

Report No.:

Test Time: 2021-03-03 15:52

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LED-490-3CCT-NW-12W-4K

Voltage: 120.0 V

Current: 0.099 A

Power: 11.65 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1081.8 lm

Measurement Flux: 1081.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 39.1, 39.4, 39.2, 39.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.3, 21.9, 22.2, 22.2

Luminaire Efficacy Rating (LER): 92.91

Central Intensity: 5233.89 cd

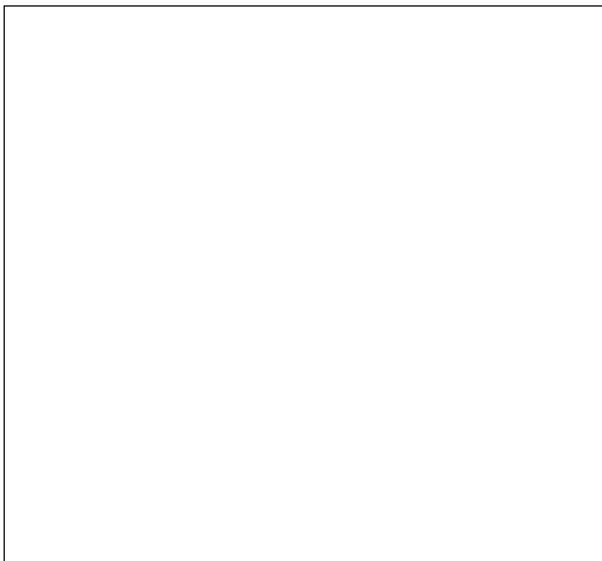
Max. Intensity: 5587.96 cd

Pos of Max. Intensity: H150 V4

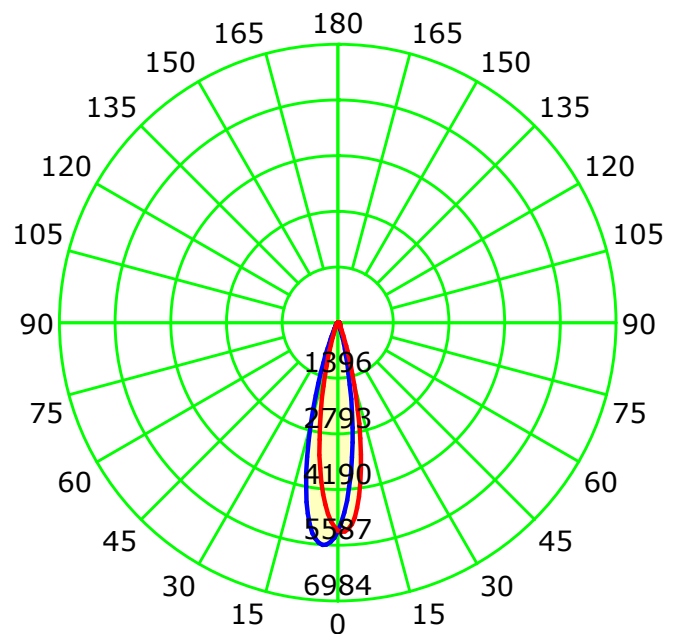
S/MH(C0/C180): 0.40

S/MH(C90/C270): 0.38

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 6.935 m

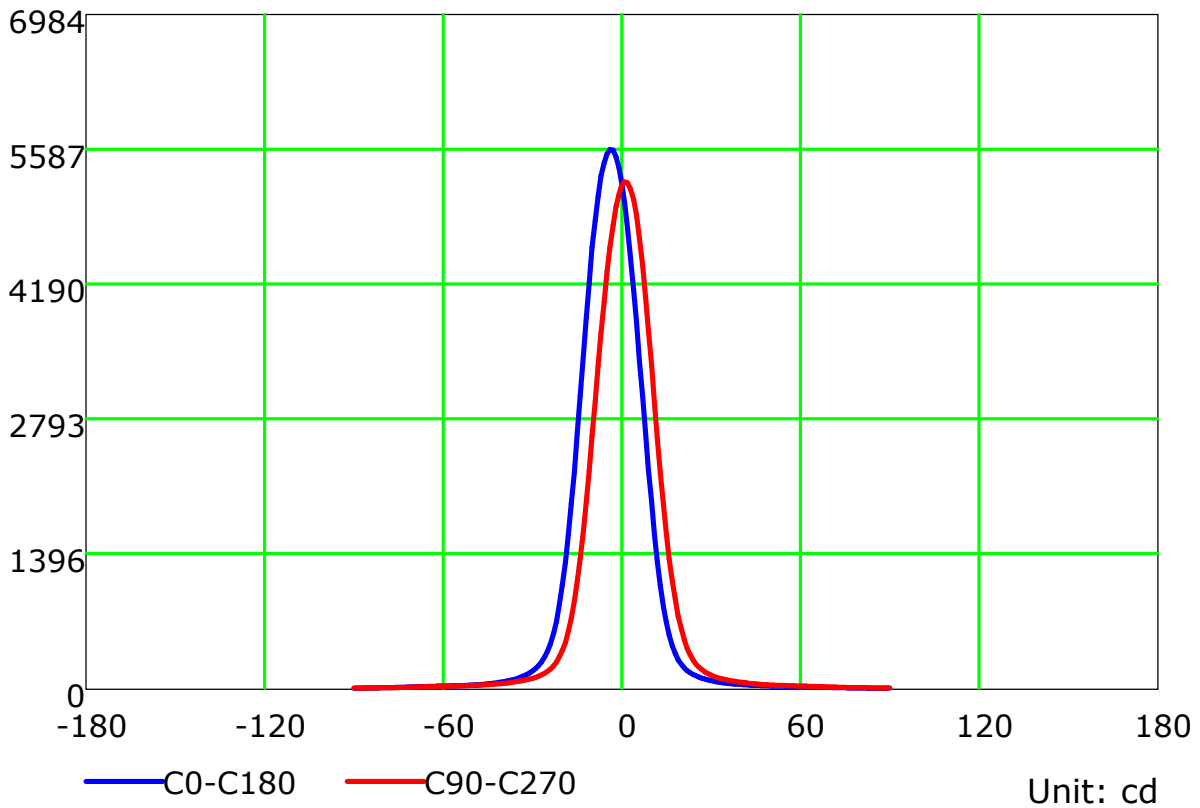
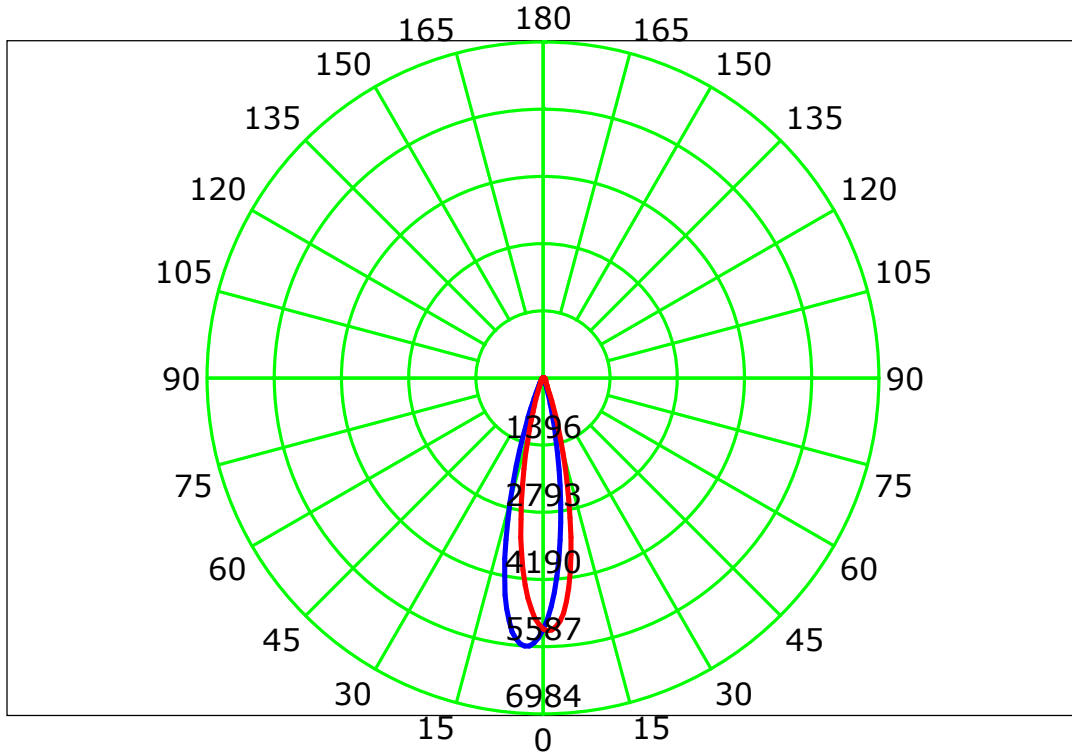
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

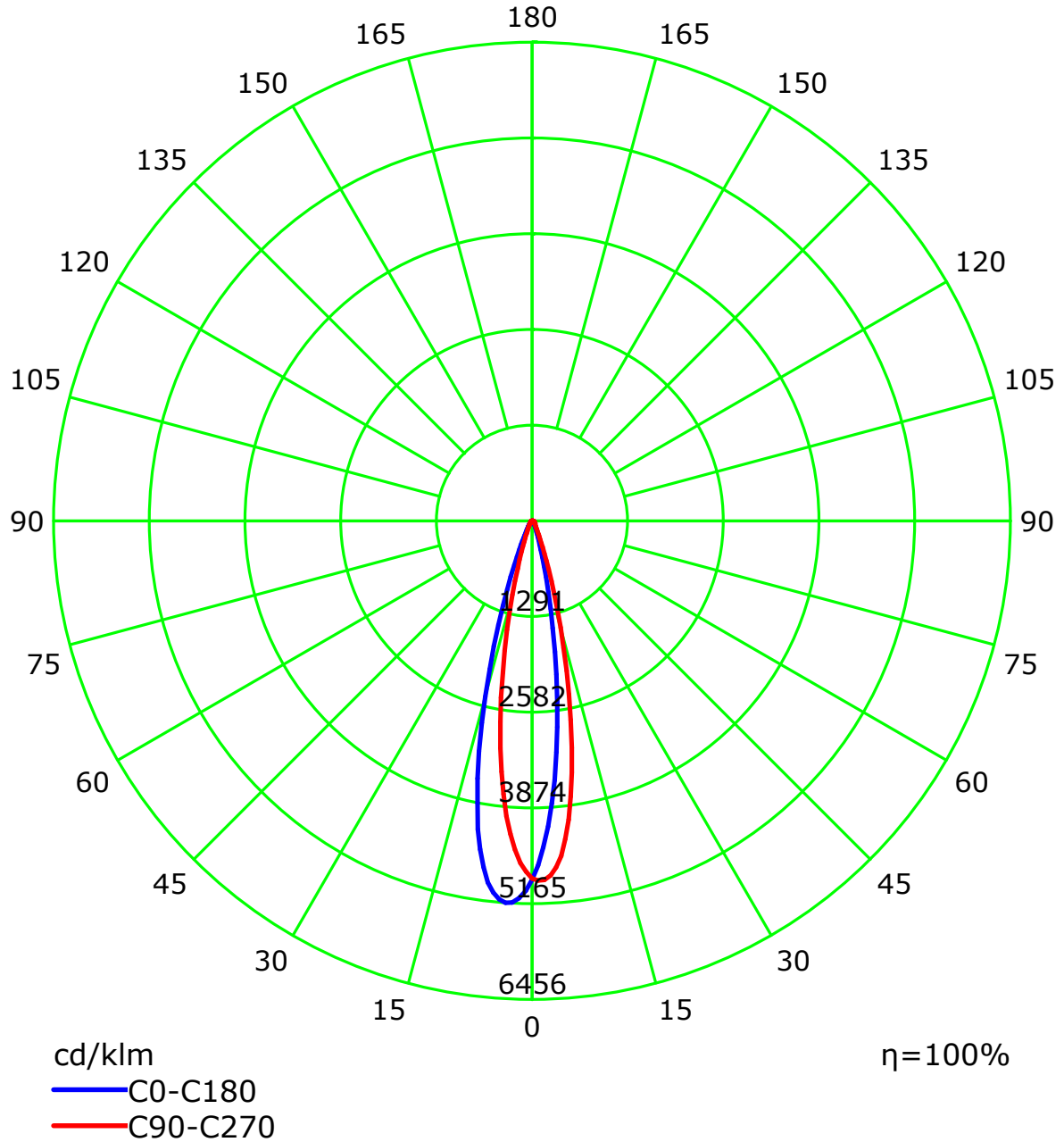


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Unit: cd

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

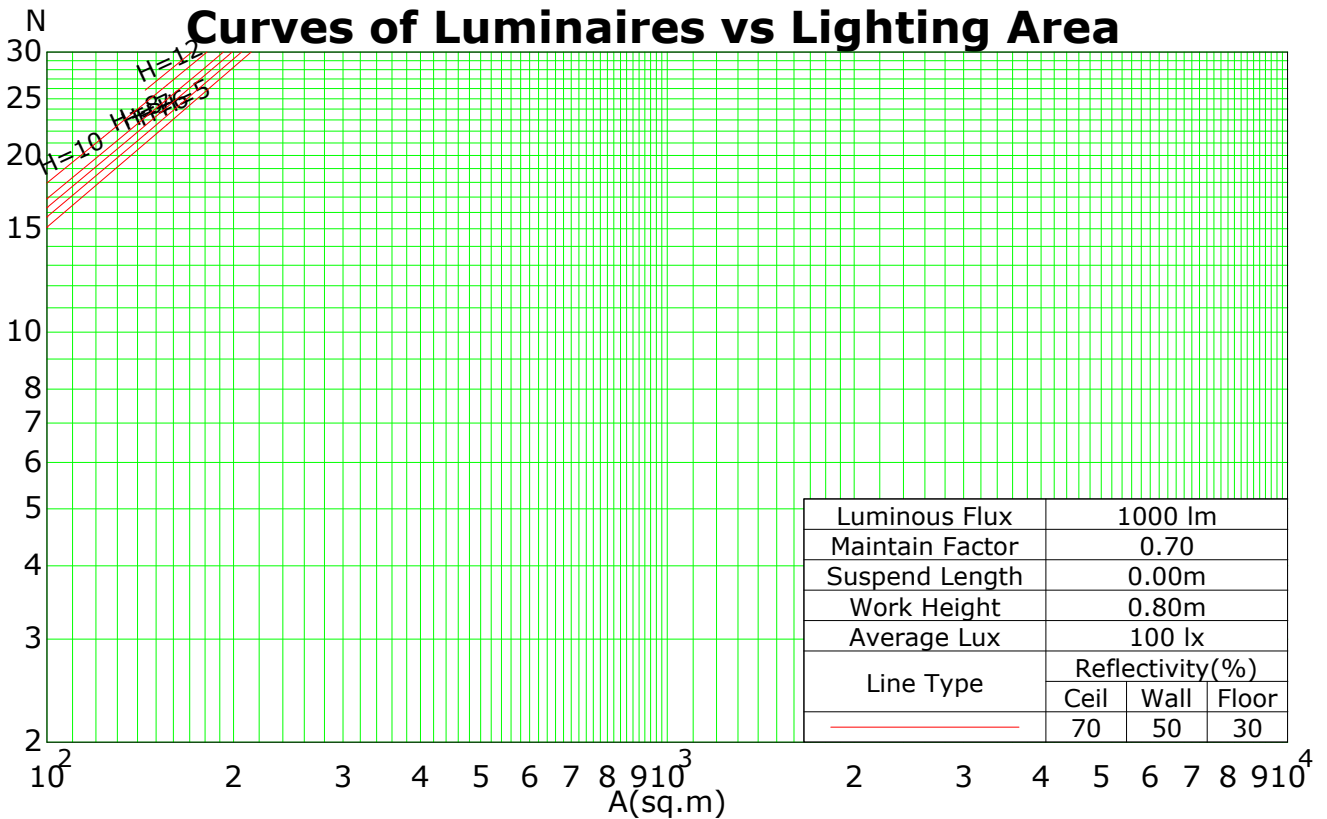
Humidity:

Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	86	82	80	84	81	79	78
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	78	75	82	78	75	81	77	75	80	77	75	74
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

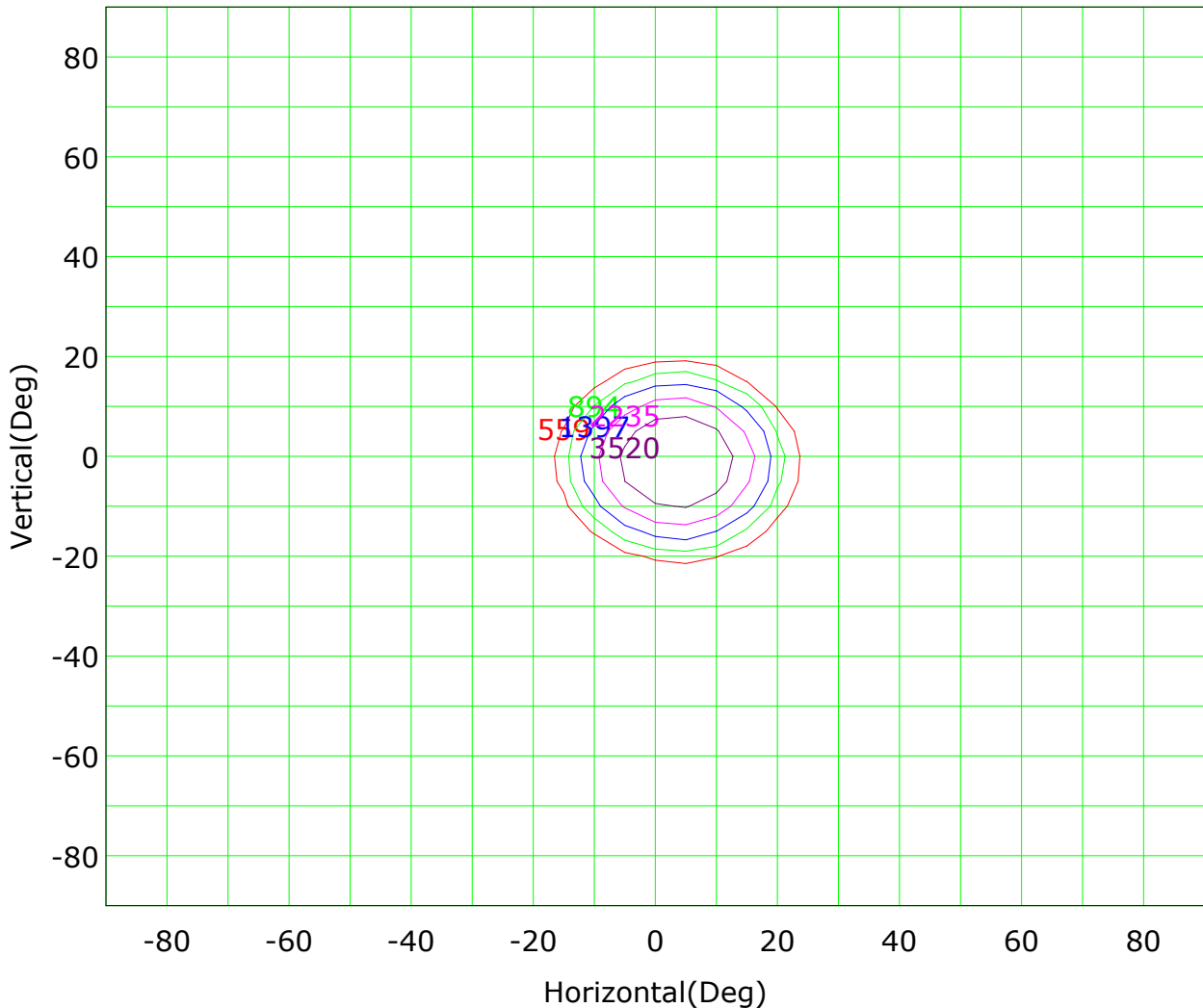
Spacing Criteria (0-180): 0.40
 Spacing Criteria (90-270): 0.38
 Spacing Criteria (Diagonal): 0.39



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

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

Isocandela (rectangle)



Imax (100%): 5588 cd

— (10%): 559 cd	— (16%): 894 cd
— (25%): 1397 cd	— (40%): 2235 cd
— (63%): 3520 cd	— (100%): 5588 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

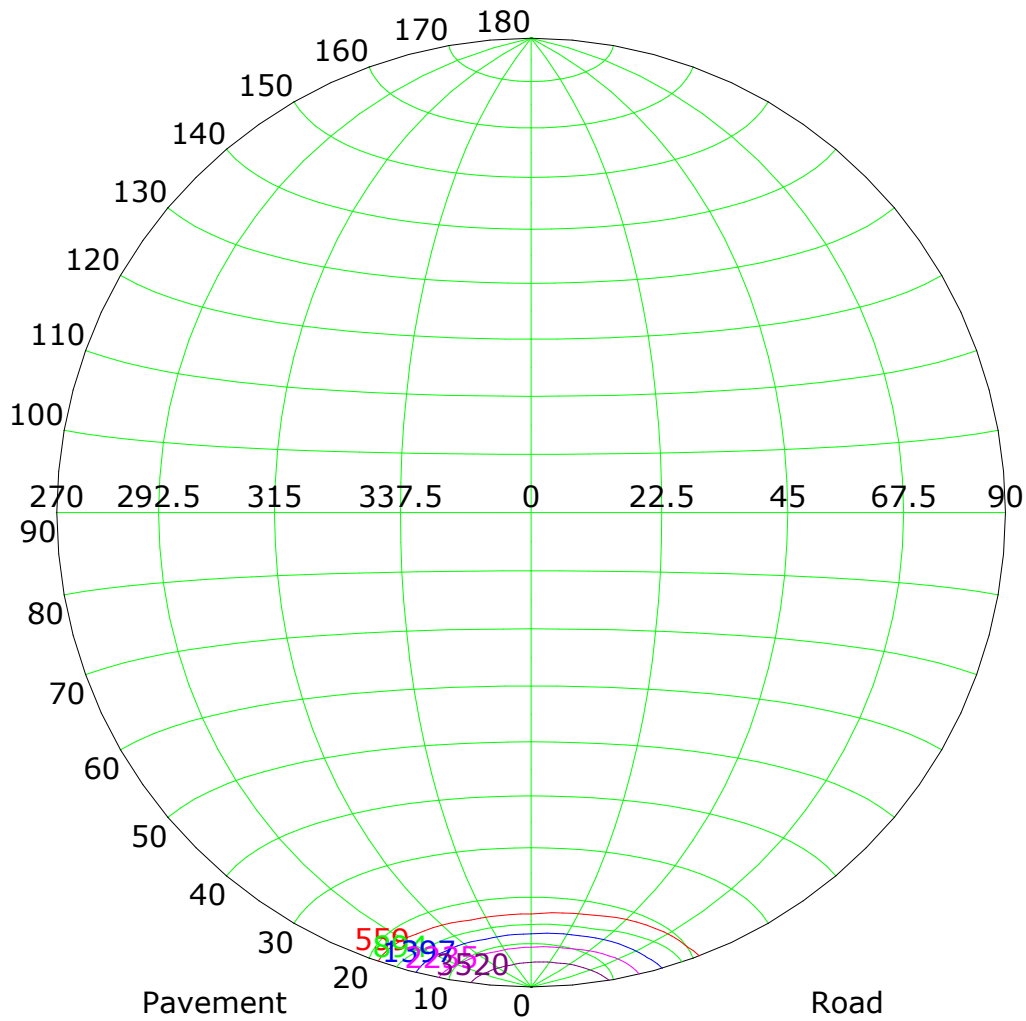
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 5588 cd

— (10%): 559 cd	— (16%): 894 cd
— (25%): 1397 cd	— (40%): 2235 cd
— (63%): 3520 cd	— (100%): 5588 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

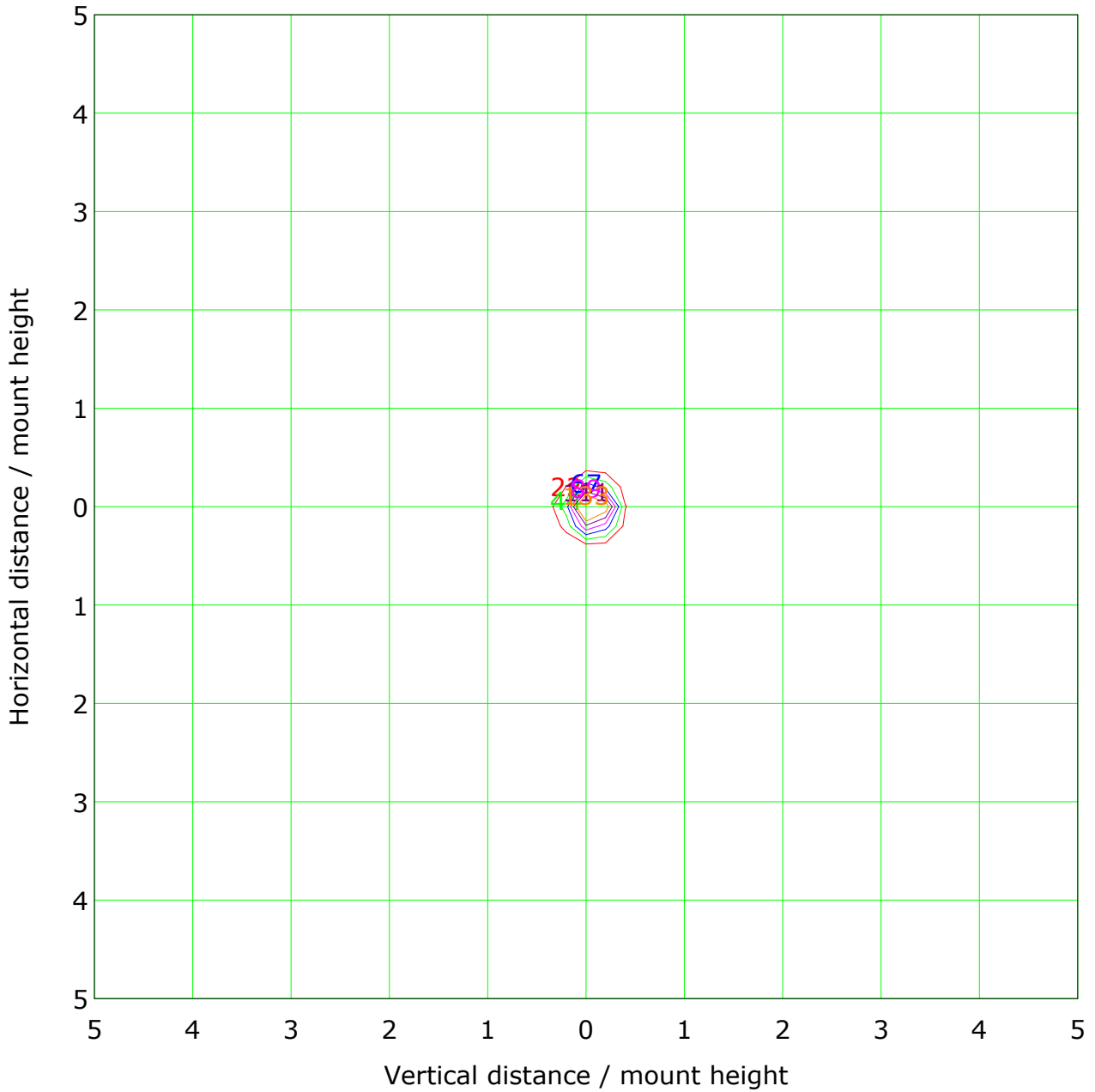
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 222.2 lx	
<ul style="list-style-type: none"> — (10%): 22.2 lx — (30%): 66.7 lx — (50%): 111.1 lx — (100%): 222.2 lx 	<ul style="list-style-type: none"> — (20%): 44.4 lx — (40%): 88.9 lx — (60%): 133.3 lx 		

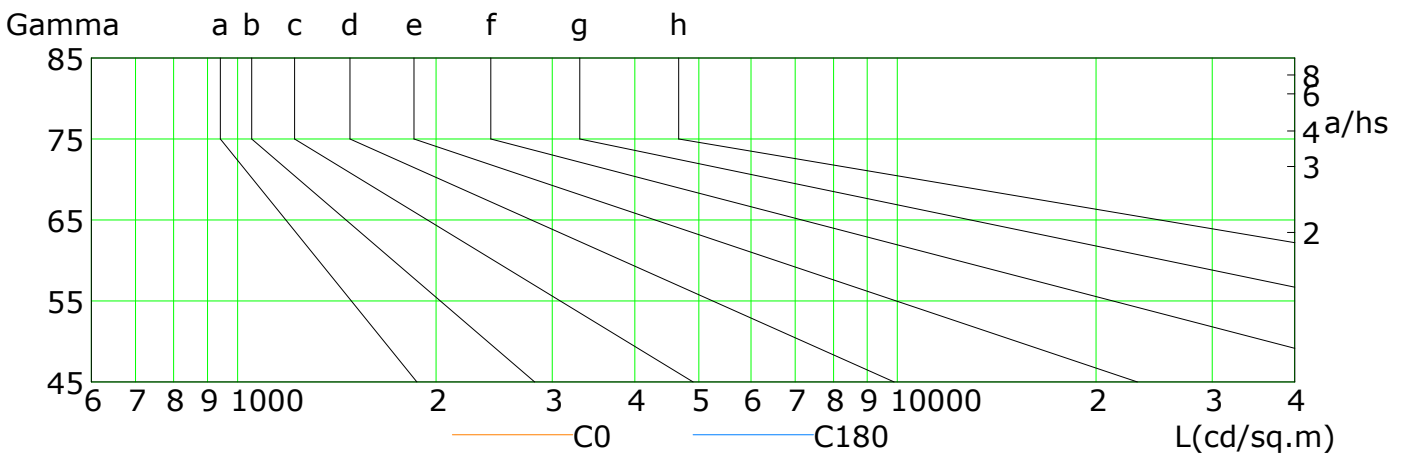
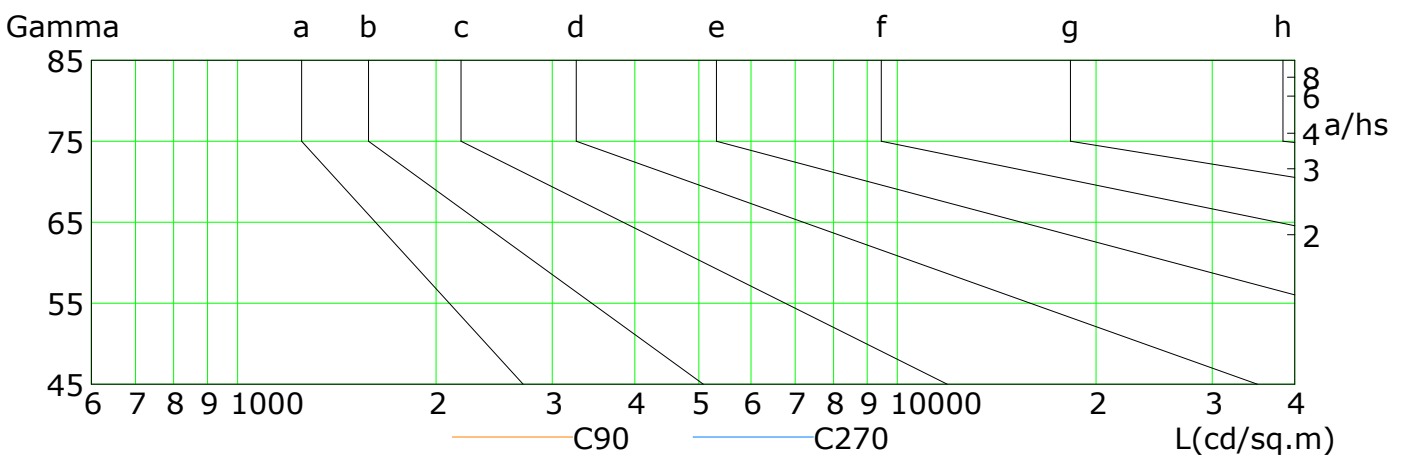
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

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	32	26	23	18	14	10	7	5	2
C90	47	36	30	25	20	15	11	8	6
C180	48	36	29	25	21	16	12	7	5
C270	40	32	27	22	18	14	10	7	5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

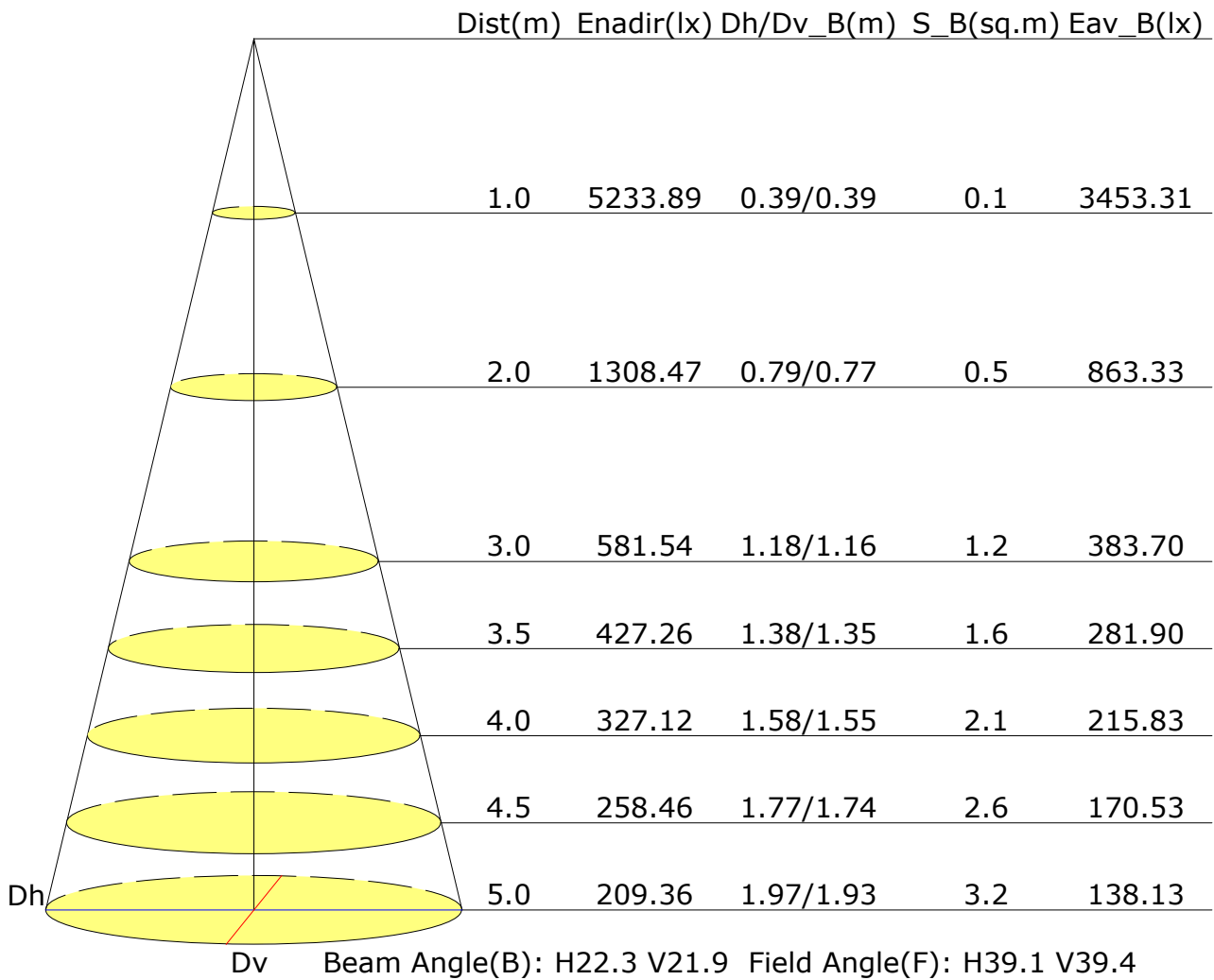
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

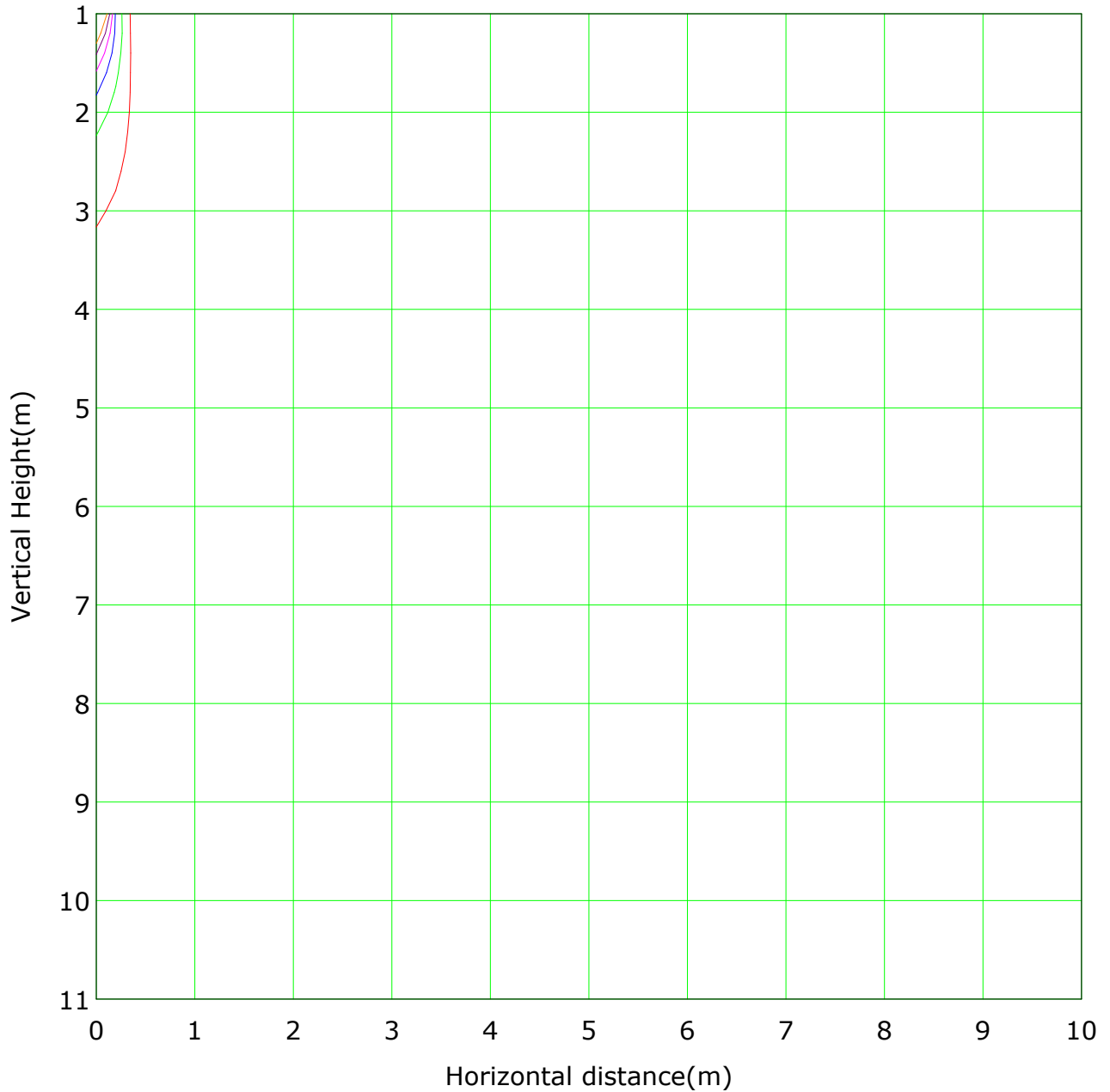
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5233.9 lx
 (10%): 523.4 lx (20%):1046.8 lx
 (30%):1570.2 lx (40%):2093.6 lx
 (50%):2616.9 lx (60%):3140.3 lx
 (100%):5233.9 lx

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

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

Area Flux Table

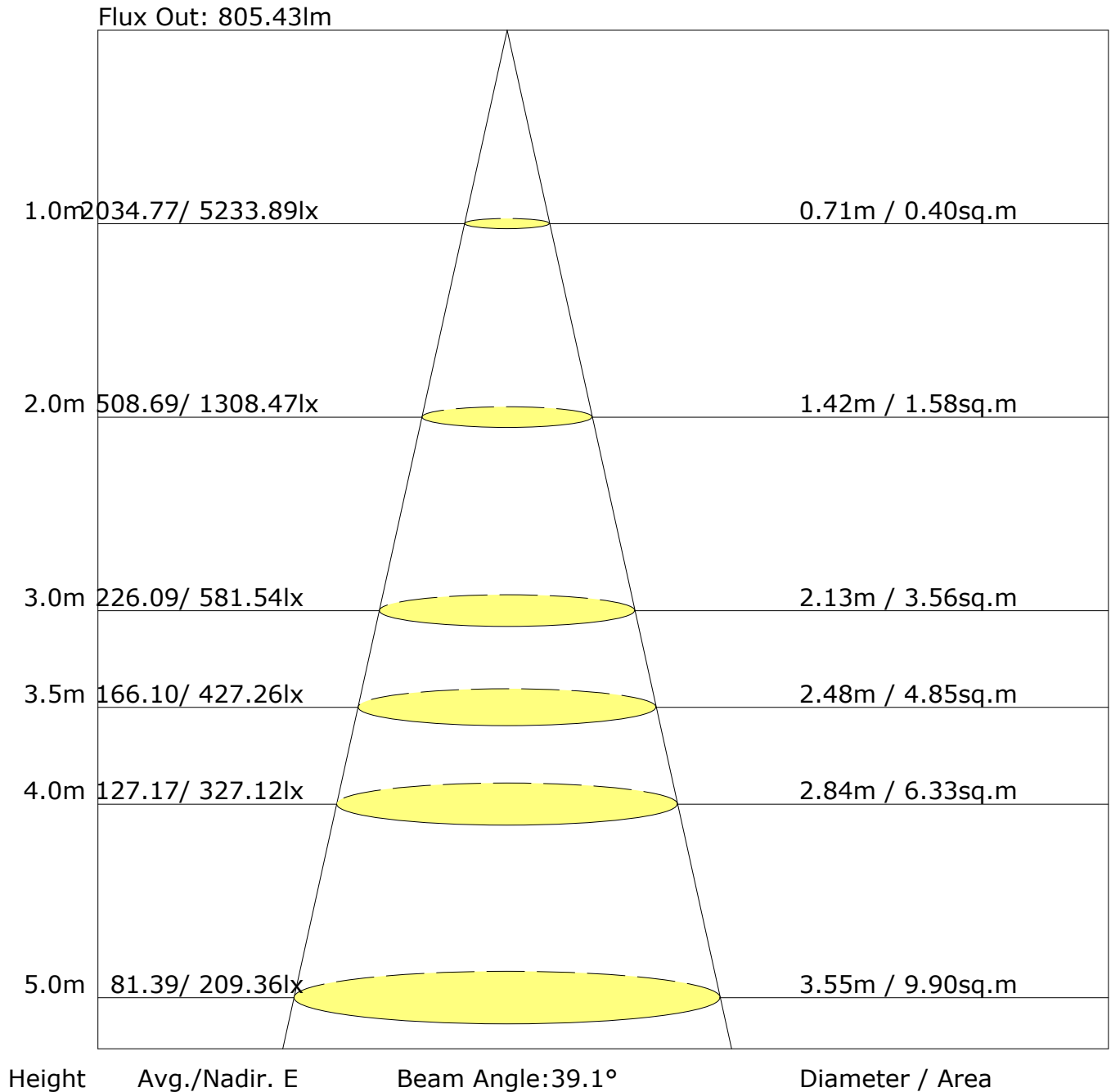
Unit: lm

-90	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.7	0.0
-80	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	2.9	0.0
-70	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.8	0.0
-60	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	6.9	0.0
-50	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.1	1.2	1.2	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	9.6	0.0
-40	0.0	0.1	0.2	0.4	0.6	1.0	1.5	2.0	2.3	2.1	1.6	1.1	0.7	0.5	0.3	0.1	0.0	0.0	14.7	0.0
-30	0.0	0.1	0.2	0.5	0.8	1.5	2.6	4.4	6.2	5.2	3.1	1.7	0.9	0.6	0.3	0.2	0.1	0.0	28.3	0.0
-20	0.0	0.1	0.3	0.5	0.9	2.1	5.2	18.9	38.5	26.6	7.8	2.6	1.2	0.6	0.4	0.2	0.1	0.0	105.9	72.8
-10	0.0	0.1	0.3	0.5	1.0	2.6	10.6	61.7	128.4	88.9	19.8	3.7	1.4	0.7	0.4	0.2	0.1	0.0	320.4	297.7
0	0.0	0.1	0.3	0.5	1.0	2.7	11.7	69.3	143.7	99.8	21.9	3.8	1.5	0.7	0.4	0.2	0.1	0.0	357.7	335.2
10	0.0	0.1	0.3	0.5	0.9	2.2	6.7	26.9	54.8	36.9	9.9	3.0	1.3	0.7	0.4	0.2	0.1	0.0	144.8	116.3
20	0.0	0.1	0.2	0.5	0.8	1.5	3.2	6.5	9.4	7.2	3.8	2.0	1.1	0.6	0.4	0.2	0.1	0.0	37.5	1.6
30	0.0	0.1	0.2	0.4	0.6	1.0	1.7	2.6	2.9	2.6	2.0	1.3	0.8	0.5	0.3	0.1	0.0	0.0	17.4	0.0
40	0.0	0.1	0.2	0.3	0.6	0.8	1.1	1.3	1.5	1.4	1.2	0.9	0.7	0.4	0.2	0.1	0.0	0.0	10.8	0.0
50	0.0	0.1	0.1	0.3	0.4	0.6	0.8	0.9	0.9	0.9	0.8	0.7	0.5	0.3	0.2	0.1	0.0	0.0	7.6	0.0
60	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.3	0.2	0.1	0.1	0.0	0.0	5.2	0.0
70	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	3.0	0.0
80	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	1.7	0.0
90	0.2	1.1	3.0	5.7	9.9	18.8	48.7	198.5	392.7	275.8	75.5	23.8	12.5	7.3	4.3	2.1	0.7	0.1	1081	
Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	9.5	167.4	364.9	246.2	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		824
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	9.5	167.4	364.9	246.2	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		824

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

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

The Average Illuminance Effective Figure



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

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

UGR Table

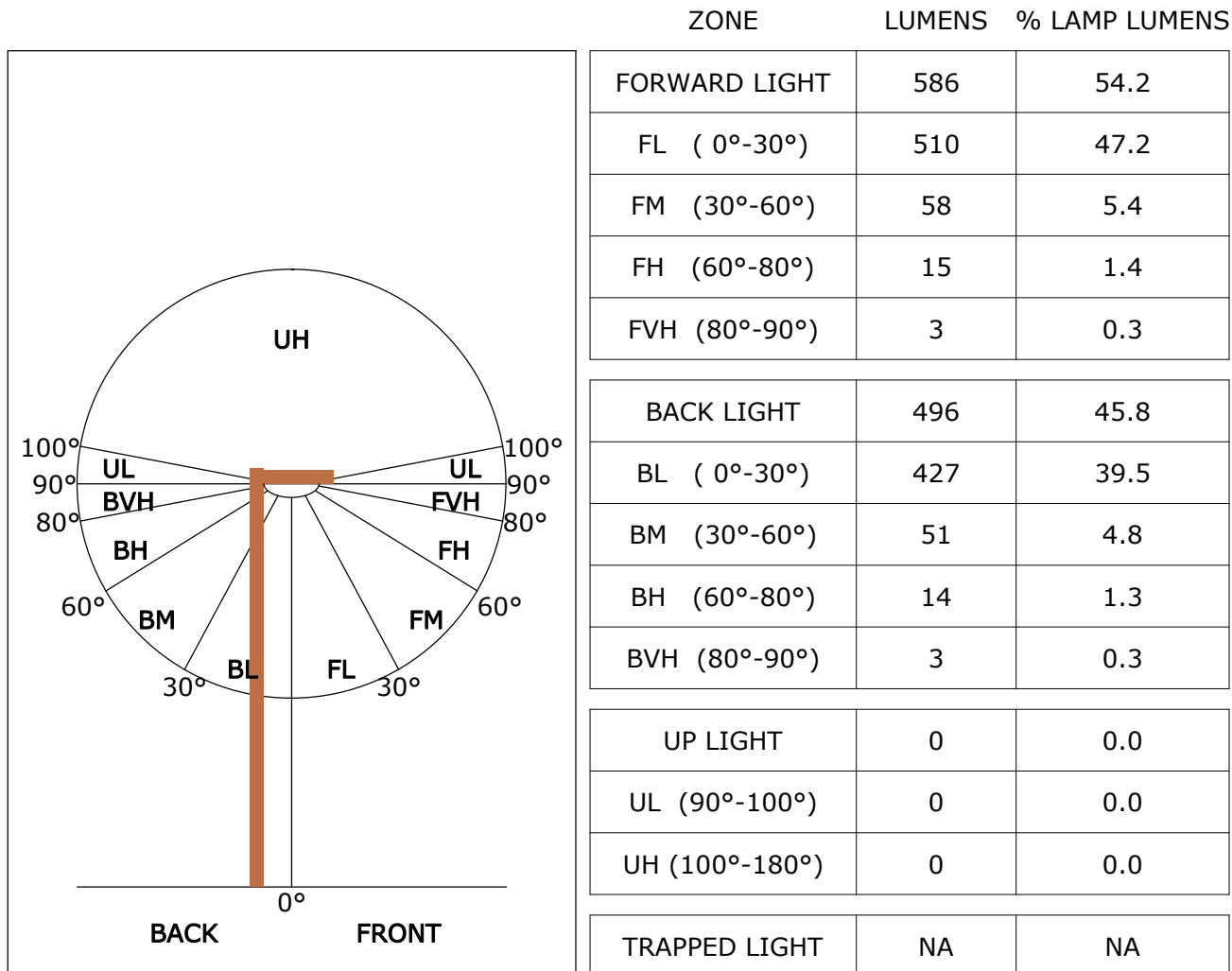
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 1082lm ($8\log(F/F_0) = 0.3$).

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

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

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

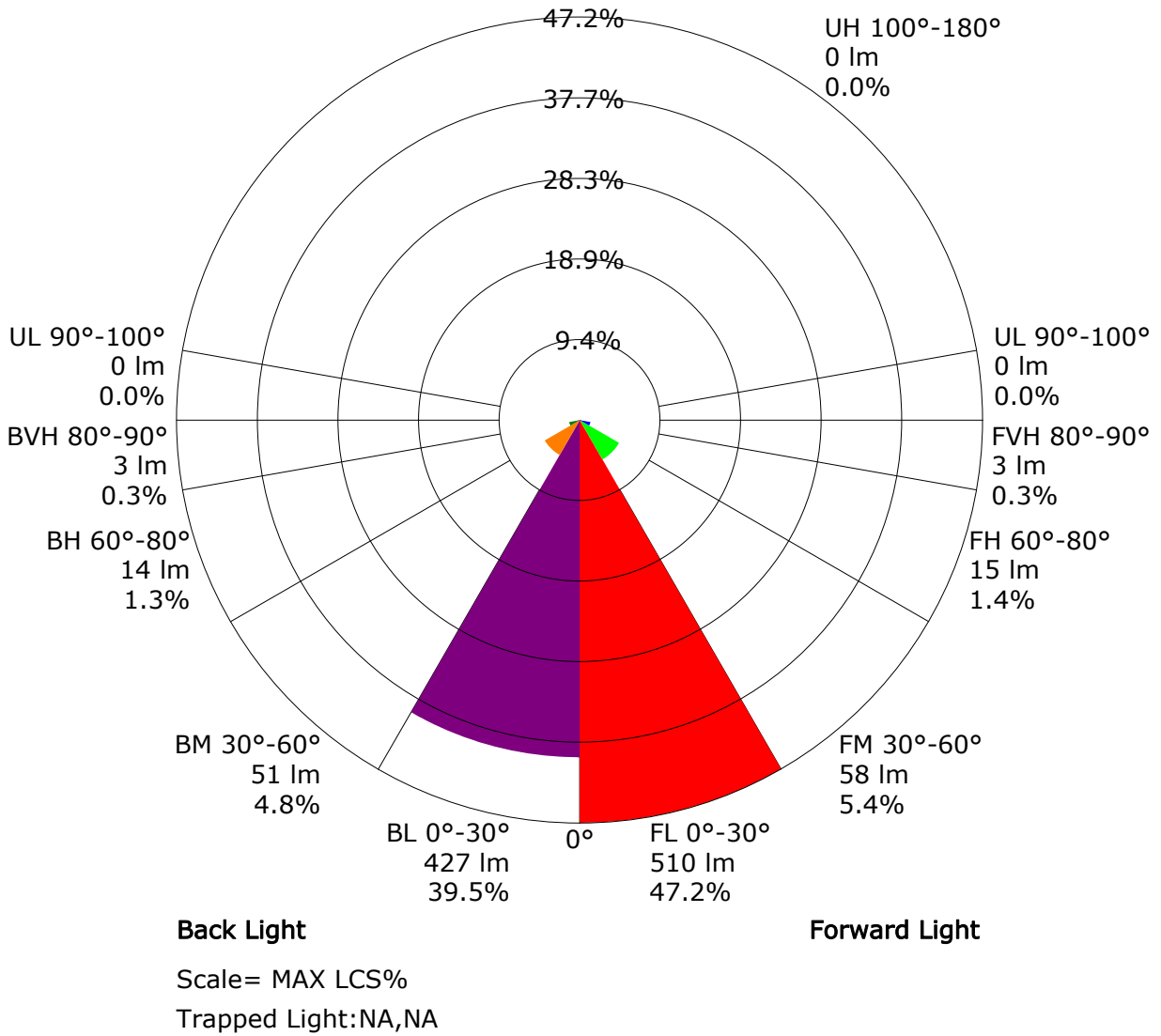


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

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

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

LCS Graph



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

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

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50									
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	0.93	0.98	1.01	1.04	1.07	1.09	1.11	1.13	1.14	
	0.30		0.89	0.94	0.97	1.00	1.04	1.06	1.08	1.11	1.13	
	0.20		0.86	0.91	0.94	0.97	1.01	1.04	1.06	1.09	1.11	
0.50	0.50	0.20	0.91	0.96	0.99	1.01	1.04	1.06	1.07	1.09	1.10	
	0.30		0.88	0.93	0.96	0.98	1.02	1.04	1.05	1.07	1.09	
	0.20		0.85	0.90	0.93	0.96	0.99	1.02	1.03	1.06	1.07	
0.30	0.50	0.20	0.90	0.94	0.97	0.99	1.02	1.03	1.04	1.06	1.06	
	0.30		0.87	0.91	0.94	0.97	0.99	1.01	1.03	1.04	1.05	
	0.20		0.85	0.89	0.92	0.94	0.98	1.00	1.01	1.03	1.04	
0.00	0.00	0.00	0.83	0.87	0.90	0.92	0.94	0.96	0.97	0.99	1.00	
<p>Rating:12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

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

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.50									
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	0.52	0.42	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
	0.30		0.43	0.36	0.31	0.28	0.23	0.19	0.17	0.13	0.11	
	0.20		0.37	0.32	0.28	0.25	0.21	0.18	0.15	0.12	0.10	
0.50	0.50	0.20	0.49	0.40	0.34	0.29	0.23	0.24	0.16	0.13	0.10	
	0.30		0.41	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10	
	0.20		0.36	0.31	0.27	0.24	0.19	0.17	0.14	0.11	0.10	
0.30	0.50	0.20	0.47	0.37	0.32	0.27	0.21	0.18	0.15	0.12	0.09	
	0.30		0.40	0.33	0.28	0.25	0.20	0.17	0.14	0.11	0.09	
	0.20		0.35	0.29	0.26	0.23	0.18	0.15	0.13	0.11	0.09	
0.00	0.00	0.00	0.20	0.16	0.14	0.12	0.09	0.08	0.06	0.05	0.04	
<p>Rating:12W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

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

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.10	0.12	0.14	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.30	0.50	0.20	0.12	0.13	0.15	0.15	0.17	0.18	0.18	0.19	0.20
	0.30		0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

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

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	5204.9	5.0	5.0	0.46	0.46
1.0-2.0	5158.8	14.8	19.8	1.37	1.83
2.0-3.0	5061.9	24.2	44.0	2.24	4.07
3.0-4.0	4918.4	32.9	76.9	3.04	7.11
4.0-5.0	4737.9	40.8	117.7	3.77	10.88
5.0-6.0	4508.3	47.4	165.1	4.38	15.26
6.0-7.0	4241.2	52.6	217.7	4.87	20.13
7.0-8.0	3946.7	56.5	274.2	5.22	25.35
8.0-9.0	3622.7	58.7	332.9	5.43	30.78
9.0-10.0	3289.9	59.5	392.5	5.50	36.28
10.0-11.0	2938.4	58.7	451.2	5.43	41.71
11.0-12.0	2586.7	56.6	507.8	5.23	46.94
12.0-13.0	2262.7	53.7	561.5	4.96	51.90
13.0-14.0	1944.7	49.8	611.2	4.60	56.50
14.0-15.0	1650.6	45.3	656.6	4.19	60.69
15.0-16.0	1391.1	40.8	697.3	3.77	64.46
16.0-17.0	1157.2	36.0	733.4	3.33	67.79
17.0-18.0	959.9	31.7	765.0	2.93	70.72
18.0-19.0	788.9	27.5	792.5	2.54	73.26
19.0-20.0	644.9	23.6	816.1	2.18	75.44
20.0-21.0	532.2	20.4	836.5	1.89	77.33
21.0-22.0	437.1	17.6	854.1	1.62	78.95
22.0-23.0	361.4	15.2	869.3	1.40	80.35
23.0-24.0	302.9	13.2	882.5	1.22	81.58
24.0-25.0	256.2	11.7	894.1	1.08	82.65
25.0-26.0	221.4	10.5	904.6	0.97	83.62
26.0-27.0	192.7	9.4	914.0	0.87	84.49
27.0-28.0	169.1	8.6	922.6	0.79	85.28
28.0-29.0	150.1	7.9	930.4	0.73	86.01
29.0-30.0	134.3	7.3	937.7	0.67	86.68
30.0-31.0	121.2	6.7	944.4	0.62	87.30
31.0-32.0	109.9	6.3	950.7	0.58	87.89
32.0-33.0	100.3	5.9	956.7	0.55	88.43
33.0-34.0	92.2	5.6	962.2	0.52	88.95
34.0-35.0	84.9	5.3	967.5	0.49	89.44
35.0-36.0	78.6	5.0	972.5	0.46	89.90

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

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

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	73.0	4.8	977.3	0.44	90.34
37.0-38.0	67.9	4.5	981.8	0.42	90.76
38.0-39.0	63.3	4.3	986.1	0.40	91.16
39.0-40.0	59.2	4.1	990.3	0.38	91.54
40.0-41.0	55.3	3.9	994.2	0.36	91.90
41.0-42.0	51.9	3.8	998.0	0.35	92.25
42.0-43.0	48.6	3.6	1001.6	0.33	92.58
43.0-44.0	45.6	3.4	1005.0	0.32	92.90
44.0-45.0	43.1	3.3	1008.3	0.31	93.21
45.0-46.0	40.7	3.2	1011.5	0.29	93.50
46.0-47.0	38.5	3.1	1014.6	0.28	93.78
47.0-48.0	36.5	3.0	1017.5	0.27	94.06
48.0-49.0	34.6	2.8	1020.4	0.26	94.32
49.0-50.0	33.1	2.8	1023.1	0.26	94.58
50.0-51.0	31.8	2.7	1025.8	0.25	94.82
51.0-52.0	30.5	2.6	1028.4	0.24	95.07
52.0-53.0	29.3	2.6	1031.0	0.24	95.30
53.0-54.0	28.3	2.5	1033.5	0.23	95.53
54.0-55.0	27.4	2.4	1035.9	0.23	95.76
55.0-56.0	26.7	2.4	1038.3	0.22	95.98
56.0-57.0	25.8	2.4	1040.7	0.22	96.20
57.0-58.0	25.0	2.3	1043.0	0.21	96.41
58.0-59.0	24.2	2.3	1045.3	0.21	96.62
59.0-60.0	23.4	2.2	1047.5	0.20	96.83
60.0-61.0	22.5	2.2	1049.6	0.20	97.02
61.0-62.0	21.7	2.1	1051.7	0.19	97.22
62.0-63.0	20.8	2.0	1053.7	0.19	97.41
63.0-64.0	19.9	2.0	1055.7	0.18	97.59
64.0-65.0	18.9	1.9	1057.6	0.17	97.76
65.0-66.0	18.0	1.8	1059.3	0.17	97.92
66.0-67.0	17.0	1.7	1061.1	0.16	98.08
67.0-68.0	16.2	1.6	1062.7	0.15	98.23
68.0-69.0	15.3	1.6	1064.3	0.14	98.38
69.0-70.0	14.4	1.5	1065.7	0.14	98.52
70.0-71.0	13.6	1.4	1067.1	0.13	98.65
71.0-72.0	12.6	1.3	1068.5	0.12	98.77

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

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

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	5233.9	5208.7	5214.7	5218.7	5202.8	5222.4	5233.9	5208.7	5214.7	5218.7
G1.0	5029.5	5064.2	5152.6	5249.5	5330.4	5385.7	5400.3	5322.0	5227.7	5118.9
G2.0	4765.4	4870.0	5053.0	5241.5	5408.9	5504.7	5510.0	5377.0	5189.4	4995.9
G3.0	4468.0	4617.8	4878.6	5179.7	5431.1	5576.3	5578.5	5379.4	5099.1	4804.0
G4.0	4130.3	4331.6	4682.2	5067.2	5409.1	5588.0	5586.2	5338.2	4966.9	4577.7
G5.0	3799.8	4015.6	4418.8	4907.1	5340.8	5560.4	5543.2	5248.2	4797.6	4324.3
G6.0	3394.8	3633.6	4114.1	4667.0	5200.8	5479.6	5451.3	5105.8	4544.3	4010.7
G7.0	3033.2	3282.5	3786.2	4392.6	5011.2	5345.8	5315.6	4909.0	4286.1	3687.6
G8.0	2659.5	2877.2	3428.5	4063.7	4771.4	5124.5	5100.5	4677.0	3959.1	3348.5
G9.0	2269.1	2522.4	3051.6	3716.6	4469.6	4892.2	4852.6	4378.2	3623.6	2973.4
G10.0	1943.1	2177.4	2690.7	3359.8	4142.4	4593.5	4573.2	4050.8	3286.9	2620.0
G11.0	1593.8	1835.9	2303.7	2957.8	3763.1	4226.0	4194.4	3651.8	2886.9	2250.5
G12.0	1311.1	1519.5	1968.9	2591.0	3393.6	3847.9	3841.9	3281.8	2541.8	1932.5
G13.0	1073.8	1262.4	1669.6	2245.6	3016.4	3480.0	3453.5	2912.3	2190.7	1632.3
G14.0	846.4	1004.9	1367.7	1908.9	2621.8	3050.8	3035.5	2516.5	1853.1	1346.5
G15.0	687.1	820.8	1135.1	1611.9	2268.0	2683.7	2656.1	2159.2	1554.7	1116.7
G16.0	554.1	650.0	929.7	1339.4	1935.5	2276.6	2248.0	1845.0	1279.6	911.5
G17.0	439.9	534.0	753.2	1111.1	1608.1	1946.5	1912.8	1516.9	1059.9	725.7
G18.0	362.0	434.9	617.4	926.1	1358.0	1627.8	1598.3	1264.9	863.5	595.3
G19.0	298.0	356.7	499.4	747.9	1107.1	1327.0	1310.2	1012.7	692.5	476.2
G20.0	249.9	297.1	413.9	617.9	917.7	1102.0	1069.0	824.0	556.4	393.3
G21.0	214.3	251.4	347.1	509.6	763.1	901.1	875.3	661.6	451.7	331.1
G22.0	184.6	213.1	287.2	417.3	619.5	723.5	695.9	524.5	365.9	273.6
G23.0	163.3	187.2	244.8	351.9	519.0	595.8	571.5	431.0	306.9	235.2
G24.0	144.6	164.8	213.3	292.5	426.5	482.2	464.4	348.5	257.0	202.4
G25.0	130.6	147.7	185.4	251.4	360.7	404.6	385.9	295.2	221.8	177.3
G26.0	118.0	133.6	165.6	220.8	308.9	341.3	325.6	254.5	193.8	157.3
G27.0	105.5	120.3	148.3	192.5	262.0	291.9	275.1	219.4	169.4	140.1
G28.0	96.6	110.2	134.3	171.7	227.1	251.3	236.5	190.6	151.1	126.7
G29.0	89.0	101.3	123.1	152.7	199.9	216.5	205.8	169.7	134.3	115.6
G30.0	81.4	94.4	111.5	137.7	175.4	190.7	182.0	150.7	122.5	104.9
G31.0	75.3	87.2	103.3	125.0	156.3	168.1	161.3	136.4	111.5	98.2
G32.0	69.5	81.2	95.3	114.2	139.6	147.9	143.9	124.0	101.8	89.7
G33.0	64.5	75.7	88.2	105.2	127.4	133.1	129.6	113.3	93.8	83.7
G34.0	59.7	70.8	82.0	97.8	115.9	120.0	116.7	104.3	86.9	77.6
G35.0	56.1	66.0	76.4	90.7	106.3	107.2	105.3	95.7	80.3	73.1
G36.0	52.4	62.2	72.0	85.1	98.8	97.2	96.0	89.0	75.3	68.2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

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	48.9	57.4	67.9	79.4	91.5	88.5	87.3	82.3	70.0	63.8
G38.0	46.3	54.5	63.5	74.5	85.3	80.9	80.6	76.4	65.3	59.5
G39.0	43.3	51.3	59.4	69.2	79.5	74.5	73.9	70.8	61.9	56.4
G40.0	41.4	48.3	55.5	64.8	73.9	68.2	68.2	67.0	57.7	53.0
G41.0	39.0	44.6	52.4	60.4	68.3	63.2	63.5	62.3	54.8	49.5
G42.0	37.1	42.3	49.6	57.0	63.6	58.9	58.9	59.2	51.7	46.5
G43.0	34.9	39.9	47.0	53.0	59.2	54.2	54.5	54.6	48.6	44.2
G44.0	32.7	37.0	44.3	49.5	55.7	50.7	50.8	51.4	46.0	42.1
G45.0	32.1	35.3	42.4	47.0	52.0	47.1	47.6	48.3	43.7	39.6
G46.0	30.3	33.3	40.2	44.2	48.6	44.5	44.8	45.7	41.4	37.7
G47.0	29.3	31.5	37.8	41.8	45.8	42.3	42.0	43.2	39.3	36.4
G48.0	27.8	30.2	35.6	39.5	42.7	39.9	39.0	40.4	37.4	34.2
G49.0	26.7	29.0	34.2	38.0	40.7	37.7	37.6	37.6	35.5	32.7
G50.0	25.8	28.0	33.0	35.9	38.2	36.4	35.8	36.8	33.7	31.5
G51.0	25.3	27.0	31.7	34.3	36.5	33.9	33.7	34.2	32.7	30.5
G52.0	24.7	26.1	30.6	32.8	34.9	33.0	32.4	32.4	31.5	28.9
G53.0	23.7	25.5	29.8	31.8	33.1	31.4	30.6	31.5	30.2	28.0
G54.0	23.3	24.7	29.2	30.0	31.5	30.2	29.6	30.0	29.0	27.0
G55.0	22.7	24.3	28.1	29.9	30.9	29.3	28.7	28.7	28.1	26.7
G56.0	22.1	23.3	27.5	28.9	29.9	28.4	28.0	27.5	28.0	25.9
G57.0	20.8	22.5	26.5	28.1	28.7	27.5	26.7	27.1	26.4	25.2
G58.0	20.6	21.8	25.2	27.3	28.1	26.8	26.4	26.2	26.1	24.1
G59.0	19.0	20.8	24.6	26.1	27.7	26.4	25.6	25.5	25.3	23.3
G60.0	18.0	20.2	24.0	25.0	26.5	25.3	24.7	25.2	24.5	22.2
G61.0	18.1	18.7	23.0	24.3	25.5	24.9	24.1	23.9	23.6	21.6
G62.0	17.2	18.4	22.0	23.3	24.1	23.7	23.3	23.1	22.7	21.2
G63.0	16.5	16.9	20.9	22.5	23.6	22.8	22.4	22.2	22.0	19.7
G64.0	15.5	16.0	20.0	21.4	22.5	22.1	21.6	21.1	20.9	19.1
G65.0	14.4	15.0	18.9	20.3	21.4	21.4	20.8	19.9	20.2	18.3
G66.0	13.4	14.4	18.4	18.7	19.9	19.7	19.9	19.4	19.1	17.4
G67.0	12.2	13.7	16.6	18.1	19.6	19.3	18.6	18.4	18.1	16.9
G68.0	11.8	12.5	15.8	17.2	18.3	18.1	17.7	18.1	17.8	15.3
G69.0	10.8	11.8	15.0	16.5	17.1	17.1	16.8	16.9	16.5	14.9
G70.0	10.0	11.2	14.1	15.5	16.2	16.4	16.2	15.9	15.8	14.0
G71.0	9.7	10.2	13.3	14.7	15.2	15.0	14.9	14.9	14.6	12.8
G72.0	9.1	9.4	12.1	13.4	14.0	14.3	14.0	13.8	13.7	12.4
G73.0	8.4	8.5	11.5	12.4	13.3	13.3	13.1	13.0	13.3	11.5

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

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

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	5202.8	5222.4	5233.9						
G1.0	5033.0	5000.6	5029.5						
G2.0	4823.5	4756.7	4765.4						
G3.0	4548.1	4428.7	4468.0						
G4.0	4256.4	4117.5	4130.3						
G5.0	3949.0	3754.6	3799.8						
G6.0	3571.8	3367.5	3394.8						
G7.0	3208.1	2989.6	3033.2						
G8.0	2829.6	2634.5	2659.5						
G9.0	2473.6	2249.2	2269.1						
G10.0	2139.6	1908.4	1943.1						
G11.0	1789.8	1582.4	1593.8						
G12.0	1507.6	1306.3	1311.1						
G13.0	1247.9	1075.5	1073.8						
G14.0	1001.5	858.7	846.4						
G15.0	818.2	689.9	687.1						
G16.0	654.7	560.3	554.1						
G17.0	534.3	445.1	439.9						
G18.0	439.4	361.4	362.0						
G19.0	359.2	297.4	298.0						
G20.0	300.2	251.7	249.9						
G21.0	256.0	216.4	214.3						
G22.0	218.6	187.6	184.6						
G23.0	190.7	164.7	163.3						
G24.0	166.0	146.1	144.6						
G25.0	148.9	131.5	130.6						
G26.0	134.3	118.7	118.0						
G27.0	121.4	107.5	105.5						
G28.0	110.8	97.2	96.6						
G29.0	100.6	89.4	89.0						
G30.0	92.8	81.0	81.4						
G31.0	86.0	75.0	75.3						
G32.0	79.2	68.5	69.5						
G33.0	73.9	64.4	64.5						
G34.0	68.5	59.7	59.7						
G35.0	64.7	56.3	56.1						
G36.0	60.2	52.0	52.4						

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

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

Candlepower Table (Continue 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	56.4	49.6	48.9						
G38.0	53.0	46.5	46.3						
G39.0	49.5	43.9	43.3						
G40.0	46.7	41.4	41.4						
G41.0	44.2	38.9	39.0						
G42.0	41.5	36.8	37.1						
G43.0	39.0	34.0	34.9						
G44.0	37.4	32.8	32.7						
G45.0	35.8	32.0	32.1						
G46.0	33.6	30.0	30.3						
G47.0	32.5	28.7	29.3						
G48.0	30.5	27.8	27.8						
G49.0	29.5	26.7	26.7						
G50.0	28.6	25.5	25.8						
G51.0	28.0	25.2	25.3						
G52.0	26.8	24.7	24.7						
G53.0	25.6	23.9	23.7						
G54.0	25.2	23.6	23.3						
G55.0	24.9	22.4	22.7						
G56.0	24.0	22.2	22.1						
G57.0	23.1	20.8	20.8						
G58.0	22.5	20.5	20.6						
G59.0	21.8	19.3	19.0						
G60.0	21.2	18.4	18.0						
G61.0	20.0	17.7	18.1						
G62.0	19.3	17.1	17.2						
G63.0	18.4	16.4	16.5						
G64.0	17.5	15.5	15.5						
G65.0	16.5	14.3	14.4						
G66.0	15.6	13.8	13.4						
G67.0	15.0	12.4	12.2						
G68.0	14.4	11.9	11.8						
G69.0	13.4	11.3	10.8						
G70.0	12.5	10.6	10.0						
G71.0	11.9	9.9	9.7						
G72.0	10.6	9.1	9.1						
G73.0	10.5	8.8	8.4						

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

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

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G74.0	9.6	7.8	7.8						
G75.0	8.8	6.8	6.8						
G76.0	8.7	6.3	6.3						
G77.0	7.9	6.2	6.2						
G78.0	7.5	5.9	5.0						
G79.0	7.2	5.7	5.2						
G80.0	6.8	5.0	4.9						
G81.0	6.2	4.7	4.3						
G82.0	6.2	4.3	4.0						
G83.0	5.4	3.8	3.2						
G84.0	4.9	3.5	3.1						
G85.0	4.1	3.2	1.6						
G86.0	4.6	3.8	3.2						
G87.0	4.3	3.5	2.1						
G88.0	4.9	4.3	3.0						
G89.0	3.5	3.5	3.1						
G90.0	4.7	3.2	3.7						

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

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