

Report No.:

Test Time: 2020-08-29 16:57

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-4D12CC-BZ-3K

Luminous Length (mm): 55

Luminous Width (mm): 55

Voltage: 120.3 V

Current: 0.098 A

Power: 11.53 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 714.0 lm

Measurement Flux: 714 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.8, 161.1, 161.9, 158.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.0, 116.2, 116.5, 116.1

Luminaire Efficacy Rating (LER): 61.98

Central Intensity: 241.47 cd

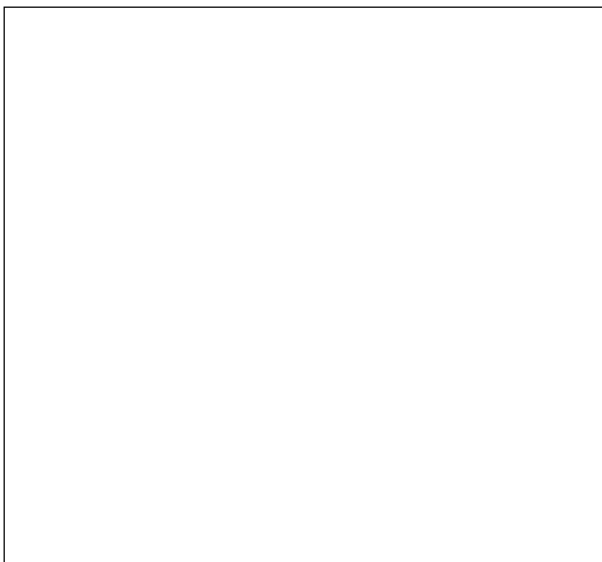
Max. Intensity: 243.17 cd

Pos of Max. Intensity: H180 V1

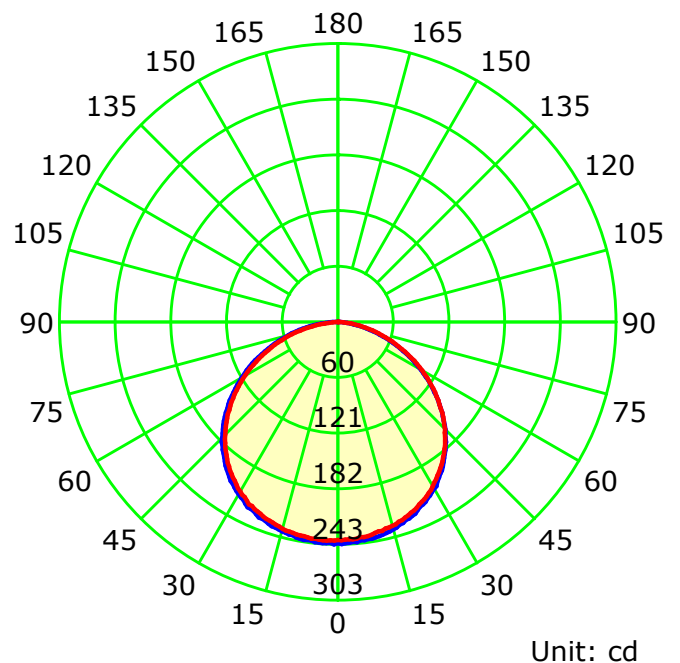
S/MH(C0/C180): 1.31

S/MH(C90/C270): 1.31

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

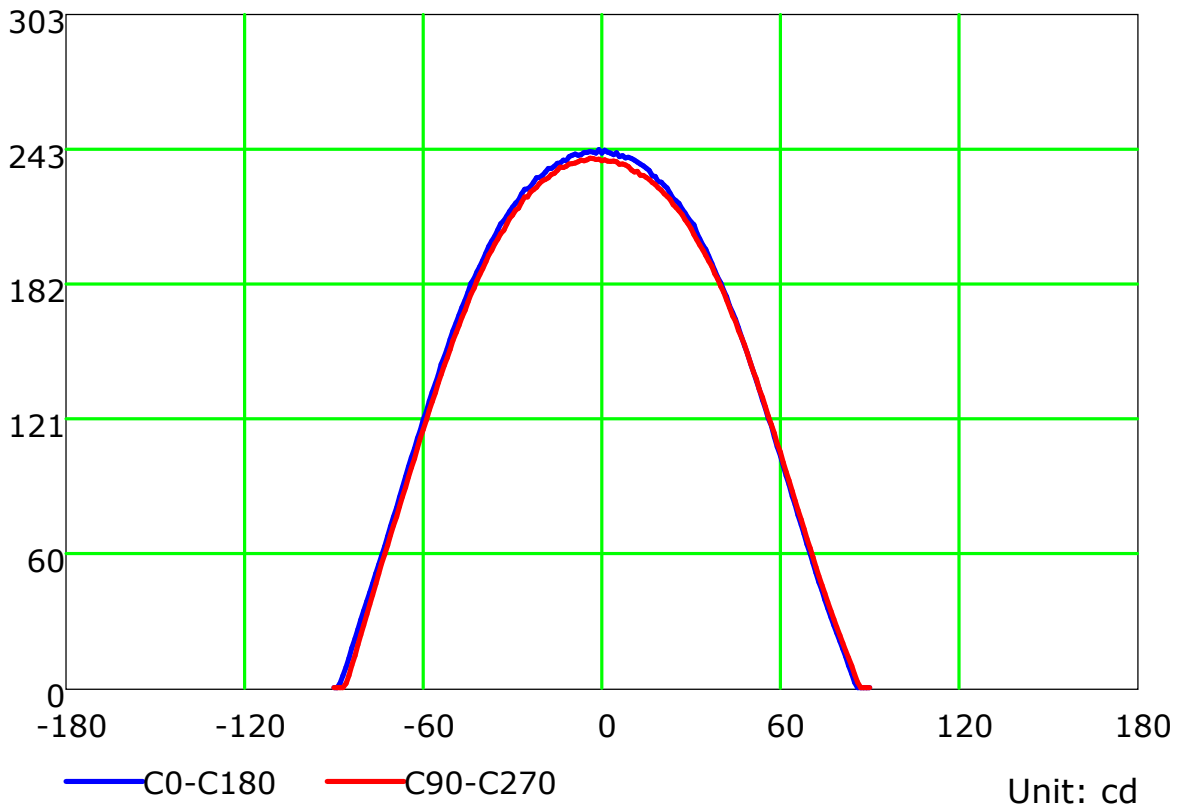
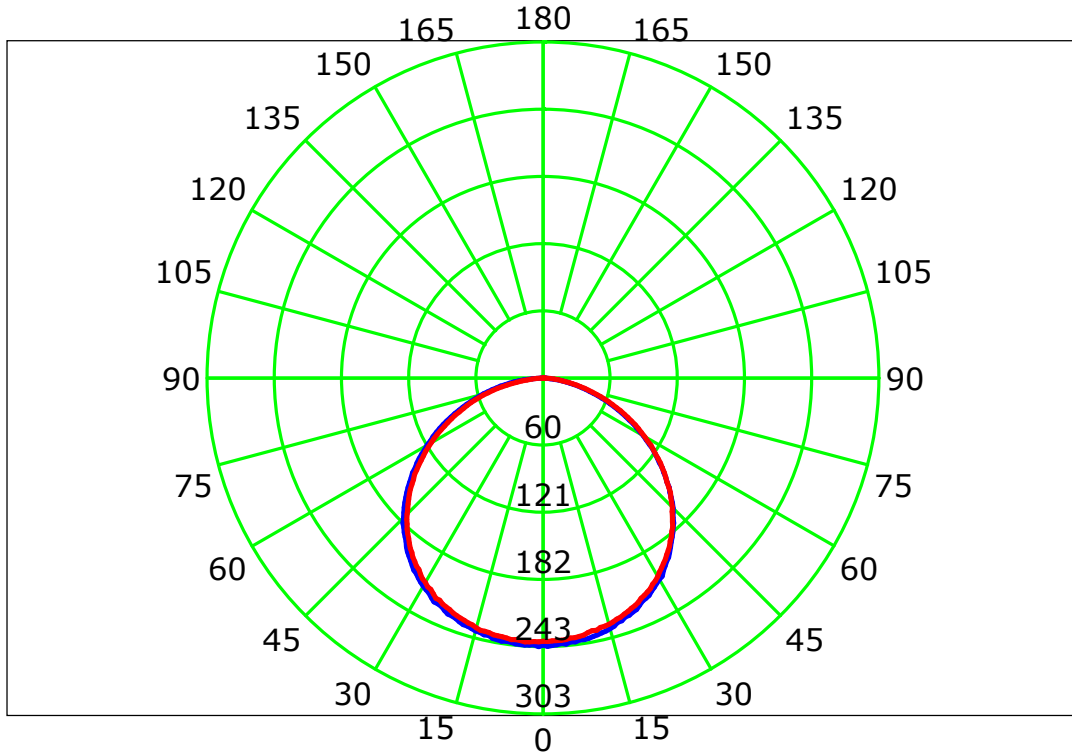
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

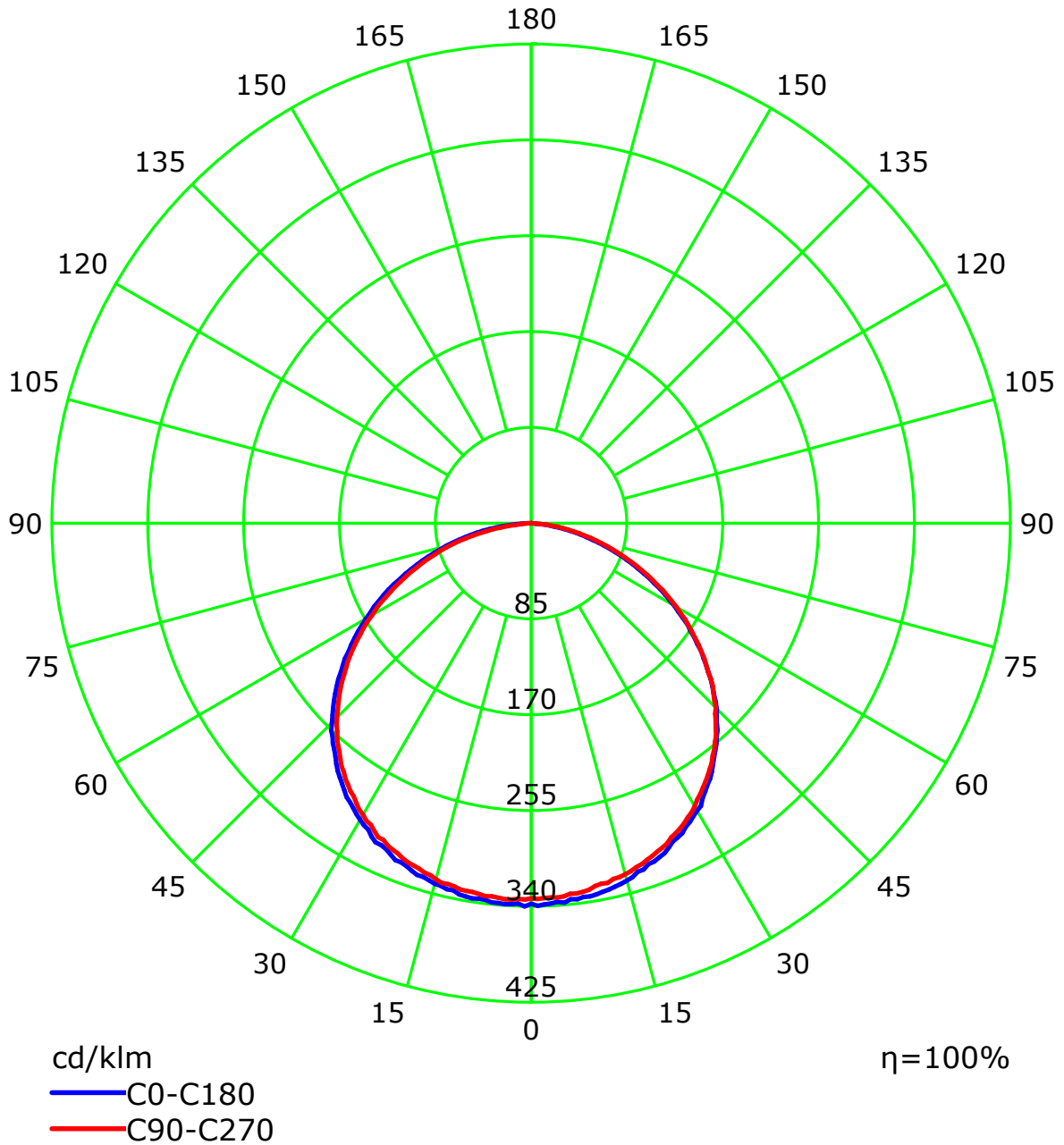


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

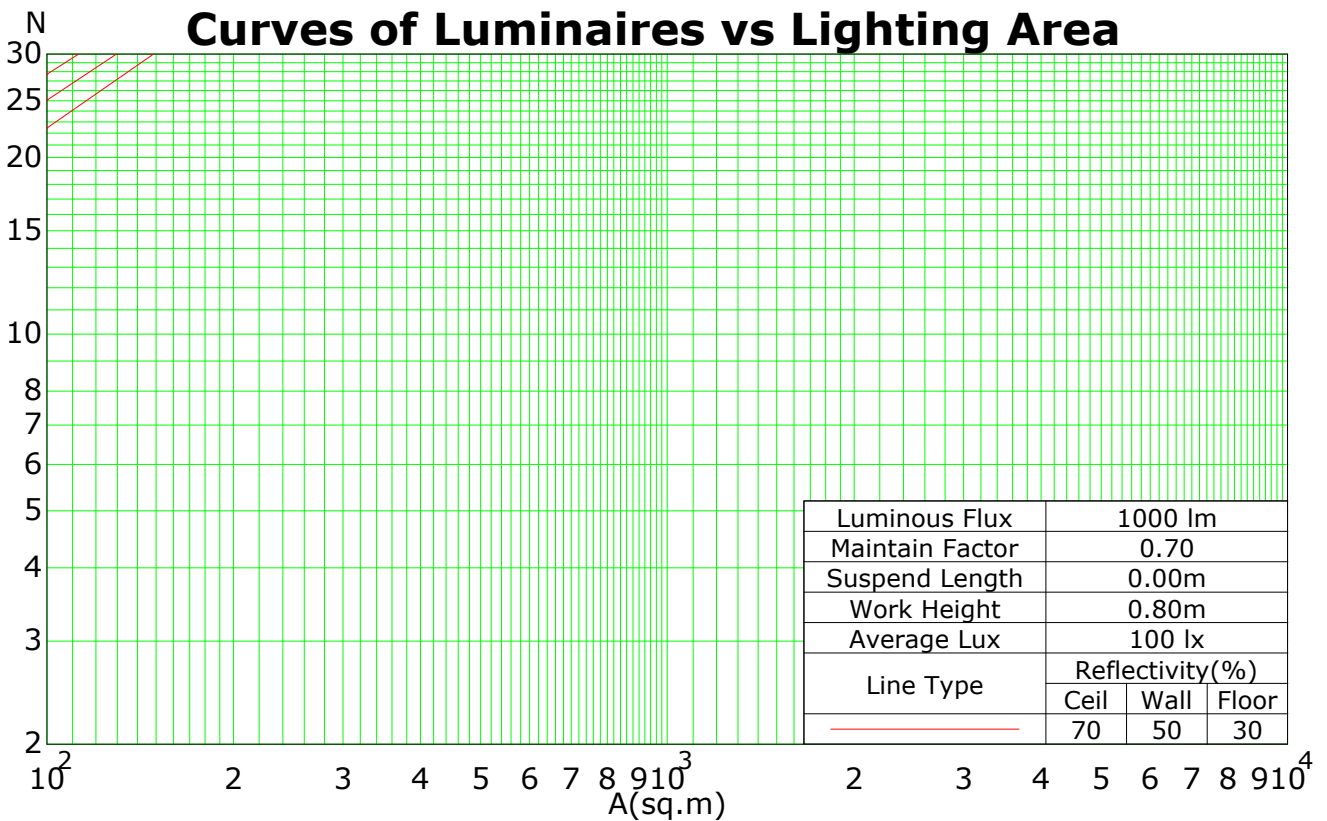
Humidity:

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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	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

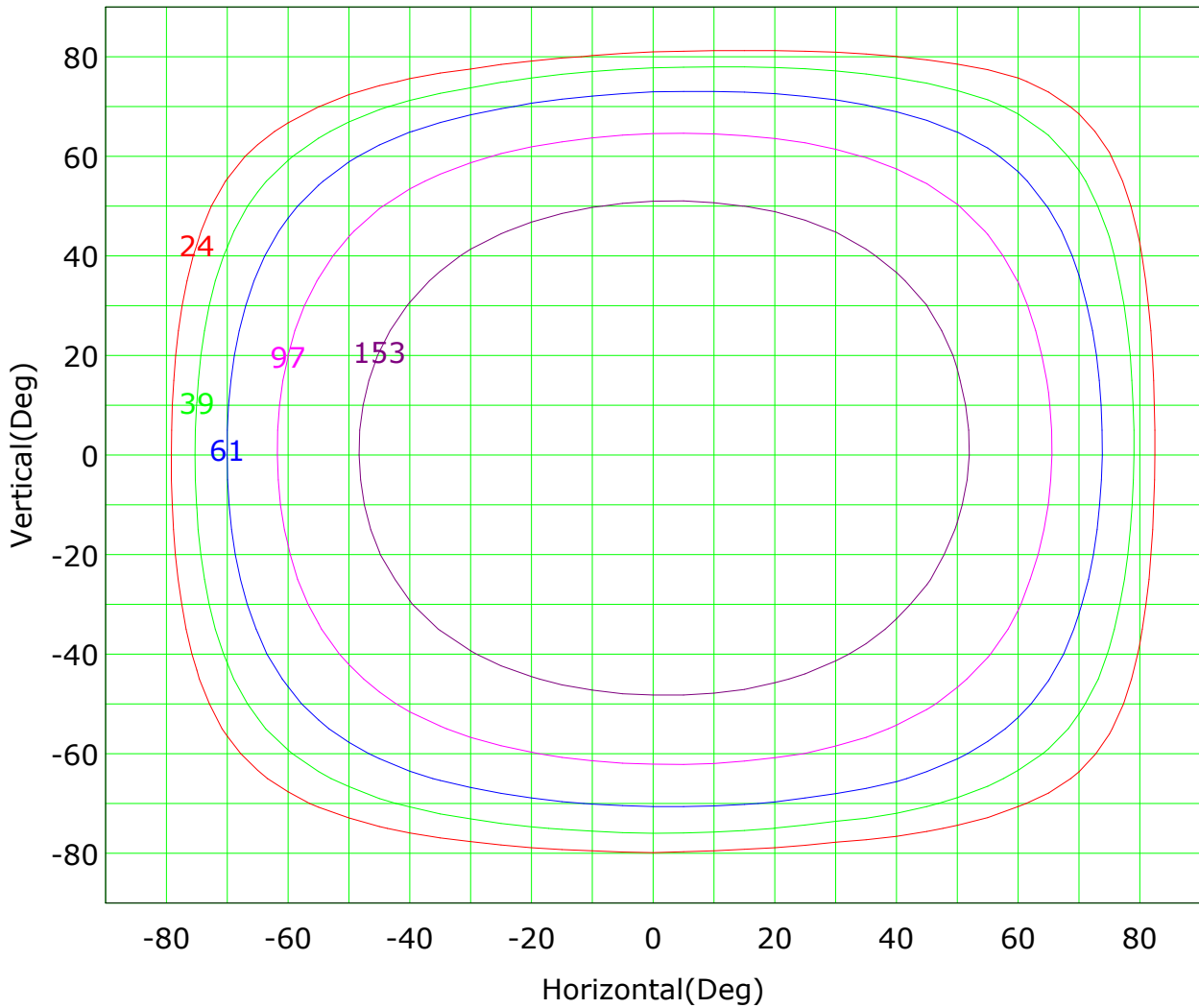
Spacing Criteria (0-180): 1.31
 Spacing Criteria (90-270): 1.31
 Spacing Criteria (Diagonal): 1.41



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%): 243 cd

— (10%):	24 cd	— (16%):	39 cd
— (25%):	61 cd	— (40%):	97 cd
— (63%):	153 cd	— (100%):	243 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

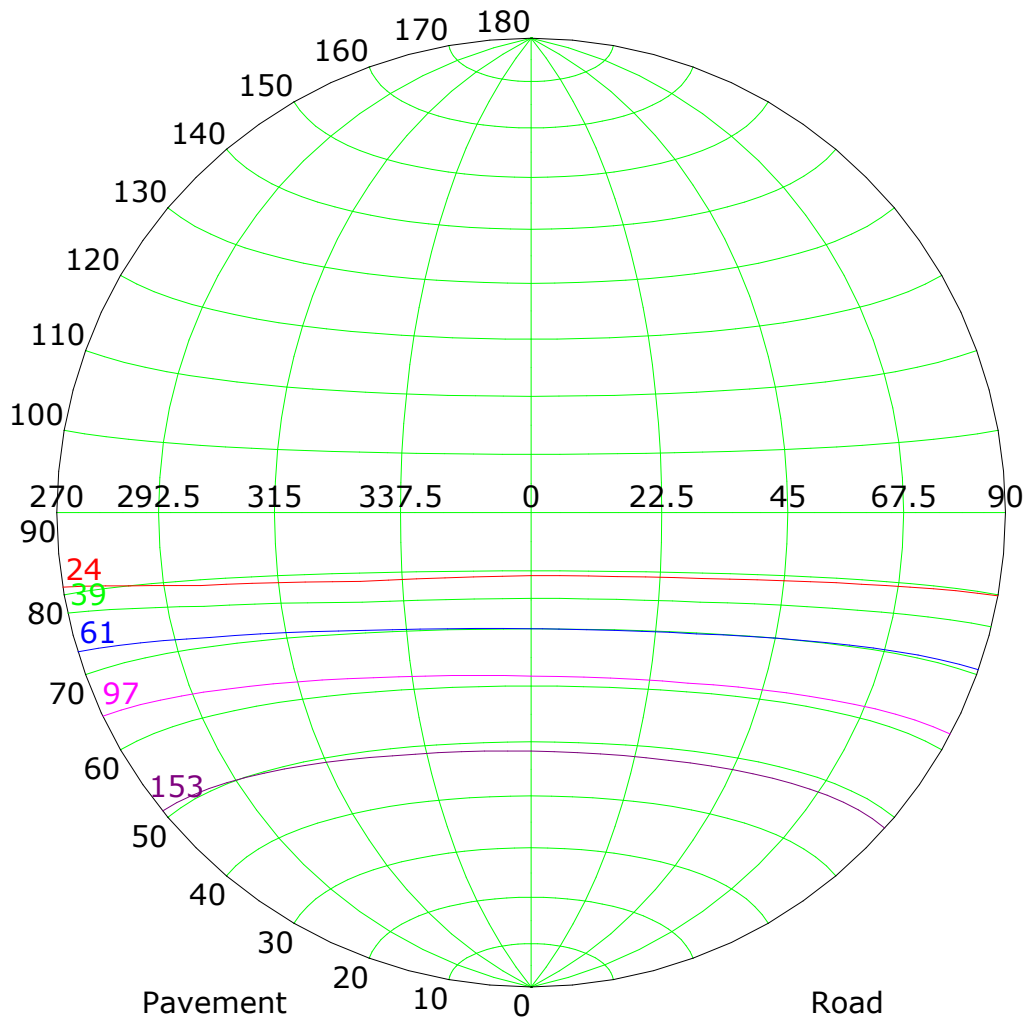
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 243 cd

— (10%):	24 cd	— (16%):	39 cd
— (25%):	61 cd	— (40%):	97 cd
— (63%):	153 cd	— (100%):	243 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

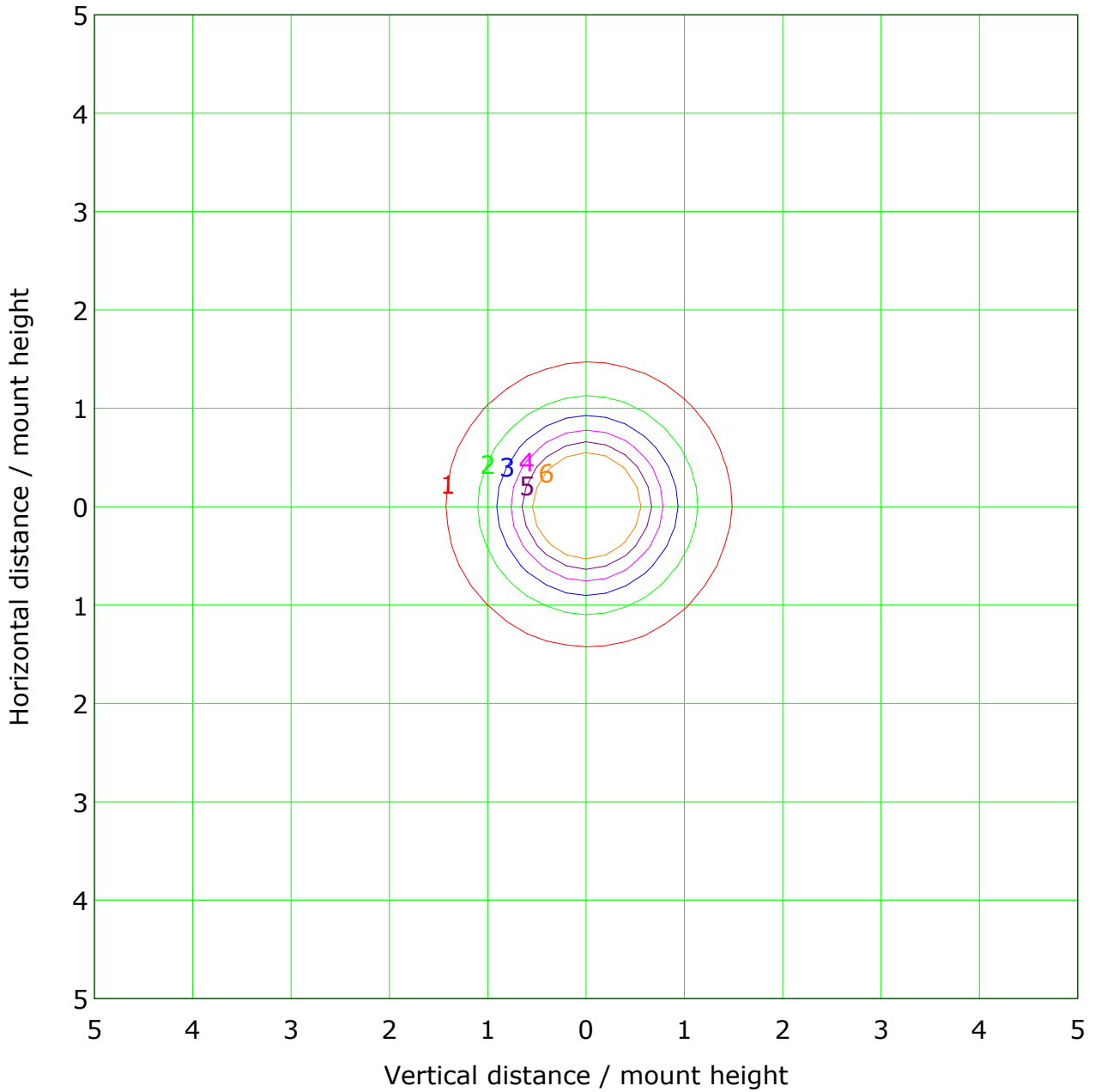
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 9.7 lx	
<ul style="list-style-type: none"> — (10%): 1.0 lx — (30%): 2.9 lx — (50%): 4.9 lx — (100%): 9.7 lx 	<ul style="list-style-type: none"> — (20%): 1.9 lx — (40%): 3.9 lx — (60%): 5.8 lx 		

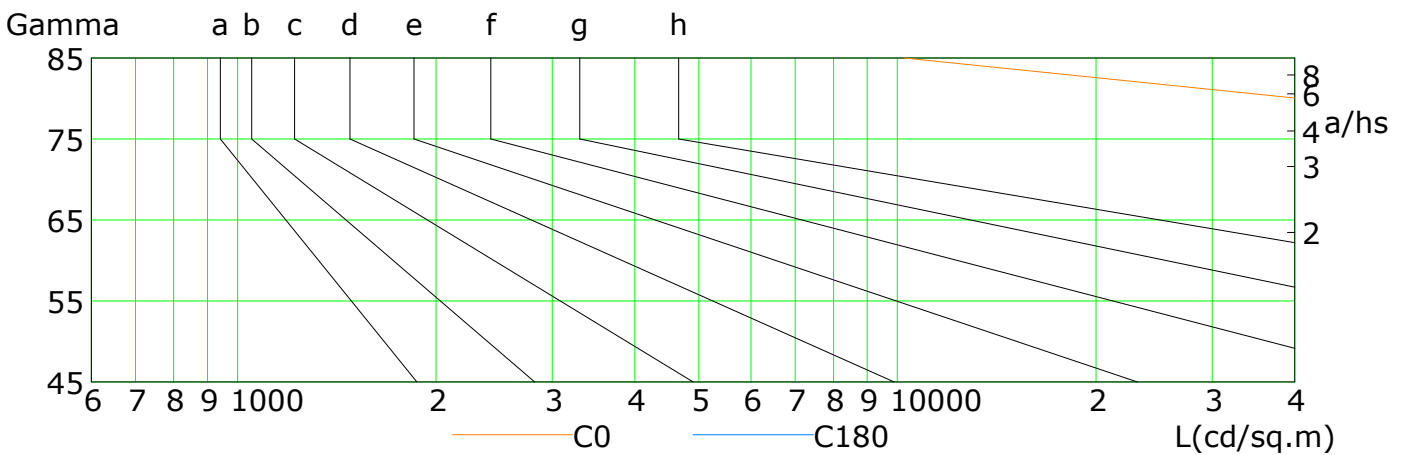
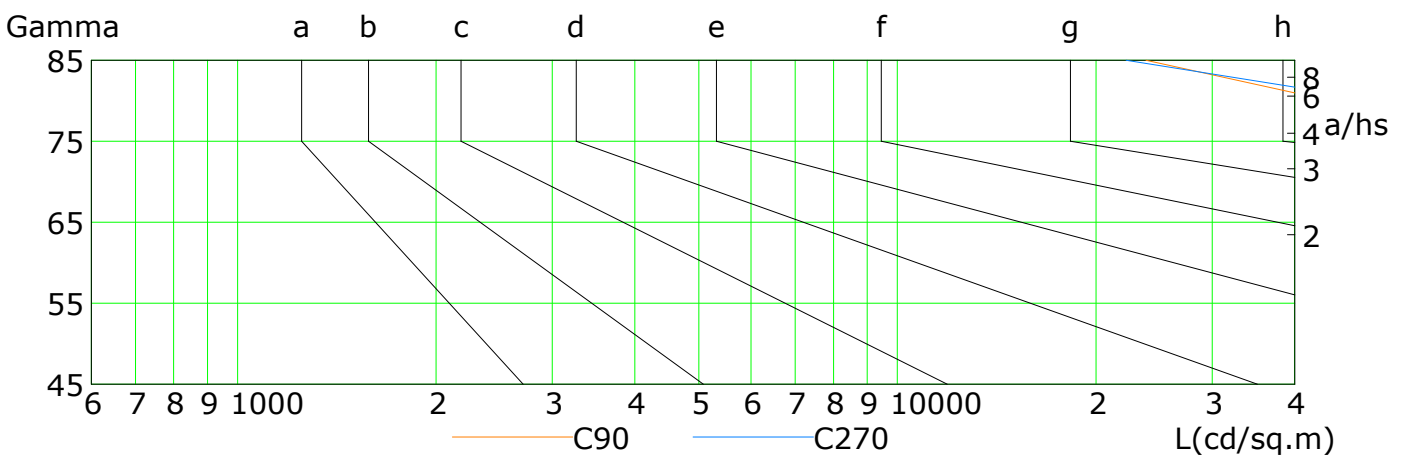
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

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	77831	75307	72821	69455	64885	58805	51078	40511	10241
C90	77424	75395	73259	70479	66285	61211	54718	45423	23820
C180	83516	82950	81397	80172	78182	74743	71348	66726	51812
C270	81491	80728	79409	77144	74616	70954	66136	54294	22227

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

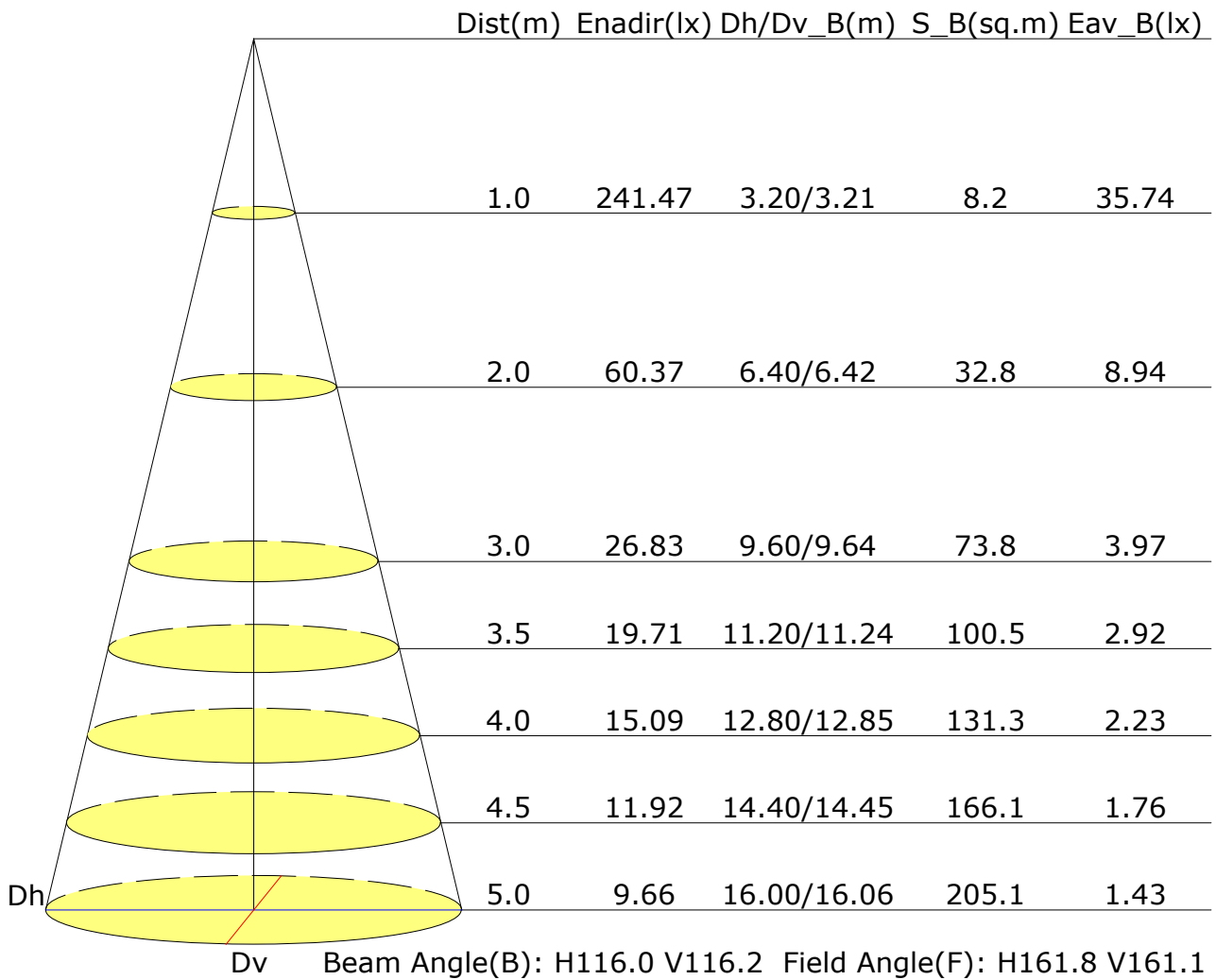
Test Device: GPM-1600L

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

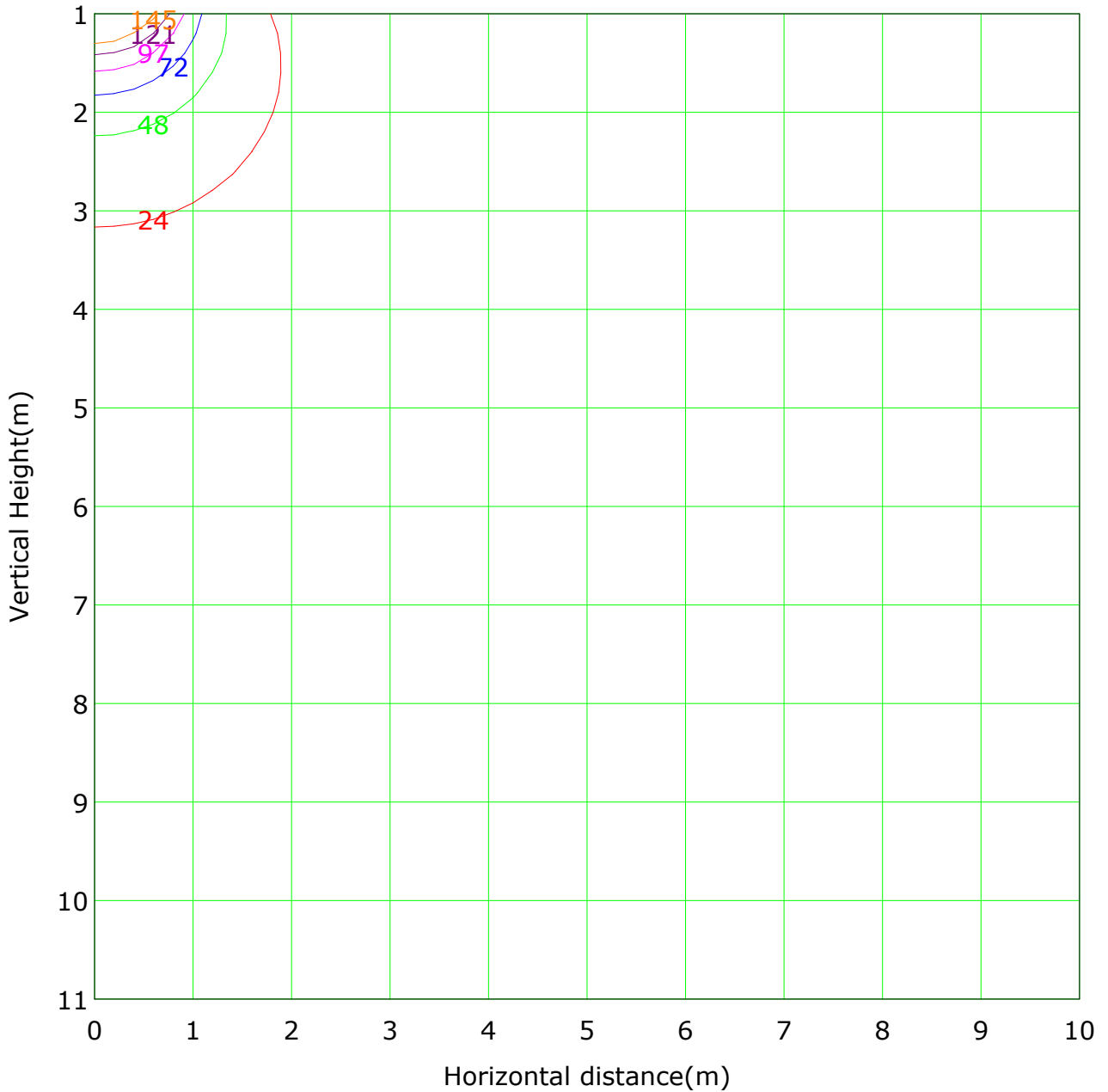
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 241.5 lx

— (10%): 24.1 lx	— (20%): 48.3 lx
— (30%): 72.4 lx	— (40%): 96.6 lx
— (50%): 120.7 lx	— (60%): 144.9 lx
— (100%): 241.5 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

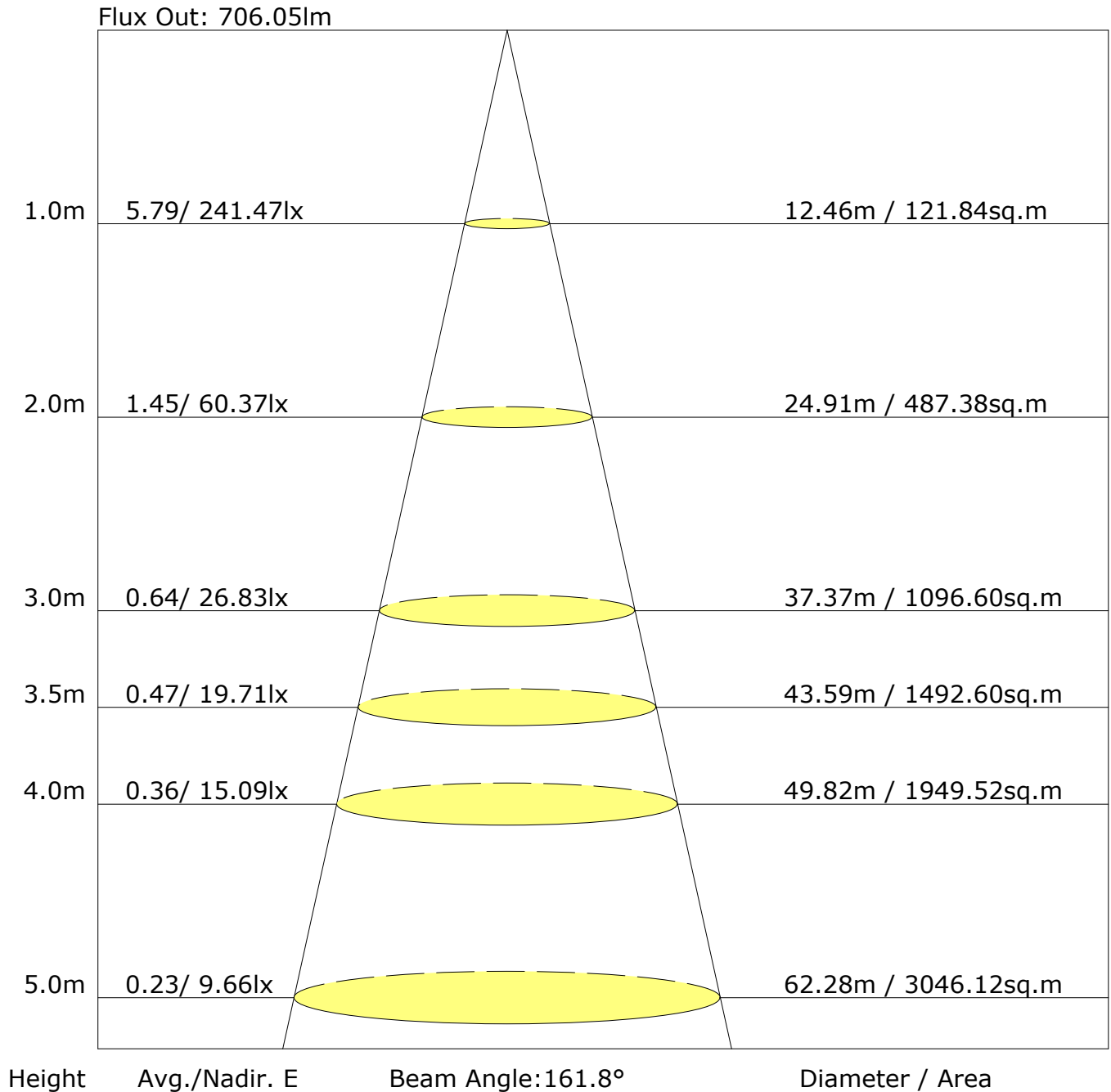
Unit: lm

-90	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	2.4	0.3		
-80	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.5	1.3	1.1	0.8	0.5	0.3	0.1	0.0	0.0	12.7	11.5		
-70	0.0	0.2	0.5	0.9	1.4	2.0	2.4	2.7	2.9	2.8	2.6	2.2	1.7	1.1	0.6	0.3	0.1	0.0	24.5	24.1		
-60	0.0	0.2	0.7	1.3	2.1	2.8	3.5	3.9	4.2	4.1	3.8	3.2	2.5	1.8	1.0	0.5	0.1	0.0	35.8	35.6		
-50	0.0	0.3	0.9	1.7	2.6	3.6	4.4	5.0	5.3	5.2	4.8	4.2	3.3	2.3	1.4	0.7	0.2	0.0	45.9	45.8		
-40	0.0	0.4	1.0	2.0	3.1	4.2	5.1	5.8	6.1	6.1	5.7	4.9	3.9	2.8	1.7	0.8	0.2	0.0	54.0	53.9		
-30	0.0	0.4	1.2	2.2	3.5	4.7	5.7	6.4	6.7	6.7	6.2	5.5	4.4	3.2	2.0	1.0	0.3	0.0	59.9	59.9		
-20	0.1	0.4	1.2	2.4	3.7	5.0	6.0	6.7	7.1	7.0	6.6	5.8	4.7	3.4	2.1	1.0	0.3	0.0	63.7	63.6		
-10	0.1	0.5	1.3	2.5	3.8	5.1	6.2	6.9	7.2	7.2	6.8	6.0	4.9	3.6	2.2	1.1	0.3	0.0	65.6	65.6		
0	0.1	0.5	1.3	2.5	3.8	5.1	6.1	6.8	7.2	7.2	6.8	6.0	4.9	3.5	2.2	1.1	0.3	0.0	65.3	65.3		
10	0.1	0.4	1.2	2.3	3.6	4.9	5.9	6.6	6.9	6.9	6.6	5.8	4.7	3.4	2.1	1.0	0.3	0.0	62.8	62.7		
20	0.0	0.4	1.1	2.1	3.3	4.5	5.5	6.2	6.5	6.5	6.1	5.4	4.3	3.1	1.9	0.9	0.3	0.0	58.5	58.4		
30	0.0	0.3	1.0	1.9	2.9	4.0	4.9	5.6	5.9	5.9	5.5	4.8	3.8	2.7	1.7	0.8	0.2	0.0	52.0	51.9		
40	0.0	0.3	0.8	1.6	2.4	3.3	4.1	4.7	5.0	5.0	4.6	4.0	3.2	2.2	1.4	0.6	0.2	0.0	43.4	43.3		
50	0.0	0.2	0.6	1.2	1.9	2.6	3.2	3.6	3.8	3.8	3.5	3.0	2.4	1.7	1.0	0.5	0.1	0.0	33.1	32.9		
60	0.0	0.1	0.4	0.7	1.2	1.7	2.1	2.4	2.6	2.5	2.3	2.0	1.5	1.1	0.6	0.3	0.1	0.0	21.8	21.4		
70	0.0	0.1	0.2	0.3	0.6	0.8	1.0	1.2	1.3	1.3	1.2	1.0	0.8	0.5	0.3	0.1	0.0	0.0	10.6	8.7		
80	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.9	0.0		
90	Flux(T)	0.6	4.8	13.7	26.4	41.1	55.6	68.0	76.7	80.8	80.3	74.9	65.2	52.0	37.1	22.6	10.8	3.2	0.2	714		
	Flux(E)	0.2	4.3	13.2	25.9	40.6	55.1	67.5	76.1	80.4	79.8	74.4	64.7	51.5	36.6	22.0	10.2	2.5	0.0		705	
		-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	27.4	28.8	27.7	29.1	29.3	27.6	29.0	27.9	29.3	29.5
3H	28.8	30.1	29.1	30.3	30.6	29.2	30.4	29.5	30.7	31.0
4H	29.3	30.5	29.6	30.8	31.1	29.7	30.9	30.1	31.2	31.5
6H	29.6	30.7	30.0	31.0	31.3	30.1	31.2	30.5	31.6	31.9
8H	29.7	30.7	30.0	31.1	31.4	30.2	31.3	30.6	31.6	32.0
12H	29.6	30.7	30.0	31.0	31.4	30.2	31.3	30.6	31.6	32.0
X=4H Y=2H	28.1	29.3	28.4	29.6	29.9	28.3	29.5	28.6	29.7	30.0
3H	29.6	30.7	30.0	31.0	31.3	29.9	31.0	30.3	31.3	31.6
4H	30.2	31.2	30.6	31.5	31.9	30.6	31.6	31.0	31.9	32.3
6H	30.6	31.4	31.0	31.8	32.2	31.1	31.9	31.5	32.3	32.7
8H	30.7	31.5	31.2	31.9	32.3	31.2	32.0	31.7	32.4	32.8
12H	30.7	31.4	31.2	31.8	32.3	31.3	32.0	31.7	32.4	32.8
X=8H Y=4H	30.5	31.2	30.9	31.6	32.1	30.8	31.6	31.3	32.0	32.4
6H	31.0	31.6	31.4	32.0	32.5	31.4	32.0	31.9	32.5	32.9
8H	31.1	31.6	31.6	32.1	32.6	31.6	32.1	32.1	32.6	33.1
12H	31.1	31.6	31.6	32.1	32.6	31.7	32.1	32.1	32.6	33.1
X=12H Y=4H	30.5	31.2	30.9	31.6	32.0	30.8	31.5	31.3	31.9	32.4
6H	31.0	31.5	31.5	32.0	32.5	31.4	32.0	31.9	32.4	32.9
8H	31.1	31.6	31.6	32.1	32.6	31.6	32.1	32.1	32.6	33.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.3/-0.5					+0.3/-0.4				
S=2.0H	+0.6/-1.0					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with $714lm (8\log(F/F_0) = -1.2)$.

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

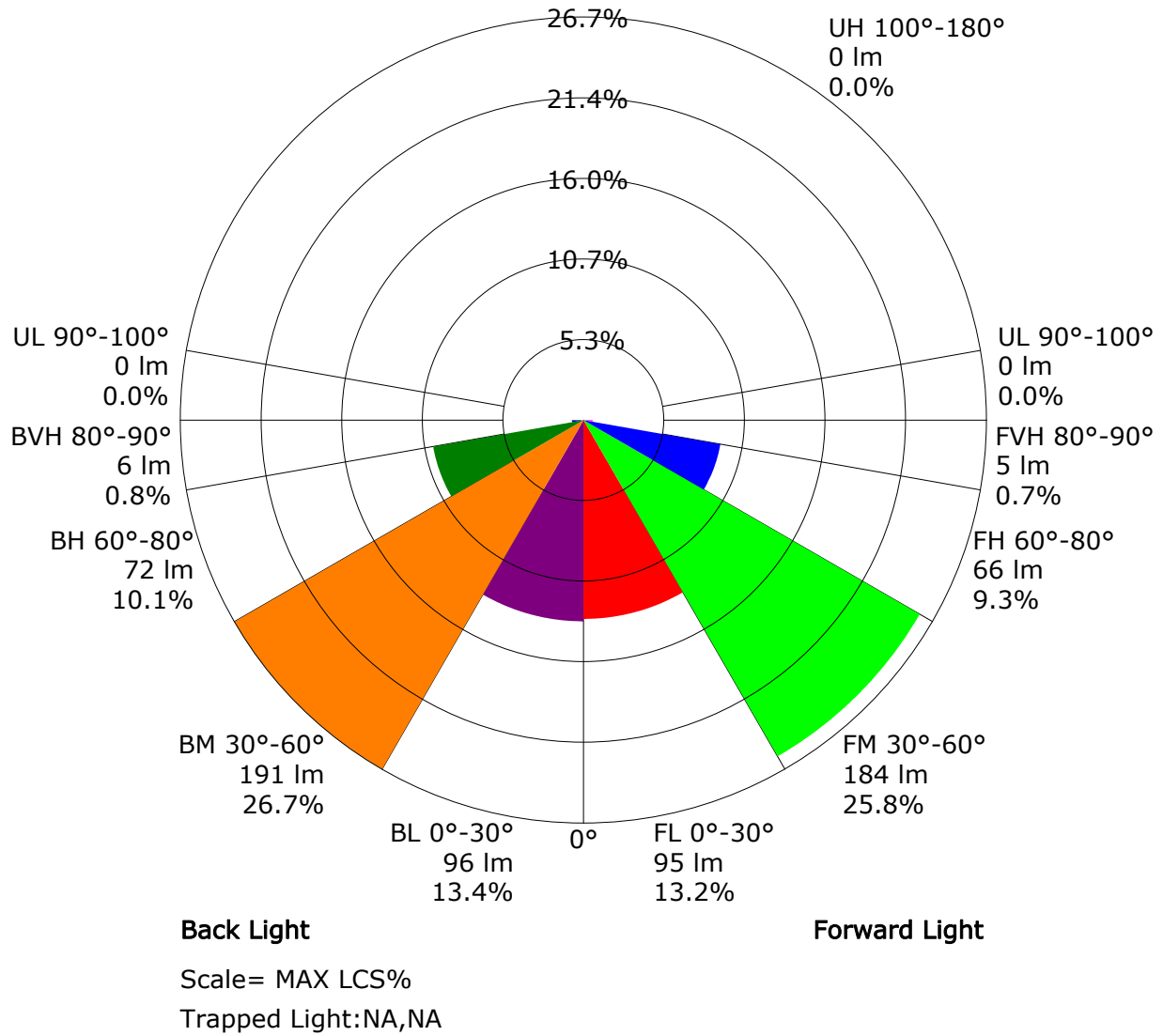
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	349	48.9
	FL (0°-30°)	95	13.2
	FM (30°-60°)	184	25.8
	FH (60°-80°)	66	9.3
	FVH (80°-90°)	5	0.7
	BACK LIGHT	365	51.1
	BL (0°-30°)	96	13.4
	BM (30°-60°)	191	26.7
	BH (60°-80°)	72	10.1
	BVH (80°-90°)	6	0.8
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	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



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	0.60	0.68	0.76	0.81	0.88	0.93	0.97	1.01	1.04	
		0.30	0.52	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.01	
		0.20	0.47	0.55	0.63	0.69	0.77	0.83	0.88	0.94	0.98	
0.50	0.50	0.20	0.58	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
		0.30	0.51	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
		0.20	0.46	0.54	0.62	0.68	0.76	0.81	0.85	0.91	0.95	
0.30	0.50	0.20	0.57	0.64	0.71	0.76	0.82	0.87	0.90	0.93	0.96	
		0.30	0.51	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
		0.20	0.46	0.54	0.62	0.67	0.74	0.80	0.83	0.88	0.92	
0.00	0.00	0.00	0.44	0.51	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
<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 = 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	0.95	0.81	0.68	0.59	0.47	0.39	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		0.68	0.60	0.52	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.92	0.77	0.65	0.56	0.45	0.40	0.32	0.24	0.20	
	0.30		0.78	0.67	0.57	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.89	0.74	0.62	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.76	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.67	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.56	0.49	0.41	0.36	0.29	0.24	0.21	0.16	0.13	
<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 = 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	0.17	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	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.20	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	0.17	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: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:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	239.2	0.2	0.2	0.03	0.03
1.0-2.0	239.4	0.7	0.9	0.10	0.13
2.0-3.0	239.2	1.1	2.1	0.16	0.29
3.0-4.0	238.9	1.6	3.7	0.22	0.51
4.0-5.0	238.7	2.1	5.7	0.29	0.80
5.0-6.0	238.5	2.5	8.2	0.35	1.15
6.0-7.0	238.1	3.0	11.2	0.41	1.57
7.0-8.0	237.7	3.4	14.6	0.48	2.04
8.0-9.0	237.2	3.8	18.4	0.54	2.58
9.0-10.0	236.8	4.3	22.7	0.60	3.18
10.0-11.0	236.3	4.7	27.4	0.66	3.84
11.0-12.0	235.6	5.2	32.6	0.72	4.56
12.0-13.0	234.8	5.6	38.2	0.78	5.34
13.0-14.0	234.1	6.0	44.1	0.84	6.18
14.0-15.0	233.4	6.4	50.6	0.90	7.08
15.0-16.0	232.4	6.8	57.4	0.95	8.03
16.0-17.0	231.2	7.2	64.6	1.01	9.04
17.0-18.0	230.3	7.6	72.2	1.06	10.11
18.0-19.0	229.3	8.0	80.1	1.12	11.22
19.0-20.0	228.1	8.4	88.5	1.17	12.39
20.0-21.0	227.0	8.7	97.2	1.22	13.61
21.0-22.0	225.7	9.1	106.3	1.27	14.88
22.0-23.0	224.3	9.4	115.7	1.32	16.20
23.0-24.0	222.6	9.7	125.4	1.36	17.57
24.0-25.0	221.1	10.1	135.5	1.41	18.97
25.0-26.0	219.8	10.4	145.9	1.45	20.43
26.0-27.0	218.1	10.7	156.5	1.49	21.92
27.0-28.0	216.1	10.9	167.5	1.53	23.46
28.0-29.0	214.1	11.2	178.7	1.57	25.02
29.0-30.0	212.2	11.5	190.1	1.60	26.63
30.0-31.0	210.2	11.7	201.8	1.64	28.27
31.0-32.0	208.0	11.9	213.8	1.67	29.94
32.0-33.0	205.7	12.1	225.9	1.70	31.63
33.0-34.0	203.6	12.3	238.2	1.73	33.36
34.0-35.0	201.2	12.5	250.7	1.75	35.11
35.0-36.0	198.7	12.7	263.4	1.77	36.88

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	196.1	12.8	276.1	1.79	38.67
37.0-38.0	193.5	12.9	289.1	1.81	40.48
38.0-39.0	190.7	13.0	302.1	1.82	42.31
39.0-40.0	187.7	13.1	315.2	1.83	44.14
40.0-41.0	184.7	13.2	328.3	1.84	45.98
41.0-42.0	181.8	13.2	341.5	1.85	47.83
42.0-43.0	178.7	13.2	354.8	1.85	49.69
43.0-44.0	175.5	13.2	368.0	1.86	51.54
44.0-45.0	172.3	13.2	381.3	1.85	53.40
45.0-46.0	168.9	13.2	394.5	1.85	55.25
46.0-47.0	165.3	13.2	407.6	1.84	57.09
47.0-48.0	161.8	13.1	420.7	1.83	58.92
48.0-49.0	158.2	13.0	433.7	1.82	60.74
49.0-50.0	154.4	12.9	446.6	1.80	62.54
50.0-51.0	150.5	12.7	459.3	1.78	64.33
51.0-52.0	146.7	12.6	471.9	1.76	66.09
52.0-53.0	142.9	12.4	484.3	1.74	67.83
53.0-54.0	138.9	12.2	496.6	1.72	69.55
54.0-55.0	134.9	12.0	508.6	1.69	71.23
55.0-56.0	130.8	11.8	520.4	1.66	72.89
56.0-57.0	126.7	11.6	532.0	1.62	74.51
57.0-58.0	122.6	11.3	543.4	1.59	76.10
58.0-59.0	118.4	11.1	554.4	1.55	77.65
59.0-60.0	114.2	10.8	565.2	1.51	79.16
60.0-61.0	110.0	10.5	575.7	1.47	80.63
61.0-62.0	105.6	10.2	585.9	1.43	82.06
62.0-63.0	101.3	9.9	595.8	1.38	83.44
63.0-64.0	97.0	9.5	605.3	1.33	84.77
64.0-65.0	92.6	9.2	614.4	1.28	86.05
65.0-66.0	88.3	8.8	623.2	1.23	87.29
66.0-67.0	83.9	8.4	631.7	1.18	88.47
67.0-68.0	79.4	8.0	639.7	1.13	89.60
68.0-69.0	74.9	7.6	647.4	1.07	90.67
69.0-70.0	70.5	7.2	654.6	1.01	91.68
70.0-71.0	66.2	6.8	661.4	0.96	92.64
71.0-72.0	61.7	6.4	667.9	0.90	93.54

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	57.2	6.0	673.8	0.84	94.37
73.0-74.0	52.9	5.6	679.4	0.78	95.15
74.0-75.0	48.6	5.1	684.5	0.72	95.87
75.0-76.0	44.4	4.7	689.3	0.66	96.53
76.0-77.0	40.1	4.3	693.5	0.60	97.13
77.0-78.0	35.8	3.8	697.4	0.54	97.67
78.0-79.0	31.9	3.4	700.8	0.48	98.15
79.0-80.0	27.8	3.0	703.8	0.42	98.57
80.0-81.0	23.8	2.6	706.4	0.36	98.93
81.0-82.0	20.0	2.2	708.5	0.30	99.23
82.0-83.0	16.3	1.8	710.3	0.25	99.48
83.0-84.0	12.8	1.4	711.7	0.20	99.67
84.0-85.0	9.2	1.0	712.7	0.14	99.82
85.0-86.0	5.9	0.6	713.4	0.09	99.91
86.0-87.0	3.3	0.4	713.7	0.05	99.96
87.0-88.0	1.6	0.2	713.9	0.02	99.98
88.0-89.0	0.7	0.1	714.0	0.01	99.99
89.0-90.0	0.4	0.0	714.0	0.01	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	241.5	240.2	238.7	238.0	238.0	237.1	241.5	240.2	238.7	238.0
G1.0	242.8	240.7	239.3	238.4	237.6	236.8	243.2	240.6	238.6	238.8
G2.0	241.9	240.2	238.4	237.9	237.8	238.3	241.5	241.6	239.7	238.6
G3.0	241.6	239.3	239.5	237.8	237.8	237.4	241.9	240.7	238.9	239.0
G4.0	240.8	239.1	237.7	237.9	237.4	237.8	242.2	240.1	239.7	239.2
G5.0	241.6	238.4	237.7	237.5	236.6	237.3	241.9	240.4	239.5	238.5
G6.0	239.9	239.6	238.3	236.4	236.1	235.9	241.8	240.1	238.7	238.0
G7.0	240.4	238.5	236.7	236.6	236.9	236.4	240.7	239.9	238.8	238.3
G8.0	239.4	237.6	237.1	236.2	234.9	235.1	240.5	239.6	239.3	237.6
G9.0	239.7	237.4	236.0	235.5	235.3	236.1	241.0	238.1	238.0	237.0
G10.0	239.0	236.1	235.6	233.8	235.1	234.9	240.4	239.2	237.6	236.8
G11.0	238.3	235.7	234.9	233.0	234.2	234.9	239.9	238.7	237.1	236.6
G12.0	237.5	234.8	232.9	233.2	233.6	234.7	238.0	237.9	237.3	235.6
G13.0	236.6	233.5	233.1	231.6	232.3	233.6	238.3	236.7	235.7	235.0
G14.0	235.8	232.9	231.8	231.4	232.1	232.0	237.1	237.2	235.3	235.1
G15.0	234.7	233.3	229.9	230.5	231.0	231.4	236.9	235.7	235.0	233.8
G16.0	233.7	232.1	229.2	229.7	229.6	230.1	235.6	235.1	233.9	232.4
G17.0	231.3	229.9	228.4	228.2	228.6	229.6	234.6	233.1	232.0	231.8
G18.0	230.9	228.9	227.6	227.4	227.7	228.3	234.6	233.7	232.7	230.4
G19.0	228.7	227.6	226.0	225.9	225.9	227.7	233.0	232.5	231.6	229.6
G20.0	228.3	226.7	224.6	224.8	225.3	226.7	231.5	231.5	230.1	228.9
G21.0	227.0	224.9	223.4	223.2	223.5	225.9	230.5	230.8	229.0	227.7
G22.0	225.8	223.6	221.2	222.0	222.9	224.0	230.4	229.6	227.9	226.0
G23.0	223.4	221.9	219.9	220.7	220.1	222.9	228.4	228.1	226.9	225.0
G24.0	221.0	220.2	218.4	218.2	219.3	221.2	226.3	226.0	225.4	223.9
G25.0	220.0	218.6	217.2	216.9	219.4	219.2	225.4	225.4	224.0	221.8
G26.0	218.8	217.1	215.4	215.5	217.0	218.2	225.2	222.8	223.0	221.7
G27.0	216.2	215.0	213.4	213.8	214.8	216.1	223.1	222.4	220.2	219.3
G28.0	214.5	212.6	211.5	211.4	212.5	214.6	220.3	219.9	219.2	216.6
G29.0	212.3	209.5	208.3	209.8	210.7	213.2	219.0	218.3	216.9	215.8
G30.0	210.5	207.7	207.0	207.5	208.9	211.7	217.1	216.6	214.9	213.4
G31.0	209.2	205.5	204.9	204.6	206.2	208.2	215.3	214.8	214.4	212.0
G32.0	205.4	203.7	202.2	202.4	204.2	206.4	213.1	211.4	211.4	209.4
G33.0	202.8	201.9	200.1	200.1	202.1	204.4	211.0	211.0	209.4	206.6
G34.0	200.0	198.5	198.3	197.8	199.5	202.4	209.5	209.0	207.0	205.1
G35.0	198.0	196.4	194.4	195.3	197.4	199.8	206.8	206.8	205.3	202.7
G36.0	195.0	192.8	192.0	192.9	195.0	197.3	204.1	203.6	202.9	200.6

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	191.7	189.6	189.8	190.4	192.3	195.1	201.7	201.7	200.4	197.7
G38.0	188.5	188.6	186.9	187.0	189.5	192.3	199.4	198.9	198.4	195.6
G39.0	185.5	184.5	183.5	184.7	186.9	188.7	196.4	196.4	194.9	192.5
G40.0	182.8	181.8	180.6	181.3	183.3	186.4	193.2	193.2	192.7	189.4
G41.0	179.4	177.6	177.6	178.7	180.5	183.8	190.4	190.7	190.1	186.7
G42.0	176.6	175.0	174.4	175.2	178.4	181.2	188.0	188.0	187.0	184.1
G43.0	172.6	171.0	171.1	171.9	174.6	177.3	184.9	184.9	183.7	180.6
G44.0	169.4	168.3	167.8	168.1	171.6	174.5	182.7	182.3	181.6	177.9
G45.0	166.5	164.9	164.1	165.6	167.9	171.1	178.6	178.8	177.2	174.3
G46.0	162.6	161.0	160.4	161.5	164.9	168.2	175.2	175.2	175.2	170.6
G47.0	158.4	157.6	156.7	158.3	161.4	164.6	171.9	172.2	170.8	167.4
G48.0	154.6	153.5	152.8	155.1	157.3	161.0	168.4	169.3	167.7	163.9
G49.0	151.2	149.8	149.0	151.0	153.9	157.1	164.9	165.5	164.6	160.5
G50.0	146.4	144.9	145.9	146.6	150.3	154.0	161.3	162.2	160.5	157.0
G51.0	142.8	141.9	141.3	142.7	146.5	150.0	157.4	157.3	156.7	152.8
G52.0	138.8	137.6	137.7	139.5	142.6	146.1	153.3	154.1	153.1	149.1
G53.0	135.0	133.1	134.1	135.0	139.1	142.4	149.6	150.9	149.5	145.7
G54.0	130.2	129.4	129.1	131.3	134.5	138.7	146.2	146.4	144.8	141.6
G55.0	126.3	125.1	126.0	127.1	131.1	134.8	141.2	143.2	141.4	137.8
G56.0	121.9	120.9	121.0	122.9	126.7	130.9	137.6	138.2	137.1	133.4
G57.0	118.5	116.3	117.5	118.9	122.5	126.7	133.6	134.4	133.1	129.4
G58.0	113.6	112.8	112.9	115.2	118.5	122.8	129.5	131.1	129.0	125.5
G59.0	109.0	108.3	108.4	110.3	114.1	118.5	124.9	126.4	125.0	121.1
G60.0	105.1	103.8	104.5	106.6	110.4	114.0	121.3	122.5	120.8	116.7
G61.0	100.4	99.8	100.5	101.9	105.8	109.7	116.4	118.1	116.7	113.0
G62.0	96.0	95.2	95.6	97.7	101.5	105.7	112.8	113.8	112.4	108.6
G63.0	92.0	90.8	91.7	93.7	97.6	101.0	108.3	109.7	108.3	103.7
G64.0	86.8	86.8	87.1	89.0	92.6	97.0	104.3	105.1	103.5	99.5
G65.0	82.9	81.9	82.5	84.7	88.6	92.9	99.9	101.0	99.2	95.4
G66.0	78.3	77.4	78.5	80.5	84.2	88.7	95.6	96.4	95.3	90.7
G67.0	73.9	73.2	73.9	76.2	79.9	84.1	90.6	91.9	90.8	86.5
G68.0	69.7	69.2	69.6	71.9	75.2	79.7	86.2	88.0	86.4	82.1
G69.0	65.0	64.5	65.4	67.5	70.5	75.1	81.5	83.1	82.1	77.5
G70.0	60.8	60.1	61.5	63.3	65.9	70.5	77.3	79.1	77.5	73.4
G71.0	56.6	56.3	57.2	59.2	61.7	66.1	73.2	74.8	73.4	69.3
G72.0	52.2	51.7	52.7	54.8	56.2	61.1	68.7	70.1	68.8	64.6
G73.0	48.1	47.9	48.7	50.7	52.0	56.6	64.1	65.9	64.6	60.6

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	44.3	43.5	44.8	46.6	47.7	51.8	59.8	61.8	60.1	56.3
G75.0	40.0	39.5	40.6	42.8	42.8	47.3	55.9	57.3	56.1	51.8
G76.0	36.1	35.9	36.9	38.9	38.4	42.9	51.9	53.4	52.1	47.2
G77.0	32.2	31.8	32.8	34.8	33.6	38.1	47.3	49.0	47.4	42.3
G78.0	28.5	28.1	29.0	31.2	29.8	33.9	43.2	44.9	42.9	38.0
G79.0	25.0	24.7	25.6	27.6	25.7	29.8	39.3	41.2	38.7	33.5
G80.0	21.3	20.9	21.9	23.9	21.5	25.6	35.0	36.7	33.6	28.5
G81.0	17.9	17.5	18.5	20.4	18.1	21.9	31.0	32.8	29.4	24.2
G82.0	14.4	14.0	15.3	16.9	14.7	17.9	26.7	28.6	24.6	19.7
G83.0	10.3	10.8	11.9	13.8	12.2	14.6	22.5	24.0	20.2	14.7
G84.0	6.6	7.4	8.6	10.2	10.2	11.8	18.3	19.5	15.7	10.5
G85.0	2.7	3.8	5.0	6.3	7.7	9.1	13.7	14.6	11.1	5.9
G86.0	0.4	1.2	2.0	2.9	5.2	6.8	9.6	10.5	7.1	2.2
G87.0	0.3	0.3	0.4	0.4	2.5	4.6	5.8	6.5	3.6	0.3
G88.0	0.3	0.3	0.3	0.3	0.6	2.1	2.2	2.8	1.5	0.3
G89.0	0.3	0.3	0.3	0.3	0.3	0.7	0.3	1.5	0.9	0.3
G90.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8	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:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	238.0	237.1	241.5						
G1.0	238.0	238.4	242.8						
G2.0	239.0	237.7	241.9						
G3.0	237.5	236.7	241.6						
G4.0	237.3	236.7	240.8						
G5.0	238.1	236.5	241.6						
G6.0	237.7	236.7	239.9						
G7.0	236.3	235.4	240.4						
G8.0	236.1	235.7	239.4						
G9.0	235.9	234.4	239.7						
G10.0	236.1	235.1	239.0						
G11.0	234.5	233.7	238.3						
G12.0	233.9	233.7	237.5						
G13.0	234.8	232.1	236.6						
G14.0	232.5	232.2	235.8						
G15.0	232.6	231.2	234.7						
G16.0	230.9	230.2	233.7						
G17.0	230.8	228.8	231.3						
G18.0	229.8	227.6	230.9						
G19.0	227.8	227.2	228.7						
G20.0	228.1	225.0	228.3						
G21.0	226.1	224.2	227.0						
G22.0	224.2	222.8	225.8						
G23.0	223.4	220.9	223.4						
G24.0	221.7	219.8	221.0						
G25.0	220.1	218.0	220.0						
G26.0	218.0	216.5	218.8						
G27.0	216.7	214.8	216.2						
G28.0	215.3	213.3	214.5						
G29.0	213.3	210.2	212.3						
G30.0	211.2	208.8	210.5						
G31.0	208.7	206.6	209.2						
G32.0	207.1	204.0	205.4						
G33.0	204.2	202.2	202.8						
G34.0	202.7	200.4	200.0						
G35.0	199.6	197.3	198.0						
G36.0	197.4	195.4	195.0						

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 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	194.8	191.8	191.7						
G38.0	192.5	189.3	188.5						
G39.0	189.1	186.6	185.5						
G40.0	186.3	183.5	182.8						
G41.0	183.3	180.0	179.4						
G42.0	180.3	176.9	176.6						
G43.0	177.3	173.5	172.6						
G44.0	174.1	169.9	169.4						
G45.0	170.7	167.4	166.5						
G46.0	166.7	163.8	162.6						
G47.0	164.0	159.5	158.4						
G48.0	160.0	155.9	154.6						
G49.0	156.8	152.5	151.2						
G50.0	152.4	148.4	146.4						
G51.0	148.8	144.4	142.8						
G52.0	145.0	141.5	138.8						
G53.0	140.9	136.7	135.0						
G54.0	137.2	133.0	130.2						
G55.0	133.2	128.7	126.3						
G56.0	129.1	124.7	121.9						
G57.0	124.5	120.8	118.5						
G58.0	120.4	116.2	113.6						
G59.0	116.5	112.0	109.0						
G60.0	112.2	107.9	105.1						
G61.0	107.3	103.4	100.4						
G62.0	103.5	98.6	96.0						
G63.0	99.3	94.5	92.0						
G64.0	94.7	90.2	86.8						
G65.0	90.1	85.7	82.9						
G66.0	86.1	81.8	78.3						
G67.0	81.2	77.1	73.9						
G68.0	76.7	71.9	69.7						
G69.0	72.0	67.4	65.0						
G70.0	67.2	62.7	60.8						
G71.0	62.8	57.9	56.6						
G72.0	57.6	53.2	52.2						
G73.0	53.2	48.8	48.1						

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	48.2	44.3	44.3							
G75.0	43.9	39.4	40.0							
G76.0	39.3	35.2	36.1							
G77.0	34.2	30.7	32.2							
G78.0	29.7	26.5	28.5							
G79.0	25.0	22.6	25.0							
G80.0	20.3	18.5	21.3							
G81.0	16.4	15.2	17.9							
G82.0	11.9	12.8	14.4							
G83.0	9.1	9.9	10.3							
G84.0	6.7	7.5	6.6							
G85.0	4.4	4.7	2.7							
G86.0	2.8	2.1	0.4							
G87.0	1.6	0.8	0.3							
G88.0	0.8	0.3	0.3							
G89.0	0.3	0.3	0.3							
G90.0	0.3	0.3	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: