

Report No.:

Test Time: 2020-09-16 09:10

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-8D18CC-WH-3K

Voltage: 120.3 V

Current: 0.150 A

Power: 17.73 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1558.7 lm

Measurement Flux: 1558.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.0, 164.5, 164.5, 163.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.3, 119.4, 119.0, 119.3

Luminaire Efficacy Rating (LER): 87.96

Central Intensity: 503.75 cd

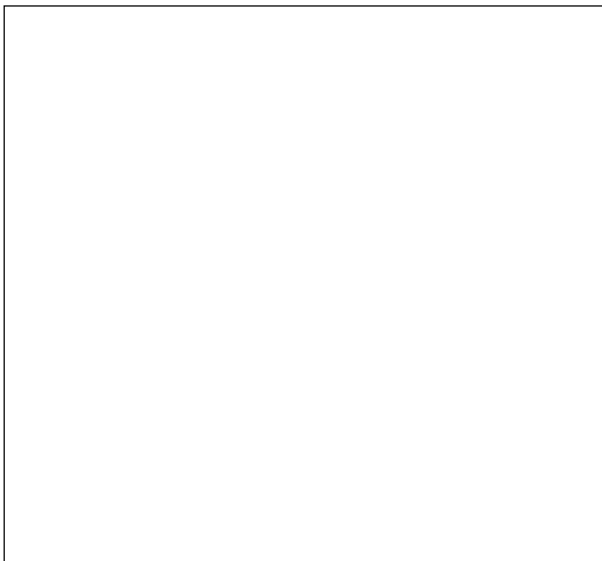
Max. Intensity: 506.62 cd

Pos of Max. Intensity: H180 V4

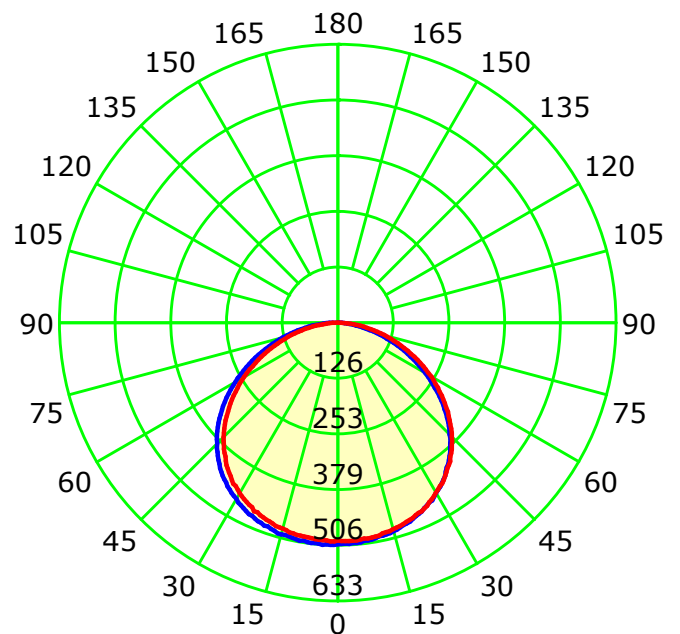
S/MH(C0/C180): 1.34

S/MH(C90/C270): 1.34

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

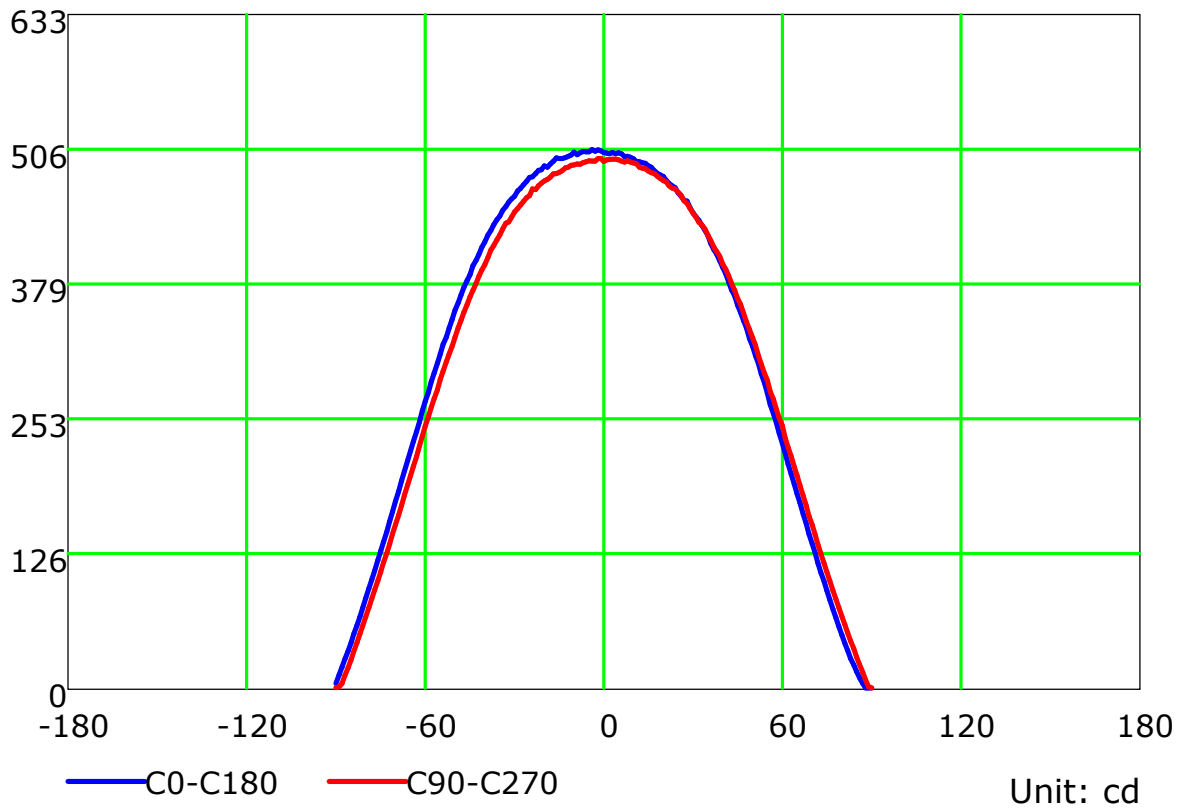
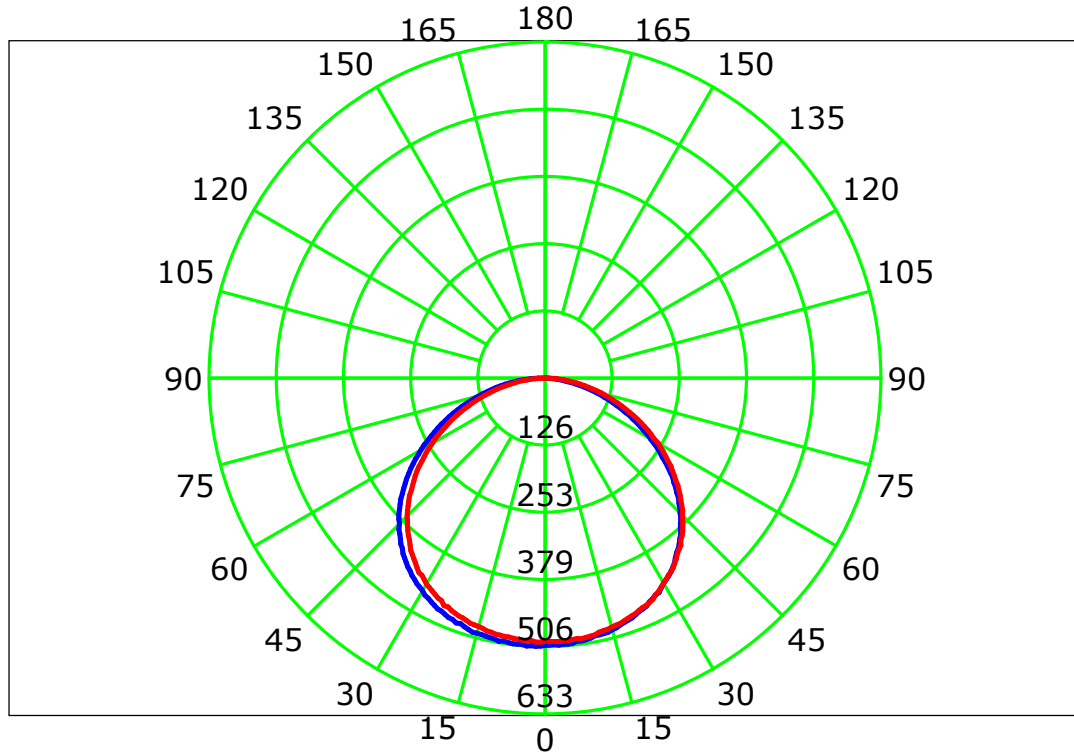
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

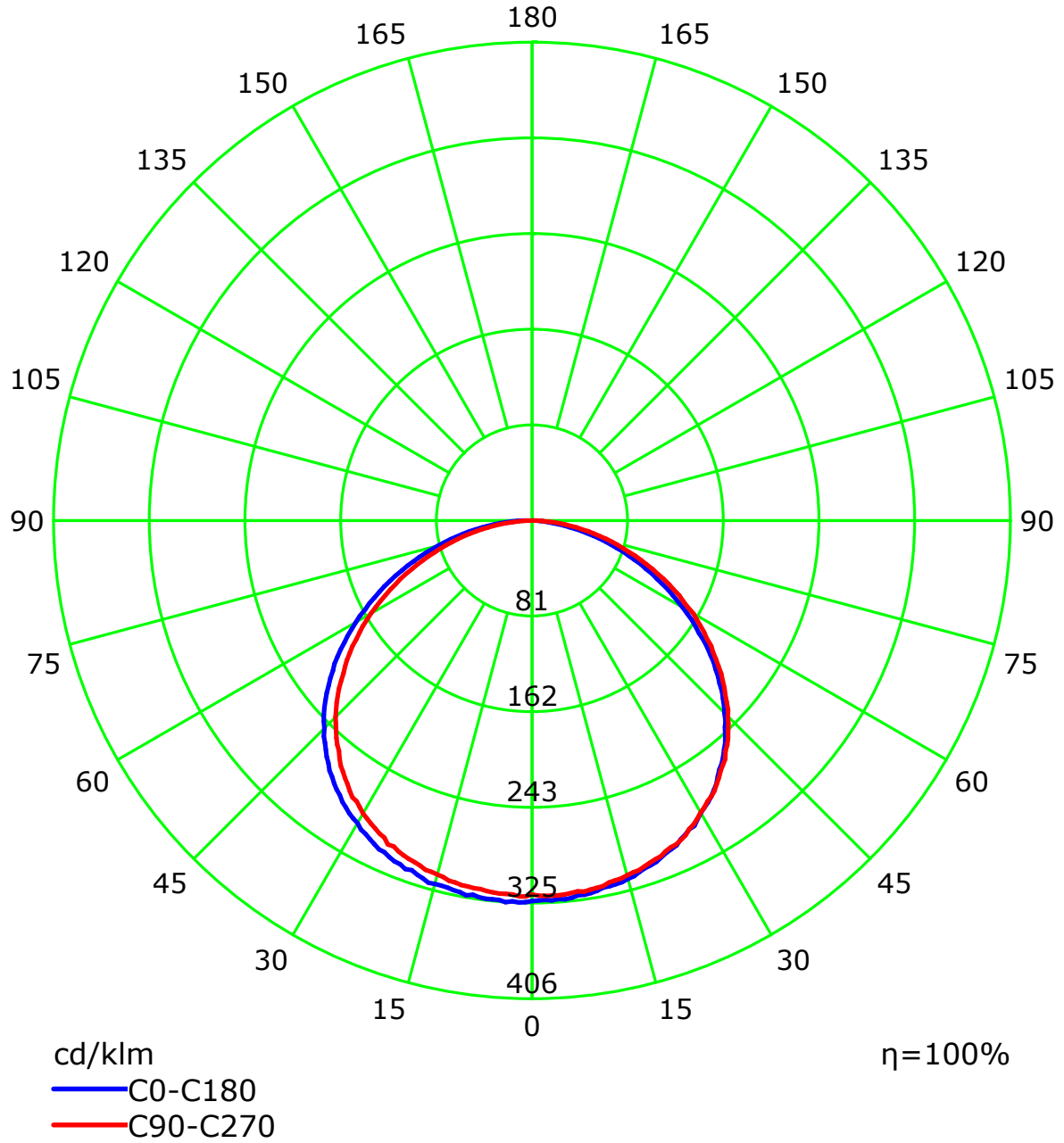


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

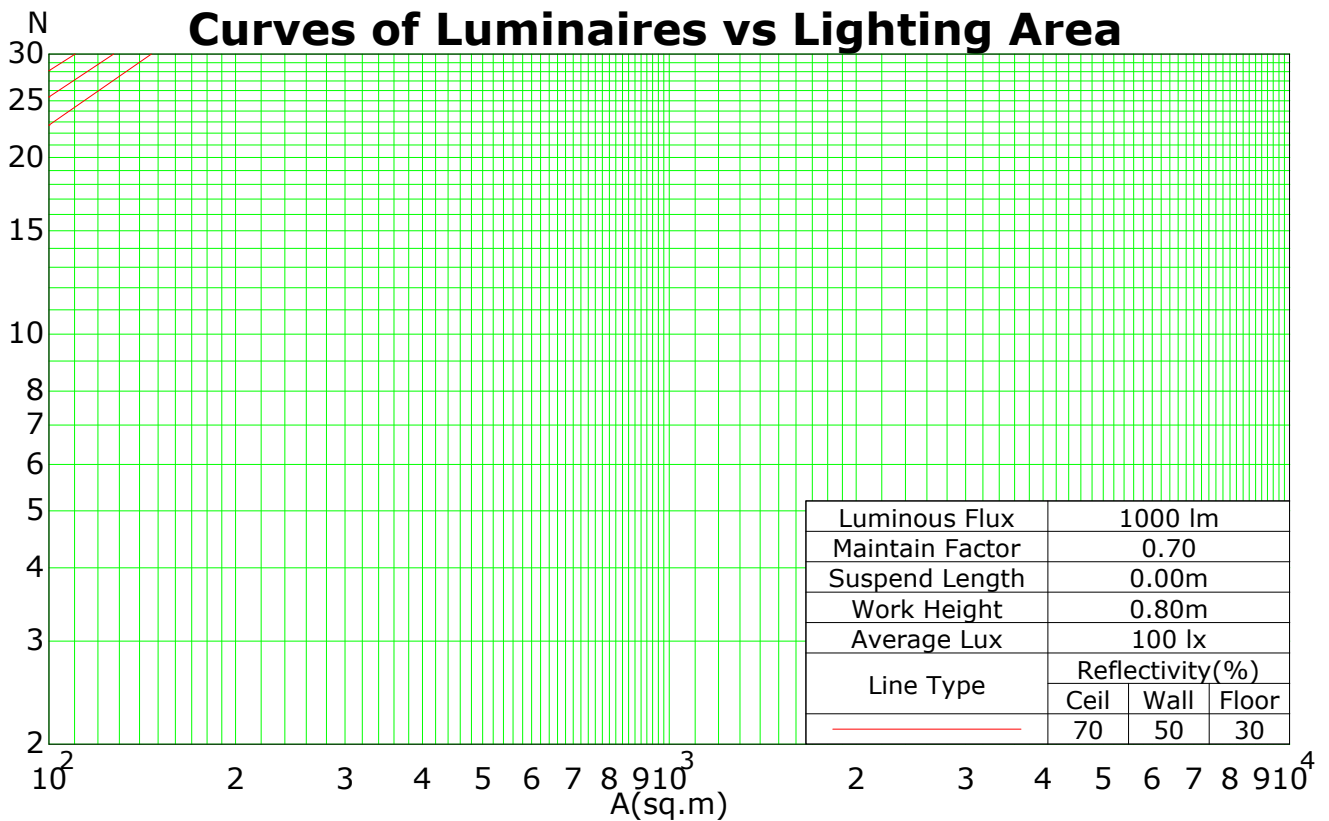
Humidity:

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

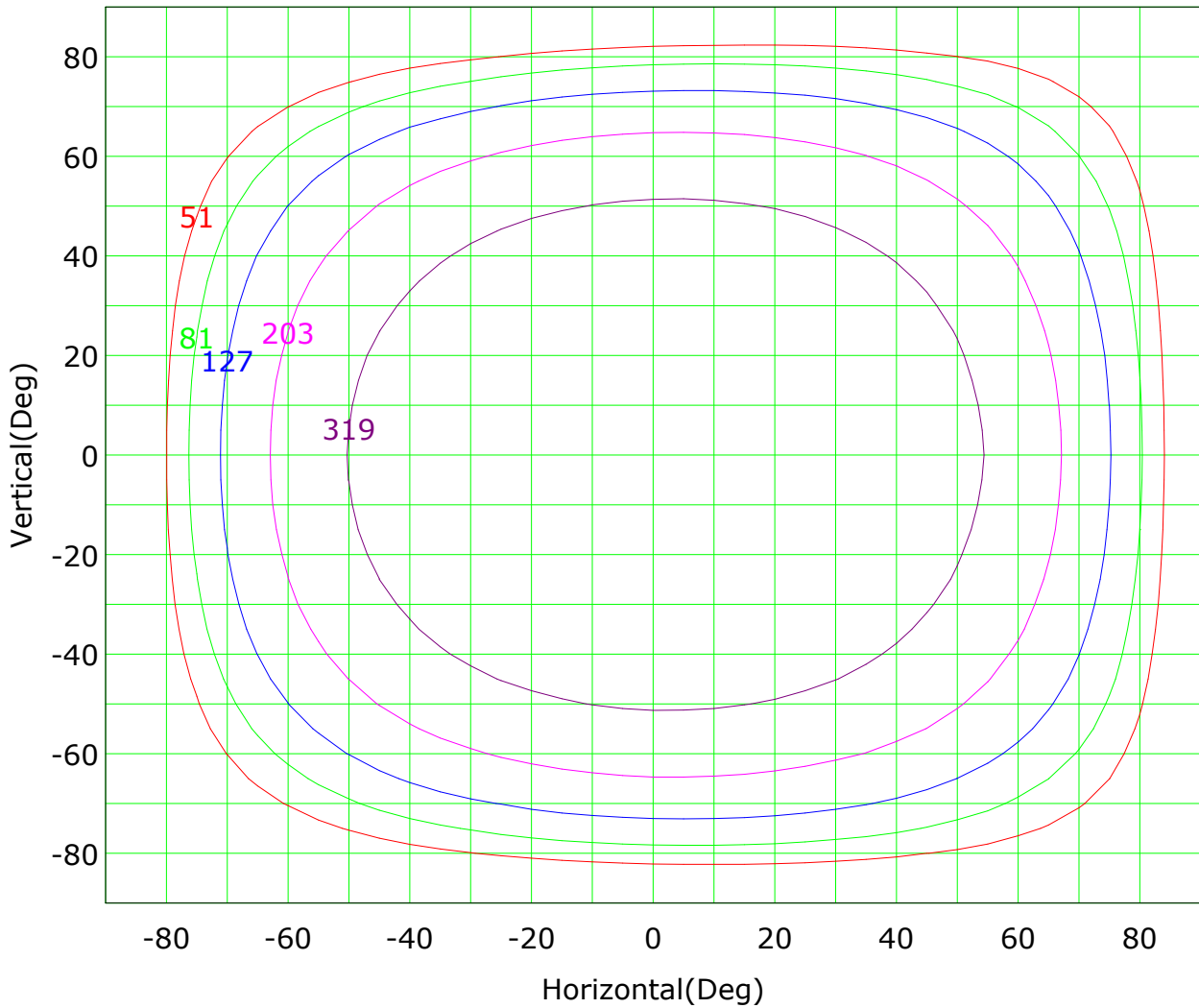
Spacing Criteria (0-180): 1.34
 Spacing Criteria (90-270): 1.34
 Spacing Criteria (Diagonal): 1.44



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%): 507 cd

- | | |
|------------------|------------------|
| — (10%): 51 cd | — (16%): 81 cd |
| — (25%): 127 cd | — (40%): 203 cd |
| — (63%): 319 cd | — (100%): 507 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

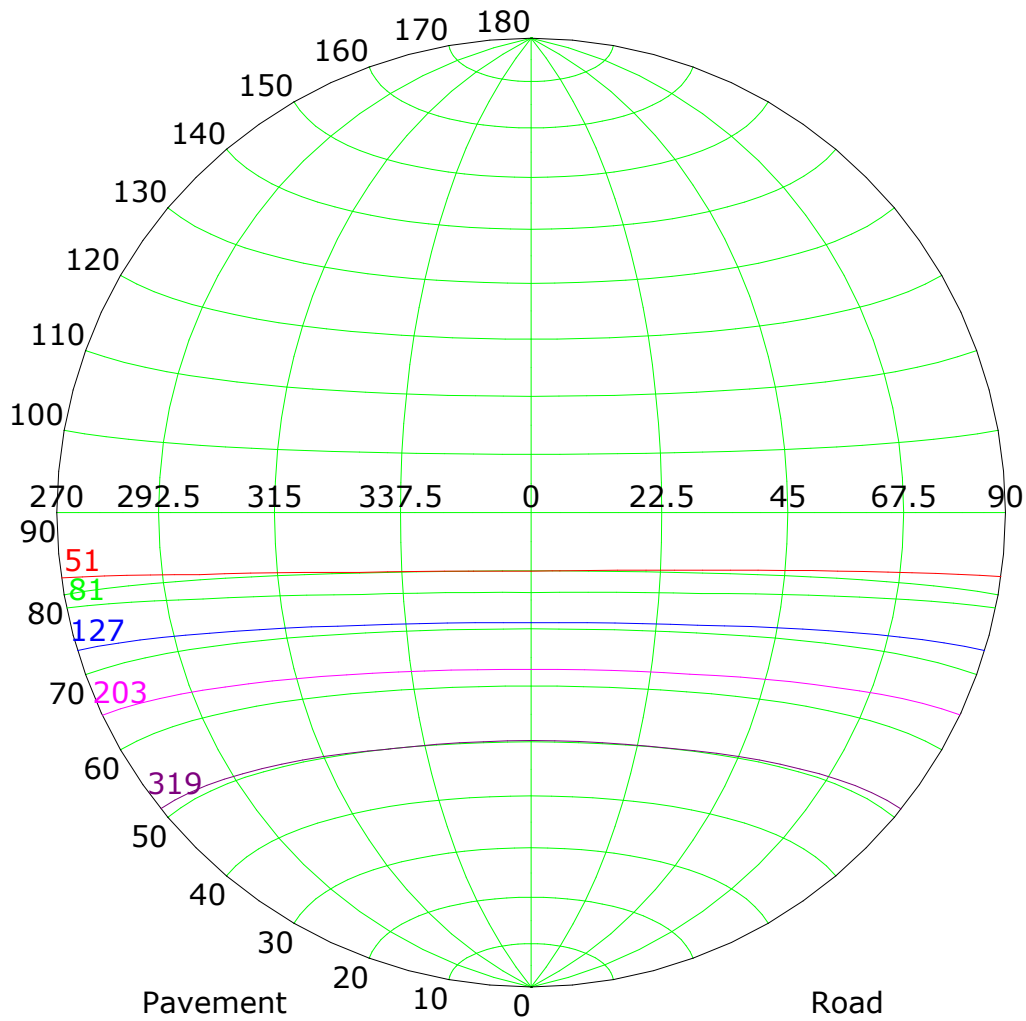
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 507 cd

— (10%):	51 cd	— (16%):	81 cd
— (25%):	127 cd	— (40%):	203 cd
— (63%):	319 cd	— (100%):	507 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

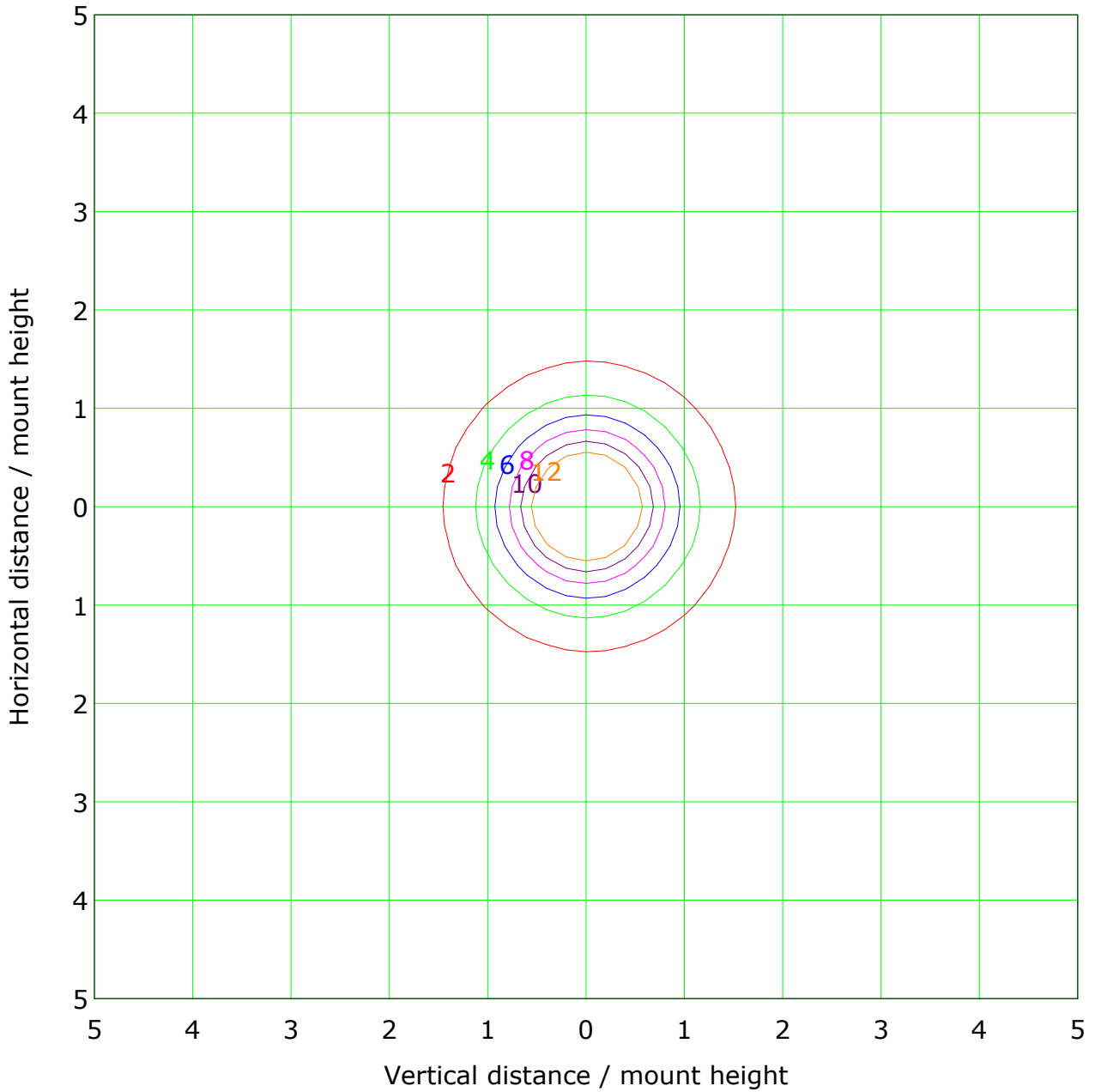
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 20.2 lx
<ul style="list-style-type: none"> — (10%): 2.0 lx — (30%): 6.1 lx — (50%): 10.1 lx — (100%): 20.2 lx 	<ul style="list-style-type: none"> — (20%): 4.0 lx — (40%): 8.1 lx — (60%): 12.1 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

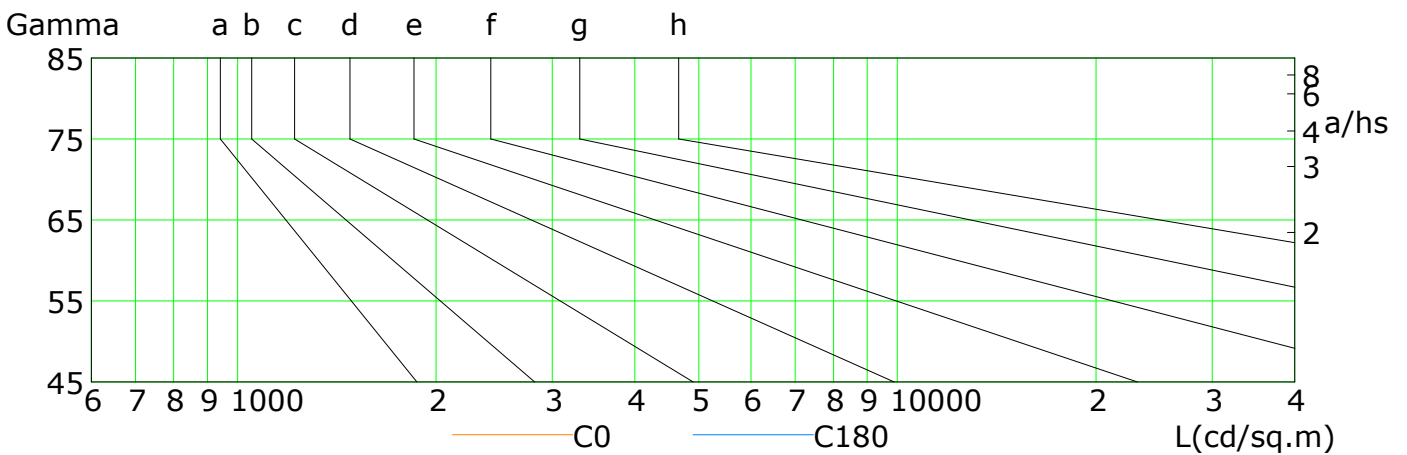
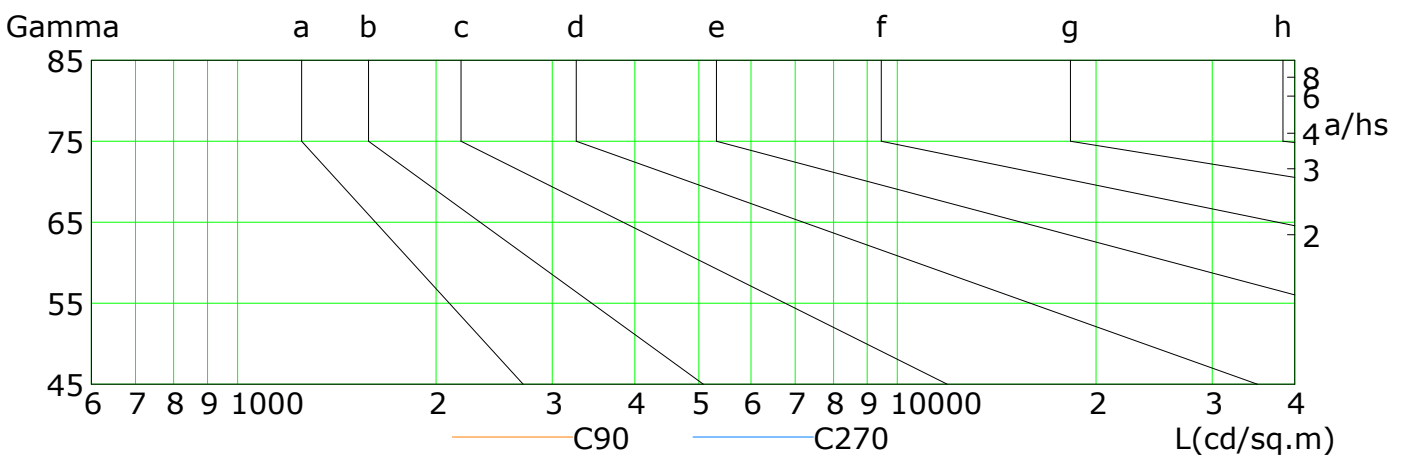
Humidity:

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	360	321	277	230	183	136	92	50	16
C90	367	330	290	247	200	154	109	68	29
C180	389	355	314	270	223	176	129	85	43
C270	368	330	290	246	200	154	110	67	27

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

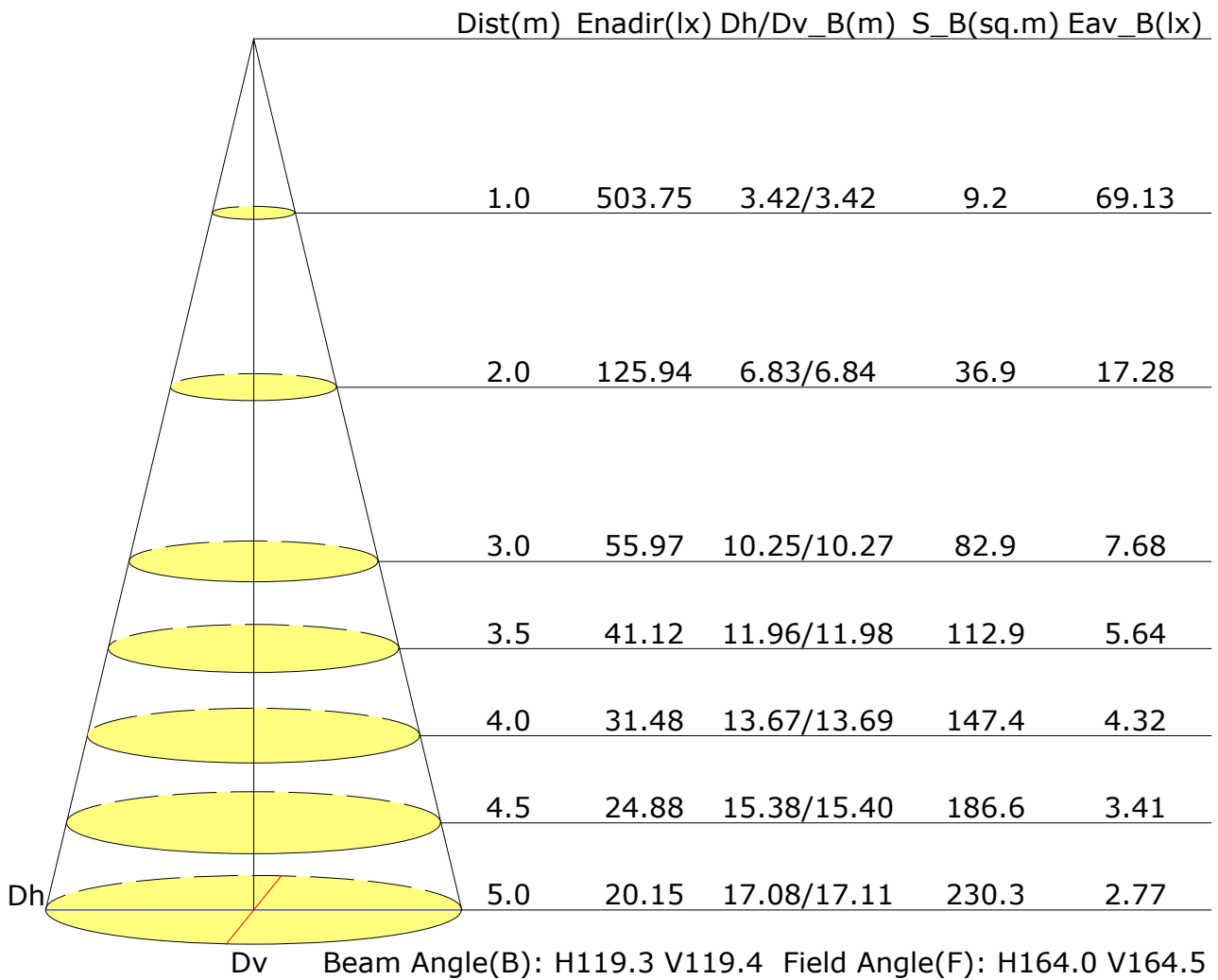
Test Device: GPM-1600L

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

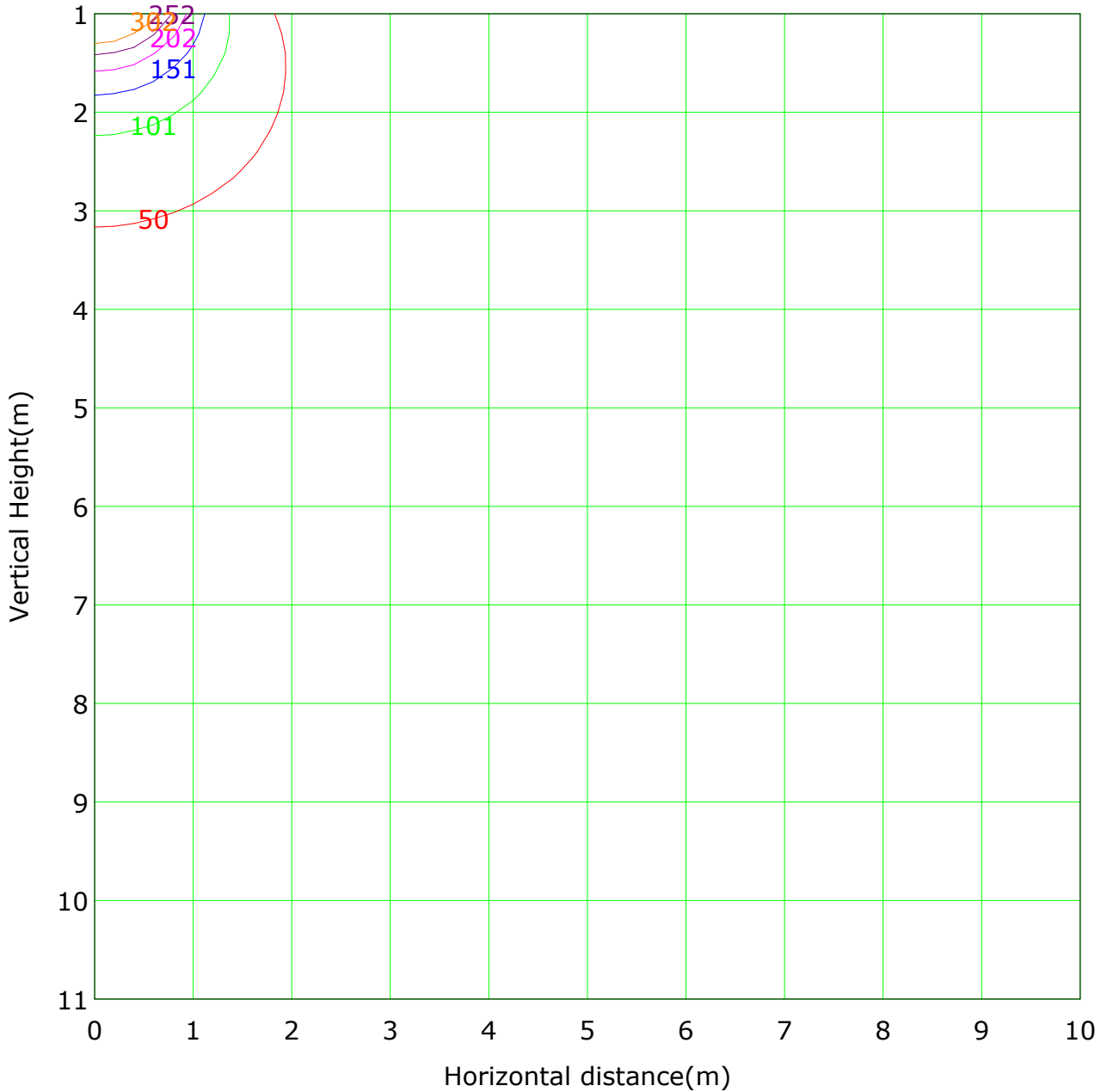
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 503.8 lx
— (10%): 50.4 lx	— (20%): 100.8 lx	
— (30%): 151.1 lx	— (40%): 201.5 lx	
— (50%): 251.9 lx	— (60%): 302.3 lx	
— (100%): 503.8 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	0.1	0.3	0.4	0.6	0.8	0.9	0.9	0.9	0.8	0.7	0.5	0.4	0.3	0.1	0.1	0.0	0.0	7.8	1.9		
-80	0.0	0.3	0.7	1.2	1.8	2.4	2.9	3.2	3.4	3.3	2.9	2.4	1.9	1.3	0.7	0.3	0.1	0.0	28.8	26.8		
-70	0.1	0.4	1.1	2.0	3.1	4.2	5.1	5.8	6.1	6.0	5.5	4.6	3.6	2.5	1.5	0.7	0.2	0.0	52.5	51.8		
-60	0.1	0.6	1.5	2.9	4.4	6.0	7.3	8.3	8.8	8.7	8.0	6.8	5.4	3.8	2.3	1.1	0.3	0.0	76.2	75.9		
-50	0.1	0.7	1.9	3.6	5.6	7.6	9.3	10.5	11.1	11.0	10.2	8.8	7.0	5.0	3.1	1.5	0.5	0.0	97.7	97.5		
-40	0.1	0.8	2.3	4.3	6.7	9.0	10.9	12.3	12.9	12.8	12.0	10.5	8.4	6.0	3.7	1.8	0.6	0.1	115.0	114.9		
-30	0.1	0.9	2.6	4.9	7.5	10.0	12.0	13.4	14.1	13.9	13.1	11.6	9.4	6.9	4.3	2.1	0.7	0.1	127.4	127.3		
-20	0.1	1.0	2.8	5.2	8.0	10.6	12.7	14.1	14.7	14.6	13.8	12.3	10.1	7.4	4.6	2.3	0.7	0.1	135.2	135.1		
-10	0.1	1.1	2.9	5.5	8.3	11.0	13.1	14.5	15.1	14.9	14.2	12.7	10.5	7.7	4.8	2.4	0.8	0.1	139.6	139.5		
0	0.1	1.0	2.9	5.4	8.3	11.0	13.0	14.4	15.0	15.1	14.3	12.8	10.5	7.7	4.8	2.4	0.8	0.1	139.6	139.5		
10	0.1	1.0	2.8	5.2	8.0	10.5	12.6	14.0	14.7	14.7	13.9	12.4	10.1	7.4	4.6	2.3	0.7	0.1	135.2	135.1		
20	0.1	0.9	2.6	4.8	7.4	9.9	11.9	13.3	14.0	14.0	13.2	11.6	9.4	6.9	4.3	2.1	0.7	0.1	127.2	127.1		
30	0.1	0.8	2.3	4.3	6.6	8.9	10.8	12.2	12.9	12.8	12.0	10.5	8.4	6.0	3.7	1.8	0.6	0.1	114.6	114.4		
40	0.1	0.7	1.9	3.6	5.5	7.5	9.2	10.5	11.1	11.0	10.2	8.8	7.0	5.0	3.0	1.5	0.5	0.0	97.2	97.0		
50	0.1	0.6	1.5	2.8	4.3	5.9	7.3	8.3	8.7	8.6	8.0	6.8	5.4	3.8	2.3	1.1	0.3	0.0	75.8	75.4		
60	0.1	0.4	1.1	2.0	3.0	4.1	5.0	5.7	6.0	6.0	5.5	4.6	3.6	2.5	1.5	0.7	0.2	0.0	52.1	51.5		
70	0.0	0.3	0.6	1.1	1.7	2.3	2.8	3.2	3.3	3.3	3.0	2.5	1.9	1.3	0.8	0.3	0.1	0.0	28.6	26.6		
80	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.6	0.4	0.3	0.1	0.1	0.0	0.0	7.9	1.9		
90	Flux(T)	1.8	11.8	31.7	59.6	91.4	122.2	147.8	165.4	173.7	172.3	161.2	141.0	113.6	81.8	50.4	24.5	7.7	0.7	1559		
	Flux(E)	0.9	10.8	30.7	58.6	90.3	121.1	146.7	164.3	172.6	171.2	160.1	139.9	112.4	80.7	49.2	23.3	6.2	0.0		1539	
		-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

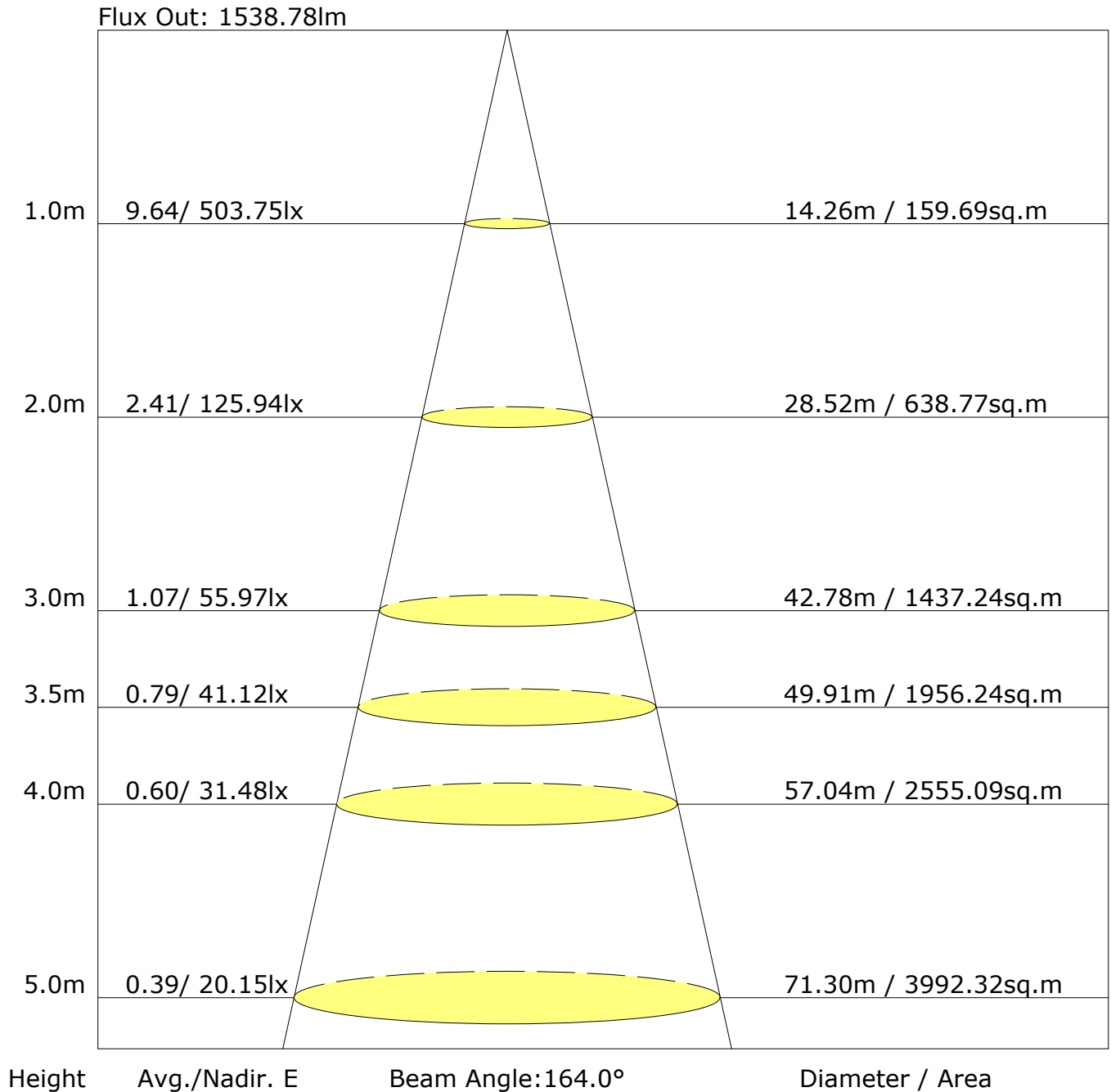
Test Lab:

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 1559lm ($8\log(F/F_0) = 1.5$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

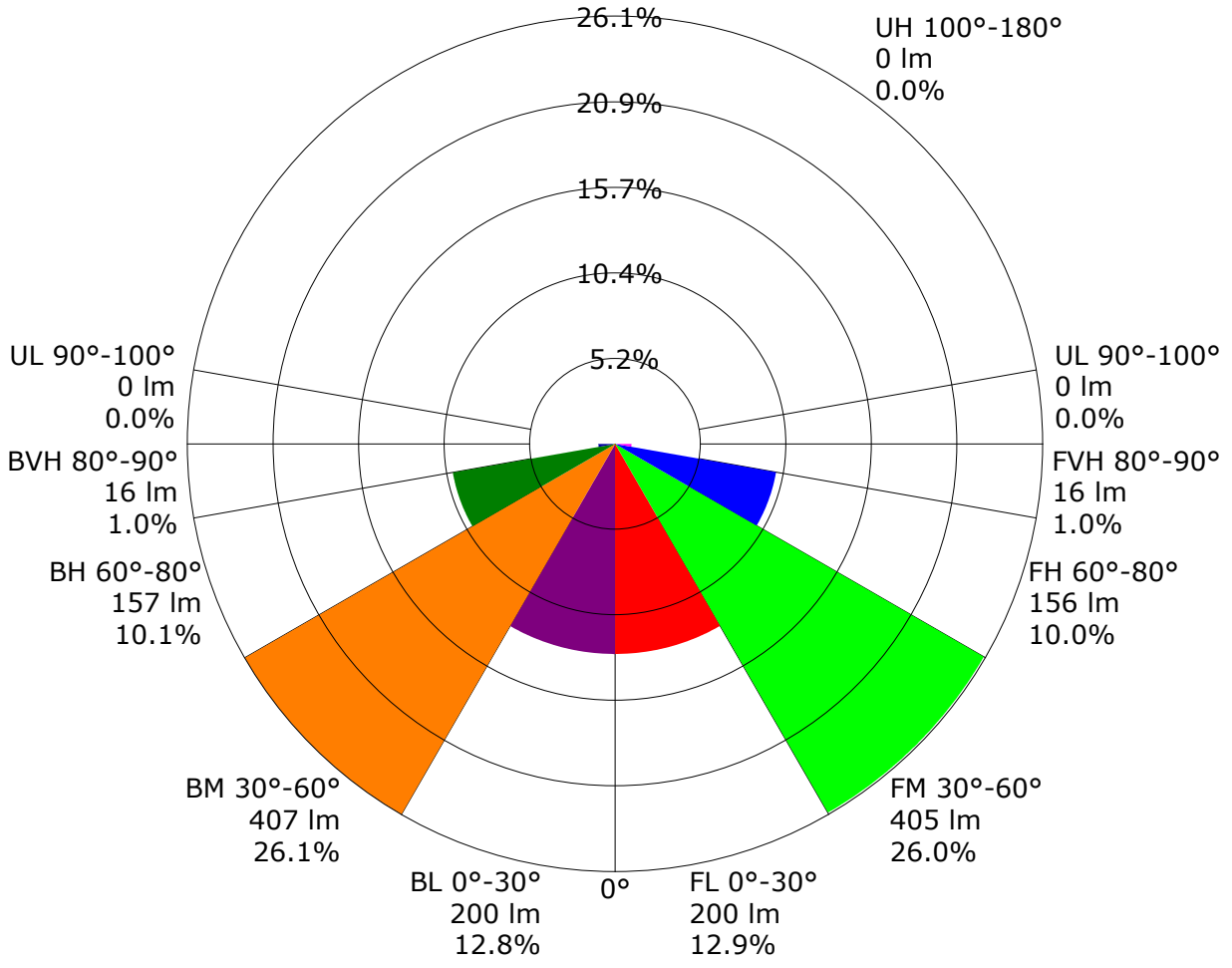
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	778	49.9
	FL (0°-30°)	200	12.9
	FM (30°-60°)	405	26.0
	FH (60°-80°)	156	10.0
	FVH (80°-90°)	16	1.0
	BACK LIGHT	780	50.1
	BL (0°-30°)	200	12.8
	BM (30°-60°)	407	26.1
	BH (60°-80°)	157	10.1
	BVH (80°-90°)	16	1.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	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



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

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 = 1.50									
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	0.59	0.67	0.75	0.80	0.88	0.92	0.96	1.00	1.03	
	0.30		0.51	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00	
	0.20		0.46	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.57	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.50	0.58	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.45	0.53	0.61	0.67	0.75	0.80	0.84	0.90	0.94	
0.30	0.50	0.20	0.56	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.50	0.57	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.45	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.91	
0.00	0.00	0.00	0.43	0.50	0.58	0.63	0.70	0.75	0.78	0.83	0.86	
<p>Rating:18W 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 = 1.50									
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	0.97	0.82	0.70	0.61	0.48	0.40	0.34	0.27	0.22	
	0.30		0.81	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.69	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.93	0.79	0.67	0.58	0.46	0.42	0.33	0.26	0.21	
	0.30		0.79	0.69	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.69	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.91	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20	
	0.30		0.77	0.67	0.57	0.50	0.41	0.34	0.30	0.23	0.19	
	0.20		0.68	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.57	0.50	0.43	0.38	0.30	0.26	0.22	0.17	0.14	
<p>Rating:18W 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 = 1.50								
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	0.16	0.18	0.18	0.19	0.20	0.21	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:18W 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	498.2	0.5	0.5	0.03	0.03
1.0-2.0	498.8	1.4	1.9	0.09	0.12
2.0-3.0	498.7	2.4	4.3	0.15	0.28
3.0-4.0	498.2	3.3	7.6	0.21	0.49
4.0-5.0	497.9	4.3	11.9	0.27	0.76
5.0-6.0	497.6	5.2	17.1	0.34	1.10
6.0-7.0	496.7	6.2	23.3	0.40	1.50
7.0-8.0	496.2	7.1	30.4	0.46	1.95
8.0-9.0	495.6	8.0	38.4	0.52	2.47
9.0-10.0	494.6	9.0	47.4	0.57	3.04
10.0-11.0	493.8	9.9	57.3	0.63	3.67
11.0-12.0	492.7	10.8	68.0	0.69	4.37
12.0-13.0	491.6	11.7	79.7	0.75	5.11
13.0-14.0	490.2	12.5	92.3	0.81	5.92
14.0-15.0	488.8	13.4	105.7	0.86	6.78
15.0-16.0	487.4	14.3	120.0	0.92	7.70
16.0-17.0	485.8	15.1	135.1	0.97	8.67
17.0-18.0	483.9	16.0	151.0	1.02	9.69
18.0-19.0	481.7	16.8	167.8	1.08	10.77
19.0-20.0	479.8	17.6	185.4	1.13	11.89
20.0-21.0	477.9	18.4	203.7	1.18	13.07
21.0-22.0	475.8	19.1	222.8	1.23	14.30
22.0-23.0	473.3	19.9	242.7	1.27	15.57
23.0-24.0	470.8	20.6	263.3	1.32	16.89
24.0-25.0	468.2	21.3	284.6	1.37	18.26
25.0-26.0	465.1	22.0	306.5	1.41	19.67
26.0-27.0	461.8	22.6	329.1	1.45	21.12
27.0-28.0	458.7	23.2	352.4	1.49	22.61
28.0-29.0	455.5	23.8	376.2	1.53	24.14
29.0-30.0	451.5	24.4	400.6	1.56	25.70
30.0-31.0	447.5	24.9	425.5	1.60	27.30
31.0-32.0	443.7	25.4	450.9	1.63	28.93
32.0-33.0	439.8	25.9	476.8	1.66	30.59
33.0-34.0	435.8	26.4	503.2	1.69	32.29
34.0-35.0	431.1	26.8	530.0	1.72	34.00
35.0-36.0	425.9	27.1	557.1	1.74	35.74

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	420.8	27.4	584.6	1.76	37.50
37.0-38.0	415.7	27.7	612.3	1.78	39.28
38.0-39.0	410.5	28.0	640.3	1.80	41.08
39.0-40.0	404.6	28.2	668.5	1.81	42.89
40.0-41.0	398.5	28.4	696.9	1.82	44.71
41.0-42.0	392.7	28.5	725.5	1.83	46.54
42.0-43.0	386.3	28.6	754.1	1.84	48.38
43.0-44.0	379.8	28.7	782.7	1.84	50.22
44.0-45.0	373.0	28.7	811.4	1.84	52.06
45.0-46.0	366.1	28.6	840.1	1.84	53.90
46.0-47.0	359.1	28.6	868.6	1.83	55.73
47.0-48.0	351.5	28.4	897.0	1.82	57.55
48.0-49.0	343.8	28.2	925.3	1.81	59.36
49.0-50.0	336.1	28.0	953.3	1.80	61.16
50.0-51.0	328.0	27.8	981.1	1.78	62.94
51.0-52.0	319.8	27.4	1008.5	1.76	64.70
52.0-53.0	311.8	27.1	1035.6	1.74	66.44
53.0-54.0	303.5	26.8	1062.4	1.72	68.16
54.0-55.0	295.1	26.3	1088.7	1.69	69.85
55.0-56.0	286.1	25.9	1114.6	1.66	71.51
56.0-57.0	277.2	25.3	1139.9	1.63	73.13
57.0-58.0	268.7	24.9	1164.8	1.59	74.73
58.0-59.0	259.7	24.3	1189.1	1.56	76.29
59.0-60.0	250.9	23.7	1212.8	1.52	77.81
60.0-61.0	241.9	23.1	1235.9	1.48	79.29
61.0-62.0	232.2	22.4	1258.2	1.44	80.73
62.0-63.0	223.0	21.7	1279.9	1.39	82.12
63.0-64.0	213.8	21.0	1300.9	1.35	83.46
64.0-65.0	204.5	20.2	1321.1	1.30	84.76
65.0-66.0	195.6	19.5	1340.7	1.25	86.01
66.0-67.0	186.2	18.7	1359.4	1.20	87.21
67.0-68.0	176.8	17.9	1377.3	1.15	88.36
68.0-69.0	167.5	17.1	1394.4	1.10	89.46
69.0-70.0	158.3	16.3	1410.6	1.04	90.50
70.0-71.0	149.4	15.4	1426.1	0.99	91.49
71.0-72.0	140.2	14.6	1440.7	0.94	92.43

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	131.1	13.7	1454.4	0.88	93.31
73.0-74.0	122.2	12.8	1467.2	0.82	94.13
74.0-75.0	113.3	12.0	1479.2	0.77	94.90
75.0-76.0	104.6	11.1	1490.3	0.71	95.61
76.0-77.0	95.9	10.2	1500.5	0.66	96.27
77.0-78.0	87.2	9.3	1509.9	0.60	96.87
78.0-79.0	79.1	8.5	1518.4	0.55	97.42
79.0-80.0	70.8	7.6	1526.0	0.49	97.90
80.0-81.0	62.5	6.8	1532.8	0.43	98.34
81.0-82.0	54.7	5.9	1538.7	0.38	98.72
82.0-83.0	46.9	5.1	1543.8	0.33	99.05
83.0-84.0	39.5	4.3	1548.1	0.28	99.32
84.0-85.0	32.0	3.5	1551.6	0.22	99.55
85.0-86.0	24.8	2.7	1554.3	0.17	99.72
86.0-87.0	18.2	2.0	1556.3	0.13	99.85
87.0-88.0	11.7	1.3	1557.6	0.08	99.93
88.0-89.0	6.5	0.7	1558.3	0.05	99.98
89.0-90.0	3.3	0.4	1558.7	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	503.8	500.7	496.6	495.2	494.9	494.1	503.8	500.7	496.6	495.2
G1.0	503.2	502.7	496.7	496.8	495.8	496.4	505.3	501.5	499.9	497.9
G2.0	502.7	500.3	498.6	497.1	496.4	496.5	506.1	501.0	500.1	498.1
G3.0	503.9	499.6	497.9	497.4	497.6	495.5	505.0	501.4	500.0	495.8
G4.0	502.5	499.5	497.7	497.5	494.8	493.8	506.6	500.5	498.7	495.6
G5.0	503.4	498.1	497.2	496.9	496.4	495.5	504.3	500.6	498.5	495.9
G6.0	502.5	501.9	496.2	495.8	492.9	496.4	504.3	500.6	497.3	495.0
G7.0	499.8	499.1	495.6	494.7	493.7	493.1	504.7	499.6	496.7	494.2
G8.0	500.3	497.4	496.8	496.0	495.9	494.0	503.6	499.6	496.6	492.7
G9.0	499.4	494.5	495.7	494.6	491.8	494.0	501.7	498.6	496.6	493.0
G10.0	497.6	495.4	491.7	493.8	490.2	492.5	503.9	498.0	494.7	492.0
G11.0	495.1	495.3	493.0	493.2	491.7	490.1	501.3	497.5	496.3	491.8
G12.0	495.1	494.1	491.4	490.0	490.1	490.3	500.2	496.9	495.2	489.9
G13.0	494.1	491.7	489.0	488.9	489.3	489.6	498.9	495.2	491.7	489.4
G14.0	493.5	490.5	487.6	488.4	486.9	487.5	498.0	494.9	490.0	486.5
G15.0	491.1	489.2	485.0	486.2	486.8	487.4	498.2	493.2	490.8	485.0
G16.0	489.9	486.4	484.8	484.8	485.2	486.6	498.8	490.1	487.7	484.0
G17.0	486.5	485.4	483.6	483.9	485.6	483.6	495.3	490.5	488.1	483.5
G18.0	484.1	481.5	481.0	481.5	482.5	482.2	493.0	489.5	483.5	480.6
G19.0	482.8	480.4	478.5	479.4	480.1	479.9	489.8	487.5	483.8	478.4
G20.0	481.1	476.8	476.4	477.4	478.2	480.1	491.2	483.9	481.0	476.9
G21.0	477.7	476.6	475.2	476.0	475.9	476.3	487.5	482.2	481.1	474.8
G22.0	474.5	472.8	472.7	472.3	473.6	476.8	486.8	481.1	476.7	472.5
G23.0	472.5	470.9	469.1	470.2	472.5	472.5	484.0	476.8	475.3	468.8
G24.0	470.6	467.9	466.4	469.3	470.1	469.2	480.8	476.2	470.1	469.5
G25.0	465.8	465.0	464.7	466.5	468.1	468.9	480.3	472.1	469.4	463.1
G26.0	462.9	460.3	460.5	463.8	462.9	465.5	476.7	471.1	464.4	461.4
G27.0	458.8	457.0	456.8	458.4	459.2	461.1	473.2	468.6	463.6	457.8
G28.0	458.1	454.0	454.3	455.8	457.6	460.6	470.1	465.7	459.4	454.4
G29.0	452.2	449.3	450.4	451.3	455.1	456.2	467.8	460.7	458.3	451.2
G30.0	447.0	444.3	446.0	446.5	450.1	452.3	462.5	457.2	454.6	447.9
G31.0	443.4	441.0	441.9	442.9	444.5	450.6	460.1	453.5	449.4	443.0
G32.0	440.0	438.2	437.1	438.3	442.7	444.2	457.1	451.6	446.3	438.6
G33.0	435.5	432.0	431.6	435.7	439.5	441.0	452.8	446.4	442.0	437.2
G34.0	430.6	427.8	427.8	432.0	434.2	438.1	449.2	443.7	438.8	432.0
G35.0	425.8	422.2	421.8	426.2	429.8	432.5	444.0	438.6	432.2	426.1
G36.0	418.5	416.2	415.7	420.9	425.5	428.8	440.5	433.5	428.1	421.5

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 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	412.2	411.8	412.2	414.7	421.8	423.5	435.7	429.8	421.8	416.3
G38.0	408.0	405.6	406.2	410.4	415.3	419.3	430.5	422.5	418.1	412.0
G39.0	402.1	399.1	400.6	406.4	411.1	413.8	426.3	418.7	412.9	405.0
G40.0	395.5	393.7	395.6	398.6	403.2	406.8	419.4	414.0	407.2	398.0
G41.0	389.8	386.6	388.3	393.8	397.7	403.9	414.6	406.4	400.8	393.4
G42.0	382.1	380.6	382.2	387.9	391.3	397.8	408.2	401.9	395.5	387.5
G43.0	374.7	373.2	375.3	380.8	385.8	392.3	402.4	394.4	388.5	380.7
G44.0	368.9	366.5	368.8	374.1	380.5	384.9	397.1	389.8	383.5	374.2
G45.0	360.3	358.2	360.0	366.5	372.9	378.0	388.9	384.1	376.4	367.9
G46.0	353.7	352.9	354.0	361.0	366.2	371.6	383.4	376.1	368.8	360.8
G47.0	345.4	344.9	347.2	352.5	358.6	364.3	377.0	368.0	361.9	353.6
G48.0	338.7	335.1	339.4	344.3	351.3	357.0	369.9	360.4	353.7	346.1
G49.0	328.9	327.7	330.9	337.5	343.2	349.9	362.3	354.8	348.2	339.0
G50.0	321.5	319.6	323.1	329.6	335.8	342.5	355.3	346.2	340.0	329.8
G51.0	312.7	311.5	314.1	322.4	327.5	335.3	346.7	337.6	332.2	321.3
G52.0	305.5	303.1	305.8	312.8	321.0	326.9	338.8	330.4	322.9	314.5
G53.0	295.5	294.4	297.5	304.6	312.9	318.0	330.1	322.8	315.9	307.0
G54.0	287.0	284.6	289.9	296.2	304.2	310.9	323.4	315.4	307.0	298.3
G55.0	277.4	275.5	280.9	289.5	296.4	301.9	314.4	306.7	298.6	290.4
G56.0	266.8	266.5	270.8	279.1	287.0	294.0	305.6	296.6	289.2	280.6
G57.0	258.4	257.8	262.6	271.8	278.9	285.5	296.5	290.4	280.4	272.5
G58.0	249.7	248.8	254.3	262.6	271.5	276.4	288.4	279.7	270.8	264.4
G59.0	239.8	240.2	244.3	254.2	261.3	268.2	278.3	271.2	264.3	255.4
G60.0	230.4	231.4	235.8	246.8	253.4	259.0	269.8	263.0	255.6	246.4
G61.0	220.8	221.1	228.0	235.1	244.2	249.6	261.0	253.6	245.0	237.3
G62.0	210.8	211.1	217.4	226.4	233.4	240.1	250.5	243.5	236.4	227.8
G63.0	202.1	202.6	208.9	218.6	224.6	233.1	241.5	235.1	227.2	218.1
G64.0	192.1	193.5	198.6	208.4	215.1	222.2	232.0	225.2	217.8	208.7
G65.0	182.7	183.9	190.0	200.0	205.9	214.0	223.1	215.8	209.6	199.8
G66.0	174.5	174.7	181.7	190.4	198.0	205.0	214.2	206.9	199.8	191.2
G67.0	163.8	165.3	171.4	181.0	187.7	194.4	204.2	198.5	190.9	181.6
G68.0	155.4	155.5	162.6	172.4	178.6	185.7	195.2	188.7	181.6	172.0
G69.0	145.1	146.2	153.3	162.1	170.4	175.6	185.1	179.2	172.3	163.0
G70.0	136.2	138.1	144.7	153.9	160.7	166.9	175.7	170.2	163.3	153.9
G71.0	127.6	128.7	136.1	144.9	151.7	158.3	166.3	162.0	153.8	145.5
G72.0	117.8	119.8	126.3	135.1	142.4	148.8	157.3	151.1	144.9	135.9
G73.0	109.1	111.3	118.4	126.8	133.8	139.9	147.4	142.2	136.1	127.0

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 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	101.1	102.0	110.0	117.7	125.2	129.7	138.0	134.0	126.6	118.6
G75.0	91.8	93.8	101.1	109.5	116.1	120.7	129.1	124.5	118.0	109.7
G76.0	83.5	85.7	92.7	101.2	107.0	111.8	120.4	115.7	109.8	101.2
G77.0	74.5	77.2	83.9	91.9	97.6	102.9	110.6	107.1	100.5	92.4
G78.0	66.5	69.2	76.0	84.2	89.5	93.8	102.2	98.3	91.8	84.5
G79.0	58.5	61.7	68.1	76.4	81.3	86.3	93.9	90.0	84.1	76.0
G80.0	50.2	53.7	59.7	67.5	72.2	76.7	84.7	81.2	75.2	67.4
G81.0	42.6	46.5	52.6	60.0	64.3	68.9	76.1	73.4	67.7	59.0
G82.0	35.6	38.7	45.4	52.0	56.7	60.7	67.2	65.4	59.1	51.3
G83.0	28.2	31.8	37.7	44.7	48.2	52.7	59.5	57.0	51.2	43.0
G84.0	22.2	25.5	30.5	37.5	40.8	45.5	51.4	49.8	43.6	35.1
G85.0	15.7	18.6	22.8	29.4	33.2	37.5	42.6	41.6	35.4	26.7
G86.0	10.1	12.5	16.0	22.4	25.8	30.1	35.0	34.2	28.4	19.4
G87.0	4.6	6.8	9.2	15.2	19.3	22.4	27.6	26.7	21.0	12.3
G88.0	0.5	1.1	3.3	7.8	12.8	15.5	20.0	18.4	13.0	4.8
G89.0	0.4	0.5	0.6	1.5	7.0	9.8	12.9	11.6	6.6	1.6
G90.0	0.5	0.6	0.6	0.6	2.3	4.1	4.8	6.0	2.9	0.7

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:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	494.9	494.1	503.8						
G1.0	496.1	494.6	503.2						
G2.0	494.1	494.6	502.7						
G3.0	494.5	494.3	503.9						
G4.0	494.2	492.3	502.5						
G5.0	494.2	493.9	503.4						
G6.0	493.1	490.6	502.5						
G7.0	492.5	491.6	499.8						
G8.0	491.3	490.6	500.3						
G9.0	490.4	490.0	499.4						
G10.0	490.4	489.6	497.6						
G11.0	487.8	487.1	495.1						
G12.0	487.3	484.8	495.1						
G13.0	487.1	487.2	494.1						
G14.0	484.1	484.1	493.5						
G15.0	484.0	482.0	491.1						
G16.0	479.5	481.2	489.9						
G17.0	478.0	477.0	486.5						
G18.0	476.1	476.0	484.1						
G19.0	476.3	472.5	482.8						
G20.0	472.0	471.3	481.1						
G21.0	470.7	470.0	477.7						
G22.0	469.0	467.1	474.5						
G23.0	465.6	465.3	472.5						
G24.0	465.4	460.9	470.6						
G25.0	461.0	455.5	465.8						
G26.0	456.6	456.3	462.9						
G27.0	453.3	452.4	458.8						
G28.0	450.3	449.1	458.1						
G29.0	445.5	444.2	452.2						
G30.0	444.1	441.8	447.0						
G31.0	440.6	435.8	443.4						
G32.0	436.2	432.5	440.0						
G33.0	431.3	428.4	435.5						
G34.0	427.9	424.1	430.6						
G35.0	420.7	420.7	425.8						
G36.0	417.5	413.9	418.5						

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 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	410.0	408.4	412.2						
G38.0	406.1	403.7	408.0						
G39.0	399.7	397.6	402.1						
G40.0	395.3	389.2	395.5						
G41.0	388.6	384.5	389.8						
G42.0	381.6	378.6	382.1						
G43.0	374.8	372.0	374.7						
G44.0	367.5	364.1	368.9						
G45.0	361.5	358.1	360.3						
G46.0	354.2	349.8	353.7						
G47.0	346.3	345.1	345.4						
G48.0	339.5	336.2	338.7						
G49.0	330.9	327.2	328.9						
G50.0	323.4	319.1	321.5						
G51.0	314.6	310.4	312.7						
G52.0	305.9	301.5	305.5						
G53.0	298.6	295.6	295.5						
G54.0	290.0	284.9	287.0						
G55.0	281.2	277.0	277.4						
G56.0	271.9	267.1	266.8						
G57.0	263.9	258.0	258.4						
G58.0	254.3	250.7	249.7						
G59.0	244.9	239.9	239.8						
G60.0	237.3	231.8	230.4						
G61.0	227.0	222.1	220.8						
G62.0	217.8	212.7	210.8						
G63.0	209.0	203.0	202.1						
G64.0	199.0	194.1	192.1						
G65.0	190.4	185.4	182.7						
G66.0	181.4	175.6	174.5						
G67.0	171.5	165.6	163.8						
G68.0	162.4	156.6	155.4						
G69.0	153.0	147.7	145.1						
G70.0	144.2	138.1	136.2						
G71.0	135.8	130.0	127.6						
G72.0	126.1	119.8	117.8						
G73.0	117.4	110.8	109.1						

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	107.1	102.4	101.1						
G75.0	99.4	93.0	91.8						
G76.0	90.6	84.8	83.5						
G77.0	82.0	76.1	74.5						
G78.0	73.6	67.7	66.5						
G79.0	65.5	59.7	58.5						
G80.0	56.7	51.4	50.2						
G81.0	49.0	44.2	42.6						
G82.0	40.7	36.7	35.6						
G83.0	33.5	29.4	28.2						
G84.0	25.7	22.8	22.2						
G85.0	18.3	16.3	15.7						
G86.0	12.4	11.3	10.1						
G87.0	7.4	6.6	4.6						
G88.0	3.5	1.5	0.5						
G89.0	0.9	0.6	0.4						
G90.0	0.6	0.7	0.5						

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: