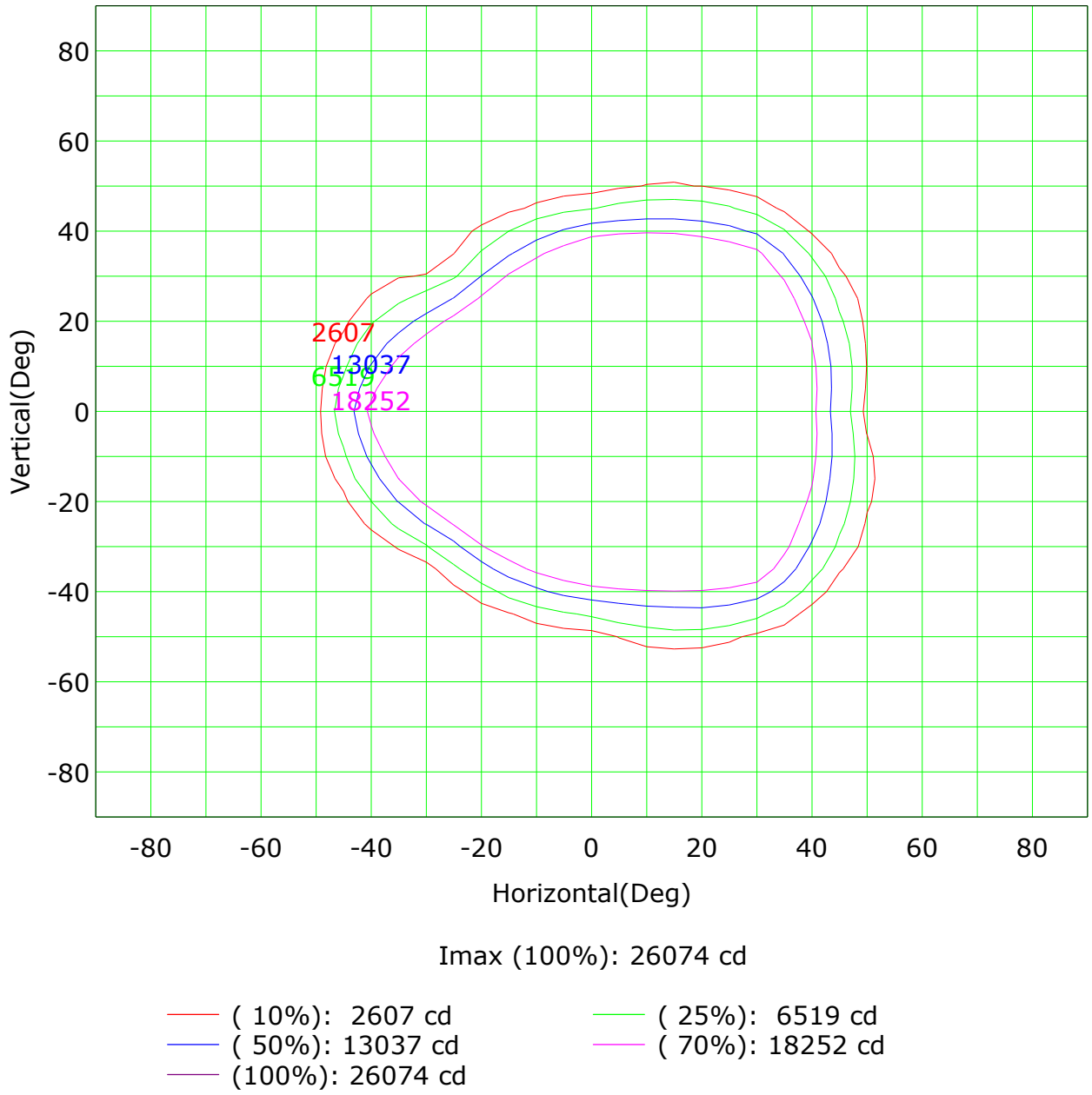
Curves of Luminaires vs Lighting Area



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-1800B
Distance: 8.030 m
Humidity:
Inspector:

Isocandela (rectangle)

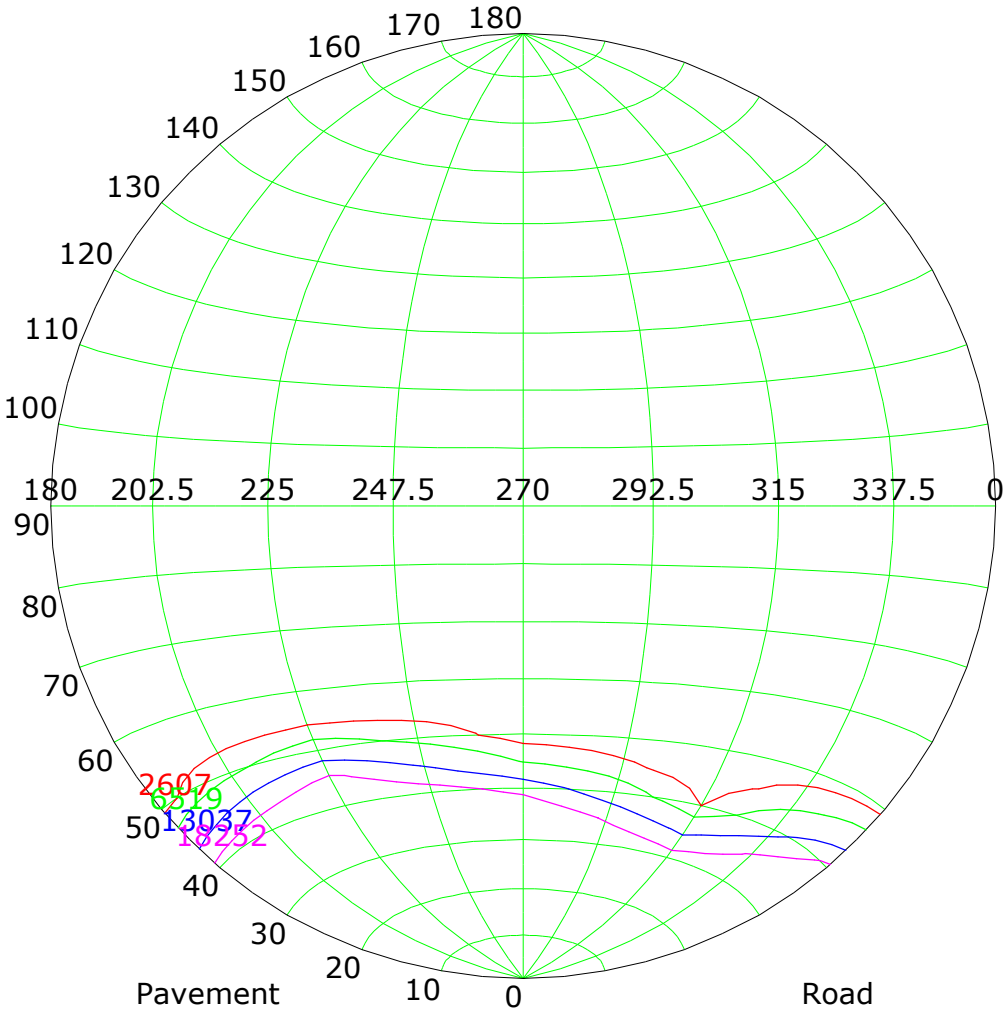


Imax (100%): 26074 cd

(10%): 2607 cd
(25%): 6519 cd
(50%): 13037 cd
(70%): 18252 cd
(100%): 26074 cd

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.030 m
Temperature:
Humidity:
Operator:
Inspector:

Isocandela (sphere)

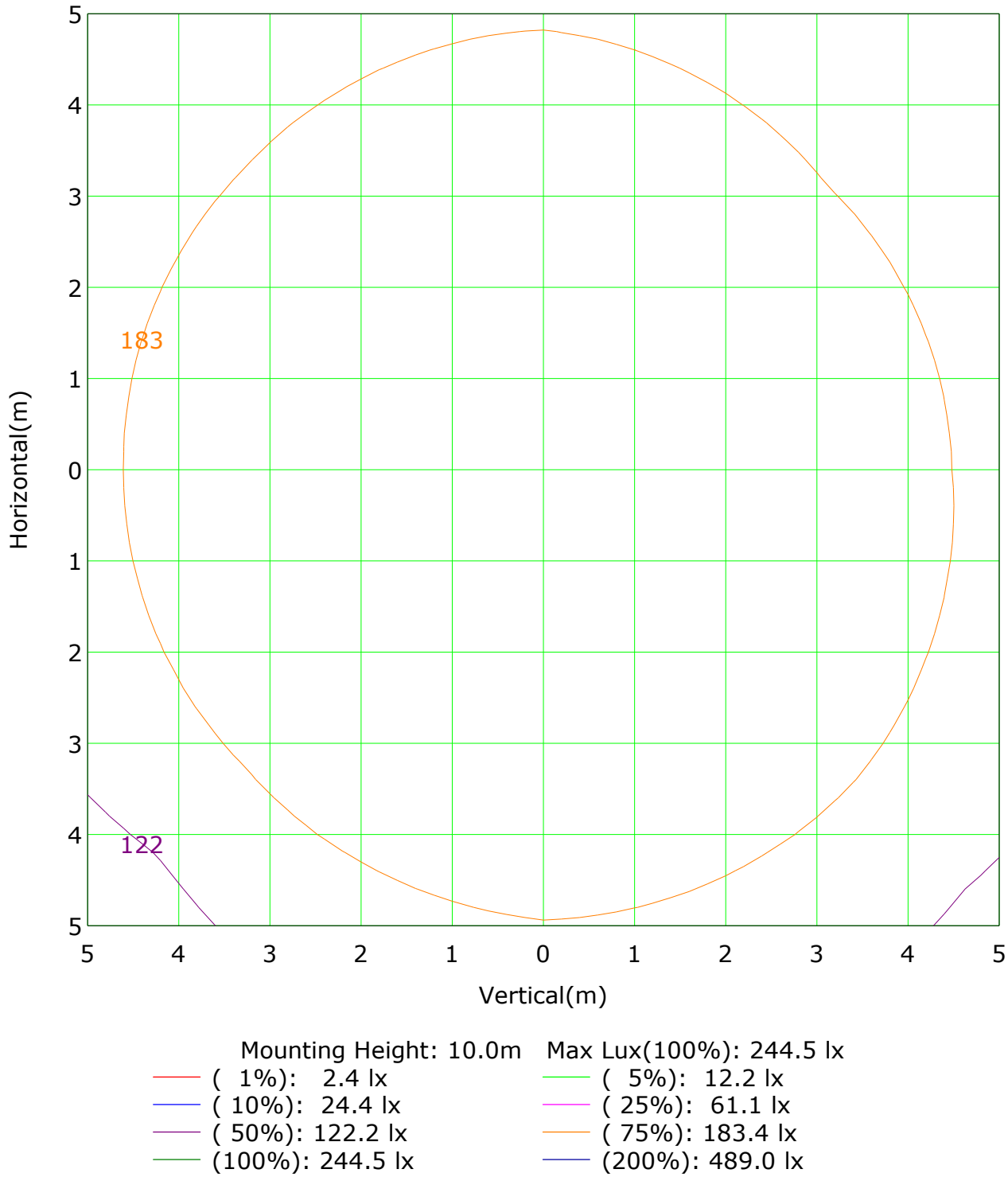


Imax (100%): 26074 cd

(10%): 2607 cd
(25%): 6519 cd
(50%): 13037 cd
(70%): 18252 cd
(100%): 26074 cd

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.030 m
Temperature:
Humidity:
Operator:
Inspector:

IsoLux Plot

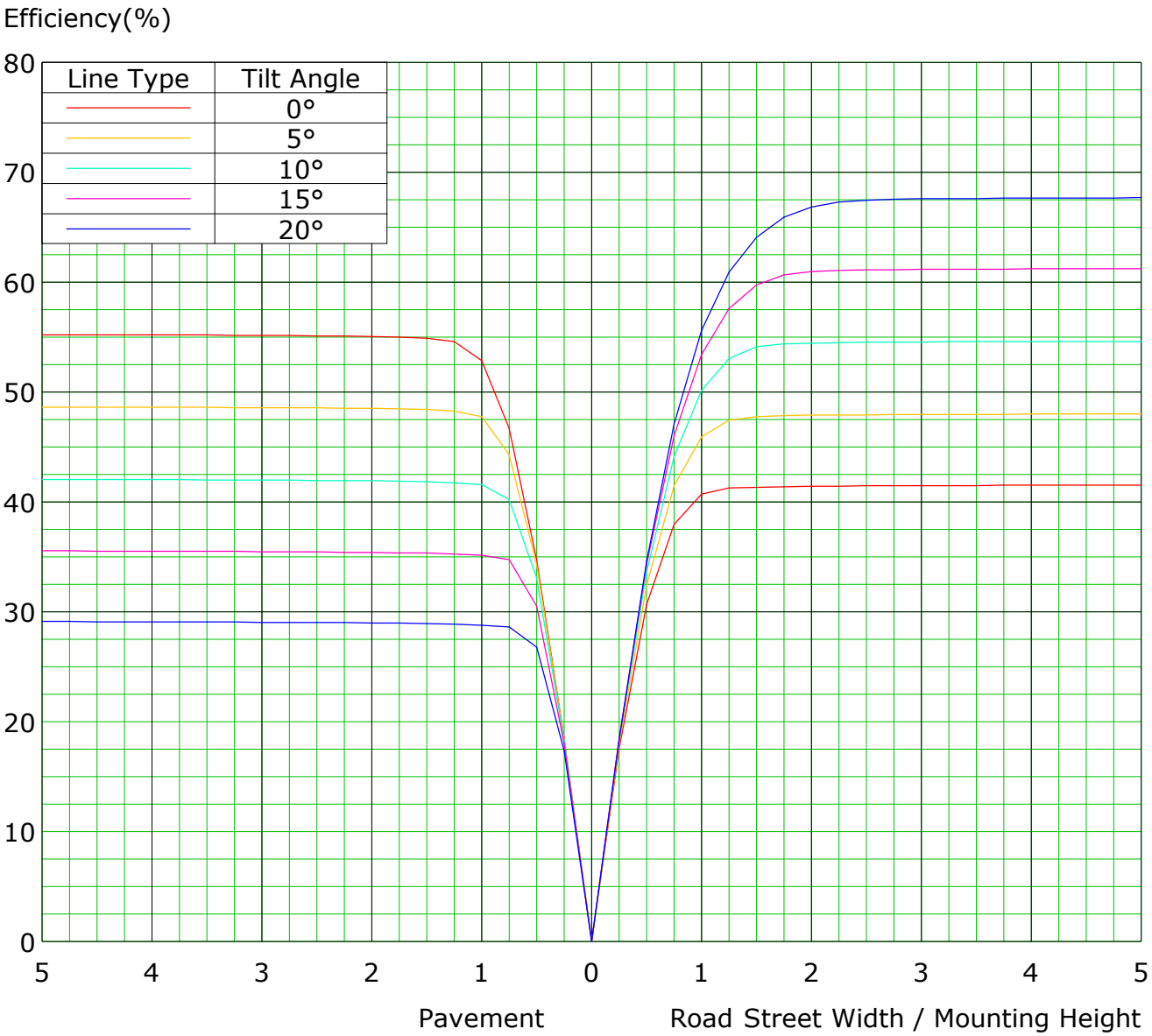


Mounting Height: 10.0m Max Lux(100%): 244.5 lx

(1%): 2.4 lx
(5%): 12.2 lx
(10%): 24.4 lx
(25%): 61.1 lx
(50%): 122.2 lx
(75%): 183.4 lx
(100%): 244.5 lx
(200%): 489.0 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.030 m
Temperature:
Humidity:
Operator:
Inspector:

Roadway CU Curve

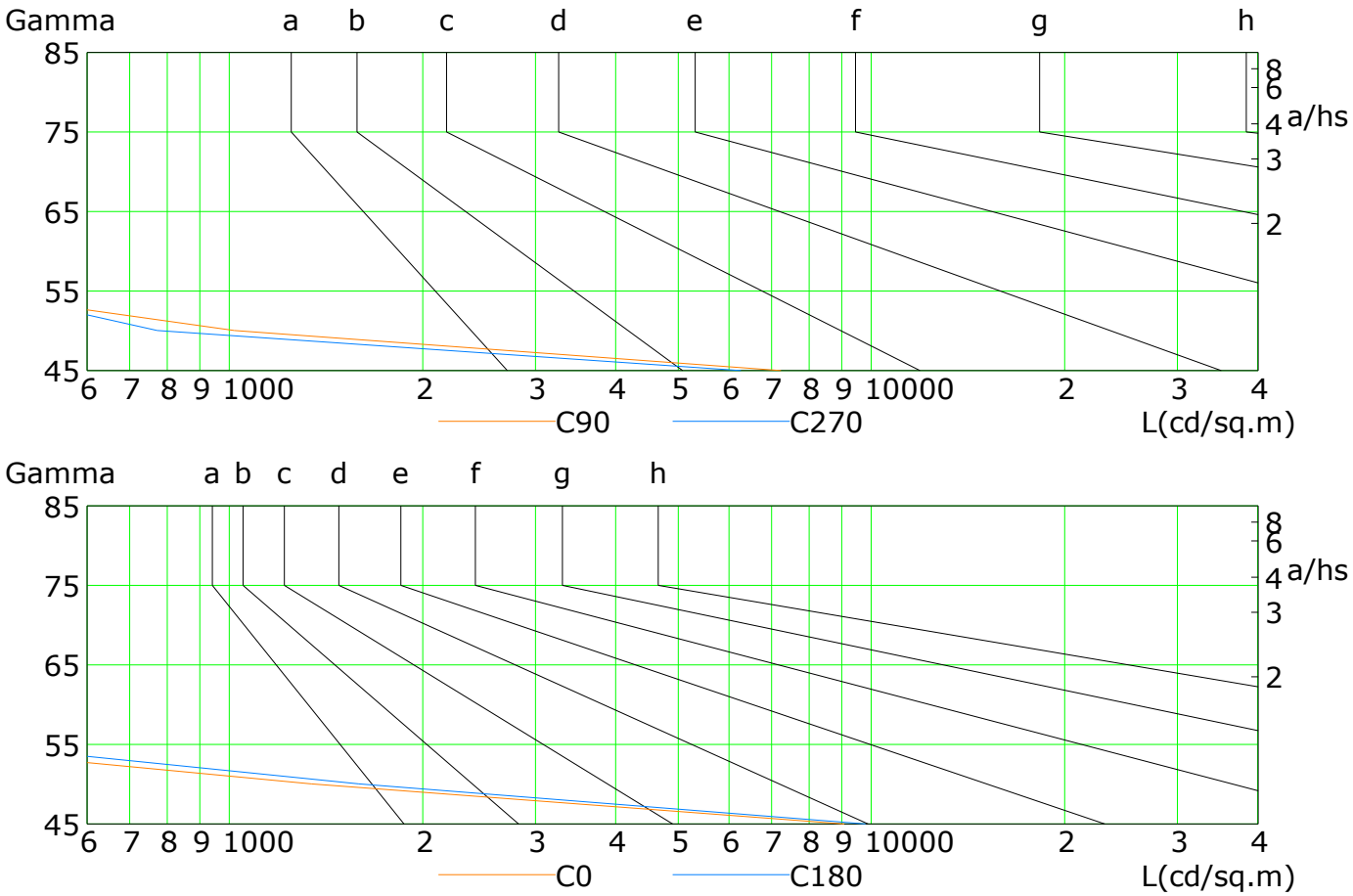


C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 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

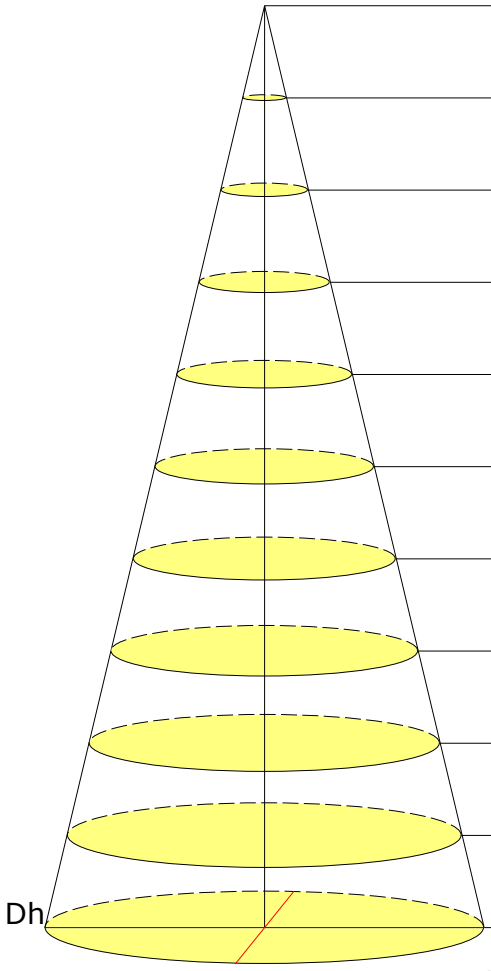


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9080	1343	305	194	74	43	53	58	61
C90	7234	1018	374	260	179	120	116	114	111
C180	9794	1591	397	315	190	120	117	114	111
C270	6260	772	416	241	167	119	118	115	112

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

Illuminance at a Distance



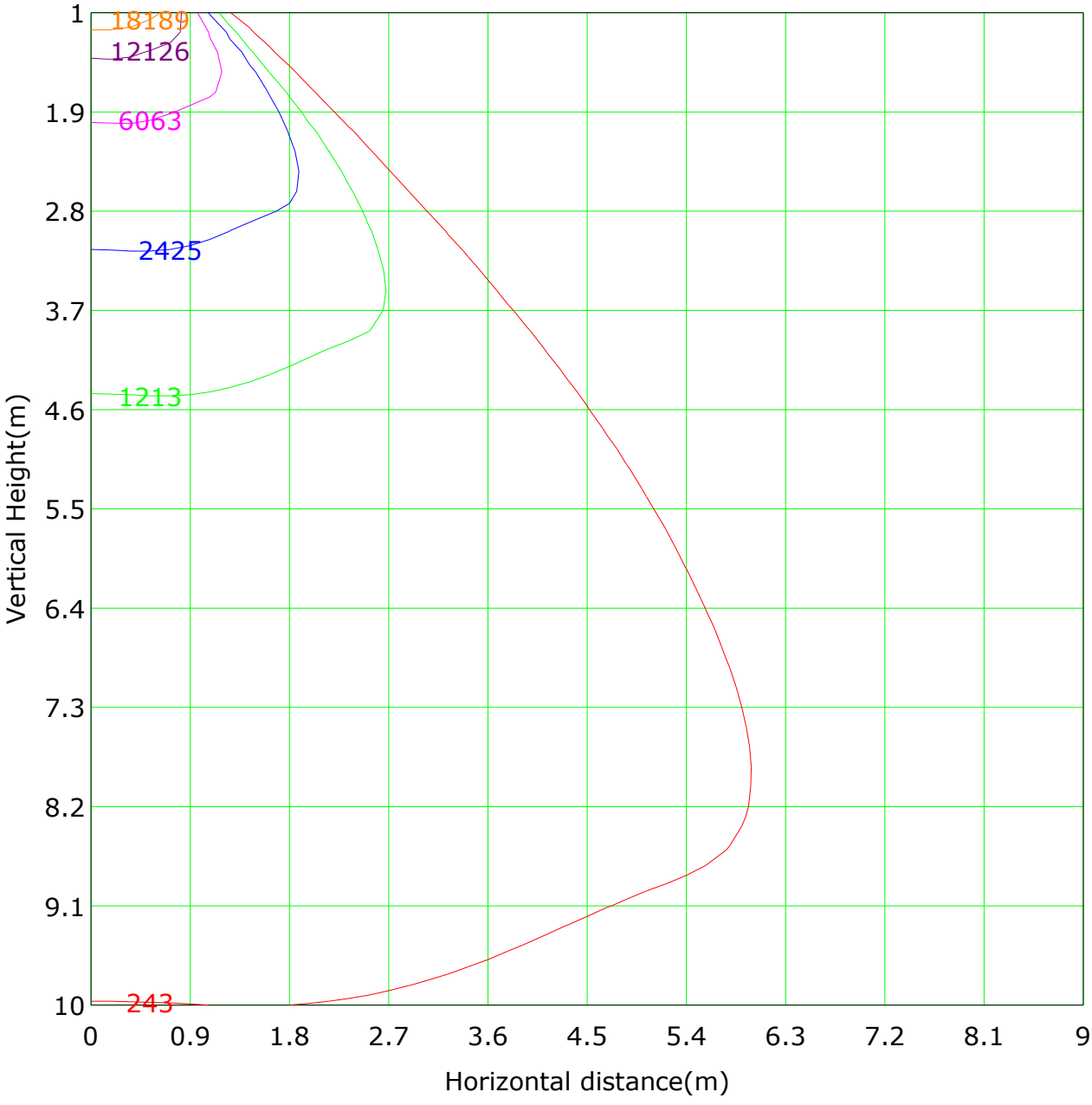
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	24078.93	1.89/1.82	2.8	6443.90
2.0	6019.73	3.78/3.63	11.3	1610.97
3.0	2675.44	5.67/5.45	25.4	715.99
4.0	1504.93	7.56/7.26	45.1	402.74
5.0	963.16	9.45/9.08	70.5	257.76
6.0	668.86	11.34/10.89	101.5	179.00
7.0	491.41	13.23/12.71	138.2	131.51
8.0	376.23	15.12/14.52	180.5	100.69
9.0	297.27	17.01/16.34	228.5	79.55
10.0	240.79	18.90/18.15	282.1	64.44

Beam Angle(B): H86.8 V84.5 Field Angle(F): H97.5 V95.3

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 24252.5 lx

(1%): 242.5 lx
(5%):1212.6 lx
(10%):2425.2 lx
(25%):6063.1 lx
(50%):12126.2 lx
(75%):18189.4 lx
(100%):24252.5 lx
(200%):48505.0 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.030 m
Temperature:
Humidity:
Operator:
Inspector:

Area Flux Table

Unit: lm

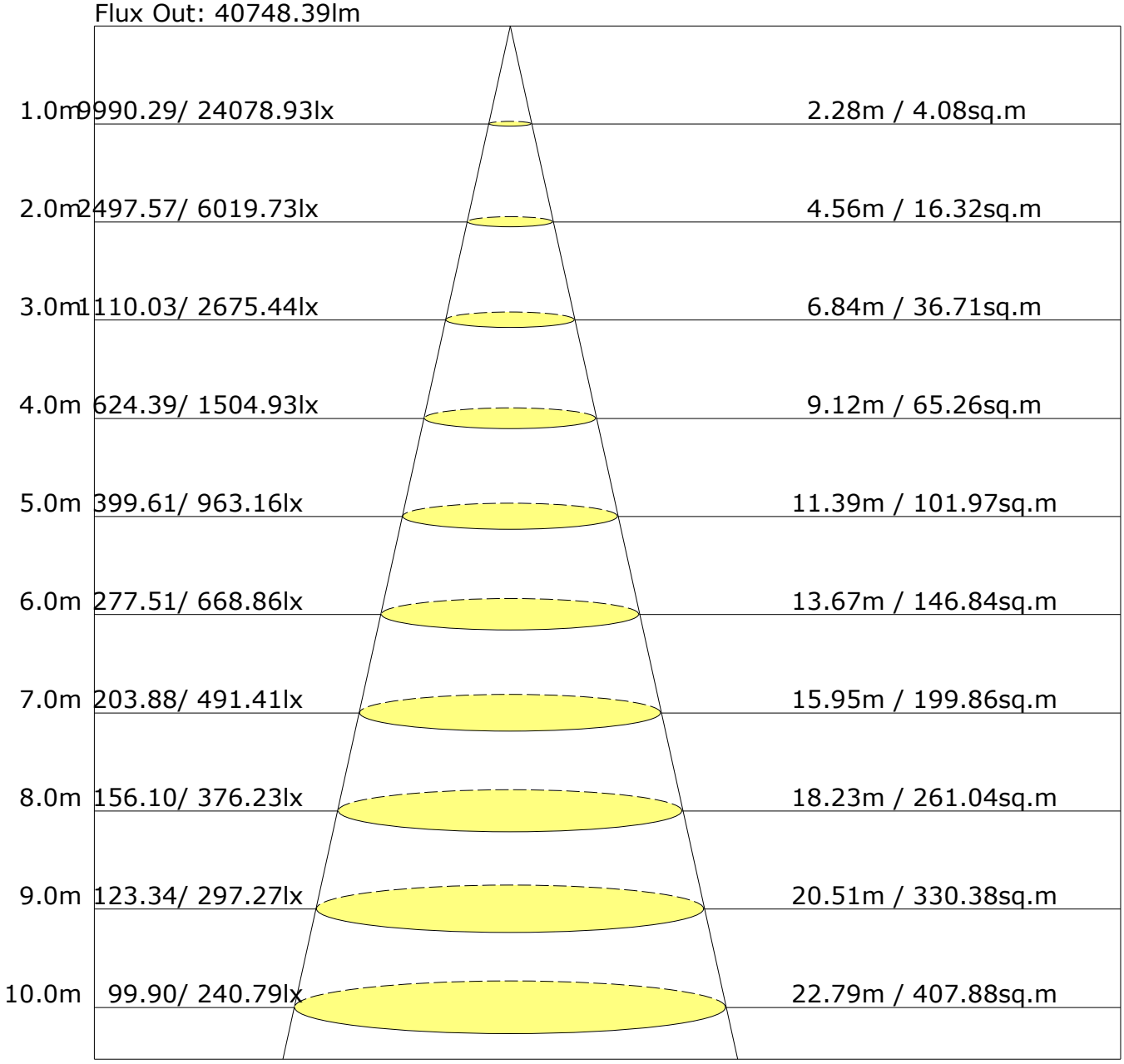
Horizontal plane	Vertical plane																									Flux(T)	Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.3	0.9	1.4	1.9	2.4	2.8	3.1	3.3	3.4	3.4	3.2	3.0	2.7	2.3	1.7	1.1	0.6	0.2	37.8	0.0	0.0
-80	0.3	0.9	1.4	2.0	2.5	2.9	3.3	3.5	3.6	3.5	3.4	3.1	2.8	2.3	1.7	1.1	0.6	0.2	39.1	0.0	0.0
-70	0.3	0.9	1.5	2.1	3.1	4.5	5.6	6.1	5.7	5.0	4.2	3.5	2.9	2.3	1.7	1.1	0.6	0.2	51.1	0.0	0.0
-60	0.3	0.9	1.5	2.7	5.7	9.8	16.6	26.8	21.8	11.6	8.3	5.3	3.3	2.4	1.6	1.0	0.6	0.2	120.4	0.0	0.0
-50	0.3	0.9	1.7	4.2	10.6	68.8	200.6	273.9	255.8	173.0	73.1	15.6	4.6	3.0	1.7	1.0	0.6	0.2	1089.5	981.6	0.0
-40	0.3	0.9	2.0	5.9	47.4	313.6	576.1	654.6	684.7	603.9	364.8	91.9	20.7	5.5	2.3	0.9	0.5	0.2	3376.3	3302.4	0.0
-30	0.3	0.9	2.4	8.9	133.7	503.2	682.7	724.5	746.6	738.4	650.3	366.7	146.3	25.9	3.3	1.0	0.5	0.2	4735.5	4688.4	0.0
-20	0.3	0.9	2.6	13.4	206.8	578.1	684.6	724.4	739.4	731.9	713.8	628.1	381.4	92.3	4.8	1.1	0.4	0.2	5504.5	5467.5	0.0
-10	0.3	0.9	2.7	12.8	230.0	602.0	689.8	732.1	732.6	732.5	727.9	690.6	555.1	176.3	6.8	1.2	0.4	0.2	5894.1	5859.1	0.0
0	0.3	0.9	2.7	15.8	235.3	598.2	685.0	722.9	725.8	746.2	736.0	698.3	576.4	179.5	6.9	1.2	0.4	0.2	5932.6	5895.8	0.0
10	0.3	0.9	2.7	20.1	227.5	569.8	670.2	704.9	725.5	736.4	725.7	676.8	440.6	96.6	5.1	1.1	0.4	0.2	5604.8	5568.0	0.0
20	0.3	0.9	2.5	13.6	173.0	516.3	657.9	704.0	732.2	739.5	705.8	498.8	198.9	27.7	3.7	0.9	0.5	0.2	4976.5	4930.9	0.0
30	0.3	0.9	2.2	6.9	80.3	386.9	598.0	645.8	679.0	635.3	452.5	163.9	28.6	6.9	2.5	0.9	0.5	0.2	3691.6	3623.7	0.0
40	0.3	0.9	1.8	4.6	16.1	120.7	275.8	325.3	284.3	196.3	90.9	21.4	6.8	3.7	1.7	1.0	0.6	0.2	1352.4	1248.4	0.0
50	0.3	0.9	1.6	3.2	6.6	12.1	28.2	44.3	30.1	12.0	9.0	6.2	3.8	2.4	1.6	1.0	0.6	0.2	164.0	33.5	0.0
60	0.3	0.9	1.5	2.2	3.6	5.4	6.4	6.5	5.9	5.0	4.3	3.5	2.9	2.3	1.7	1.1	0.6	0.2	54.3	0.0	0.0
70	0.3	0.9	1.5	2.0	2.6	3.1	3.4	3.6	3.6	3.5	3.4	3.1	2.8	2.3	1.7	1.1	0.6	0.2	39.8	0.0	0.0
80	0.3	0.9	1.4	2.0	2.5	2.8	3.1	3.3	3.4	3.4	3.2	3.0	2.7	2.3	1.7	1.1	0.6	0.2	37.9	0.0	0.0
90	5.3	16.3	35.1	124.4	1389.5	4300.9	5790.4	6309.7	6383.5	6080.8	5279.6	3882.9	2383.2	1636.1	52.2	18.9	9.7	3.2	42702		41599
Flux(E)	0.0	0.0	0.0	6.7	1288.4	4226.5	5719.9	6233.5	6302.6	6006.5	5202.2	3787.0	2298.0	1528.1	0.0	0.0	0.0	0.0			

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

The Average Illuminance Effective Figure

Flux Out: 40748.39lm



Height | Avg./Nadir. E | Beam Angle:97.5° | Diameter / Area

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

UGR Table

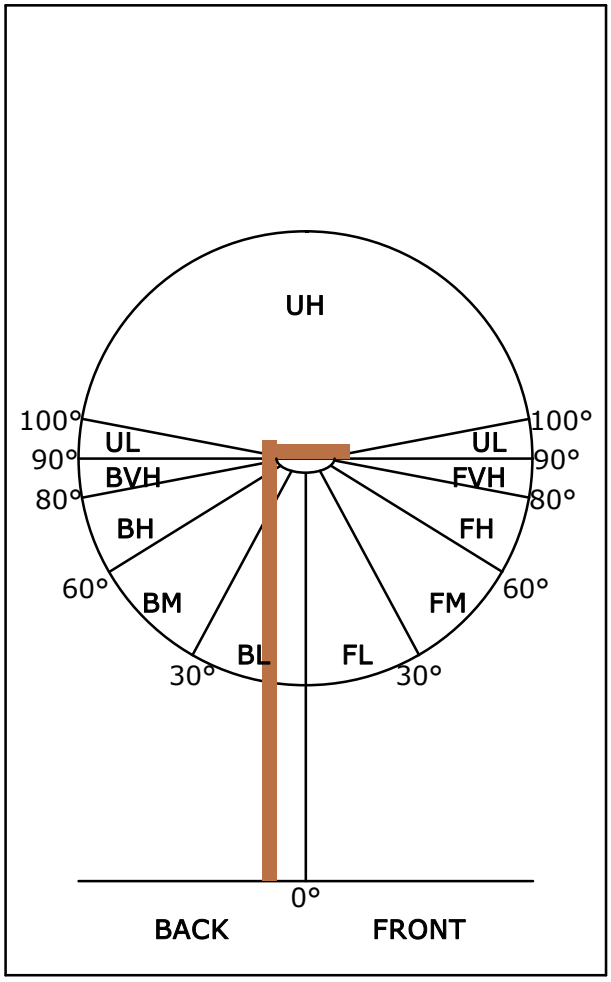
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
3H	1.$	1.$	1.$	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.$

Calculate in accordance with CIE 190:2010

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



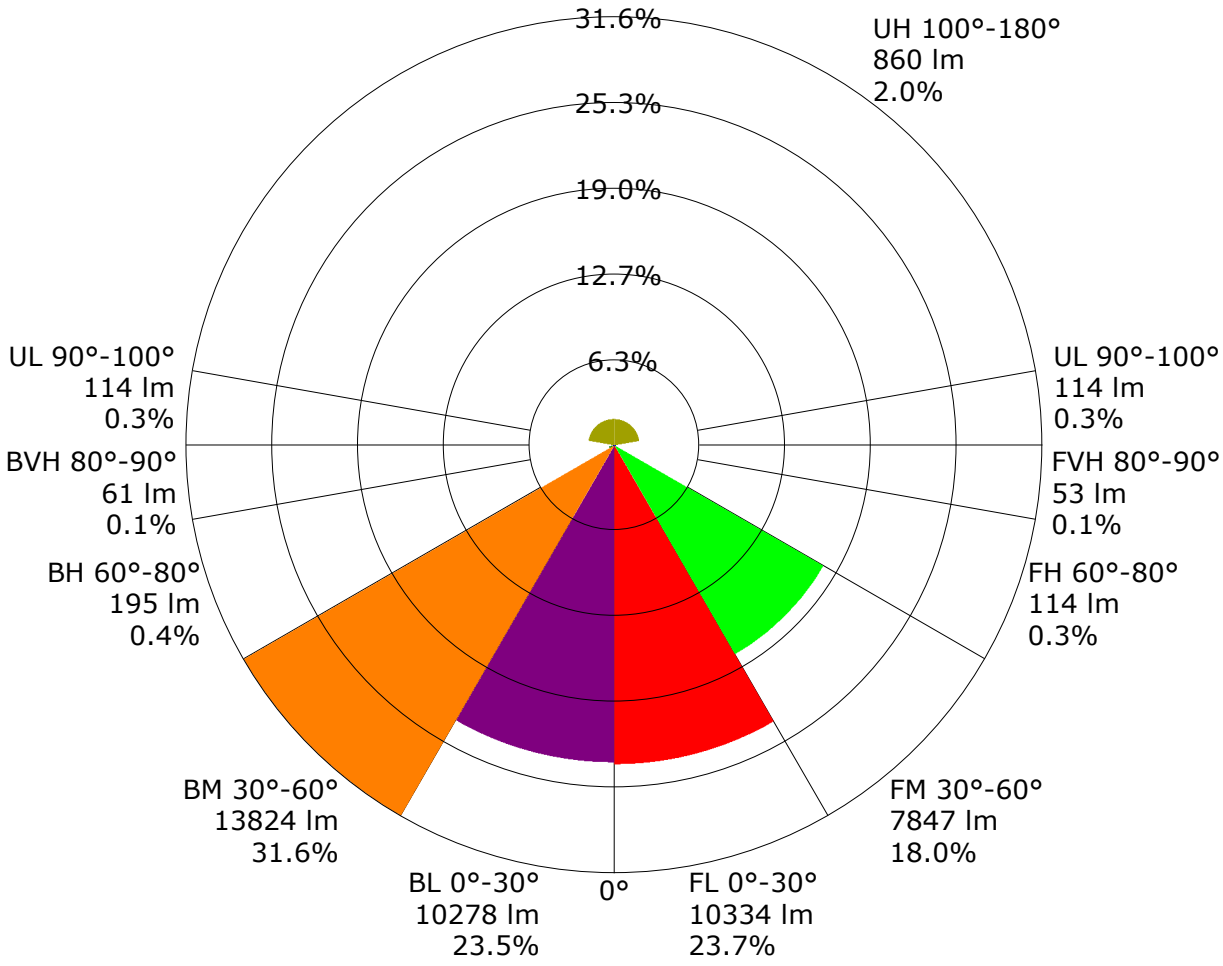
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	18348	42.0
FL (0°-30°)	10334	23.7
FM (30°-60°)	7847	18.0
FH (60°-80°)	114	0.3
FVH (80°-90°)	53	0.1
BACK LIGHT	24358	55.8
BL (0°-30°)	10278	23.5
BM (30°-60°)	13824	31.6
BH (60°-80°)	195	0.4
BVH (80°-90°)	61	0.1
UP LIGHT	974	2.2
UL (90°-100°)	114	0.3
UH (100°-180°)	860	2.0
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)	B5 U4 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U4 G1

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-1800B
Distance: 8.030 m
Humidity:
Inspector:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

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-1800B
Distance: 8.030 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	0.79	0.87	0.92	0.95	1.00	1.03	1.05	1.07	1.09
	0.30		0.74	0.82	0.87	0.91	0.96	1.00	1.02	1.05	1.07
	0.20		0.70	0.78	0.84	0.88	0.93	0.97	0.99	1.03	1.05
0.50	0.50	0.20	0.77	0.85	0.90	0.93	0.97	0.99	1.01	1.03	1.05
	0.30		0.73	0.81	0.86	0.89	0.94	0.97	0.99	1.01	1.03
	0.20		0.69	0.78	0.83	0.86	0.91	0.94	0.97	1.00	1.01
0.30	0.50	0.20	0.76	0.83	0.87	0.90	0.94	0.96	0.97	0.99	1.00
	0.30		0.72	0.79	0.84	0.87	0.91	0.94	0.96	0.98	0.99
	0.20		0.69	0.77	0.82	0.85	0.89	0.92	0.94	0.97	0.98
0.00	0.00	0.00	0.67	0.74	0.79	0.82	0.86	0.88	0.90	0.92	0.93

Rating:420W 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: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 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	0.65	0.52	0.43	0.37	0.29	0.24	0.20	0.16	0.13
	0.30		0.54	0.44	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.47	0.39	0.33	0.29	0.24	0.20	0.17	0.14	0.11
0.50	0.50	0.20	0.62	0.49	0.40	0.34	0.27	0.26	0.19	0.14	0.11
	0.30		0.52	0.42	0.35	0.31	0.24	0.20	0.17	0.13	0.11
	0.20		0.45	0.37	0.32	0.28	0.22	0.19	0.16	0.13	0.11
0.30	0.50	0.20	0.59	0.46	0.38	0.32	0.25	0.20	0.17	0.13	0.11
	0.30		0.50	0.40	0.34	0.29	0.23	0.19	0.16	0.12	0.10
	0.20		0.44	0.36	0.30	0.26	0.21	0.18	0.15	0.12	0.10
0.00	0.00	0.00	0.31	0.24	0.19	0.16	0.12	0.10	0.08	0.06	0.05

Rating:420W 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: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 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	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.19	0.19	0.21	0.22
	0.20		0.08	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	0.19
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.19	0.19	0.20	0.21	0.21
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Rating:420W 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: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.030 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	24110.5	23.1	23.1	0.05	0.05
1.0-2.0	24116.6	69.2	92.3	0.16	0.21
2.0-3.0	24129.1	115.4	207.7	0.26	0.48
3.0-4.0	24147.9	161.7	369.4	0.37	0.85
4.0-5.0	24172.2	208.0	577.4	0.48	1.32
5.0-6.0	24201.2	254.4	831.7	0.58	1.90
6.0-7.0	24231.2	300.8	1132.5	0.69	2.59
7.0-8.0	24259.3	347.2	1479.8	0.79	3.39
8.0-9.0	24287.4	393.7	1873.4	0.90	4.29
9.0-10.0	24315.7	440.1	2313.5	1.01	5.30
10.0-11.0	24342.7	486.5	2800.0	1.11	6.41
11.0-12.0	24368.7	532.8	3332.8	1.22	7.63
12.0-13.0	24393.7	579.0	3911.8	1.33	8.96
13.0-14.0	24416.2	625.1	4536.8	1.43	10.39
14.0-15.0	24434.7	670.9	5207.7	1.54	11.92
15.0-16.0	24450.5	716.5	5924.2	1.64	13.56
16.0-17.0	24464.1	761.9	6686.2	1.74	15.31
17.0-18.0	24476.8	807.1	7493.3	1.85	17.15
18.0-19.0	24490.8	852.2	8345.5	1.95	19.11
19.0-20.0	24506.9	897.1	9242.6	2.05	21.16
20.0-21.0	24525.8	941.9	10184.5	2.16	23.32
21.0-22.0	24549.9	986.7	11171.2	2.26	25.57
22.0-23.0	24581.6	1031.6	12202.7	2.36	27.94
23.0-24.0	24614.7	1076.3	13279.1	2.46	30.40
24.0-25.0	24641.4	1120.6	14399.7	2.57	32.97
25.0-26.0	24654.5	1163.9	15563.6	2.66	35.63
26.0-27.0	24642.7	1205.8	16769.4	2.76	38.39
27.0-28.0	24594.2	1245.3	18014.7	2.85	41.24
28.0-29.0	24501.9	1282.1	19296.8	2.94	44.18
29.0-30.0	24353.9	1315.1	20611.9	3.01	47.19
30.0-31.0	24132.9	1343.2	21955.1	3.07	50.26
31.0-32.0	23837.4	1365.8	23320.9	3.13	53.39
32.0-33.0	23448.3	1381.6	24702.5	3.16	56.55
33.0-34.0	22948.6	1389.0	26091.5	3.18	59.73
34.0-35.0	22324.8	1386.7	27478.1	3.17	62.91
35.0-36.0	21541.9	1371.8	28849.9	3.14	66.05

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-1800B
Distance: 8.030 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	20599.7	1343.7	30193.6	3.08	69.12
37.0-38.0	19528.1	1303.6	31497.2	2.98	72.11
38.0-39.0	18347.4	1252.5	32749.7	2.87	74.98
39.0-40.0	17093.1	1192.3	33942.0	2.73	77.71
40.0-41.0	15780.6	1123.9	35065.9	2.57	80.28
41.0-42.0	14415.6	1047.5	36113.4	2.40	82.68
42.0-43.0	12991.3	962.5	37075.9	2.20	84.88
43.0-44.0	11533.9	870.6	37946.5	1.99	86.87
44.0-45.0	10084.3	775.1	38721.6	1.77	88.65
45.0-46.0	8636.3	675.5	39397.1	1.55	90.19
46.0-47.0	7240.1	575.9	39973.0	1.32	91.51
47.0-48.0	5974.8	483.1	40456.1	1.11	92.62
48.0-49.0	4877.9	400.6	40856.7	0.92	93.54
49.0-50.0	3959.3	330.2	41186.9	0.76	94.29
50.0-51.0	3188.0	269.8	41456.6	0.62	94.91
51.0-52.0	2514.5	215.8	41672.4	0.49	95.40
52.0-53.0	1923.2	167.3	41839.8	0.38	95.79
53.0-54.0	1428.8	126.0	41965.7	0.29	96.07
54.0-55.0	1042.4	93.1	42058.8	0.21	96.29
55.0-56.0	750.7	67.8	42126.6	0.16	96.44
56.0-57.0	557.3	51.0	42177.6	0.12	96.56
57.0-58.0	445.7	41.2	42218.8	0.09	96.65
58.0-59.0	370.9	34.7	42253.5	0.08	96.73
59.0-60.0	312.8	29.6	42283.0	0.07	96.80
60.0-61.0	273.7	26.1	42309.1	0.06	96.86
61.0-62.0	246.7	23.8	42332.9	0.05	96.92
62.0-63.0	226.6	22.0	42355.0	0.05	96.97
63.0-64.0	211.4	20.8	42375.7	0.05	97.01
64.0-65.0	196.4	19.4	42395.1	0.04	97.06
65.0-66.0	178.7	17.8	42413.0	0.04	97.10
66.0-67.0	162.0	16.3	42429.3	0.04	97.14
67.0-68.0	150.2	15.2	42444.5	0.03	97.17
68.0-69.0	141.0	14.4	42458.9	0.03	97.20
69.0-70.0	133.4	13.7	42472.6	0.03	97.23
70.0-71.0	126.7	13.1	42485.7	0.03	97.26
71.0-72.0	120.4	12.5	42498.2	0.03	97.29

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-1800B
Distance: 8.030 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	115.6	12.1	42510.3	0.03	97.32
73.0-74.0	112.8	11.9	42522.1	0.03	97.35
74.0-75.0	111.3	11.8	42533.9	0.03	97.38
75.0-76.0	109.6	11.6	42545.5	0.03	97.40
76.0-77.0	108.0	11.5	42557.0	0.03	97.43
77.0-78.0	107.1	11.5	42568.5	0.03	97.45
78.0-79.0	107.1	11.5	42580.0	0.03	97.48
79.0-80.0	107.2	11.6	42591.6	0.03	97.51
80.0-81.0	106.5	11.5	42603.1	0.03	97.53
81.0-82.0	106.0	11.5	42614.6	0.03	97.56
82.0-83.0	106.0	11.5	42626.1	0.03	97.59
83.0-84.0	105.7	11.5	42637.6	0.03	97.61
84.0-85.0	105.4	11.5	42649.1	0.03	97.64
85.0-86.0	105.0	11.5	42660.6	0.03	97.67
86.0-87.0	104.2	11.4	42672.0	0.03	97.69
87.0-88.0	104.0	11.4	42683.4	0.03	97.72
88.0-89.0	103.9	11.4	42694.8	0.03	97.74
89.0-90.0	103.7	11.4	42706.2	0.03	97.77
90.0-91.0	103.7	11.4	42717.5	0.03	97.80
91.0-92.0	103.6	11.4	42728.9	0.03	97.82
92.0-93.0	103.6	11.4	42740.3	0.03	97.85
93.0-94.0	103.8	11.4	42751.6	0.03	97.87
94.0-95.0	104.0	11.4	42763.0	0.03	97.90
95.0-96.0	104.0	11.3	42774.3	0.03	97.93
96.0-97.0	104.0	11.3	42785.7	0.03	97.95
97.0-98.0	104.6	11.4	42797.0	0.03	97.98
98.0-99.0	105.4	11.4	42808.5	0.03	98.00
99.0-100.0	106.0	11.5	42819.9	0.03	98.03
100.0-101.0	106.5	11.5	42831.4	0.03	98.06
101.0-102.0	107.2	11.5	42842.9	0.03	98.08
102.0-103.0	108.2	11.6	42854.5	0.03	98.11
103.0-104.0	109.4	11.7	42866.2	0.03	98.14
104.0-105.0	110.5	11.7	42877.9	0.03	98.16
105.0-106.0	111.7	11.8	42889.7	0.03	98.19
106.0-107.0	113.1	11.9	42901.6	0.03	98.22
107.0-108.0	114.7	12.0	42913.6	0.03	98.24

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-1800B
Distance: 8.030 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	116.3	12.1	42925.7	0.03	98.27
109.0-110.0	117.9	12.2	42937.9	0.03	98.30
110.0-111.0	119.6	12.3	42950.2	0.03	98.33
111.0-112.0	121.3	12.4	42962.5	0.03	98.36
112.0-113.0	122.9	12.4	42975.0	0.03	98.39
113.0-114.0	124.3	12.5	42987.5	0.03	98.41
114.0-115.0	125.7	12.5	43000.0	0.03	98.44
115.0-116.0	127.2	12.6	43012.6	0.03	98.47
116.0-117.0	128.5	12.6	43025.2	0.03	98.50
117.0-118.0	129.5	12.6	43037.8	0.03	98.53
118.0-119.0	131.2	12.6	43050.5	0.03	98.56
119.0-120.0	133.2	12.7	43063.2	0.03	98.59
120.0-121.0	134.5	12.7	43075.9	0.03	98.62
121.0-122.0	135.6	12.7	43088.6	0.03	98.65
122.0-123.0	136.8	12.7	43101.2	0.03	98.67
123.0-124.0	138.0	12.6	43113.9	0.03	98.70
124.0-125.0	138.3	12.5	43126.4	0.03	98.73
125.0-126.0	137.8	12.3	43138.7	0.03	98.76
126.0-127.0	137.4	12.1	43150.8	0.03	98.79
127.0-128.0	137.8	12.0	43162.8	0.03	98.82
128.0-129.0	138.6	11.9	43174.7	0.03	98.84
129.0-130.0	139.8	11.8	43186.5	0.03	98.87
130.0-131.0	142.1	11.9	43198.3	0.03	98.90
131.0-132.0	145.0	11.9	43210.2	0.03	98.92
132.0-133.0	148.0	12.0	43222.2	0.03	98.95
133.0-134.0	151.5	12.0	43234.3	0.03	98.98
134.0-135.0	154.9	12.1	43246.4	0.03	99.01
135.0-136.0	158.9	12.2	43258.6	0.03	99.03
136.0-137.0	163.1	12.3	43270.9	0.03	99.06
137.0-138.0	167.2	12.4	43283.3	0.03	99.09
138.0-139.0	171.8	12.5	43295.8	0.03	99.12
139.0-140.0	176.6	12.6	43308.3	0.03	99.15
140.0-141.0	181.6	12.7	43321.0	0.03	99.18
141.0-142.0	186.8	12.8	43333.8	0.03	99.21
142.0-143.0	192.2	12.8	43346.6	0.03	99.24
143.0-144.0	198.1	12.9	43359.5	0.03	99.27

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-1800B
Distance: 8.030 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	204.7	13.0	43372.6	0.03	99.30
145.0-146.0	211.6	13.1	43385.7	0.03	99.33
146.0-147.0	218.2	13.2	43398.9	0.03	99.36
147.0-148.0	224.7	13.2	43412.1	0.03	99.39
148.0-149.0	230.6	13.2	43425.4	0.03	99.42
149.0-150.0	236.4	13.2	43438.5	0.03	99.45
150.0-151.0	241.7	13.1	43451.6	0.03	99.48
151.0-152.0	246.4	12.9	43464.5	0.03	99.51
152.0-153.0	251.0	12.7	43477.2	0.03	99.53
153.0-154.0	255.1	12.5	43489.7	0.03	99.56
154.0-155.0	259.0	12.2	43501.9	0.03	99.59
155.0-156.0	263.3	12.0	43513.9	0.03	99.62
156.0-157.0	268.0	11.7	43525.6	0.03	99.65
157.0-158.0	273.0	11.5	43537.0	0.03	99.67
158.0-159.0	278.3	11.2	43548.2	0.03	99.70
159.0-160.0	284.1	10.9	43559.1	0.02	99.72
160.0-161.0	290.1	10.6	43569.8	0.02	99.75
161.0-162.0	296.0	10.3	43580.0	0.02	99.77
162.0-163.0	301.8	10.0	43590.0	0.02	99.79
163.0-164.0	307.6	9.6	43599.6	0.02	99.82
164.0-165.0	313.0	9.2	43608.8	0.02	99.84
165.0-166.0	318.2	8.7	43617.5	0.02	99.86
166.0-167.0	323.3	8.3	43625.8	0.02	99.87
167.0-168.0	328.0	7.8	43633.6	0.02	99.89
168.0-169.0	332.3	7.3	43640.8	0.02	99.91
169.0-170.0	336.3	6.7	43647.5	0.02	99.92
170.0-171.0	339.8	6.2	43653.7	0.01	99.94
171.0-172.0	342.3	5.5	43659.2	0.01	99.95
172.0-173.0	344.3	4.9	43664.2	0.01	99.96
173.0-174.0	346.2	4.3	43668.5	0.01	99.97
174.0-175.0	346.8	3.6	43672.1	0.01	99.98
175.0-176.0	346.7	3.0	43675.1	0.01	99.99
176.0-177.0	346.1	2.3	43677.4	0.01	99.99
177.0-178.0	344.9	1.6	43679.1	0.00	100.00
178.0-179.0	343.9	1.0	43680.0	0.00	100.00
179.0-180.0	343.5	0.3	43680.4	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-1800B
Distance: 8.030 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	24078.9	24204.3	24269.4	23882.8	24078.9	24204.3	24269.4	23882.8	24078.9	
G1.0	24108.2	24307.1	24303.3	23838.5	24062.0	24115.7	24240.2	23922.4	24108.2	
G2.0	24149.7	24419.3	24334.5	23786.6	24074.2	24032.7	24220.4	23951.6	24149.7	
G3.0	24207.2	24530.6	24355.2	23735.7	24118.5	23964.8	24210.9	23973.3	24207.2	
G4.0	24290.1	24628.7	24366.5	23682.0	24193.0	23913.9	24209.1	23986.5	24290.1	
G5.0	24393.9	24700.3	24373.1	23630.1	24293.9	23881.9	24214.7	23996.9	24393.9	
G6.0	24517.4	24752.2	24368.4	23580.1	24421.2	23867.7	24229.8	23996.9	24517.4	
G7.0	24645.6	24782.3	24357.1	23531.1	24550.4	23865.8	24247.7	23984.6	24645.6	
G8.0	24773.8	24791.8	24337.3	23490.6	24678.6	23883.8	24265.6	23962.0	24773.8	
G9.0	24904.0	24787.1	24310.9	23467.9	24809.7	23924.3	24276.0	23935.6	24904.0	
G10.0	25017.1	24769.1	24278.8	23465.1	24922.8	23990.3	24288.3	23903.6	25017.1	
G11.0	25120.8	24736.1	24244.9	23479.3	25020.9	24078.9	24296.8	23870.6	25120.8	
G12.0	25207.6	24696.5	24210.9	23503.8	25102.9	24177.9	24310.9	23840.4	25207.6	
G13.0	25281.1	24652.2	24179.8	23537.7	25171.8	24279.8	24328.8	23817.8	25281.1	
G14.0	25337.7	24604.1	24151.5	23579.2	25228.3	24366.5	24342.9	23799.8	25337.7	
G15.0	25385.8	24559.8	24121.4	23632.9	25258.5	24444.8	24351.4	23790.4	25385.8	
G16.0	25423.5	24519.3	24095.9	23683.9	25275.5	24510.8	24352.4	23801.7	25423.5	
G17.0	25450.9	24487.2	24076.1	23734.8	25274.5	24564.5	24354.3	23819.6	25450.9	
G18.0	25459.3	24469.3	24065.7	23783.8	25261.3	24606.0	24358.0	23863.9	25459.3	
G19.0	25454.6	24467.4	24060.1	23828.1	25237.8	24637.1	24361.8	23938.4	25454.6	
G20.0	25445.2	24484.4	24055.4	23865.8	25211.4	24656.0	24364.6	24042.2	25445.2	
G21.0	25432.9	24531.5	24058.2	23901.7	25178.4	24659.8	24371.2	24153.4	25432.9	
G22.0	25421.6	24619.2	24067.6	23923.4	25143.5	24655.1	24380.7	24299.6	25421.6	
G23.0	25410.3	24740.8	24093.1	23932.8	25114.2	24642.8	24400.5	24460.8	25410.3	
G24.0	25404.7	24885.1	24131.7	23927.1	25091.6	24625.8	24428.8	24545.7	25404.7	
G25.0	25408.4	25045.4	24177.9	23910.2	25081.2	24607.0	24478.7	24512.7	25408.4	
G26.0	25429.2	25147.2	24237.3	23881.9	25081.2	24587.2	24574.0	24311.8	25429.2	
G27.0	25469.7	25153.8	24312.8	23847.0	25099.2	24571.1	24699.4	23880.0	25469.7	
G28.0	25530.1	25040.7	24402.3	23808.3	25143.5	24556.0	24866.3	23127.5	25530.1	
G29.0	25619.6	24751.2	24497.6	23769.7	25208.5	24546.6	25052.0	22110.2	25619.6	
G30.0	25750.7	24235.5	24582.4	23735.7	25286.8	24551.3	25147.2	20817.4	25750.7	
G31.0	25909.1	23434.0	24611.7	23707.4	25399.0	24569.2	25135.9	19253.2	25909.1	
G32.0	26017.5	22415.7	24574.0	23686.7	25501.8	24611.7	24978.5	17593.6	26017.5	
G33.0	26074.1	21006.9	24375.0	23682.9	25547.0	24683.3	24607.0	15816.3	26074.1	
G34.0	25954.4	19438.0	23996.0	23705.5	25468.8	24777.6	24065.7	13978.5	25954.4	
G35.0	25625.3	17708.7	23416.1	23757.4	25153.8	24898.3	23316.1	11936.2	25625.3	
G36.0	24997.3	15692.8	22514.7	23836.6	24638.1	25012.4	22374.2	9792.1	24997.3	

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-1800B
Distance: 8.030 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	24071.4	13696.6	21375.6	23936.6	23851.7	25084.1	21219.1	7502.7	24071.4	
G38.0	22886.2	11661.8	19979.2	24051.6	22748.5	25104.8	19766.1	5513.2	22886.2	
G39.0	21333.2	9556.3	18451.7	24132.7	21412.4	24962.4	18158.4	3840.4	21333.2	
G40.0	19587.9	7636.6	16738.4	24176.1	19835.9	24636.2	16430.1	2601.5	19587.9	
G41.0	17560.6	5698.9	15018.6	24098.7	18069.8	24130.8	14574.5	1695.3	17560.6	
G42.0	15478.7	4181.8	13117.7	23833.8	16127.4	23356.7	12650.9	1056.1	15478.7	
G43.0	13442.0	2519.4	11210.2	23359.5	13988.9	22269.5	10553.0	714.7	13442.0	
G44.0	11215.8	1518.1	9189.5	22719.3	11932.5	20919.3	8457.8	532.7	11215.8	
G45.0	9080.2	1004.2	7234.0	21814.1	9793.9	19247.5	6259.9	430.0	9080.2	
G46.0	6806.8	702.5	5304.8	20641.1	7629.0	17481.4	4368.5	382.8	6806.8	
G47.0	4809.8	514.8	3713.2	19230.5	5497.1	15631.5	2786.3	342.3	4809.8	
G48.0	3222.9	425.3	2485.5	17529.5	3721.6	13685.3	1693.5	307.4	3222.9	
G49.0	2133.8	400.7	1661.4	15501.3	2414.8	11530.8	1053.2	280.0	2133.8	
G50.0	1342.7	377.2	1018.3	13529.7	1590.7	9488.4	772.2	253.6	1342.7	
G51.0	810.0	354.5	653.4	11498.7	1057.0	7458.4	578.0	225.4	810.0	
G52.0	526.1	331.0	512.0	9336.6	745.8	5434.0	519.5	192.4	526.1	
G53.0	393.2	302.7	457.3	7097.2	536.5	3740.5	480.9	165.0	393.2	
G54.0	336.6	272.5	413.0	5141.6	438.5	2477.9	447.9	159.4	336.6	
G55.0	304.6	240.4	374.3	3508.6	397.0	1590.7	415.8	159.4	304.6	
G56.0	284.8	216.9	348.9	2261.1	367.7	1001.4	384.7	155.6	284.8	
G57.0	265.9	211.2	328.1	1568.1	350.8	676.1	351.7	143.3	265.9	
G58.0	249.9	206.5	309.3	1117.3	338.5	567.6	308.3	138.6	249.9	
G59.0	227.2	195.2	286.6	750.5	328.1	510.1	271.6	128.2	227.2	
G60.0	194.2	177.3	260.2	528.0	314.9	468.6	241.4	122.6	194.2	
G61.0	163.1	145.2	231.0	452.6	293.2	431.9	232.9	121.6	163.1	
G62.0	128.2	119.8	214.0	403.6	262.1	400.7	226.3	120.7	128.2	
G63.0	105.6	116.9	203.7	380.0	233.8	373.4	216.9	119.8	105.6	
G64.0	91.5	116.0	195.2	364.9	208.4	343.2	196.1	117.9	91.5	
G65.0	74.5	116.0	179.1	348.9	189.5	315.9	166.9	117.9	74.5	
G66.0	66.0	115.0	154.6	331.0	167.8	268.7	131.1	116.9	66.0	
G67.0	50.0	115.0	132.0	313.0	153.7	235.7	124.5	116.9	50.0	
G68.0	39.6	115.0	123.5	285.7	139.6	219.7	123.5	116.0	39.6	
G69.0	40.5	115.0	121.6	251.8	122.6	205.6	120.7	115.0	40.5	
G70.0	43.4	114.1	119.8	224.4	119.8	187.6	118.8	114.1	43.4	
G71.0	45.3	114.1	118.8	191.4	118.8	164.1	118.8	114.1	45.3	
G72.0	46.2	114.1	118.8	166.9	118.8	143.3	118.8	114.1	46.2	
G73.0	48.1	113.2	117.9	156.5	117.9	124.5	116.9	113.2	48.1	

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-1800B
Distance: 8.030 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	50.9	113.2	116.0	147.1	116.9	121.6	117.9	113.2	50.9	
G75.0	52.8	112.2	116.0	134.8	116.9	120.7	117.9	112.2	52.8	
G76.0	52.8	112.2	116.0	124.5	115.0	119.8	117.9	111.3	52.8	
G77.0	53.8	111.3	114.1	120.7	114.1	118.8	115.0	110.3	53.8	
G78.0	56.6	111.3	114.1	119.8	113.2	116.9	114.1	109.4	56.6	
G79.0	57.5	110.3	115.0	120.7	114.1	116.0	114.1	110.3	57.5	
G80.0	57.5	110.3	114.1	119.8	114.1	116.9	115.0	109.4	57.5	
G81.0	59.4	109.4	112.2	117.9	112.2	116.0	112.2	107.5	59.4	
G82.0	60.3	109.4	113.2	116.9	113.2	114.1	112.2	109.4	60.3	
G83.0	60.3	108.4	112.2	117.9	112.2	113.2	113.2	109.4	60.3	
G84.0	61.3	107.5	112.2	116.9	111.3	113.2	113.2	108.4	61.3	
G85.0	61.3	107.5	111.3	116.0	111.3	114.1	112.2	109.4	61.3	
G86.0	63.2	107.5	109.4	114.1	109.4	113.2	111.3	108.4	63.2	
G87.0	62.2	107.5	110.3	115.0	108.4	111.3	108.4	108.4	62.2	
G88.0	63.2	107.5	109.4	114.1	109.4	111.3	108.4	109.4	63.2	
G89.0	63.2	107.5	107.5	113.2	109.4	110.3	109.4	109.4	63.2	
G90.0	63.2	107.5	109.4	114.1	106.6	111.3	109.4	108.4	63.2	
G91.0	65.1	107.5	109.4	112.2	107.5	110.3	109.4	108.4	65.1	
G92.0	65.1	108.4	109.4	112.2	107.5	108.4	108.4	108.4	65.1	
G93.0	65.1	108.4	107.5	111.3	108.4	108.4	109.4	111.3	65.1	
G94.0	65.1	108.4	109.4	111.3	107.5	108.4	109.4	112.2	65.1	
G95.0	66.0	109.4	109.4	110.3	107.5	108.4	110.3	111.3	66.0	
G96.0	66.9	109.4	107.5	109.4	107.5	108.4	109.4	112.2	66.9	
G97.0	66.9	110.3	108.4	109.4	109.4	107.5	108.4	113.2	66.9	
G98.0	66.9	111.3	110.3	109.4	109.4	107.5	108.4	116.9	66.9	
G99.0	66.9	112.2	111.3	109.4	109.4	108.4	110.3	118.8	66.9	
G100.0	68.8	113.2	110.3	109.4	109.4	108.4	110.3	119.8	68.8	
G101.0	67.9	114.1	113.2	109.4	110.3	108.4	111.3	120.7	67.9	
G102.0	69.8	115.0	112.2	109.4	112.2	108.4	110.3	122.6	69.8	
G103.0	70.7	116.9	113.2	110.3	114.1	108.4	111.3	126.3	70.7	
G104.0	69.8	118.8	116.0	109.4	114.1	109.4	114.1	128.2	69.8	
G105.0	71.7	119.8	116.9	110.3	115.0	110.3	115.0	129.2	71.7	
G106.0	72.6	121.6	117.9	110.3	118.8	111.3	115.0	131.1	72.6	
G107.0	72.6	123.5	121.6	110.3	120.7	110.3	116.0	135.8	72.6	
G108.0	74.5	124.5	124.5	112.2	120.7	111.3	117.9	138.6	74.5	
G109.0	75.4	125.4	124.5	113.2	123.5	113.2	121.6	139.6	75.4	
G110.0	76.4	126.3	126.3	114.1	127.3	114.1	123.5	141.4	76.4	

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-1800B
Distance: 8.030 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	76.4	126.3	131.1	114.1	130.1	116.0	125.4	144.3	76.4	
G112.0	77.3	125.4	132.0	116.9	132.9	117.9	126.3	149.0	77.3	
G113.0	77.3	124.5	136.7	116.9	133.9	118.8	128.2	151.8	77.3	
G114.0	77.3	121.6	138.6	118.8	138.6	120.7	132.9	151.8	77.3	
G115.0	75.4	119.8	139.6	121.6	141.4	123.5	134.8	154.6	75.4	
G116.0	74.5	117.9	144.3	122.6	144.3	126.3	135.8	158.4	74.5	
G117.0	73.6	115.0	147.1	124.5	145.2	127.3	137.7	161.2	73.6	
G118.0	71.7	115.0	148.0	127.3	148.0	129.2	140.5	161.2	71.7	
G119.0	69.8	113.2	150.9	129.2	152.8	132.9	146.1	164.1	69.8	
G120.0	68.8	112.2	154.6	131.1	155.6	133.9	148.0	167.8	68.8	
G121.0	66.9	112.2	156.5	134.8	155.6	135.8	149.0	169.7	66.9	
G122.0	66.0	113.2	158.4	136.7	156.5	135.8	150.9	171.6	66.0	
G123.0	66.9	113.2	163.1	139.6	157.5	133.9	153.7	172.6	66.9	
G124.0	66.9	113.2	165.0	143.3	160.3	126.3	157.5	175.4	66.9	
G125.0	66.9	115.0	165.9	144.3	160.3	114.1	159.4	178.2	66.9	
G126.0	67.9	115.0	169.7	149.0	157.5	98.1	160.3	183.9	67.9	
G127.0	68.8	117.9	170.7	149.9	155.6	84.9	162.2	187.6	68.8	
G128.0	72.6	119.8	174.4	153.7	155.6	73.6	165.9	191.4	72.6	
G129.0	72.6	122.6	175.4	154.6	154.6	66.9	167.8	196.1	72.6	
G130.0	74.5	127.3	177.3	157.5	152.8	64.1	167.8	204.6	74.5	
G131.0	78.3	129.2	181.0	161.2	152.8	64.1	170.7	211.2	78.3	
G132.0	80.2	133.9	182.9	161.2	154.6	66.9	174.4	216.9	80.2	
G133.0	83.0	139.6	186.7	165.9	152.8	69.8	176.3	223.5	83.0	
G134.0	87.7	144.3	190.5	167.8	152.8	72.6	177.3	232.9	87.7	
G135.0	90.5	150.9	191.4	167.8	156.5	75.4	179.1	240.4	90.5	
G136.0	96.2	159.4	197.1	172.6	157.5	80.2	181.0	246.1	96.2	
G137.0	100.9	165.9	199.9	172.6	155.6	84.9	186.7	253.6	100.9	
G138.0	104.7	174.4	204.6	177.3	156.5	86.8	188.6	263.1	104.7	
G139.0	112.2	182.0	207.4	180.1	159.4	88.6	192.4	271.6	112.2	
G140.0	116.0	192.4	212.1	181.0	162.2	91.5	198.9	277.2	116.0	
G141.0	123.5	199.9	217.8	185.8	162.2	96.2	204.6	284.8	123.5	
G142.0	129.2	207.4	222.5	187.6	164.1	101.8	208.4	293.2	129.2	
G143.0	132.9	215.9	229.1	191.4	168.8	107.5	215.0	299.8	132.9	
G144.0	138.6	225.4	234.8	194.2	173.5	114.1	223.5	305.5	138.6	
G145.0	145.2	231.9	241.4	200.8	181.0	123.5	231.0	311.2	145.2	
G146.0	149.0	240.4	248.9	202.7	190.5	132.0	236.7	318.7	149.0	
G147.0	153.7	246.1	256.5	209.3	197.1	142.4	244.2	323.4	153.7	

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-1800B
Distance: 8.030 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	160.3	250.8	262.1	212.1	203.7	152.8	253.6	327.2	160.3	
G149.0	164.1	256.5	271.6	209.3	208.4	165.0	261.2	331.0	164.1	
G150.0	167.8	263.1	277.2	206.5	215.9	180.1	269.7	335.7	167.8	
G151.0	173.5	266.8	283.8	201.8	217.8	195.2	275.3	337.6	173.5	
G152.0	175.4	272.5	291.4	196.1	220.6	209.3	282.9	342.3	175.4	
G153.0	180.1	276.3	297.0	190.5	225.4	221.6	289.5	346.0	180.1	
G154.0	182.9	281.0	302.7	184.8	226.3	231.9	298.0	347.9	182.9	
G155.0	184.8	287.6	309.3	182.9	229.1	239.5	304.6	350.8	184.8	
G156.0	189.5	293.2	314.9	184.8	231.0	247.0	309.3	354.5	189.5	
G157.0	197.1	297.0	320.6	190.5	235.7	250.8	314.0	358.3	197.1	
G158.0	200.8	304.6	326.2	199.9	237.6	253.6	320.6	361.1	200.8	
G159.0	205.6	310.2	331.9	213.1	240.4	257.4	325.3	364.9	205.6	
G160.0	213.1	317.8	337.6	225.4	244.2	260.2	329.1	369.6	213.1	
G161.0	217.8	323.4	343.2	243.3	246.1	263.1	335.7	372.5	217.8	
G162.0	224.4	329.1	347.9	260.2	247.0	267.8	338.5	375.3	224.4	
G163.0	229.1	334.7	353.6	278.2	249.9	272.5	343.2	377.2	229.1	
G164.0	233.8	338.5	358.3	296.1	252.7	277.2	347.0	379.0	233.8	
G165.0	239.5	344.2	362.1	311.2	254.6	283.8	350.8	379.0	239.5	
G166.0	246.1	348.9	365.9	322.5	257.4	290.4	355.5	380.0	246.1	
G167.0	250.8	355.5	369.6	332.9	260.2	297.0	359.3	380.9	250.8	
G168.0	255.5	359.3	372.5	342.3	263.1	304.6	364.0	380.0	255.5	
G169.0	257.4	362.1	376.2	348.9	268.7	313.0	369.6	379.0	257.4	
G170.0	264.0	366.8	379.0	355.5	270.6	320.6	374.3	374.3	264.0	
G171.0	267.8	369.6	381.9	362.1	273.4	329.1	378.1	369.6	267.8	
G172.0	267.8	370.6	384.7	366.8	273.4	338.5	380.9	362.1	267.8	
G173.0	270.6	375.3	387.5	369.6	275.3	347.0	384.7	353.6	270.6	
G174.0	273.4	378.1	389.4	370.6	277.2	352.6	388.5	346.0	273.4	
G175.0	273.4	379.0	390.4	369.6	276.3	355.5	390.4	338.5	273.4	
G176.0	275.3	380.0	392.3	366.8	277.2	355.5	393.2	333.8	275.3	
G177.0	272.5	381.9	394.1	360.2	275.3	354.5	395.1	330.0	272.5	
G178.0	270.6	384.7	393.2	353.6	274.4	353.6	395.1	329.1	270.6	
G179.0	269.7	384.7	393.2	344.2	273.4	352.6	397.9	332.9	269.7	
G180.0	268.7	381.9	392.3	335.7	276.3	350.8	400.7	340.4	268.7	

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-1800B
Distance: 8.030 m
Humidity:
Inspector: