

Report No.:

Test Time: 2020-09-29 09:33

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-6D15CC-WH-5K

Voltage: 120.2 V

Current: 0.118 A

Power: 14.61 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1073.4 lm

Measurement Flux: 1073.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.0, 163.3, 162.9, 162.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.0, 113.6, 113.7, 113.8

Luminaire Efficacy Rating (LER): 73.52

Central Intensity: 369.71 cd

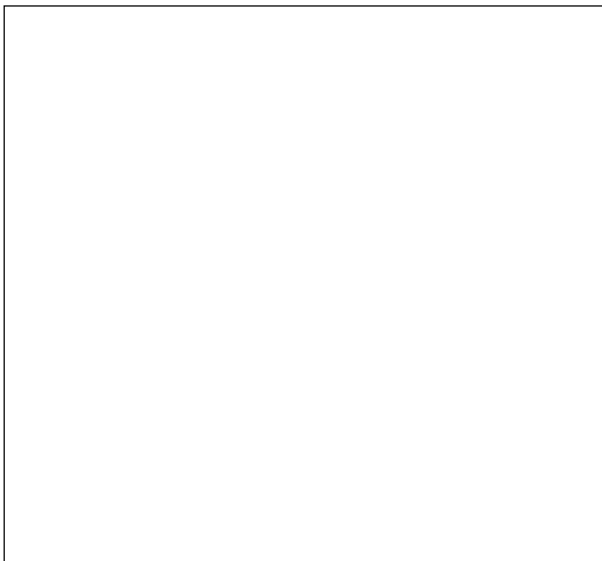
Max. Intensity: 371.39 cd

Pos of Max. Intensity: H180 V2

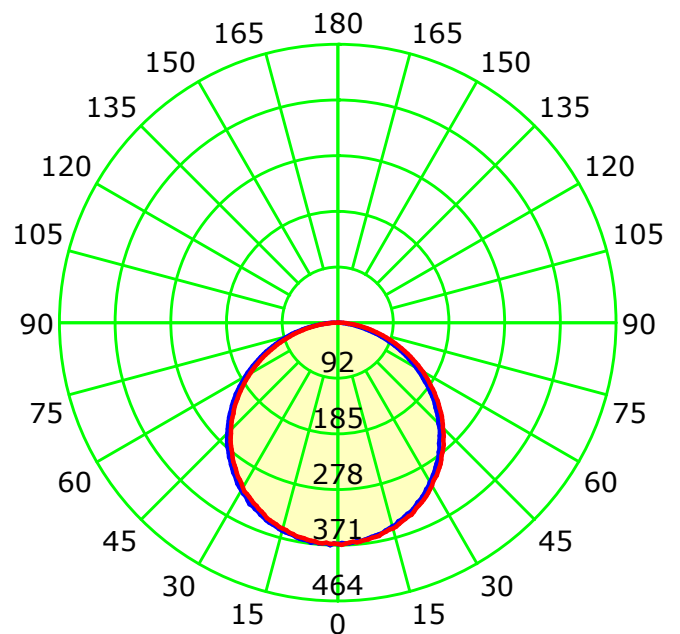
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.27

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

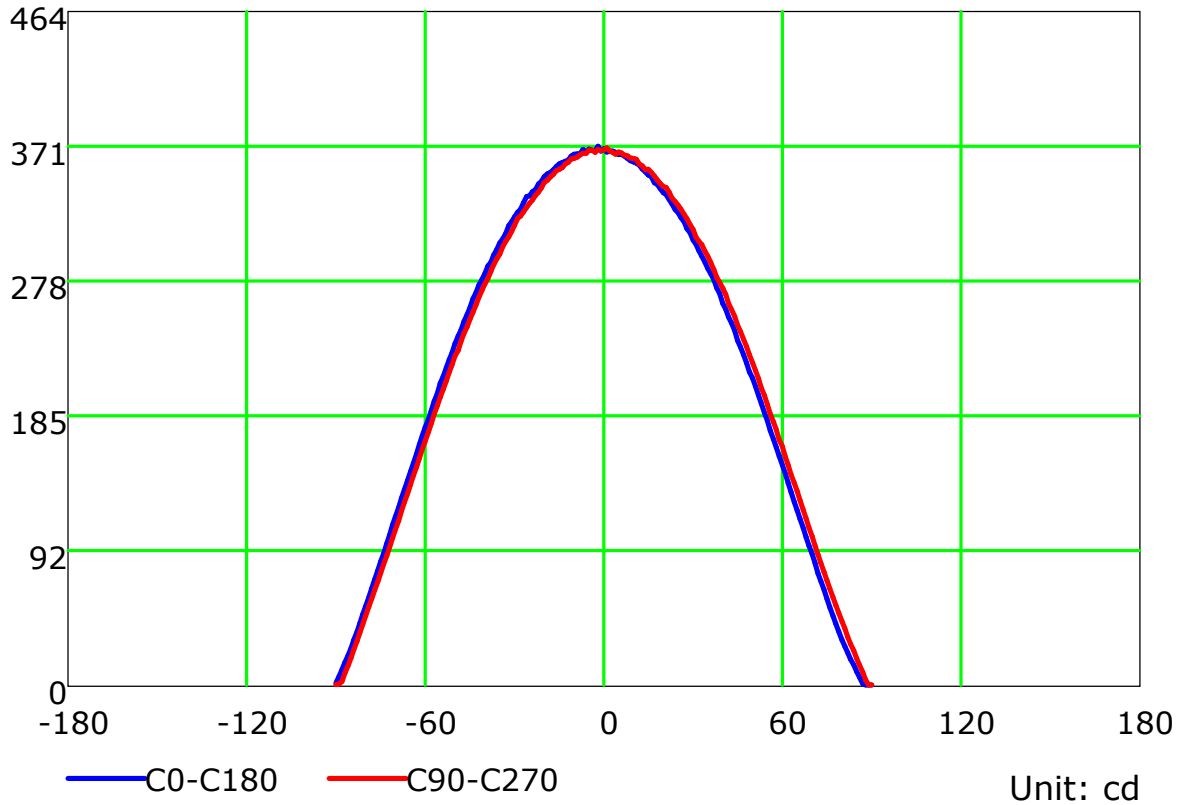
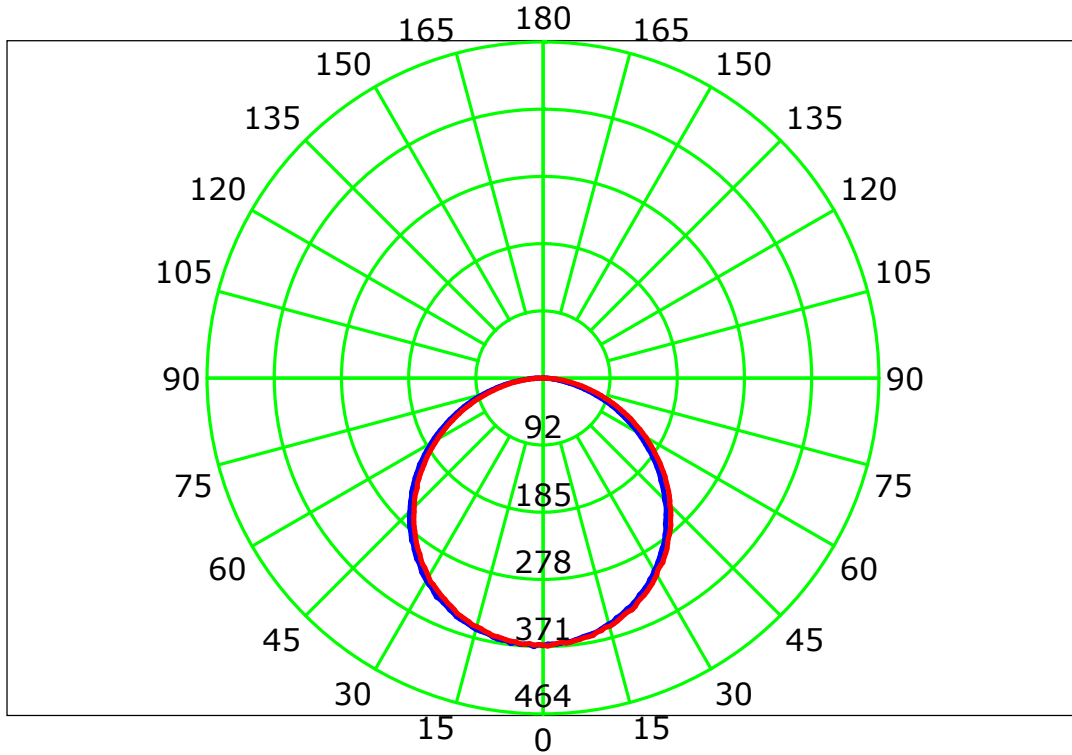
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

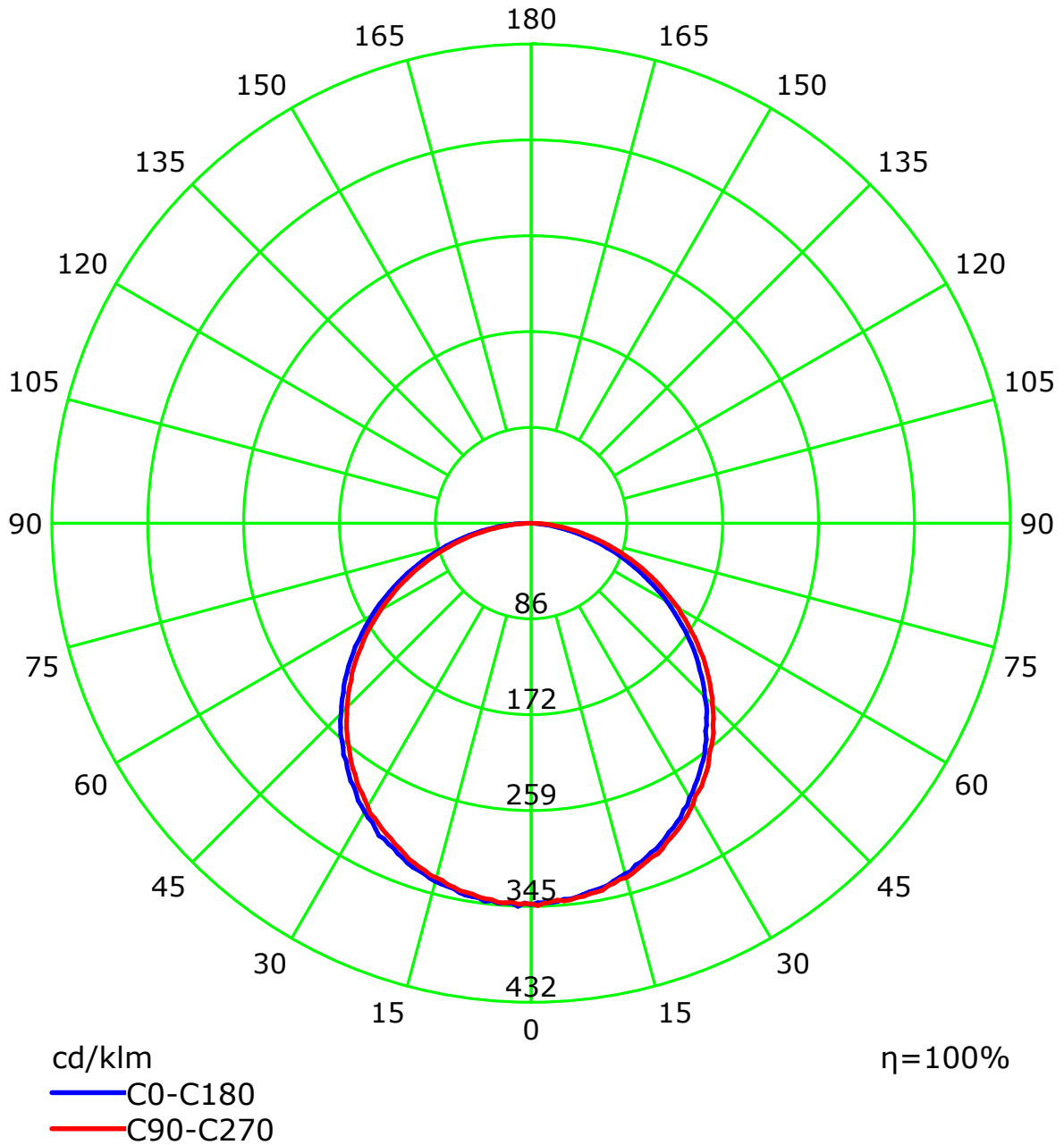


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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)



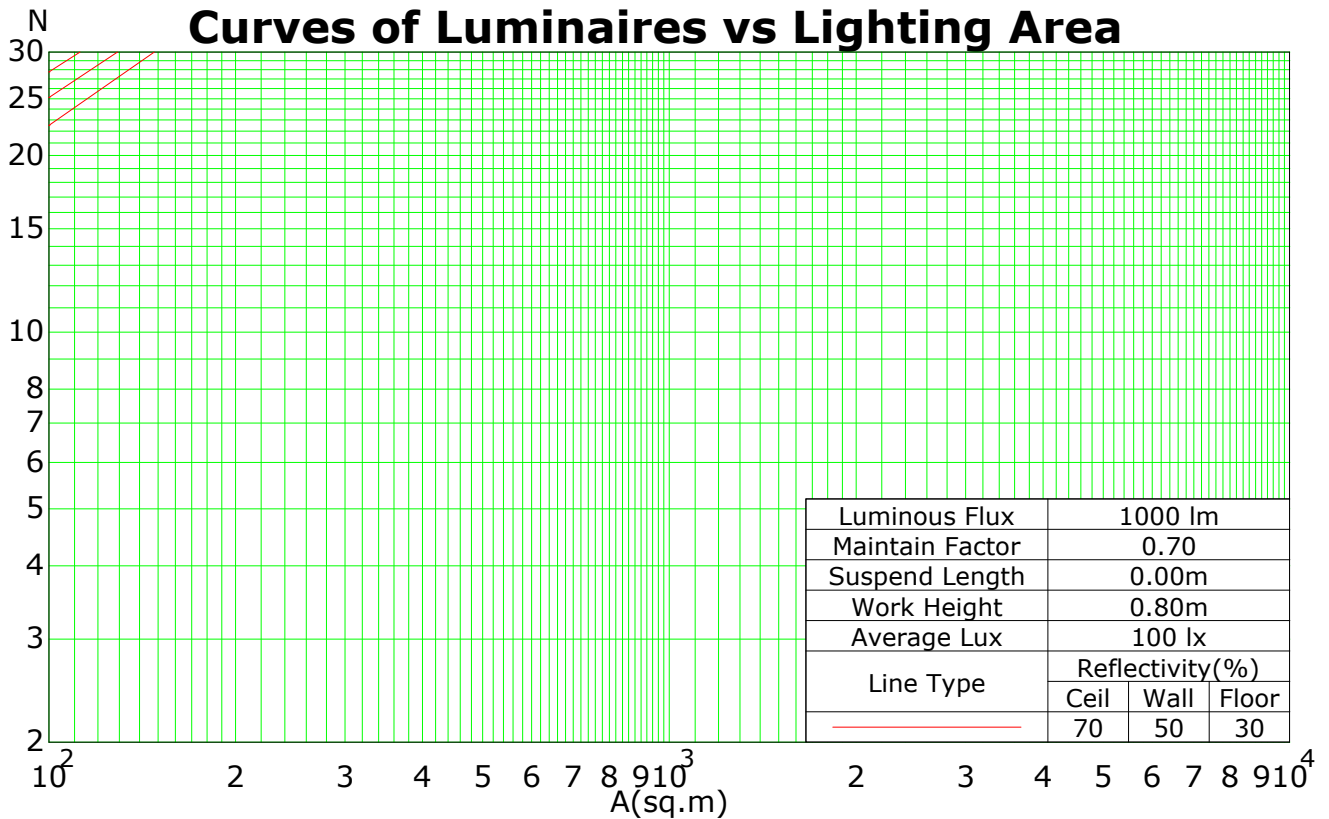
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

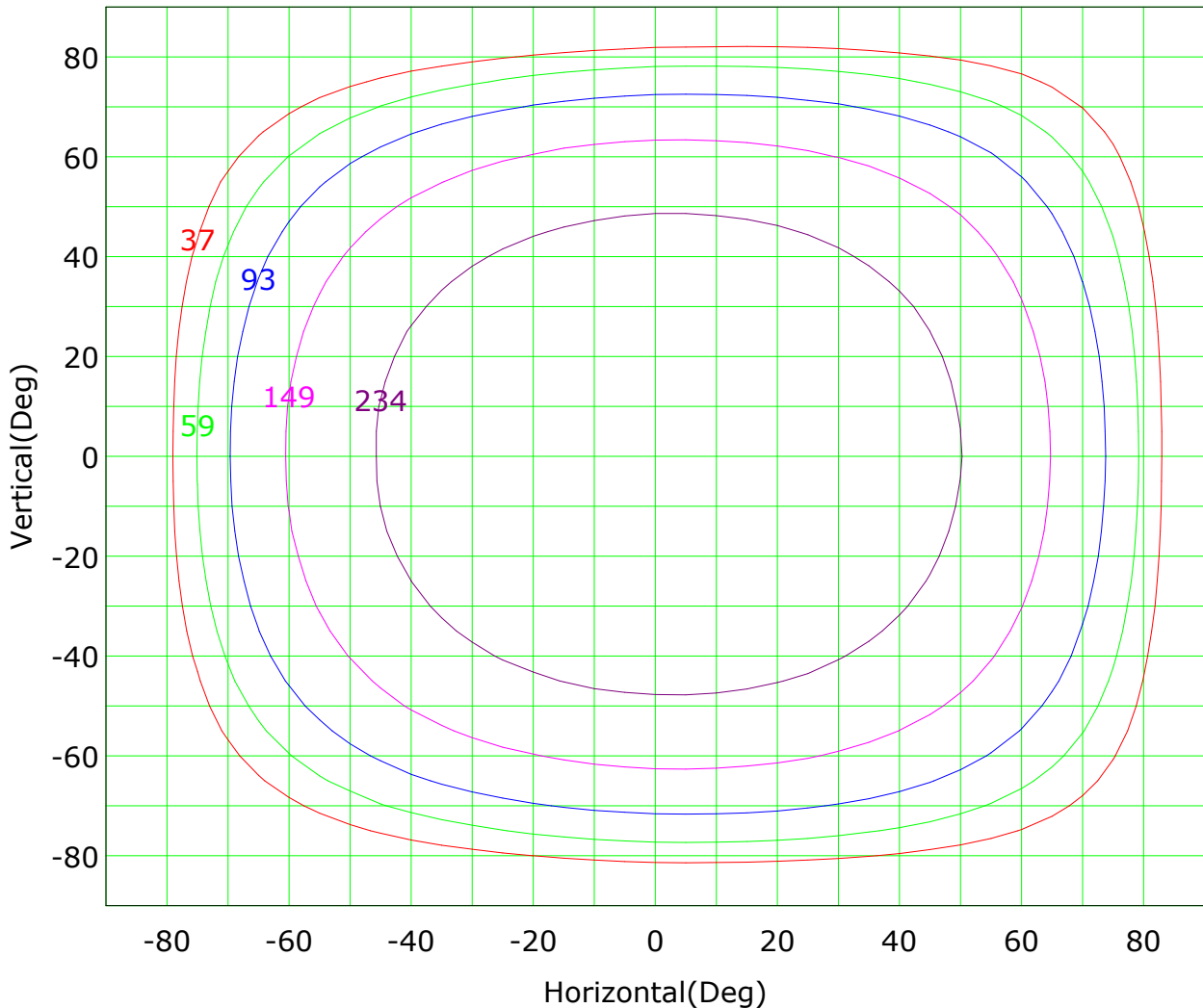
Spacing Criteria (0-180): 1.27
 Spacing Criteria (90-270): 1.27
 Spacing Criteria (Diagonal): 1.38



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:

Isocandela (rectangle)



Imax (100%): 371 cd

— (10%):	37 cd	— (16%):	59 cd
— (25%):	93 cd	— (40%):	149 cd
— (63%):	234 cd	— (100%):	371 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

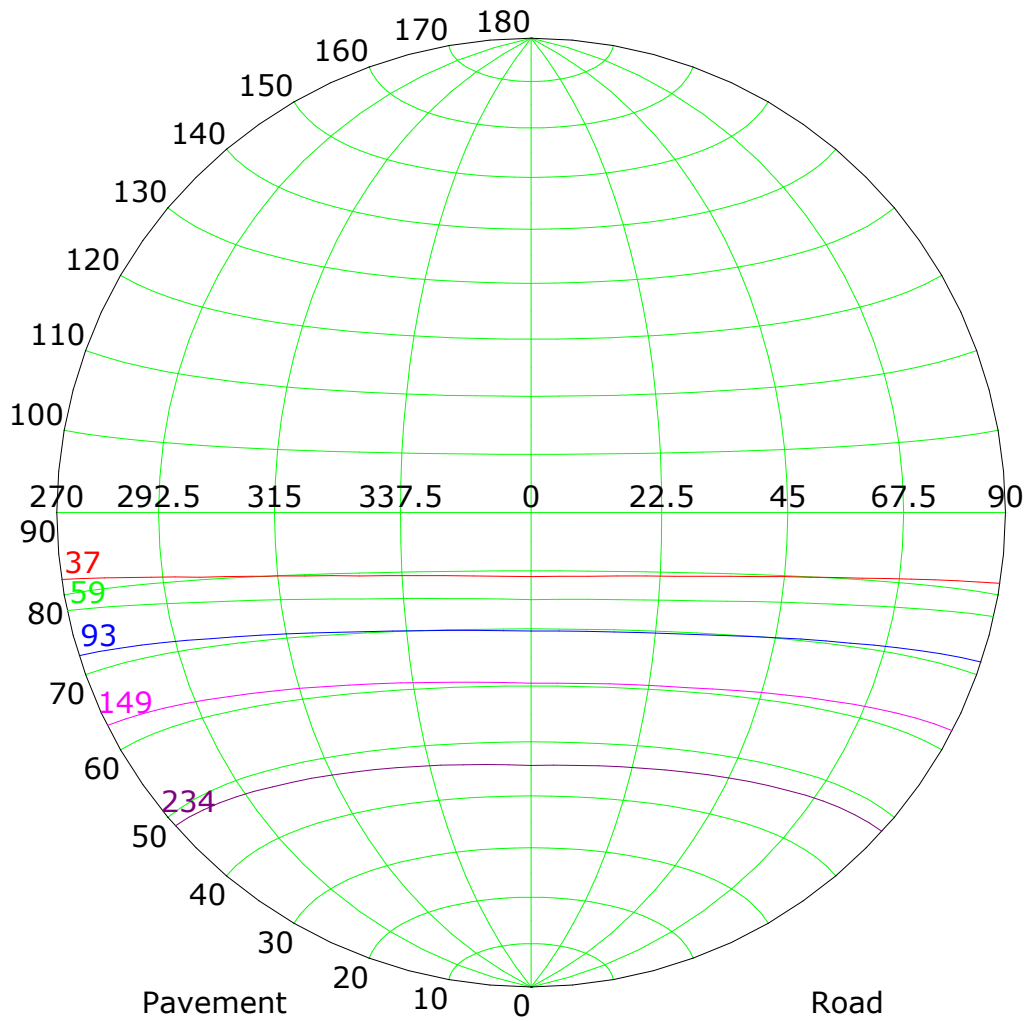
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 371 cd

— (10%):	37 cd	— (16%):	59 cd
— (25%):	93 cd	— (40%):	149 cd
— (63%):	234 cd	— (100%):	371 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

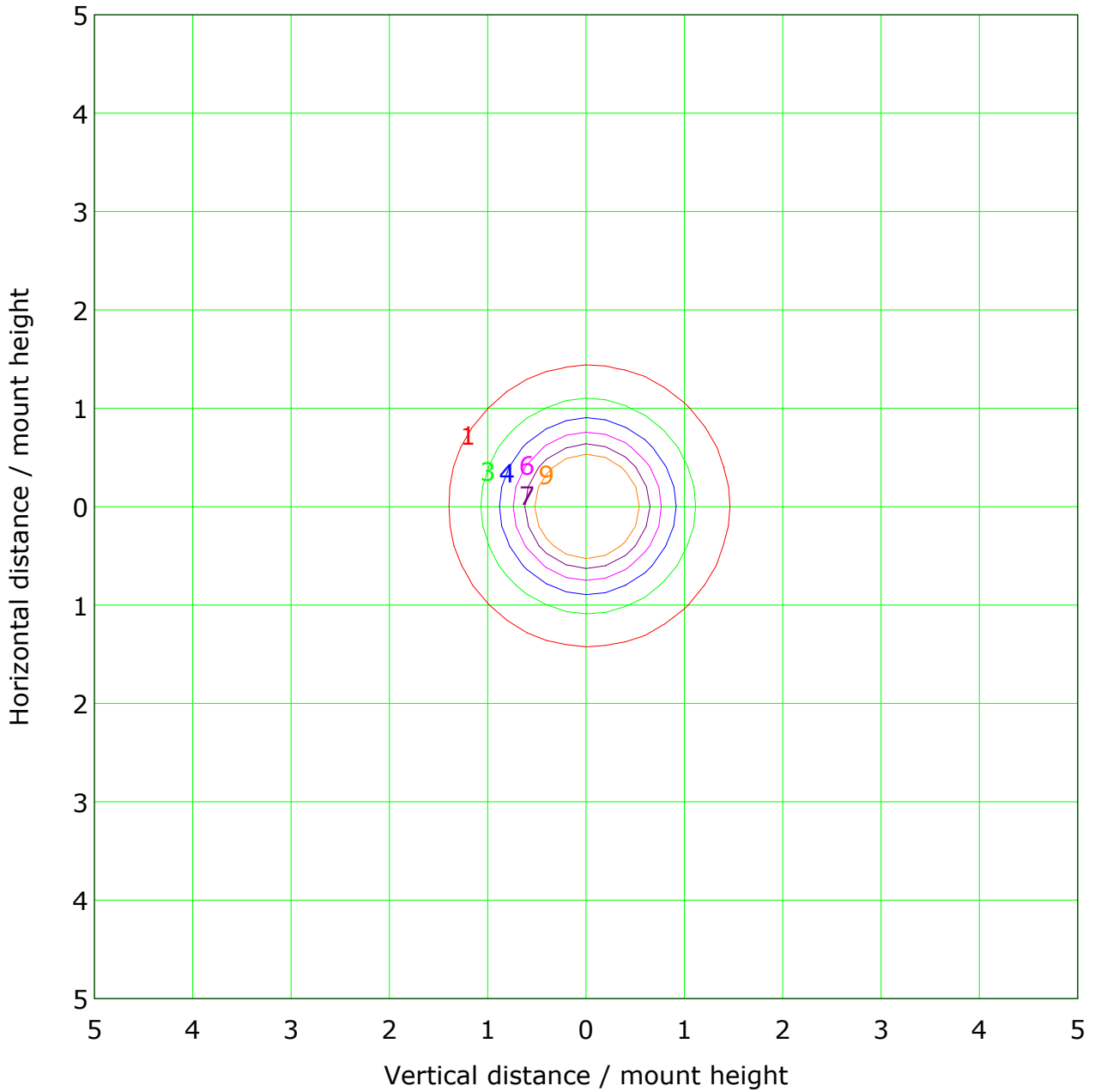
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 14.8 lx
<ul style="list-style-type: none"> — (10%): 1.5 lx — (30%): 4.4 lx — (50%): 7.4 lx — (100%): 14.8 lx 	<ul style="list-style-type: none"> — (20%): 3.0 lx — (40%): 5.9 lx — (60%): 8.9 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

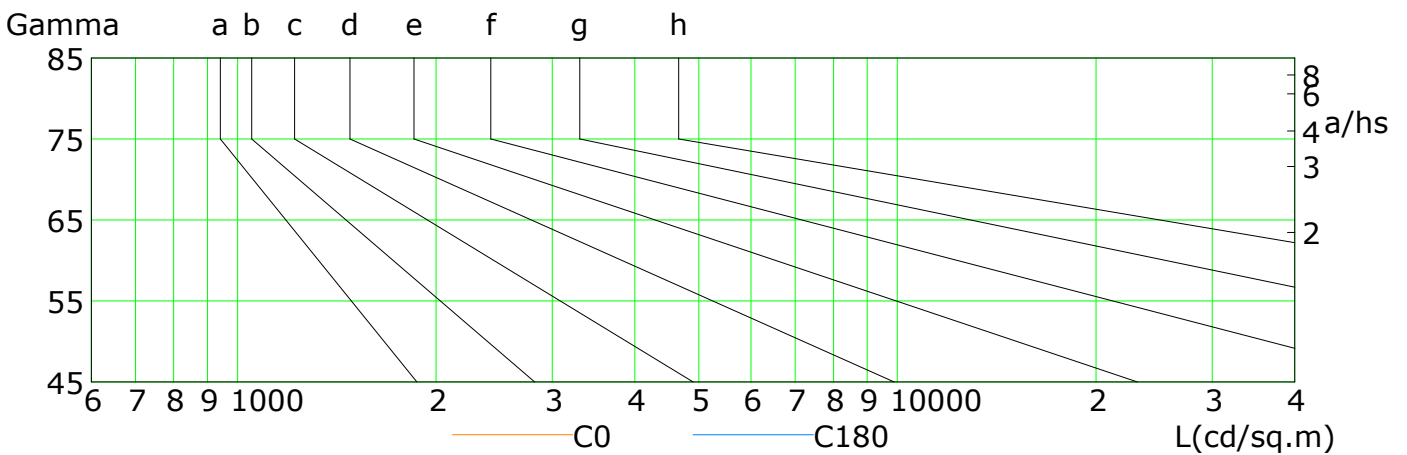
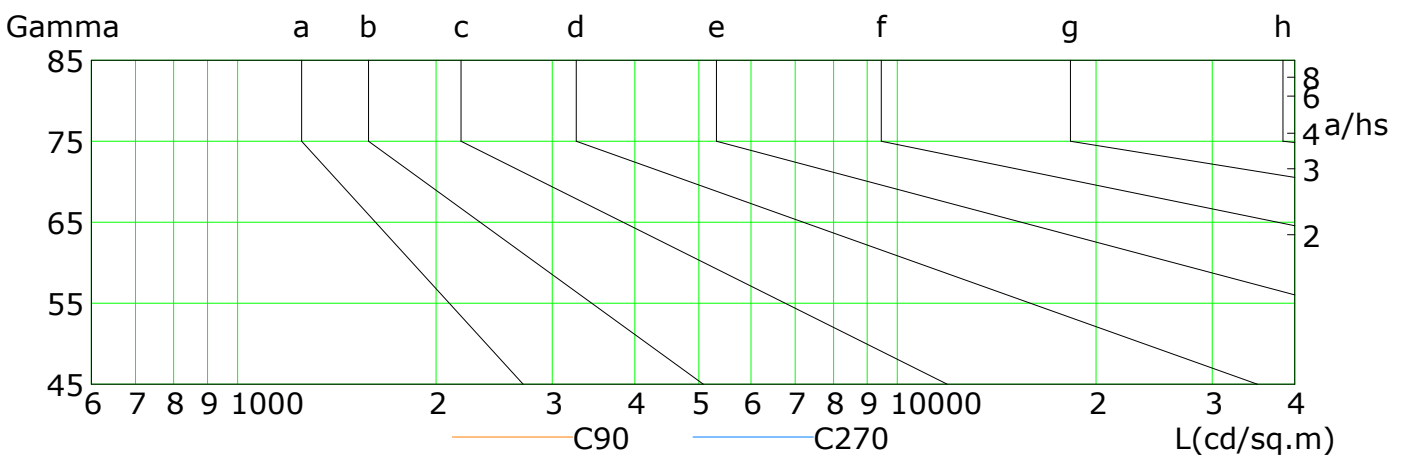
Humidity:

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	238	212	183	152	121	91	60	31	10
C90	248	222	194	165	134	103	72	44	19
C180	260	235	208	178	147	116	85	55	26
C270	252	227	199	168	138	107	78	48	19

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

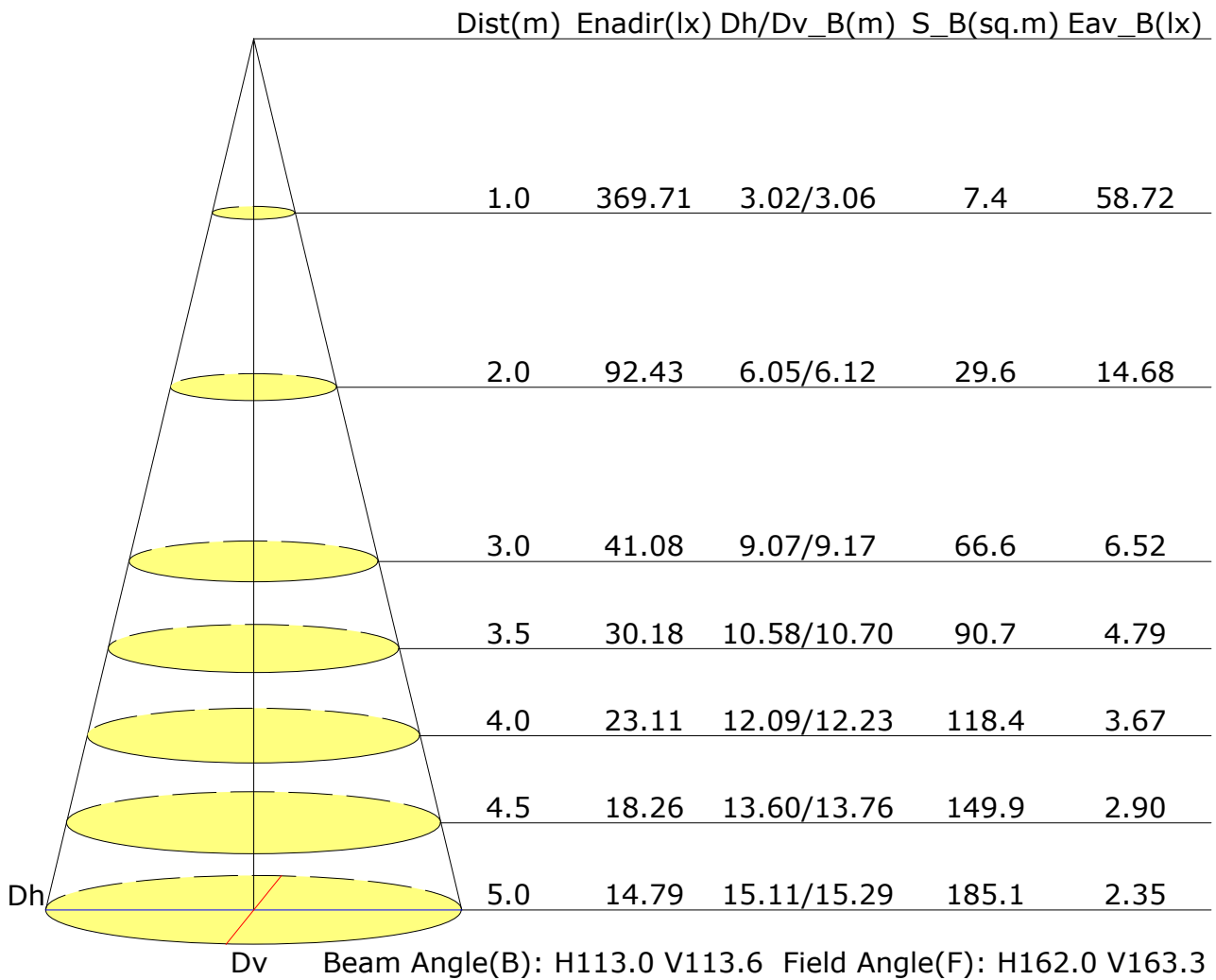
Test Device: GPM-1600L

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

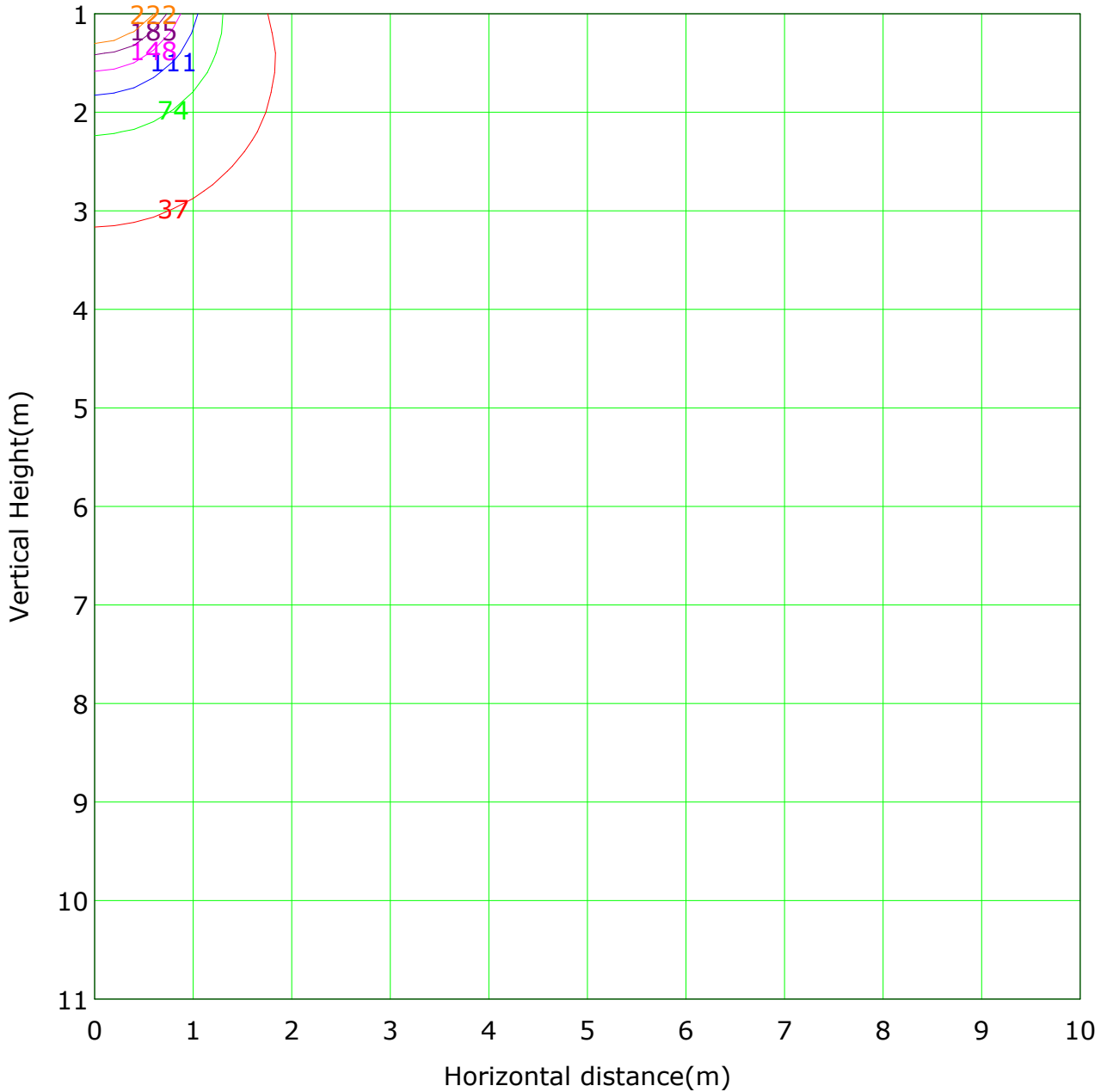
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 369.7 lx

— (10%): 37.0 lx	— (20%): 73.9 lx
— (30%): 110.9 lx	— (40%): 147.9 lx
— (50%): 184.9 lx	— (60%): 221.8 lx
— (100%): 369.7 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	0.1	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	1.2		
-80	0.0	0.2	0.5	0.8	1.2	1.7	2.0	2.3	2.4	2.3	2.1	1.7	1.3	0.9	0.5	0.2	0.1	0.0	20.0	18.3		
-70	0.0	0.3	0.7	1.4	2.1	2.9	3.5	4.0	4.2	4.1	3.8	3.2	2.5	1.7	1.0	0.5	0.1	0.0	36.1	35.6		
-60	0.1	0.4	1.0	1.9	3.0	4.1	5.0	5.7	6.0	5.9	5.5	4.7	3.7	2.6	1.6	0.7	0.2	0.0	52.1	51.8		
-50	0.1	0.5	1.3	2.5	3.8	5.2	6.4	7.2	7.6	7.6	7.0	6.0	4.8	3.4	2.1	1.0	0.3	0.0	66.6	66.4		
-40	0.1	0.6	1.5	2.9	4.5	6.1	7.5	8.5	9.0	8.9	8.3	7.2	5.7	4.1	2.5	1.2	0.4	0.0	78.9	78.8		
-30	0.1	0.6	1.7	3.3	5.0	6.8	8.4	9.5	10.0	10.0	9.3	8.0	6.4	4.6	2.9	1.4	0.4	0.0	88.5	88.3		
-20	0.1	0.7	1.8	3.5	5.4	7.3	9.0	10.2	10.8	10.7	9.9	8.6	6.9	5.0	3.1	1.5	0.5	0.0	94.9	94.8		
-10	0.1	0.7	1.9	3.6	5.6	7.5	9.3	10.5	11.1	11.0	10.3	8.9	7.1	5.1	3.2	1.6	0.5	0.0	98.1	98.0		
0	0.1	0.7	1.9	3.6	5.6	7.5	9.2	10.5	11.1	11.0	10.3	8.9	7.1	5.1	3.2	1.6	0.5	0.0	97.9	97.8		
10	0.1	0.7	1.8	3.5	5.4	7.3	8.9	10.1	10.7	10.6	9.9	8.6	6.9	4.9	3.1	1.5	0.5	0.0	94.5	94.4		
20	0.1	0.6	1.7	3.2	5.0	6.8	8.3	9.4	10.0	9.9	9.2	8.0	6.4	4.5	2.8	1.4	0.4	0.0	87.8	87.7		
30	0.1	0.5	1.5	2.9	4.4	6.0	7.4	8.4	8.9	8.8	8.2	7.1	5.6	4.0	2.5	1.2	0.4	0.0	78.0	77.8		
40	0.1	0.5	1.3	2.4	3.7	5.1	6.3	7.1	7.5	7.4	6.9	5.9	4.7	3.3	2.0	1.0	0.3	0.0	65.5	65.3		
50	0.1	0.4	1.0	1.9	2.9	4.0	4.9	5.5	5.9	5.8	5.3	4.6	3.6	2.5	1.5	0.7	0.2	0.0	50.7	50.4		
60	0.0	0.3	0.7	1.3	2.0	2.8	3.4	3.9	4.1	4.0	3.6	3.1	2.4	1.7	1.0	0.5	0.1	0.0	34.8	34.2		
70	0.0	0.2	0.4	0.7	1.1	1.5	1.9	2.1	2.2	2.2	2.0	1.6	1.2	0.8	0.5	0.2	0.0	0.0	18.7	16.9		
80	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.9	0.5		
90	Flux(T)	1.1	7.7	21.1	39.9	61.6	83.4	102.4	116.0	122.7	121.5	112.5	96.9	76.8	54.6	33.5	16.2	5.0	0.4	1073		
	Flux(E)	0.4	6.9	20.3	39.0	60.8	82.6	101.6	115.2	121.8	120.6	111.7	96.1	75.9	53.7	32.6	15.3	3.7	0.0		1058	
		-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

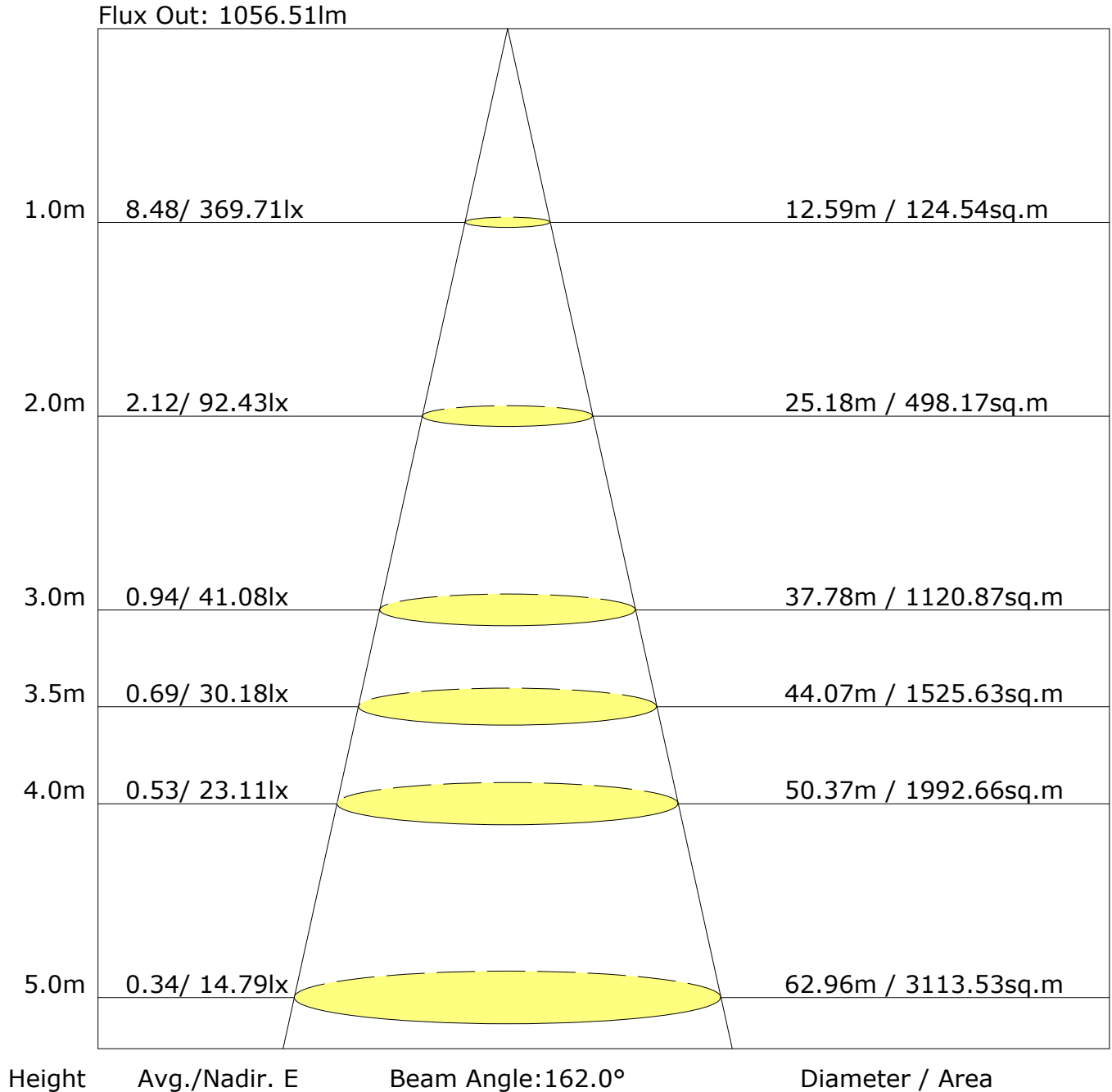
Test Lab:

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 1073lm ($8\log(F/F_0) = 0.2$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

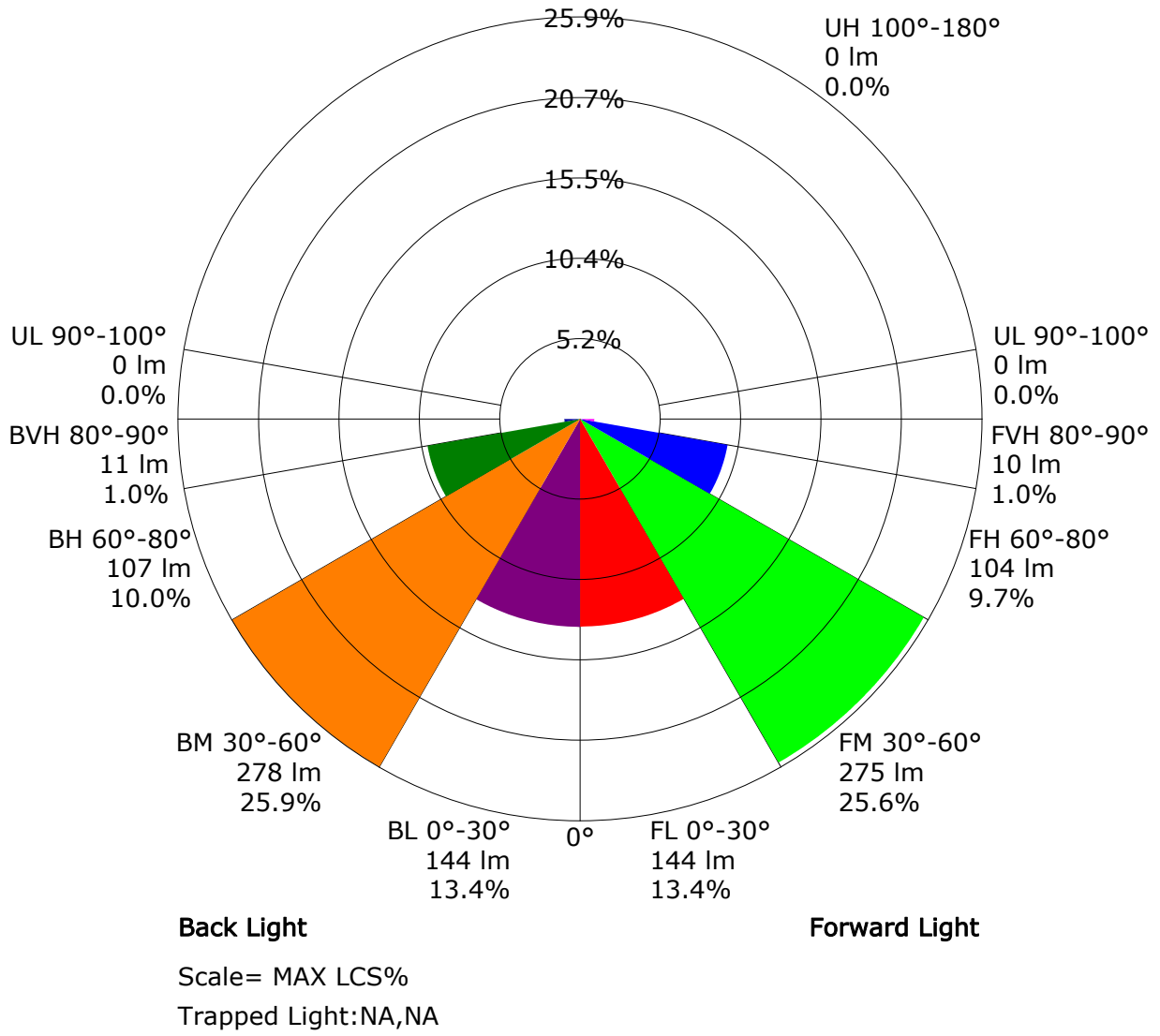
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	533	49.6
	FL (0°-30°)	144	13.4
	FM (30°-60°)	275	25.6
	FH (60°-80°)	104	9.7
	FVH (80°-90°)	10	1.0
	BACK LIGHT	541	50.4
	BL (0°-30°)	144	13.4
	BM (30°-60°)	278	25.9
	BH (60°-80°)	107	10.0
	BVH (80°-90°)	11	1.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	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)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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	0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	1.00	
	0.20		0.42	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.77	0.84	0.88	0.92	0.96	0.99	
	0.30		0.47	0.58	0.65	0.70	0.78	0.84	0.87	0.93	0.96	
	0.20		0.42	0.52	0.60	0.65	0.74	0.80	0.84	0.90	0.93	
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		0.47	0.56	0.64	0.69	0.76	0.81	0.85	0.90	0.93	
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.82	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.83	0.86	
<p>Rating:15W 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(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.38	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		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
<p>Rating:15W 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 = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.09	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		0.04	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	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		0.04	0.06	0.07	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:15W 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	368.7	0.4	0.4	0.03	0.03
1.0-2.0	368.7	1.1	1.4	0.10	0.13
2.0-3.0	368.5	1.8	3.2	0.16	0.30
3.0-4.0	367.9	2.5	5.6	0.23	0.53
4.0-5.0	367.6	3.2	8.8	0.29	0.82
5.0-6.0	367.1	3.9	12.7	0.36	1.18
6.0-7.0	366.4	4.5	17.2	0.42	1.60
7.0-8.0	365.7	5.2	22.4	0.49	2.09
8.0-9.0	364.5	5.9	28.3	0.55	2.64
9.0-10.0	363.3	6.6	34.9	0.61	3.25
10.0-11.0	362.3	7.2	42.2	0.67	3.93
11.0-12.0	360.9	7.9	50.1	0.74	4.66
12.0-13.0	359.6	8.5	58.6	0.80	5.46
13.0-14.0	358.0	9.2	67.8	0.85	6.31
14.0-15.0	356.4	9.8	77.5	0.91	7.22
15.0-16.0	354.8	10.4	87.9	0.97	8.19
16.0-17.0	352.6	11.0	98.9	1.02	9.22
17.0-18.0	350.3	11.6	110.5	1.08	10.29
18.0-19.0	348.3	12.1	122.6	1.13	11.42
19.0-20.0	346.3	12.7	135.3	1.18	12.60
20.0-21.0	343.9	13.2	148.5	1.23	13.83
21.0-22.0	341.2	13.7	162.2	1.28	15.11
22.0-23.0	338.5	14.2	176.4	1.32	16.43
23.0-24.0	335.8	14.7	191.1	1.37	17.80
24.0-25.0	333.2	15.2	206.2	1.41	19.21
25.0-26.0	330.4	15.6	221.8	1.45	20.67
26.0-27.0	327.3	16.0	237.8	1.49	22.16
27.0-28.0	323.8	16.4	254.2	1.53	23.68
28.0-29.0	320.8	16.8	271.0	1.56	25.25
29.0-30.0	317.4	17.1	288.2	1.60	26.85
30.0-31.0	313.6	17.5	305.6	1.63	28.47
31.0-32.0	309.8	17.7	323.4	1.65	30.12
32.0-33.0	306.1	18.0	341.4	1.68	31.80
33.0-34.0	302.4	18.3	359.7	1.71	33.51
34.0-35.0	298.4	18.5	378.2	1.73	35.24
35.0-36.0	294.3	18.7	397.0	1.75	36.98

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	290.1	18.9	415.9	1.76	38.75
37.0-38.0	285.7	19.1	435.0	1.78	40.52
38.0-39.0	281.3	19.2	454.2	1.79	42.31
39.0-40.0	276.8	19.3	473.5	1.80	44.11
40.0-41.0	272.0	19.4	492.9	1.80	45.92
41.0-42.0	267.4	19.4	512.3	1.81	47.73
42.0-43.0	262.8	19.5	531.8	1.81	49.54
43.0-44.0	257.9	19.5	551.2	1.81	51.35
44.0-45.0	252.7	19.4	570.6	1.81	53.16
45.0-46.0	247.6	19.4	590.0	1.80	54.97
46.0-47.0	242.5	19.3	609.3	1.80	56.76
47.0-48.0	237.2	19.2	628.5	1.79	58.55
48.0-49.0	231.8	19.0	647.5	1.77	60.32
49.0-50.0	226.5	18.9	666.4	1.76	62.08
50.0-51.0	221.1	18.7	685.1	1.74	63.83
51.0-52.0	215.4	18.5	703.6	1.72	65.55
52.0-53.0	209.9	18.3	721.9	1.70	67.25
53.0-54.0	204.1	18.0	739.8	1.68	68.93
54.0-55.0	198.4	17.7	757.6	1.65	70.58
55.0-56.0	192.6	17.4	775.0	1.62	72.20
56.0-57.0	186.5	17.1	792.0	1.59	73.79
57.0-58.0	180.8	16.7	808.7	1.56	75.34
58.0-59.0	174.7	16.3	825.1	1.52	76.87
59.0-60.0	168.6	15.9	841.0	1.48	78.35
60.0-61.0	162.7	15.5	856.5	1.45	79.80
61.0-62.0	156.5	15.1	871.6	1.41	81.20
62.0-63.0	150.3	14.6	886.2	1.36	82.56
63.0-64.0	144.2	14.2	900.4	1.32	83.88
64.0-65.0	138.1	13.7	914.1	1.27	85.16
65.0-66.0	132.1	13.2	927.2	1.23	86.38
66.0-67.0	125.8	12.7	939.9	1.18	87.56
67.0-68.0	119.6	12.1	952.0	1.13	88.69
68.0-69.0	113.3	11.6	963.6	1.08	89.77
69.0-70.0	107.0	11.0	974.6	1.02	90.79
70.0-71.0	100.9	10.4	985.0	0.97	91.76
71.0-72.0	94.6	9.8	994.8	0.92	92.68

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	88.5	9.3	1004.1	0.86	93.54
73.0-74.0	82.4	8.7	1012.8	0.81	94.35
74.0-75.0	76.3	8.1	1020.8	0.75	95.10
75.0-76.0	70.4	7.5	1028.3	0.70	95.80
76.0-77.0	64.3	6.9	1035.2	0.64	96.44
77.0-78.0	58.4	6.3	1041.4	0.58	97.02
78.0-79.0	52.9	5.7	1047.1	0.53	97.55
79.0-80.0	47.1	5.1	1052.2	0.47	98.02
80.0-81.0	41.5	4.5	1056.7	0.42	98.44
81.0-82.0	36.2	3.9	1060.6	0.37	98.81
82.0-83.0	30.8	3.4	1063.9	0.31	99.12
83.0-84.0	25.7	2.8	1066.7	0.26	99.38
84.0-85.0	20.7	2.3	1069.0	0.21	99.59
85.0-86.0	15.9	1.7	1070.7	0.16	99.75
86.0-87.0	11.4	1.2	1072.0	0.12	99.87
87.0-88.0	7.1	0.8	1072.8	0.07	99.94
88.0-89.0	3.9	0.4	1073.2	0.04	99.98
89.0-90.0	1.9	0.2	1073.4	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	369.7	368.8	368.8	368.8	369.1	369.2	369.7	368.8	368.8	368.8
G1.0	367.6	367.9	368.4	370.4	368.3	369.4	368.1	368.3	367.9	368.7
G2.0	367.9	369.4	369.1	368.5	368.1	368.8	371.4	370.8	368.2	369.2
G3.0	368.3	366.5	368.1	367.2	367.3	369.0	368.7	370.0	369.4	367.3
G4.0	367.4	367.3	367.5	366.0	367.7	368.9	368.7	368.4	367.9	368.8
G5.0	365.7	366.4	366.2	367.5	367.9	368.8	369.5	367.9	367.2	368.8
G6.0	365.9	365.3	364.7	366.9	367.9	369.1	367.5	368.2	367.4	366.6
G7.0	364.8	364.8	365.5	365.3	366.3	368.8	369.4	366.3	365.8	366.5
G8.0	363.2	363.9	364.0	365.0	364.3	367.4	366.5	367.9	366.9	365.5
G9.0	361.5	362.6	362.6	363.4	365.0	365.5	366.3	365.4	365.5	363.9
G10.0	360.7	358.9	361.4	363.0	362.8	365.3	366.0	365.2	364.5	363.1
G11.0	359.8	360.2	360.4	362.4	362.2	362.9	364.6	364.9	362.8	362.6
G12.0	358.6	358.2	357.9	359.1	362.5	363.9	362.0	363.5	361.0	360.6
G13.0	355.7	355.3	356.8	358.1	360.0	362.4	361.2	363.6	361.7	359.3
G14.0	353.8	353.4	355.6	355.4	358.7	360.0	360.2	359.7	359.5	356.6
G15.0	351.6	353.4	354.1	355.5	357.1	357.2	359.5	360.0	358.8	355.5
G16.0	350.8	350.7	351.2	353.6	355.5	355.7	357.5	358.2	355.7	354.7
G17.0	346.3	347.6	349.7	351.0	353.7	354.3	355.3	355.5	354.0	352.0
G18.0	345.2	346.3	347.3	348.3	350.6	352.3	353.5	352.6	352.0	350.4
G19.0	342.5	342.8	344.5	346.0	349.0	351.3	352.5	352.5	349.2	348.2
G20.0	339.5	340.5	343.6	343.6	346.3	348.7	350.6	350.8	348.4	346.5
G21.0	338.1	337.9	338.4	343.0	344.5	346.2	347.3	346.7	345.6	342.9
G22.0	334.9	334.4	336.0	340.0	341.1	344.1	345.5	345.0	344.0	340.0
G23.0	331.9	332.6	334.5	335.8	338.8	340.7	341.8	342.2	340.7	337.7
G24.0	327.8	330.0	330.6	333.3	337.2	338.9	340.2	341.9	337.1	334.5
G25.0	325.8	326.7	329.2	330.8	333.9	337.6	337.3	337.0	334.7	332.3
G26.0	322.4	323.2	326.7	328.0	331.4	332.9	336.8	335.7	333.4	329.5
G27.0	319.5	319.2	321.1	324.6	328.1	329.7	332.4	330.7	329.8	326.3
G28.0	314.6	315.3	318.6	321.5	325.3	326.5	328.0	328.8	327.2	323.3
G29.0	312.1	312.9	314.8	317.6	322.7	324.0	326.1	326.8	323.4	321.8
G30.0	306.9	308.5	310.2	314.2	318.8	321.7	322.8	323.2	319.8	317.0
G31.0	304.0	304.0	308.2	308.8	314.1	317.4	319.5	319.1	317.3	312.9
G32.0	299.5	300.1	303.0	306.0	310.3	313.6	316.8	315.0	314.1	309.1
G33.0	295.9	297.7	299.9	303.7	307.3	310.5	311.6	310.8	309.4	306.3
G34.0	291.6	293.3	296.5	299.1	302.8	306.3	307.5	307.7	305.9	302.2
G35.0	287.3	288.8	290.7	295.7	298.7	302.3	305.0	305.1	302.5	297.3
G36.0	283.8	283.9	286.8	291.5	294.9	298.6	300.5	300.4	297.9	294.1

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 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	279.4	279.3	282.5	286.4	291.5	293.8	296.4	296.5	294.4	289.9
G38.0	273.9	274.1	277.9	281.1	286.9	289.8	291.5	293.3	290.1	285.2
G39.0	270.0	270.5	272.9	277.8	282.6	285.7	289.0	289.1	284.8	280.5
G40.0	263.0	265.9	268.1	273.5	277.9	281.4	283.6	283.5	280.0	276.4
G41.0	259.3	260.9	262.9	269.5	273.3	276.7	279.6	279.8	274.3	272.0
G42.0	253.7	254.8	259.1	263.0	268.8	271.4	275.9	274.9	271.5	267.5
G43.0	249.8	250.4	254.8	259.0	264.3	267.2	270.7	269.8	267.1	262.3
G44.0	244.4	244.9	248.4	254.1	259.3	262.0	266.2	265.3	261.9	257.0
G45.0	237.6	240.5	243.7	248.2	254.9	257.5	260.4	260.5	257.6	252.5
G46.0	233.3	234.1	238.8	243.9	248.5	253.2	255.5	255.8	251.8	247.2
G47.0	227.8	229.6	233.1	238.2	243.9	246.9	250.6	251.1	247.5	242.4
G48.0	222.3	223.1	227.5	233.4	237.8	241.9	244.9	245.9	242.4	237.2
G49.0	216.1	217.3	221.9	227.8	233.0	236.9	240.8	240.9	236.8	230.8
G50.0	211.5	213.0	217.0	222.2	228.1	231.1	235.4	234.7	231.7	226.9
G51.0	206.0	205.9	211.2	216.8	221.8	225.6	229.3	229.1	226.0	221.2
G52.0	200.2	201.1	204.7	211.5	216.6	220.2	224.5	224.1	220.2	215.7
G53.0	194.4	194.3	199.4	205.0	211.6	214.7	219.0	219.1	215.2	209.8
G54.0	187.9	189.4	193.8	199.6	204.9	209.4	212.8	212.7	209.5	203.8
G55.0	182.6	184.0	188.0	193.6	198.8	203.9	208.4	207.0	203.9	198.5
G56.0	175.6	177.4	181.5	187.1	193.8	198.0	201.2	201.5	197.6	192.9
G57.0	169.6	171.4	175.5	181.7	188.1	191.5	195.6	195.6	191.9	187.0
G58.0	164.0	165.4	170.1	176.1	181.9	187.2	189.3	189.9	186.7	180.6
G59.0	158.0	158.6	163.7	169.4	176.0	180.5	183.4	183.7	179.6	174.5
G60.0	151.9	152.8	157.9	164.6	169.6	174.2	177.9	177.8	174.5	168.5
G61.0	146.2	147.4	151.5	157.6	164.4	168.5	172.2	172.0	167.5	163.1
G62.0	139.5	140.4	145.0	151.9	158.0	161.6	166.2	165.7	161.5	156.6
G63.0	133.4	134.4	139.5	145.2	152.3	156.2	159.5	159.3	155.6	150.5
G64.0	126.5	128.6	133.2	139.5	145.3	150.1	153.0	153.1	149.2	144.7
G65.0	120.7	122.1	126.9	133.9	139.8	144.2	147.1	147.4	143.5	138.4
G66.0	114.7	116.2	121.1	127.5	133.7	137.6	141.2	140.8	137.7	132.3
G67.0	108.6	109.4	114.7	120.9	127.4	131.1	134.9	134.2	131.4	126.3
G68.0	102.3	103.6	108.3	115.1	121.2	125.0	129.2	128.7	124.9	120.2
G69.0	96.2	97.2	101.7	108.6	114.8	118.7	122.6	122.2	118.4	113.4
G70.0	90.5	91.0	95.8	102.7	108.2	112.6	116.3	115.5	112.4	107.5
G71.0	84.3	85.2	89.8	96.4	102.7	105.9	110.6	109.8	106.4	101.6
G72.0	77.4	78.6	83.3	90.4	95.5	99.7	103.8	103.4	99.9	95.4
G73.0	72.0	72.8	77.9	84.4	89.4	93.3	97.8	97.4	94.6	89.5

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 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	66.2	66.6	72.0	78.3	83.7	86.7	90.7	91.6	87.7	83.6
G75.0	59.8	61.2	66.0	72.5	77.0	80.5	85.4	85.4	81.8	77.5
G76.0	53.9	56.1	60.7	66.7	70.7	74.7	79.2	79.2	76.0	71.5
G77.0	48.0	49.8	54.4	60.8	64.7	68.0	72.8	72.8	69.8	65.6
G78.0	42.4	44.5	49.2	55.2	58.7	62.2	66.9	67.2	64.1	60.0
G79.0	37.1	39.2	44.0	50.0	53.0	56.6	60.8	61.5	58.7	54.5
G80.0	31.5	34.0	38.4	44.3	46.6	50.5	54.6	55.5	52.4	48.0
G81.0	27.0	29.3	33.3	39.3	41.4	44.9	49.0	50.0	46.9	42.3
G82.0	22.6	24.1	28.4	33.4	36.3	39.4	42.8	44.7	41.0	36.6
G83.0	18.0	19.6	23.4	28.6	30.3	34.1	36.9	39.1	35.8	30.6
G84.0	14.2	15.3	18.7	23.9	25.3	28.8	31.3	33.6	30.4	24.9
G85.0	9.6	10.8	13.7	18.7	20.1	23.2	25.6	28.1	24.8	18.8
G86.0	5.5	6.9	9.1	13.9	16.4	18.1	20.6	22.7	19.7	13.7
G87.0	1.2	3.0	4.5	9.2	12.7	13.6	15.8	17.4	14.5	8.4
G88.0	0.3	0.3	0.9	3.9	8.3	9.3	10.9	12.0	9.4	2.8
G89.0	0.3	0.3	0.3	0.5	4.1	5.6	6.3	7.2	5.2	0.9
G90.0	0.3	0.3	0.4	0.3	1.0	2.2	1.6	3.9	2.7	0.6

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:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	369.1	369.2	369.7						
G1.0	368.5	367.8	367.6						
G2.0	366.8	369.5	367.9						
G3.0	366.8	367.4	368.3						
G4.0	367.8	366.2	367.4						
G5.0	367.1	367.4	365.7						
G6.0	366.4	364.5	365.9						
G7.0	365.1	364.9	364.8						
G8.0	364.0	363.8	363.2						
G9.0	363.1	361.0	361.5						
G10.0	362.5	361.0	360.7						
G11.0	358.3	358.9	359.8						
G12.0	358.1	356.9	358.6						
G13.0	358.3	355.7	355.7						
G14.0	356.6	354.3	353.8						
G15.0	355.0	351.2	351.6						
G16.0	351.6	350.6	350.8						
G17.0	349.3	348.4	346.3						
G18.0	346.4	345.7	345.2						
G19.0	345.5	344.3	342.5						
G20.0	342.8	341.8	339.5						
G21.0	340.2	339.2	338.1						
G22.0	337.6	336.0	334.9						
G23.0	334.7	333.5	331.9						
G24.0	332.6	330.8	327.8						
G25.0	329.4	326.2	325.8						
G26.0	326.6	323.4	322.4						
G27.0	323.4	319.9	319.5						
G28.0	320.0	317.6	314.6						
G29.0	315.4	313.8	312.1						
G30.0	312.5	310.3	306.9						
G31.0	308.7	306.1	304.0						
G32.0	303.9	302.8	299.5						
G33.0	301.0	297.7	295.9						
G34.0	298.0	294.5	291.6						
G35.0	293.5	288.9	287.3						
G36.0	289.6	284.7	283.8						

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	285.7	281.0	279.4						
G38.0	279.7	277.1	273.9						
G39.0	275.8	272.7	270.0						
G40.0	271.0	267.6	263.0						
G41.0	266.8	262.2	259.3						
G42.0	262.1	257.9	253.7						
G43.0	256.9	253.0	249.8						
G44.0	251.8	247.9	244.4						
G45.0	246.6	242.6	237.6						
G46.0	241.1	237.8	233.3						
G47.0	236.1	231.5	227.8						
G48.0	231.1	225.8	222.3						
G49.0	226.1	220.5	216.1						
G50.0	220.6	215.8	211.5						
G51.0	214.8	209.6	206.0						
G52.0	208.8	204.0	200.2						
G53.0	203.7	199.2	194.4						
G54.0	197.7	192.6	187.9						
G55.0	192.1	186.8	182.6						
G56.0	185.8	181.3	175.6						
G57.0	180.3	175.1	169.6						
G58.0	174.3	169.6	164.0						
G59.0	167.9	162.6	158.0						
G60.0	162.3	156.7	151.9						
G61.0	156.1	150.9	146.2						
G62.0	149.1	144.4	139.5						
G63.0	143.9	138.4	133.4						
G64.0	137.3	132.0	126.5						
G65.0	131.2	126.4	120.7						
G66.0	125.7	120.0	114.7						
G67.0	119.2	113.2	108.6						
G68.0	113.2	107.4	102.3						
G69.0	106.6	100.5	96.2						
G70.0	100.1	94.1	90.5						
G71.0	93.9	88.3	84.3						
G72.0	87.7	81.5	77.4						
G73.0	81.6	75.5	72.0						

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:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	75.4	69.6	66.2							
G75.0	69.2	63.3	59.8							
G76.0	63.1	57.5	53.9							
G77.0	57.1	51.3	48.0							
G78.0	51.3	45.7	42.4							
G79.0	45.6	40.3	37.1							
G80.0	39.3	34.3	31.5							
G81.0	34.3	29.4	27.0							
G82.0	28.2	24.5	22.6							
G83.0	22.5	19.3	18.0							
G84.0	17.6	15.4	14.2							
G85.0	12.8	11.4	9.6							
G86.0	8.9	8.0	5.5							
G87.0	5.4	4.2	1.2							
G88.0	2.4	0.8	0.3							
G89.0	0.7	0.5	0.3							
G90.0	0.5	0.5	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: