

Report No.:

Test Time: 2020-09-29 08:19

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-3D6CC-BZ-5K

Voltage: 120.3 V

Current: 0.060 A

Power: 7.07 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 315.7 lm

Measurement Flux: 315.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.8, 159.5, 159.4, 159.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.8, 106.8, 106.8, 106.7

Luminaire Efficacy Rating (LER): 44.70

Central Intensity: 118.75 cd

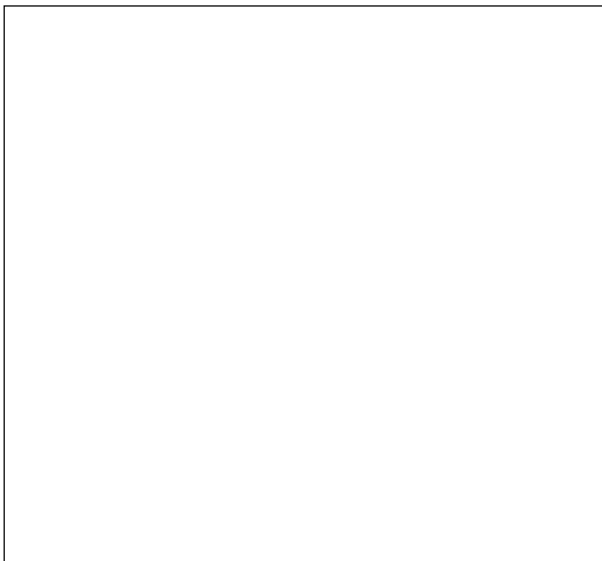
Max. Intensity: 119.63 cd

Pos of Max. Intensity: H180 V5

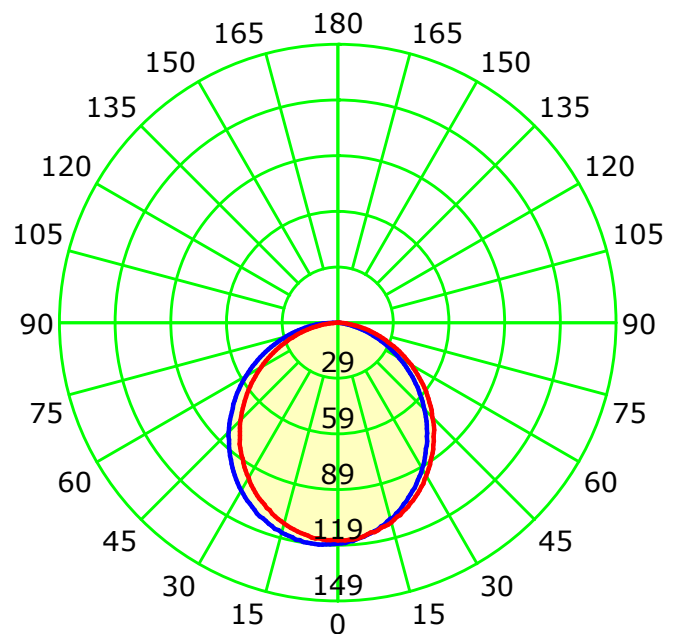
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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

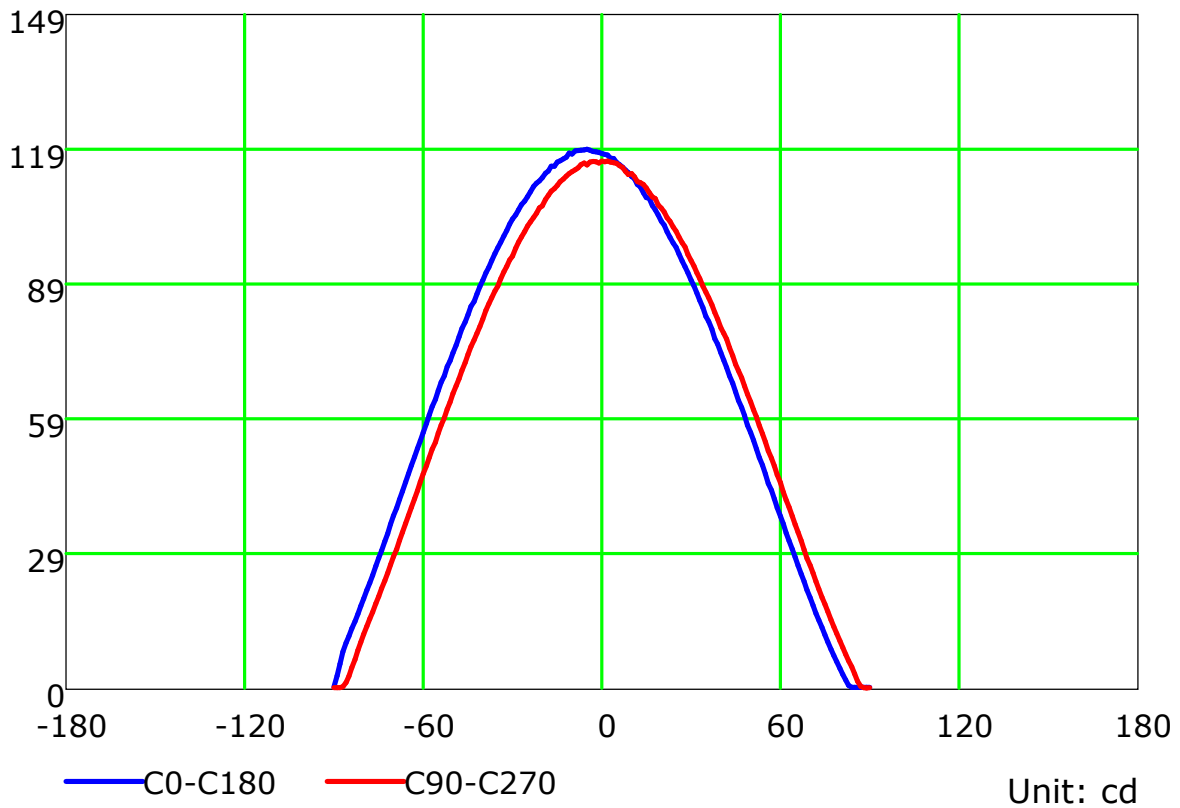
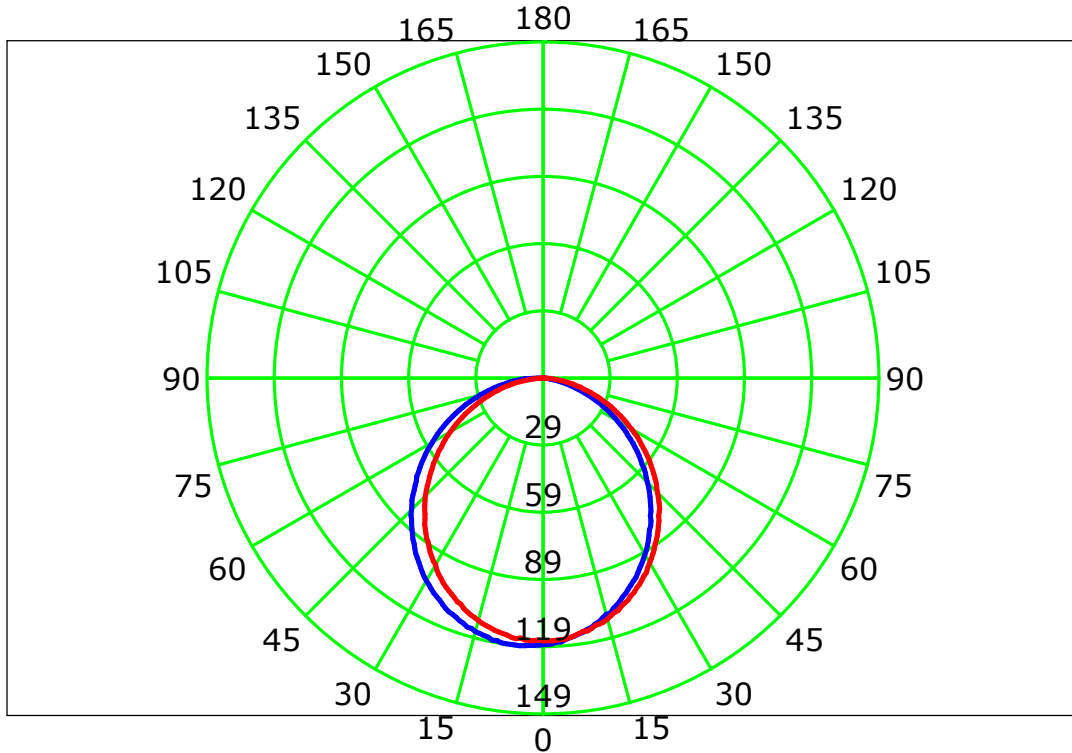
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

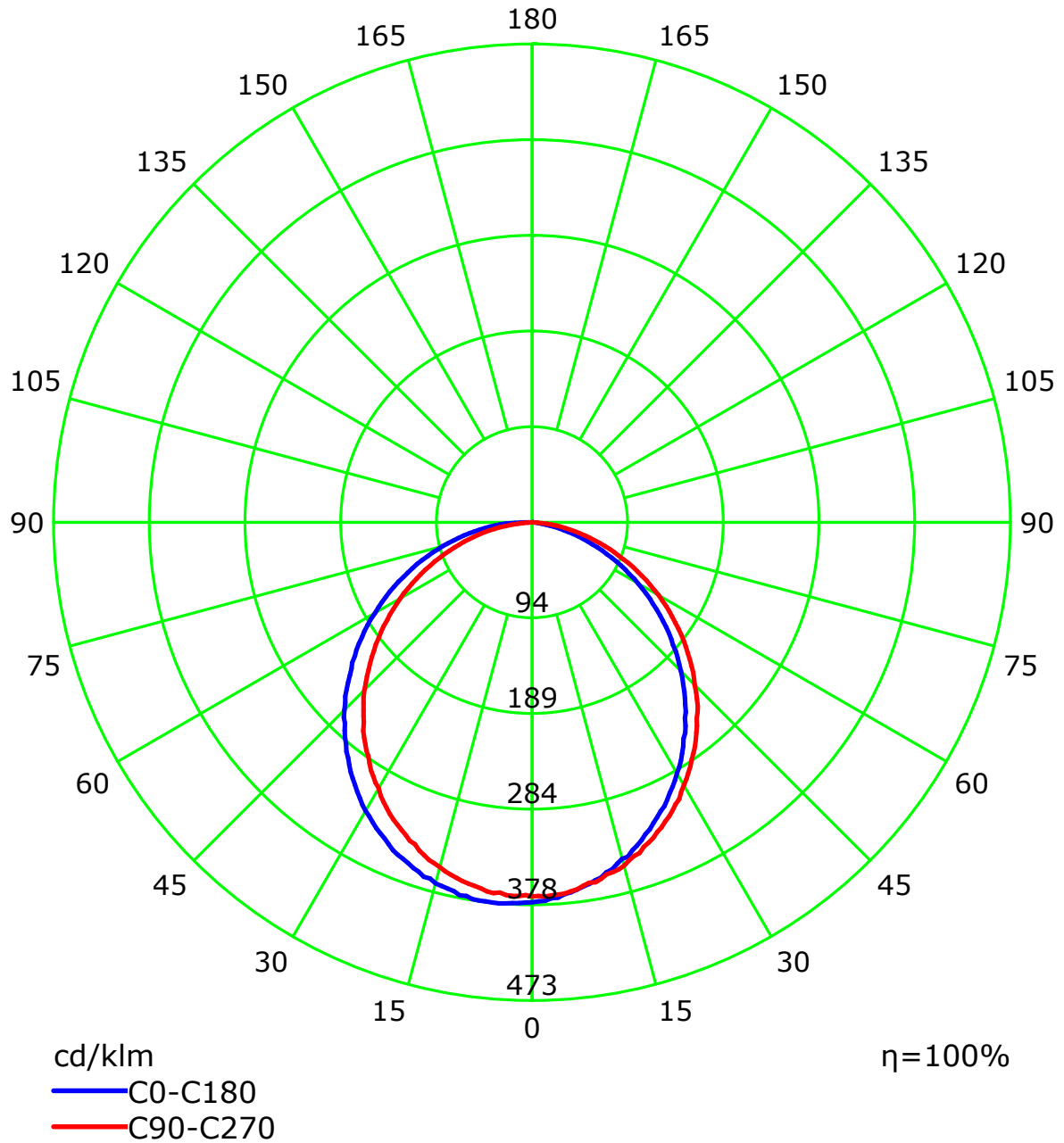


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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)



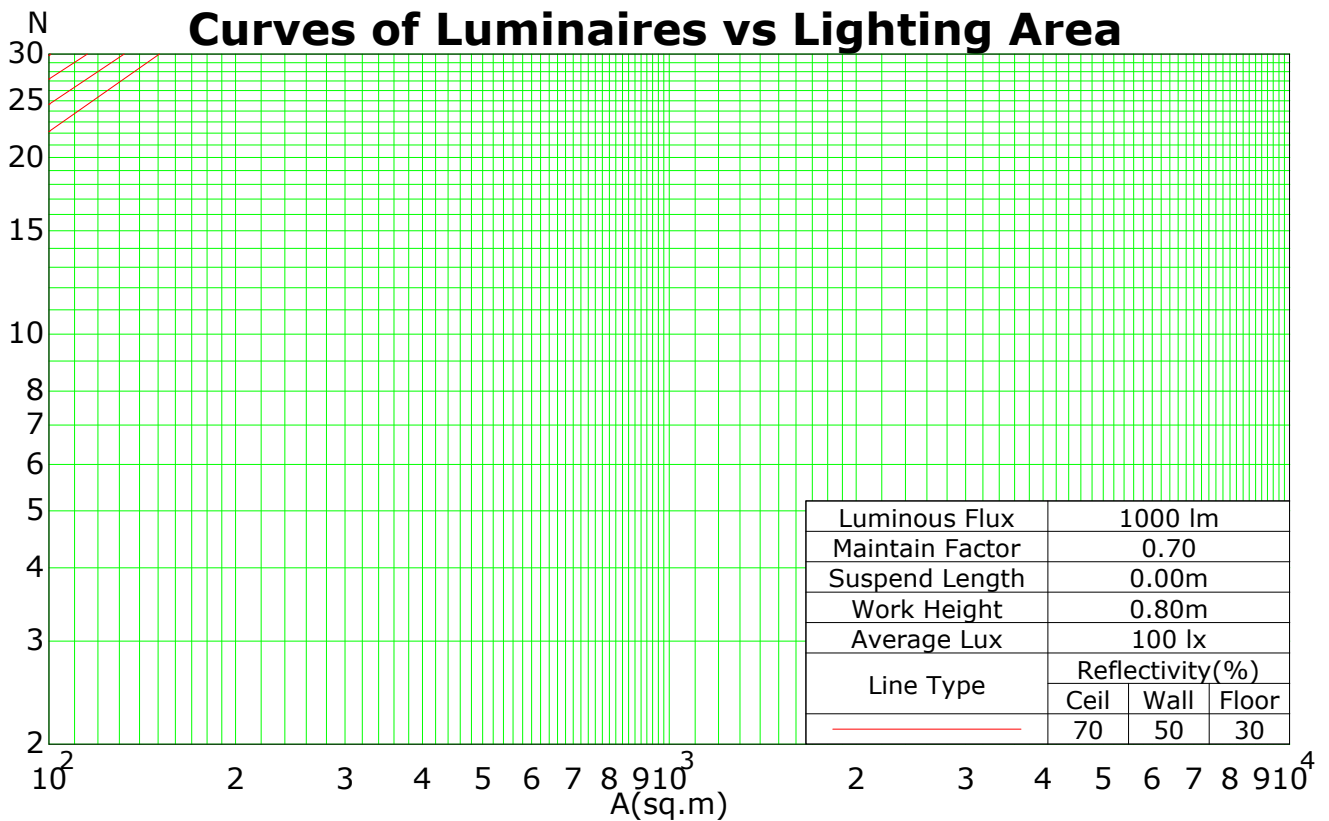
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

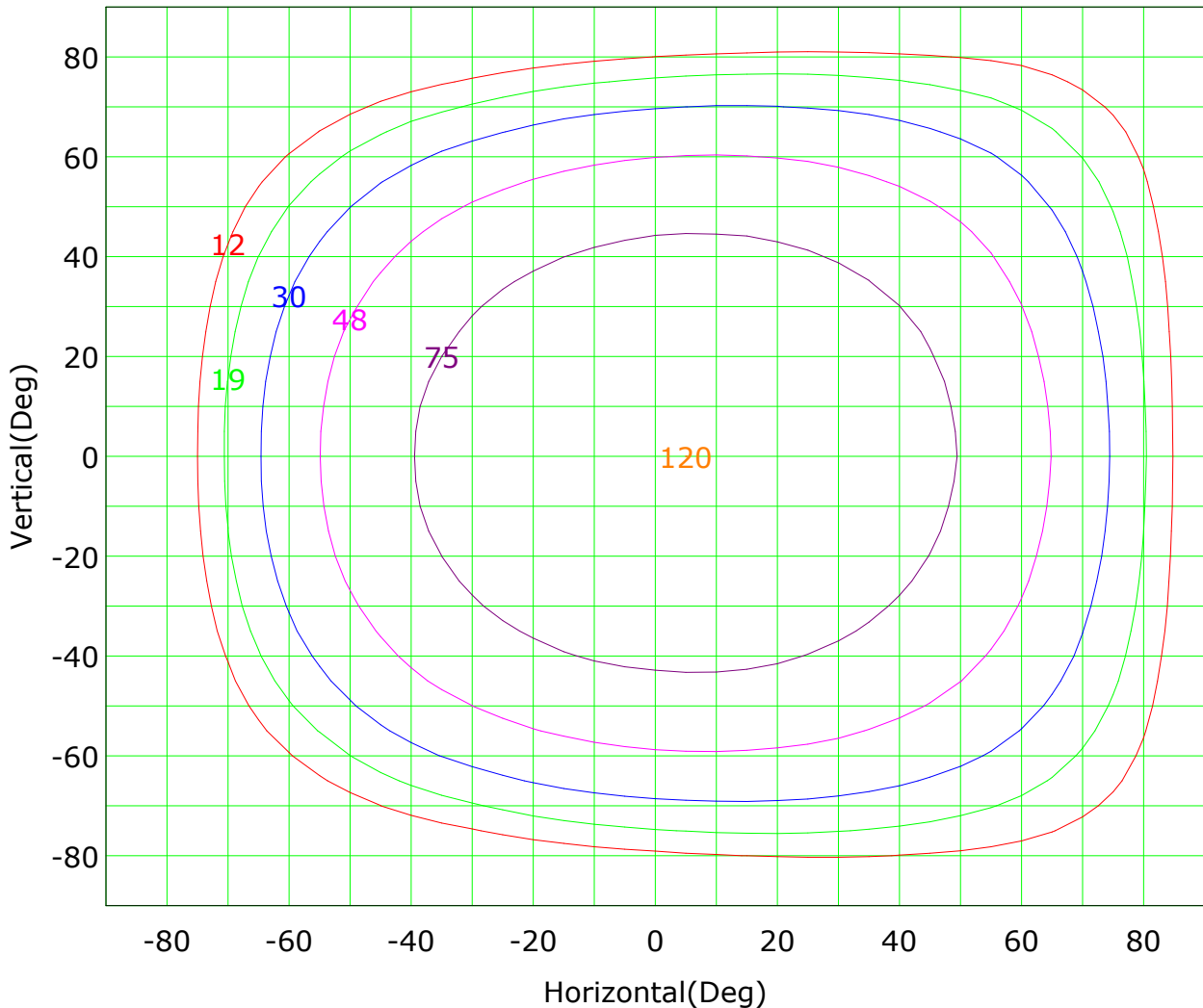
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.22
 Spacing Criteria (Diagonal): 1.32



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%): 120 cd

— (10%):	12 cd	— (16%):	19 cd
— (25%):	30 cd	— (40%):	48 cd
— (63%):	75 cd	— (100%):	120 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

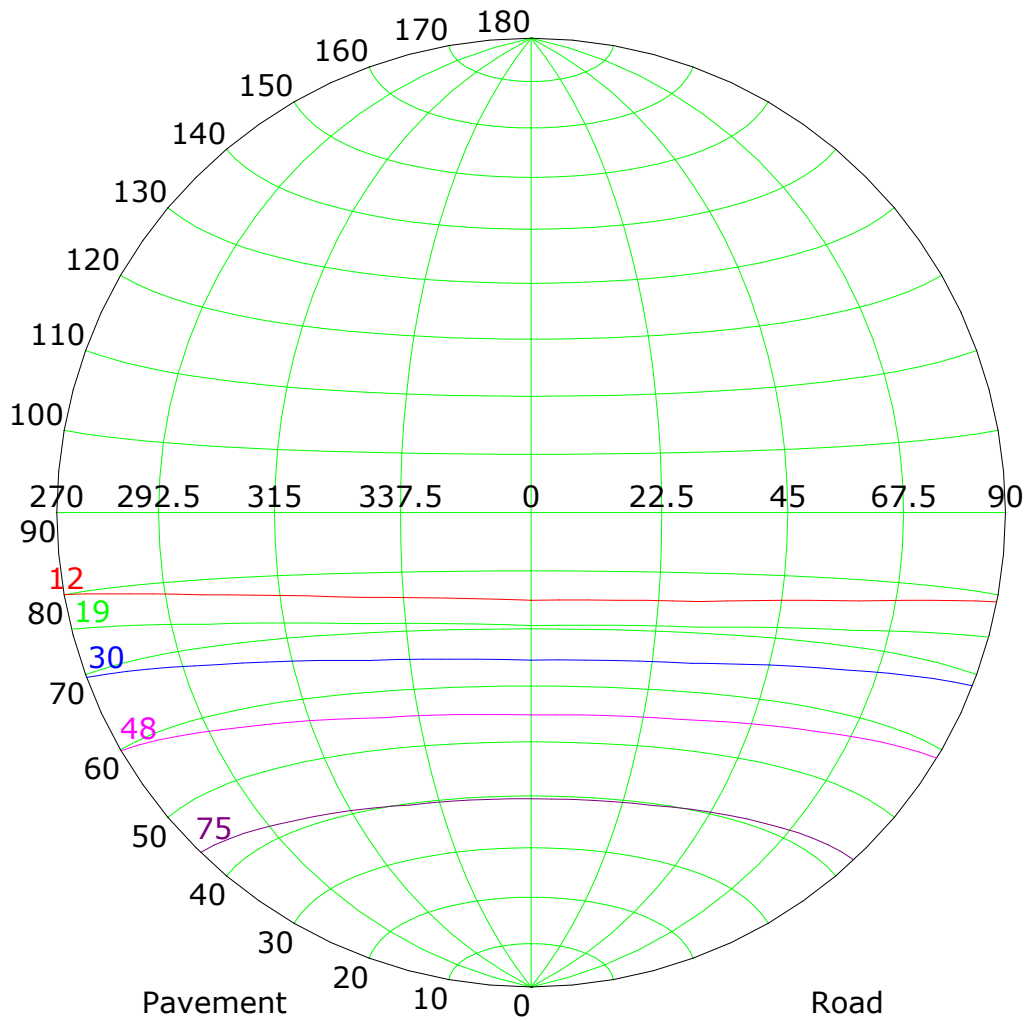
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 120 cd

— (10%):	12 cd	— (16%):	19 cd
— (25%):	30 cd	— (40%):	48 cd
— (63%):	75 cd	— (100%):	120 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

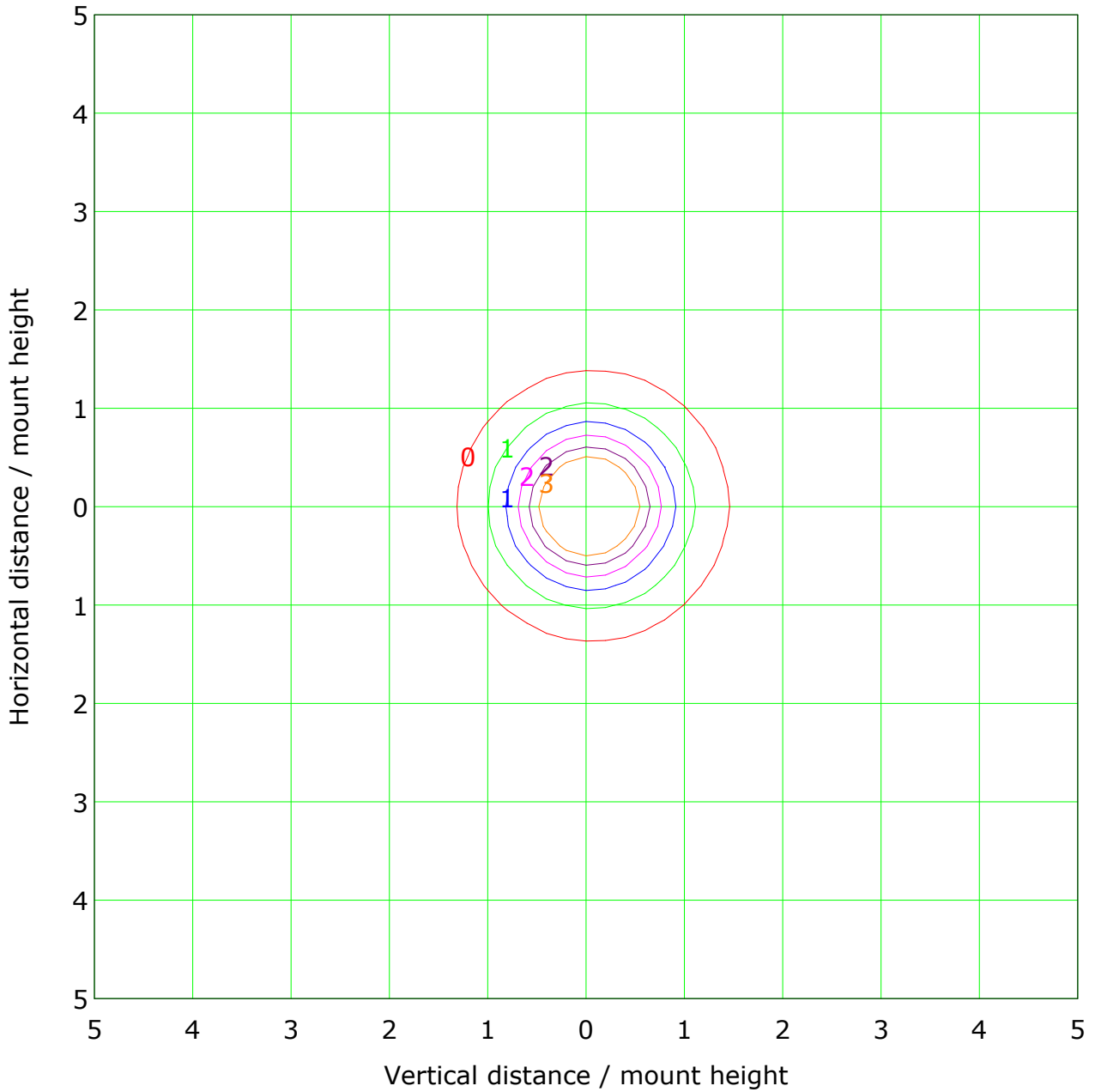
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 4.8 lx	
<ul style="list-style-type: none"> — (10%): 0.5 lx — (30%): 1.4 lx — (50%): 2.4 lx — (100%): 4.8 lx 	<ul style="list-style-type: none"> — (20%): 1.0 lx — (40%): 1.9 lx — (60%): 2.9 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

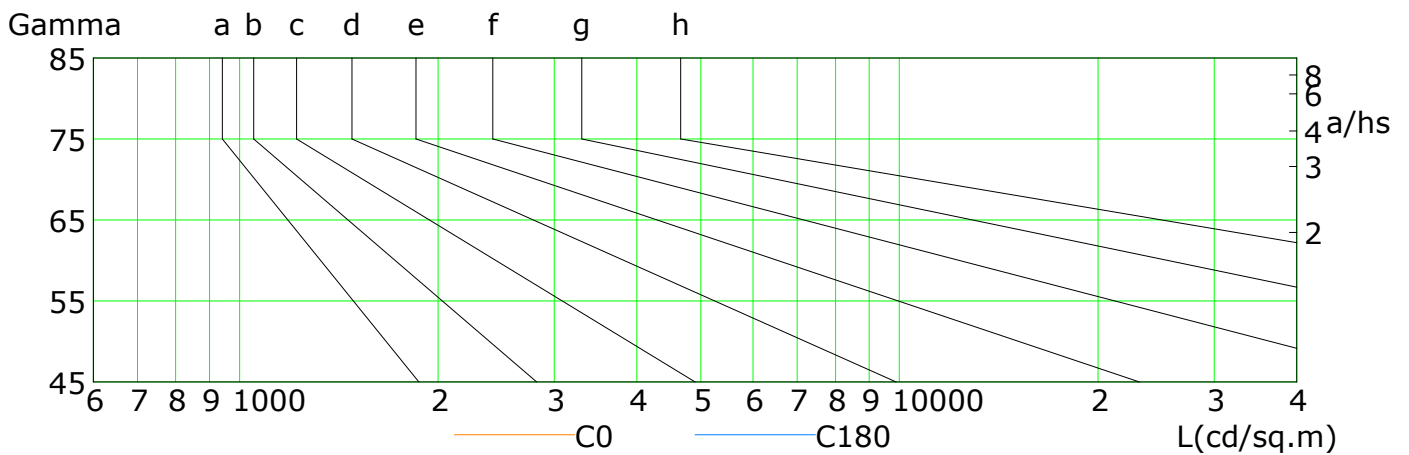
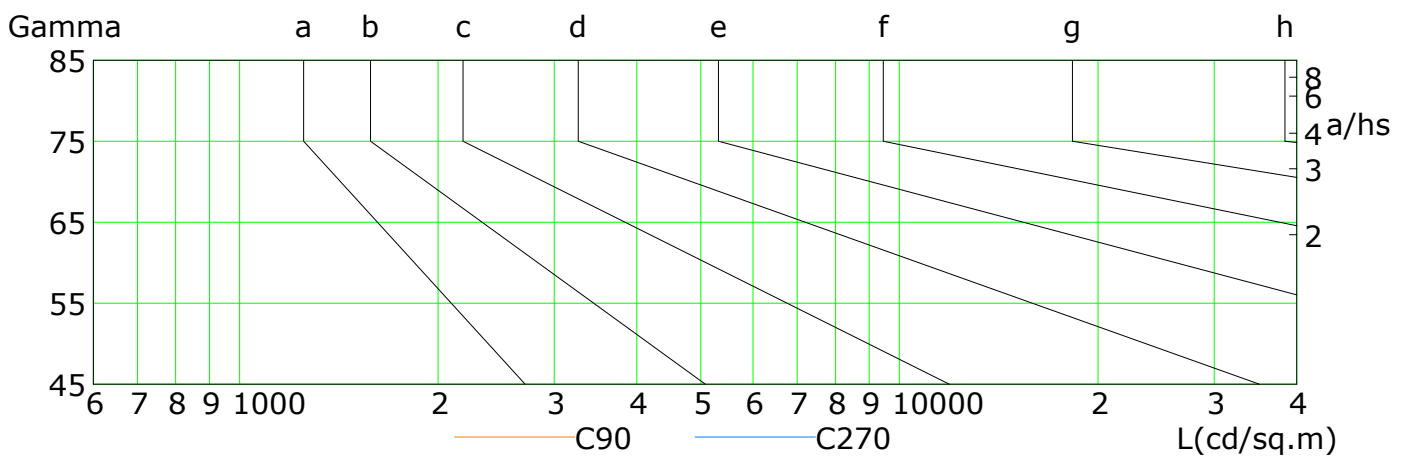
Humidity:

Inspector:

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	66	57	48	38	29	20	12	4	0
C90	72	64	55	46	36	27	19	11	3
C180	83	74	66	57	48	38	29	20	12
C270	74	65	57	48	38	29	20	12	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

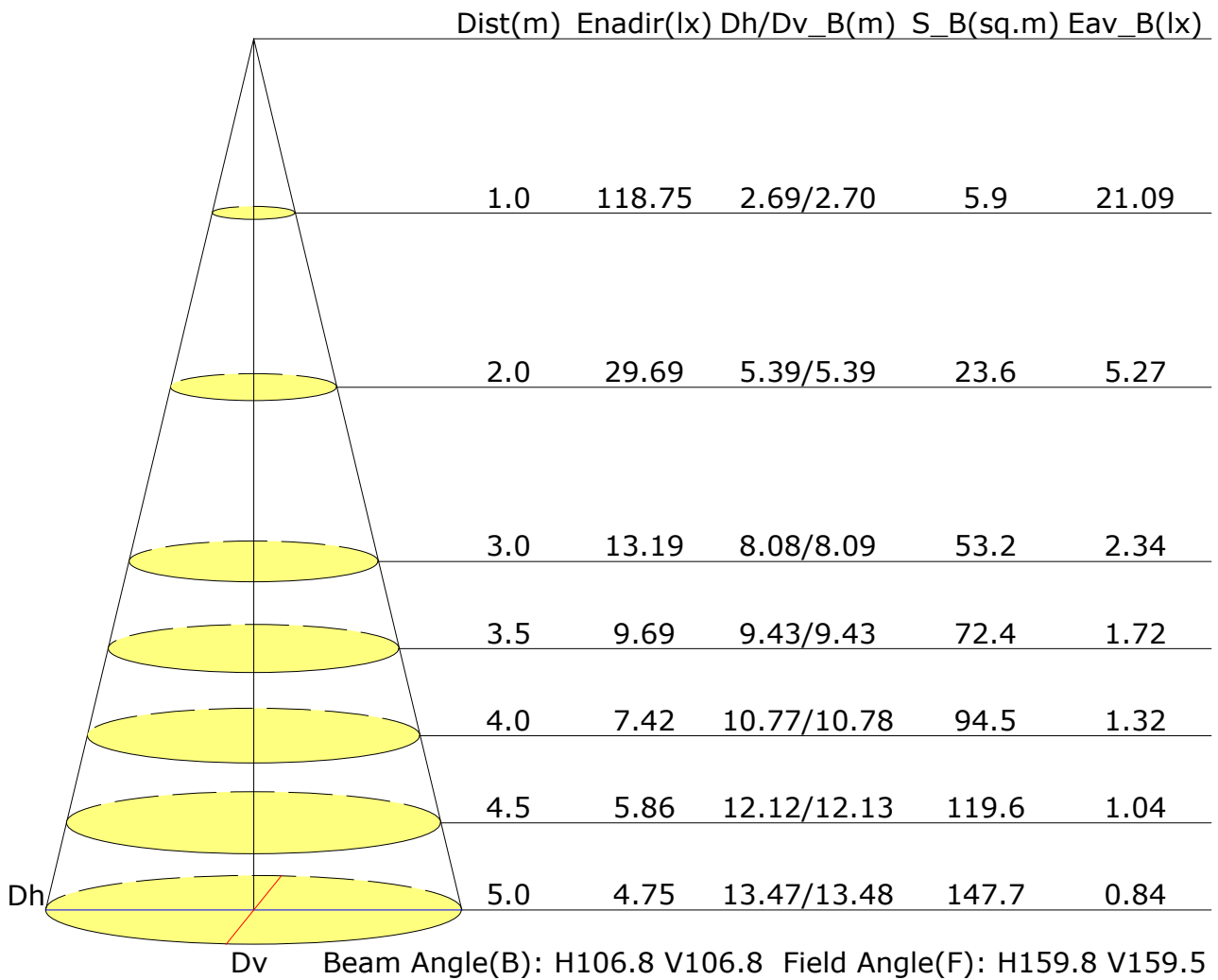
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

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

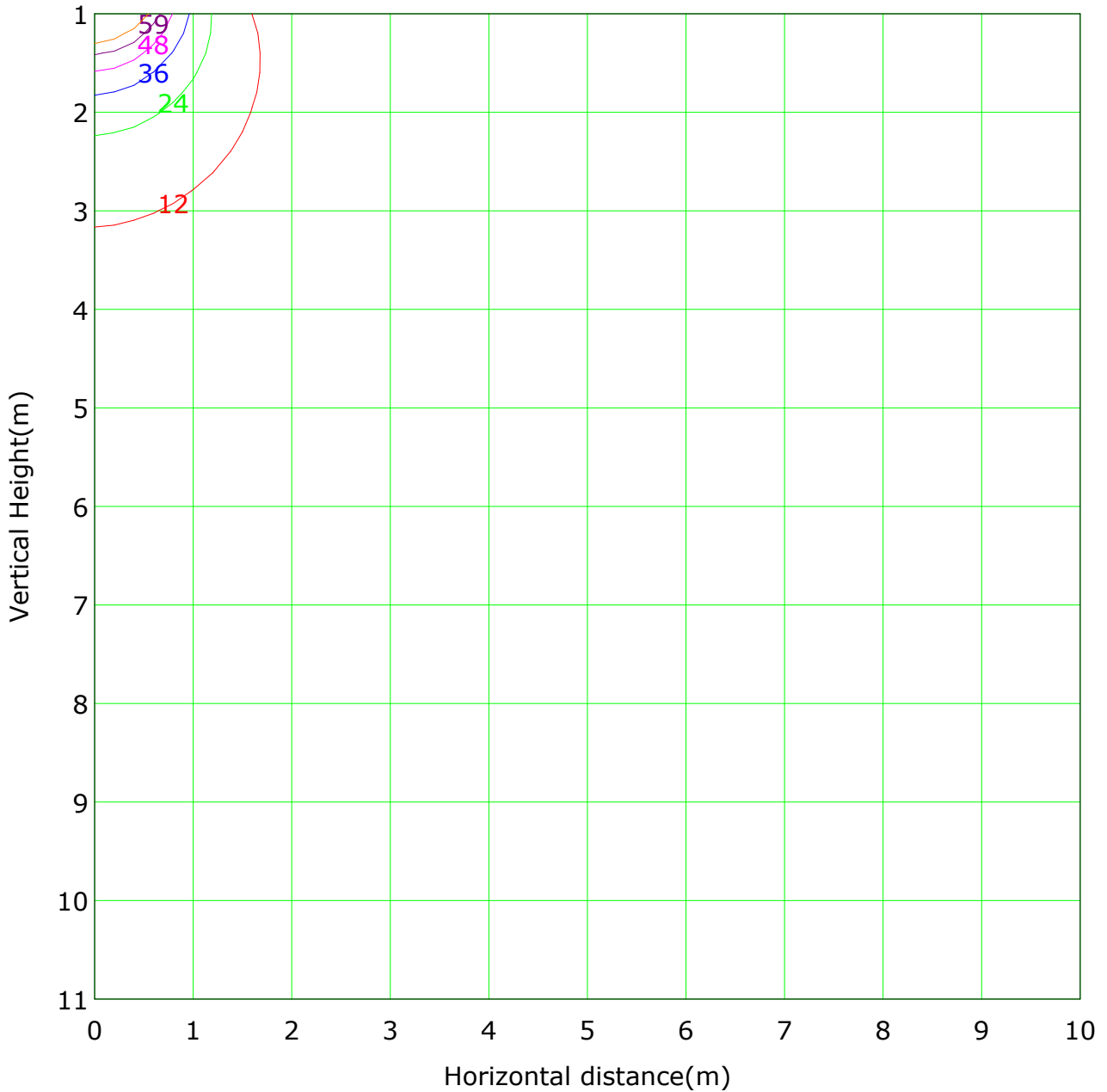
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 118.8 lx
— (10%): 11.9 lx	— (20%): 23.8 lx	
— (30%): 35.6 lx	— (40%): 47.5 lx	
— (50%): 59.4 lx	— (60%): 71.3 lx	
— (100%): 118.8 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	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1		
-80	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.4	4.7		
-70	0.0	0.1	0.3	0.4	0.7	0.9	1.0	1.1	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	10.0	9.8		
-60	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.7	1.7	1.5	1.3	1.0	0.6	0.4	0.2	0.0	0.0	14.7	14.6		
-50	0.0	0.2	0.4	0.8	1.2	1.6	1.9	2.2	2.3	2.2	2.0	1.7	1.3	0.9	0.5	0.2	0.0	0.0	19.2	19.2		
-40	0.0	0.2	0.5	0.9	1.4	1.9	2.3	2.6	2.7	2.7	2.4	2.0	1.6	1.1	0.6	0.3	0.1	0.0	23.2	23.2		
-30	0.0	0.2	0.6	1.0	1.6	2.1	2.6	3.0	3.1	3.0	2.8	2.3	1.8	1.2	0.7	0.3	0.1	0.0	26.5	26.5		
-20	0.0	0.2	0.6	1.1	1.7	2.3	2.9	3.2	3.4	3.3	3.0	2.5	2.0	1.4	0.8	0.4	0.1	0.0	28.9	28.8		
-10	0.0	0.2	0.6	1.1	1.8	2.4	3.0	3.4	3.6	3.5	3.2	2.7	2.1	1.4	0.8	0.4	0.1	0.0	30.2	30.2		
0	0.0	0.2	0.6	1.1	1.8	2.4	3.0	3.4	3.5	3.5	3.2	2.7	2.1	1.4	0.8	0.4	0.1	0.0	30.1	30.1		
10	0.0	0.2	0.6	1.1	1.7	2.3	2.8	3.2	3.4	3.3	3.0	2.5	2.0	1.3	0.8	0.4	0.1	0.0	28.6	28.6		
20	0.0	0.2	0.5	1.0	1.5	2.1	2.6	2.9	3.1	3.0	2.7	2.3	1.8	1.2	0.7	0.3	0.1	0.0	26.2	26.1		
30	0.0	0.2	0.5	0.9	1.4	1.8	2.2	2.5	2.7	2.6	2.4	2.0	1.5	1.1	0.6	0.3	0.1	0.0	22.8	22.7		
40	0.0	0.2	0.4	0.7	1.1	1.5	1.9	2.1	2.2	2.1	1.9	1.6	1.2	0.8	0.5	0.2	0.0	0.0	18.7	18.7		
50	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.6	1.5	1.2	0.9	0.6	0.3	0.1	0.0	0.0	14.2	14.1		
60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	9.5	9.2		
70	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	4.9	4.1		
80	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0		
90	Flux(T)	0.5	2.7	6.9	12.7	19.2	25.8	31.5	35.5	37.1	36.1	32.6	27.3	20.8	14.2	8.2	3.6	0.9	0.0	316		
	Flux(E)	0.3	2.5	6.7	12.4	19.0	25.6	31.3	35.2	36.8	35.8	32.4	27.0	20.5	13.9	7.9	3.2	0.4	0.0		311	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

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

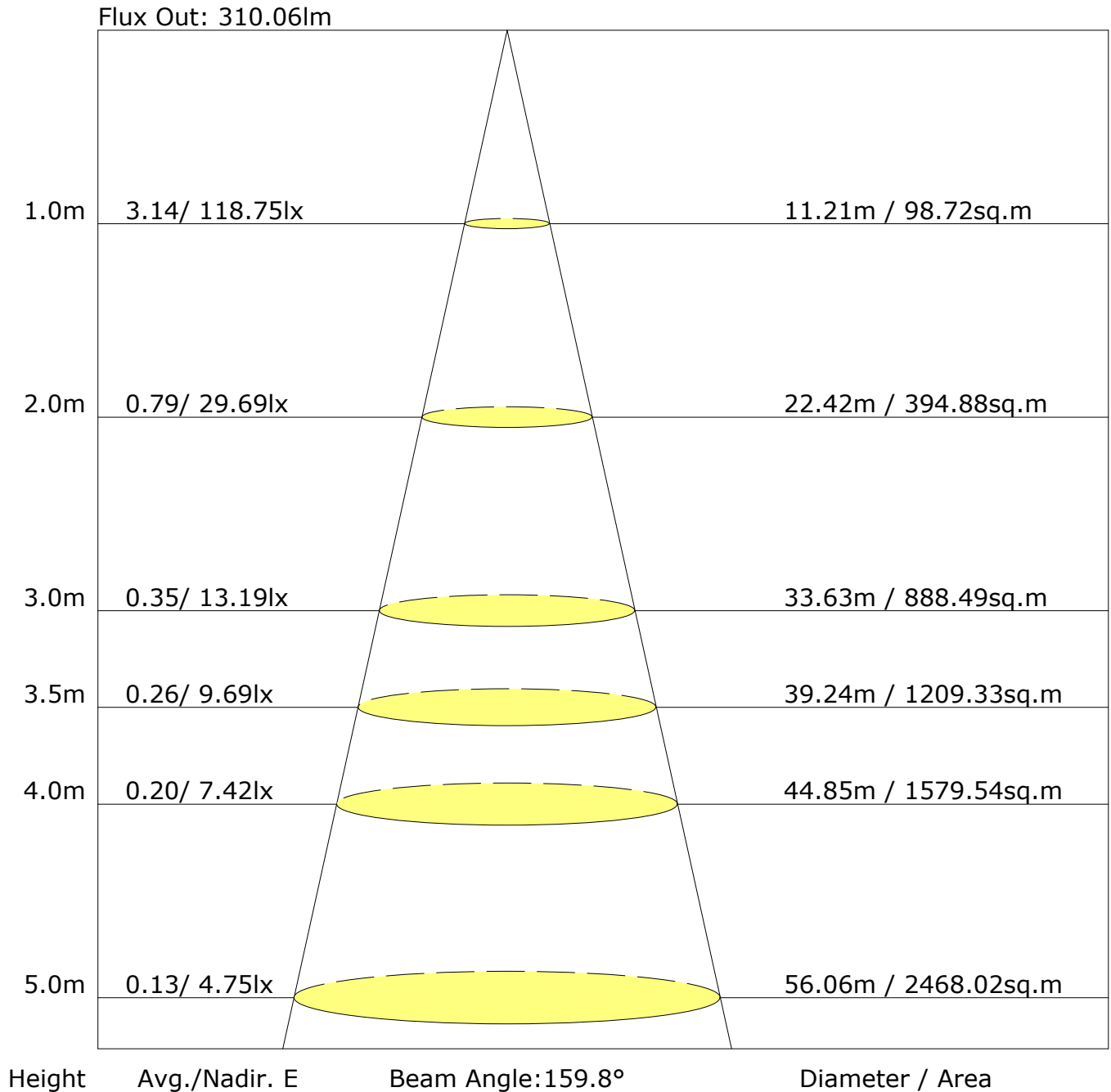
Test Lab:

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

Calculate in accordance with CIE Pub.117. The table is revised with 316lm ($8\log(F/F_0) = -4.0$).

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

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

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

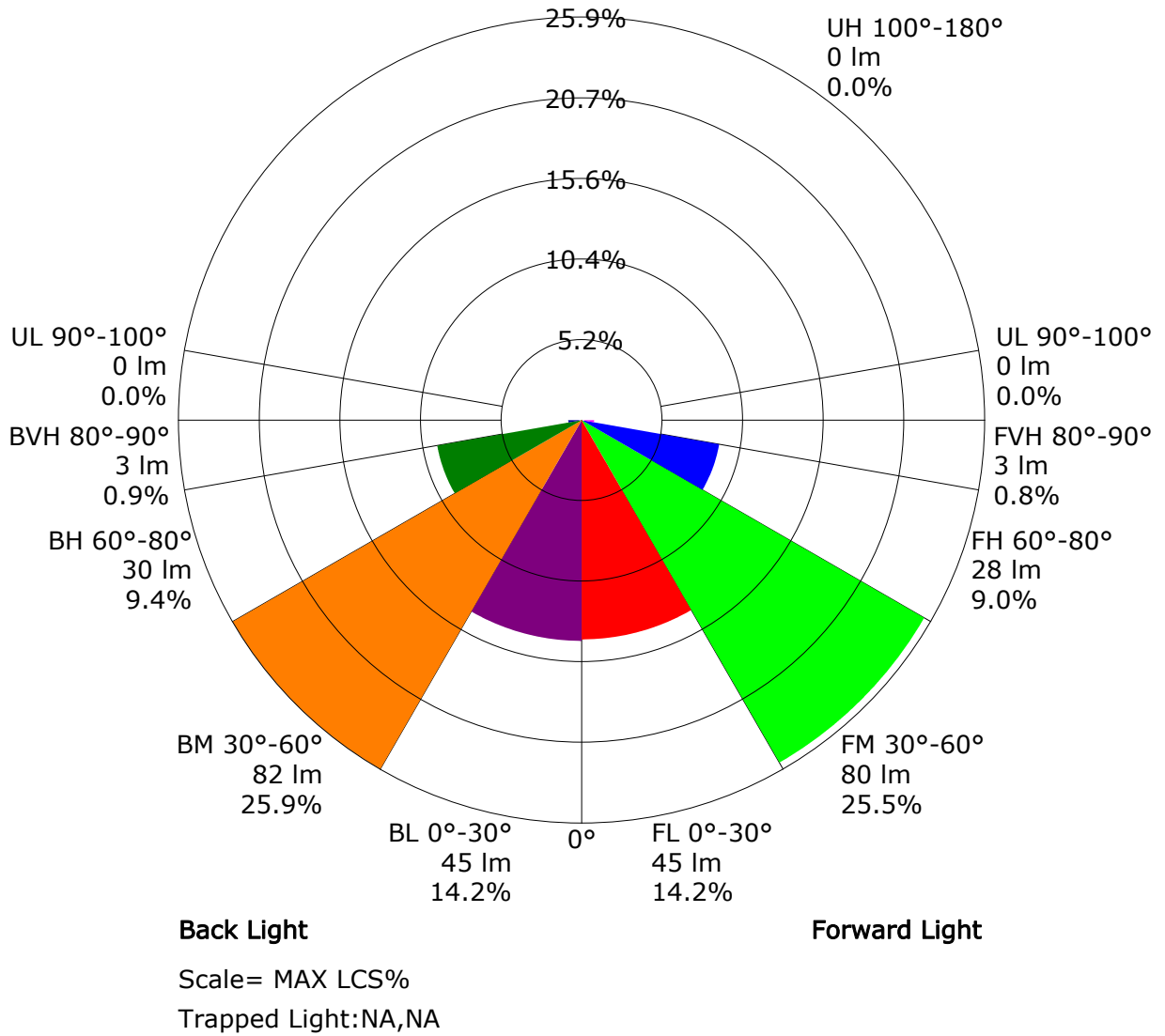
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	156	49.5
	FL (0°-30°)	45	14.2
	FM (30°-60°)	80	25.5
	FH (60°-80°)	28	9.0
	FVH (80°-90°)	3	0.8
	BACK LIGHT	159	50.5
	BL (0°-30°)	45	14.2
	BM (30°-60°)	82	25.9
	BH (60°-80°)	30	9.4
	BVH (80°-90°)	3	0.9
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 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



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	0.57	0.68	0.75	0.80	0.88	0.93	0.96	1.01	1.04
	0.30		0.50	0.60	0.68	0.73	0.82	0.87	0.91	0.97	1.00
	0.20		0.44	0.54	0.62	0.68	0.77	0.83	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99
	0.30		0.49	0.59	0.66	0.72	0.79	0.85	0.88	0.93	0.97
	0.20		0.44	0.54	0.61	0.67	0.75	0.81	0.85	0.90	0.94
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.82	0.86	0.89	0.93	0.96
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.86	0.90	0.93
	0.20		0.43	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.75	0.79	0.83	0.86
<p>Rating:7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

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

Utilisation Factor Table(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	0.99	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.37	0.32	0.25	0.20	
	0.20		0.71	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.41	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.30	0.50	0.20	0.93	0.75	0.64	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.79	0.66	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
<p>Rating:7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

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

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:7W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

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

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	117.3	0.1	0.1	0.04	0.04
1.0-2.0	117.3	0.3	0.4	0.11	0.14
2.0-3.0	117.2	0.6	1.0	0.18	0.32
3.0-4.0	117.1	0.8	1.8	0.25	0.57
4.0-5.0	116.9	1.0	2.8	0.32	0.89
5.0-6.0	116.7	1.2	4.0	0.39	1.28
6.0-7.0	116.3	1.4	5.5	0.46	1.73
7.0-8.0	115.9	1.7	7.1	0.53	2.26
8.0-9.0	115.4	1.9	9.0	0.59	2.85
9.0-10.0	115.0	2.1	11.1	0.66	3.51
10.0-11.0	114.5	2.3	13.4	0.73	4.24
11.0-12.0	113.9	2.5	15.9	0.79	5.02
12.0-13.0	113.4	2.7	18.6	0.85	5.88
13.0-14.0	112.7	2.9	21.4	0.91	6.79
14.0-15.0	112.0	3.1	24.5	0.97	7.77
15.0-16.0	111.3	3.3	27.8	1.03	8.80
16.0-17.0	110.5	3.4	31.2	1.09	9.89
17.0-18.0	109.7	3.6	34.8	1.15	11.04
18.0-19.0	108.8	3.8	38.6	1.20	12.24
19.0-20.0	107.9	3.9	42.6	1.25	13.49
20.0-21.0	106.9	4.1	46.7	1.30	14.79
21.0-22.0	105.9	4.3	50.9	1.35	16.14
22.0-23.0	104.9	4.4	55.3	1.39	17.53
23.0-24.0	103.8	4.5	59.9	1.44	18.97
24.0-25.0	102.7	4.7	64.6	1.48	20.45
25.0-26.0	101.7	4.8	69.4	1.52	21.97
26.0-27.0	100.4	4.9	74.3	1.56	23.53
27.0-28.0	99.2	5.0	79.3	1.59	25.12
28.0-29.0	98.0	5.1	84.4	1.62	26.74
29.0-30.0	96.7	5.2	89.6	1.65	28.40
30.0-31.0	95.5	5.3	95.0	1.68	30.08
31.0-32.0	94.1	5.4	100.3	1.71	31.79
32.0-33.0	92.7	5.5	105.8	1.73	33.52
33.0-34.0	91.3	5.5	111.3	1.75	35.27
34.0-35.0	89.8	5.6	116.9	1.77	37.04
35.0-36.0	88.4	5.6	122.5	1.78	38.82

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	87.0	5.7	128.2	1.80	40.61
37.0-38.0	85.4	5.7	133.9	1.81	42.42
38.0-39.0	83.8	5.7	139.6	1.81	44.23
39.0-40.0	82.3	5.7	145.4	1.82	46.05
40.0-41.0	80.7	5.7	151.1	1.82	47.87
41.0-42.0	79.1	5.7	156.9	1.82	49.69
42.0-43.0	77.5	5.7	162.6	1.82	51.51
43.0-44.0	75.9	5.7	168.3	1.82	53.33
44.0-45.0	74.3	5.7	174.0	1.81	55.13
45.0-46.0	72.6	5.7	179.7	1.80	56.93
46.0-47.0	70.9	5.6	185.4	1.79	58.72
47.0-48.0	69.2	5.6	190.9	1.77	60.49
48.0-49.0	67.3	5.5	196.5	1.75	62.24
49.0-50.0	65.7	5.5	202.0	1.73	63.98
50.0-51.0	63.9	5.4	207.4	1.71	65.69
51.0-52.0	62.2	5.3	212.7	1.69	67.38
52.0-53.0	60.4	5.3	218.0	1.66	69.05
53.0-54.0	58.6	5.2	223.1	1.64	70.68
54.0-55.0	56.9	5.1	228.2	1.61	72.29
55.0-56.0	55.0	5.0	233.2	1.58	73.86
56.0-57.0	53.2	4.9	238.0	1.54	75.41
57.0-58.0	51.5	4.8	242.8	1.51	76.91
58.0-59.0	49.6	4.6	247.4	1.47	78.38
59.0-60.0	47.8	4.5	251.9	1.43	79.81
60.0-61.0	45.9	4.4	256.3	1.39	81.20
61.0-62.0	44.0	4.2	260.6	1.34	82.54
62.0-63.0	42.2	4.1	264.7	1.30	83.85
63.0-64.0	40.4	4.0	268.6	1.26	85.10
64.0-65.0	38.6	3.8	272.5	1.21	86.31
65.0-66.0	36.8	3.7	276.1	1.16	87.47
66.0-67.0	34.9	3.5	279.6	1.11	88.59
67.0-68.0	33.1	3.4	283.0	1.06	89.65
68.0-69.0	31.2	3.2	286.2	1.01	90.66
69.0-70.0	29.4	3.0	289.2	0.96	91.62
70.0-71.0	27.7	2.9	292.1	0.91	92.52
71.0-72.0	25.9	2.7	294.8	0.85	93.38

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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	24.1	2.5	297.3	0.80	94.18
73.0-74.0	22.4	2.4	299.6	0.75	94.92
74.0-75.0	20.7	2.2	301.8	0.69	95.62
75.0-76.0	19.0	2.0	303.8	0.64	96.25
76.0-77.0	17.3	1.8	305.7	0.58	96.84
77.0-78.0	15.6	1.7	307.4	0.53	97.37
78.0-79.0	14.1	1.5	308.9	0.48	97.85
79.0-80.0	12.5	1.3	310.2	0.43	98.28
80.0-81.0	10.9	1.2	311.4	0.37	98.65
81.0-82.0	9.4	1.0	312.4	0.32	98.97
82.0-83.0	7.8	0.9	313.3	0.27	99.24
83.0-84.0	6.4	0.7	314.0	0.22	99.46
84.0-85.0	5.1	0.6	314.5	0.18	99.64
85.0-86.0	3.9	0.4	315.0	0.14	99.77
86.0-87.0	2.9	0.3	315.3	0.10	99.88
87.0-88.0	1.9	0.2	315.5	0.07	99.94
88.0-89.0	1.1	0.1	315.6	0.04	99.98
89.0-90.0	0.5	0.1	315.7	0.02	100.00

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	118.8	118.0	117.3	117.0	116.9	116.1	118.8	118.0	117.3	117.0
G1.0	118.6	117.6	116.7	116.9	116.8	117.1	118.9	118.3	117.5	116.6
G2.0	118.4	117.4	117.2	117.0	117.0	116.2	119.1	118.3	117.9	116.9
G3.0	117.7	116.8	117.1	116.8	116.6	116.9	119.2	118.4	117.9	117.0
G4.0	117.6	116.9	116.5	116.7	116.5	116.6	119.4	118.4	117.6	116.8
G5.0	116.8	116.2	116.1	116.5	116.8	117.2	119.6	118.5	117.6	116.2
G6.0	116.3	115.7	116.0	116.1	116.4	116.8	119.5	118.6	117.7	116.6
G7.0	115.7	114.7	114.9	115.6	116.1	116.4	119.4	118.2	117.0	116.3
G8.0	115.0	114.0	114.9	114.8	115.6	116.3	119.4	118.3	116.9	115.6
G9.0	114.5	114.5	113.8	114.1	115.4	116.1	119.3	117.8	116.5	115.1
G10.0	113.7	113.1	113.2	114.3	115.0	115.9	118.6	118.3	116.5	114.7
G11.0	113.2	112.1	112.3	113.5	114.8	115.7	118.8	117.2	116.1	114.3
G12.0	111.8	111.7	111.7	112.5	114.2	115.3	117.9	117.0	115.3	113.7
G13.0	111.3	110.8	111.2	112.3	113.7	114.8	117.6	116.5	115.3	113.1
G14.0	110.0	110.0	110.2	111.8	112.4	114.6	117.1	115.8	113.9	112.5
G15.0	108.9	108.9	110.2	111.1	112.2	113.8	116.8	115.7	114.0	111.6
G16.0	108.8	108.1	108.8	110.0	111.9	113.4	115.9	115.1	113.5	110.9
G17.0	107.2	106.7	107.8	109.1	111.0	112.5	115.9	114.0	112.8	110.3
G18.0	106.3	106.1	106.8	108.7	110.3	111.6	114.8	113.9	112.2	109.4
G19.0	105.1	104.9	105.7	107.3	109.4	111.1	114.3	112.7	111.3	108.5
G20.0	103.7	103.8	104.5	106.6	108.9	110.3	113.4	112.2	110.1	107.1
G21.0	102.8	102.7	103.6	105.7	107.5	109.6	112.7	111.5	109.8	106.7
G22.0	101.4	101.4	102.0	104.5	106.8	108.7	112.2	110.6	108.6	105.5
G23.0	100.1	100.3	101.4	103.7	105.7	107.8	111.4	109.8	107.8	104.5
G24.0	98.8	98.9	100.0	102.4	104.7	106.8	110.2	108.5	106.4	103.6
G25.0	97.9	97.5	98.9	101.5	103.7	105.9	109.1	107.8	105.7	102.6
G26.0	96.4	96.3	97.9	100.2	102.6	104.7	108.2	107.0	104.1	101.4
G27.0	94.9	94.8	96.1	98.9	101.5	103.6	107.4	105.7	103.3	100.2
G28.0	93.6	93.5	95.0	98.0	100.5	102.5	106.2	104.6	102.5	99.1
G29.0	92.2	91.9	93.7	96.3	99.1	101.4	105.1	103.6	100.7	97.7
G30.0	90.6	90.8	92.5	95.0	97.9	100.5	104.2	102.5	100.1	95.9
G31.0	89.4	89.2	91.0	93.7	96.8	98.8	103.0	101.4	98.8	95.1
G32.0	87.8	87.6	89.0	92.3	95.5	98.2	101.6	99.9	97.6	93.7
G33.0	86.1	85.9	87.6	91.0	94.0	96.5	100.4	99.0	96.1	92.4
G34.0	84.5	84.7	86.5	89.3	92.7	95.4	99.0	97.6	94.4	90.9
G35.0	82.6	82.9	85.0	88.0	91.3	93.9	97.8	96.1	93.6	89.3
G36.0	81.4	81.7	83.2	86.7	90.1	92.6	96.5	94.7	92.1	88.2

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	79.8	79.7	81.8	85.1	88.6	91.2	95.0	93.6	90.4	86.7
G38.0	77.6	78.2	80.3	83.4	86.9	89.7	93.4	91.8	89.1	85.3
G39.0	76.4	76.5	78.6	81.9	85.4	88.1	92.2	90.6	87.6	83.9
G40.0	74.5	74.8	76.9	80.1	83.9	86.8	90.6	89.2	86.0	81.9
G41.0	72.9	73.1	75.2	78.8	82.3	85.3	89.2	87.4	84.6	80.3
G42.0	71.2	71.6	73.7	77.5	80.9	83.8	87.6	85.7	83.1	78.8
G43.0	69.4	69.7	72.1	75.7	79.2	82.1	85.9	84.6	81.8	77.3
G44.0	67.7	68.0	70.3	73.8	77.8	80.7	84.8	83.1	79.8	75.8
G45.0	65.8	66.3	68.7	71.9	76.4	79.0	82.9	81.3	78.2	74.1
G46.0	63.9	64.4	67.2	70.5	74.3	77.7	81.3	80.1	76.5	72.3
G47.0	62.4	62.9	65.1	69.0	72.7	75.9	79.8	78.2	75.3	70.6
G48.0	60.6	60.8	63.3	67.1	70.9	74.3	78.0	76.2	73.3	68.8
G49.0	58.4	59.0	61.3	65.3	69.2	72.5	76.2	74.8	71.5	67.2
G50.0	56.8	57.2	60.0	63.6	67.7	70.8	74.5	73.4	70.1	65.4
G51.0	55.1	55.3	57.8	61.8	65.9	69.3	72.7	71.2	68.4	63.6
G52.0	53.2	53.6	56.0	60.3	64.2	67.5	71.4	69.8	66.4	62.0
G53.0	51.3	51.7	54.2	58.4	62.4	65.4	69.4	68.0	64.8	60.1
G54.0	49.5	49.9	52.3	56.5	60.5	64.1	67.9	66.2	62.9	58.4
G55.0	47.6	48.2	50.8	54.7	58.9	62.2	66.1	64.6	61.2	56.7
G56.0	45.5	46.2	48.7	52.8	57.2	60.4	64.1	62.7	59.6	54.6
G57.0	44.0	44.5	47.2	51.1	55.4	58.8	62.5	60.7	57.8	53.1
G58.0	42.1	42.6	45.2	49.4	53.7	57.0	60.7	59.0	55.8	51.2
G59.0	40.1	40.6	43.4	47.5	51.6	55.2	58.8	57.4	53.9	49.4
G60.0	38.3	38.9	41.5	45.7	50.0	53.5	56.8	55.4	52.2	47.6
G61.0	36.6	36.9	39.6	43.6	48.1	51.5	54.9	53.7	50.3	45.8
G62.0	34.5	35.2	37.8	41.8	46.1	49.8	53.3	51.6	48.5	43.9
G63.0	32.8	33.4	36.0	40.2	44.5	48.1	51.4	49.9	46.7	42.1
G64.0	30.9	31.4	34.2	38.2	42.5	46.0	49.5	48.0	44.8	40.2
G65.0	29.1	29.7	32.4	36.4	40.8	44.3	47.6	46.0	42.8	38.4
G66.0	27.3	27.9	30.7	34.7	39.0	42.4	45.8	44.2	41.1	36.6
G67.0	25.4	26.1	28.7	32.8	37.2	40.5	43.7	42.3	39.1	34.6
G68.0	23.7	24.2	26.8	30.8	35.4	38.9	42.0	40.6	37.3	32.9
G69.0	21.9	22.4	25.0	28.9	33.4	36.9	40.1	38.6	35.4	30.9
G70.0	20.1	20.8	23.3	27.3	31.8	35.1	38.3	36.9	33.8	29.2
G71.0	18.5	19.0	21.6	25.6	29.9	33.5	36.5	35.1	31.8	27.5
G72.0	16.7	17.3	19.8	23.8	28.1	31.5	34.3	33.2	29.9	25.6
G73.0	15.1	15.7	18.1	22.1	26.3	29.8	32.6	31.4	28.1	23.9

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 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	13.6	14.0	16.5	20.2	24.6	27.9	30.6	29.5	26.3	22.2
G75.0	11.9	12.3	14.8	18.7	22.8	26.2	29.0	27.6	24.5	20.5
G76.0	10.4	10.9	13.3	17.0	21.2	24.4	27.1	25.9	22.8	18.8
G77.0	8.7	9.3	11.6	15.2	19.4	22.7	25.1	24.0	21.0	17.0
G78.0	7.3	7.8	10.1	13.7	17.7	21.0	23.4	22.3	19.3	15.4
G79.0	5.9	6.4	8.6	12.2	16.1	19.4	21.8	20.6	17.7	13.8
G80.0	4.4	5.0	7.1	10.6	14.5	17.7	19.9	18.8	15.9	12.0
G81.0	3.1	3.6	5.7	9.1	12.9	16.0	18.3	17.1	14.3	10.3
G82.0	1.9	2.3	4.4	7.6	11.4	14.4	16.5	15.5	12.4	8.5
G83.0	0.7	1.2	3.0	6.2	9.8	12.8	14.9	13.8	10.6	6.4
G84.0	0.3	0.3	1.8	4.8	8.3	11.3	13.3	12.3	8.7	4.6
G85.0	0.2	0.2	0.6	3.2	6.8	9.7	11.6	10.6	6.3	2.8
G86.0	0.2	0.2	0.2	1.6	5.4	8.3	10.1	9.0	4.3	1.3
G87.0	0.2	0.2	0.2	0.4	3.7	6.8	8.2	6.8	2.3	0.4
G88.0	0.2	0.2	0.2	0.2	1.7	4.4	5.4	4.1	0.5	0.2
G89.0	0.2	0.2	0.2	0.1	0.2	2.3	2.8	2.0	0.2	0.2
G90.0	0.3	0.2	0.2	0.2	0.1	0.7	0.3	1.1	0.2	0.2

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 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	116.9	116.1	118.8						
G1.0	116.5	116.2	118.6						
G2.0	116.3	115.7	118.4						
G3.0	116.2	115.4	117.7						
G4.0	115.7	115.4	117.6						
G5.0	115.6	115.2	116.8						
G6.0	115.2	114.0	116.3						
G7.0	114.9	113.9	115.7						
G8.0	113.8	113.3	115.0						
G9.0	113.3	112.5	114.5						
G10.0	112.7	111.5	113.7						
G11.0	112.4	110.8	113.2						
G12.0	111.8	110.3	111.8						
G13.0	111.5	109.9	111.3						
G14.0	110.4	108.4	110.0						
G15.0	109.7	107.7	108.9						
G16.0	108.5	106.8	108.8						
G17.0	107.7	106.0	107.2						
G18.0	106.8	104.9	106.3						
G19.0	105.9	104.0	105.1						
G20.0	104.8	102.8	103.7						
G21.0	104.1	101.8	102.8						
G22.0	102.8	100.2	101.4						
G23.0	101.6	99.6	100.1						
G24.0	100.2	98.1	98.8						
G25.0	99.4	96.9	97.9						
G26.0	98.1	95.6	96.4						
G27.0	96.4	94.4	94.9						
G28.0	95.6	93.0	93.6						
G29.0	94.4	92.2	92.2						
G30.0	93.2	90.5	90.6						
G31.0	91.5	88.7	89.4						
G32.0	89.9	87.5	87.8						
G33.0	88.7	85.9	86.1						
G34.0	87.0	84.5	84.5						
G35.0	86.0	82.6	82.6						
G36.0	84.2	81.1	81.4						

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	82.6	80.0	79.8						
G38.0	80.7	78.1	77.6						
G39.0	79.6	76.2	76.4						
G40.0	77.7	75.0	74.5						
G41.0	76.2	73.2	72.9						
G42.0	74.7	71.6	71.2						
G43.0	72.9	69.8	69.4						
G44.0	71.3	68.2	67.7						
G45.0	69.7	66.4	65.8						
G46.0	67.9	64.5	63.9						
G47.0	66.2	63.0	62.4						
G48.0	64.5	60.9	60.6						
G49.0	62.9	59.4	58.4						
G50.0	61.1	57.8	56.8						
G51.0	59.3	55.9	55.1						
G52.0	57.2	54.2	53.2						
G53.0	55.5	52.3	51.3						
G54.0	53.7	50.5	49.5						
G55.0	52.0	48.8	47.6						
G56.0	50.2	46.7	45.5						
G57.0	48.4	44.9	44.0						
G58.0	46.6	43.2	42.1						
G59.0	44.8	41.3	40.1						
G60.0	43.0	39.6	38.3						
G61.0	41.0	37.8	36.6						
G62.0	39.2	35.9	34.5						
G63.0	37.5	34.1	32.8						
G64.0	35.6	32.2	30.9						
G65.0	33.8	30.5	29.1						
G66.0	32.0	28.7	27.3						
G67.0	30.1	26.9	25.4						
G68.0	28.3	25.2	23.7						
G69.0	26.6	23.3	21.9						
G70.0	24.9	21.7	20.1						
G71.0	23.2	20.1	18.5						
G72.0	21.4	18.3	16.7						
G73.0	19.6	16.6	15.1						

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	17.9	15.1	13.6						
G75.0	16.3	13.4	11.9						
G76.0	14.7	11.8	10.4						
G77.0	13.0	10.2	8.7						
G78.0	11.5	8.7	7.3						
G79.0	10.1	7.3	5.9						
G80.0	8.4	5.7	4.4						
G81.0	6.9	4.4	3.1						
G82.0	5.2	3.0	1.9						
G83.0	3.7	1.8	0.7						
G84.0	2.3	0.6	0.3						
G85.0	1.0	0.2	0.2						
G86.0	0.3	0.1	0.2						
G87.0	0.2	0.1	0.2						
G88.0	0.2	0.2	0.2						
G89.0	0.2	0.2	0.2						
G90.0	0.2	0.2	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: