



71912
LED Decorative Linear Wrap



RoHS

0-10V Dimmable



QPL ID #
P2SVJ2H6



Model:		71912
OVERALL LAMP PARAMETERS	Input Voltage	120-277 VAC 60HZ
	Input Current	.36A Max @ 120V; 0.20A Max @ 277V
	Input Power	40W
	Power Factor	PF>0.98
	Luminance	6,001 LM
	Luminous Efficiency	140 LM/W
	CRI	>83
	Beam Angle	H: 98° V: 147°
	SDCM	<7
	UGR	<19
LED DRIVER	Brand	Arcata 2835
	Output Voltage	12-24 VDC
	Output Current	1.2A
	Driver Efficiency	88%
LED	LED Manufacturer	Edison
	LED Type	2835 SMD
	LED Quantity	238 PCS
	LED Efficacy	140 LM/W
	Color Temperature	4000K
LIFESPAN & ENVIRONMENT	Output Current	50mA Max; 37.5mA Applied
	Lifespan	50,000+ Hrs.
	Warranty	5 Years
	IP Rating	IP21 Dry Locations
	Operating Temperature	-20°C---+40°C
SAFETY&EMC	Storage Temperature, Humidity	-40°C---+80°C , 10---90% RH
	Safety Norms	UL1598, UL8750, EN60598, EN61347-2-13, EN62031, EN62471
	Withstand Voltage	I/P-PG: 2121VDC
	Grounding Resistance	25A 100mΩ
OTHERS	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
	Dimension	Pls refer to attached dimension drawing
	Net Weight	0.68G
	Gross Weight	0.88G
	Qty / Carton 纸箱	10 PCS
	Volume	0.530m³/carton
	Housing Color	White
	Main Structure	Aluminium Frame + Polystyrene Lens

Report No.:

Test Time: 2017-01-04 19:05

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED
Luminaire Description: 71912
Lamp Catalog: 2835/ACT
Luminous Length (mm): 1185
Luminous Height (mm): 77
Current: 0.365 A
Power Factor: 0.992

Lamp Description: 2835/4000K
Luminous Width (mm): 52
Voltage: 119.4 V
Power: 43.29 W

Photometric Results

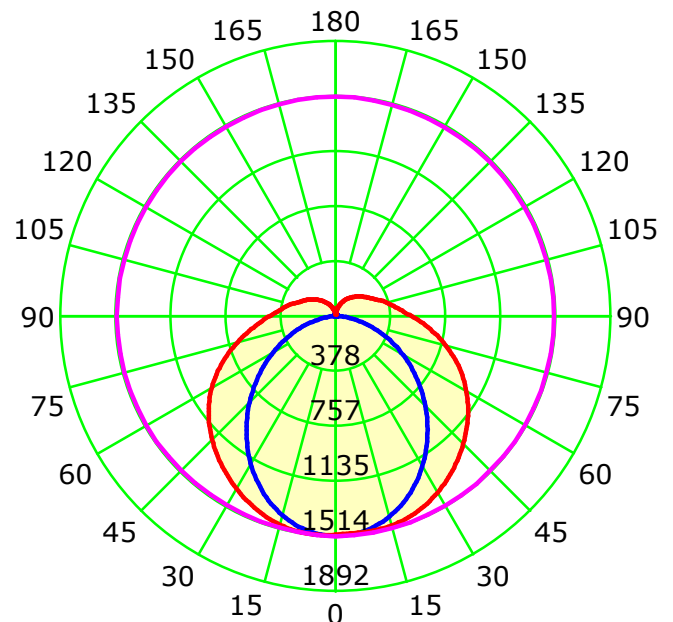
CIE Class: Semi-Direct
Measurement Flux: 6136.3 lm
Downward Ratio: 84%
Field Angle: H155.7 V282.0
Luminaire Efficacy Rating (LER): 142
Max. Intensity: 1514.33 cd

Total Rated Lamp Lumens: 6136.3 lm
Efficiency: 100%
Upward Ratio: 16%
Beam Angle: H98.8 V149.1
Central Intensity: 1514.28 cd
Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



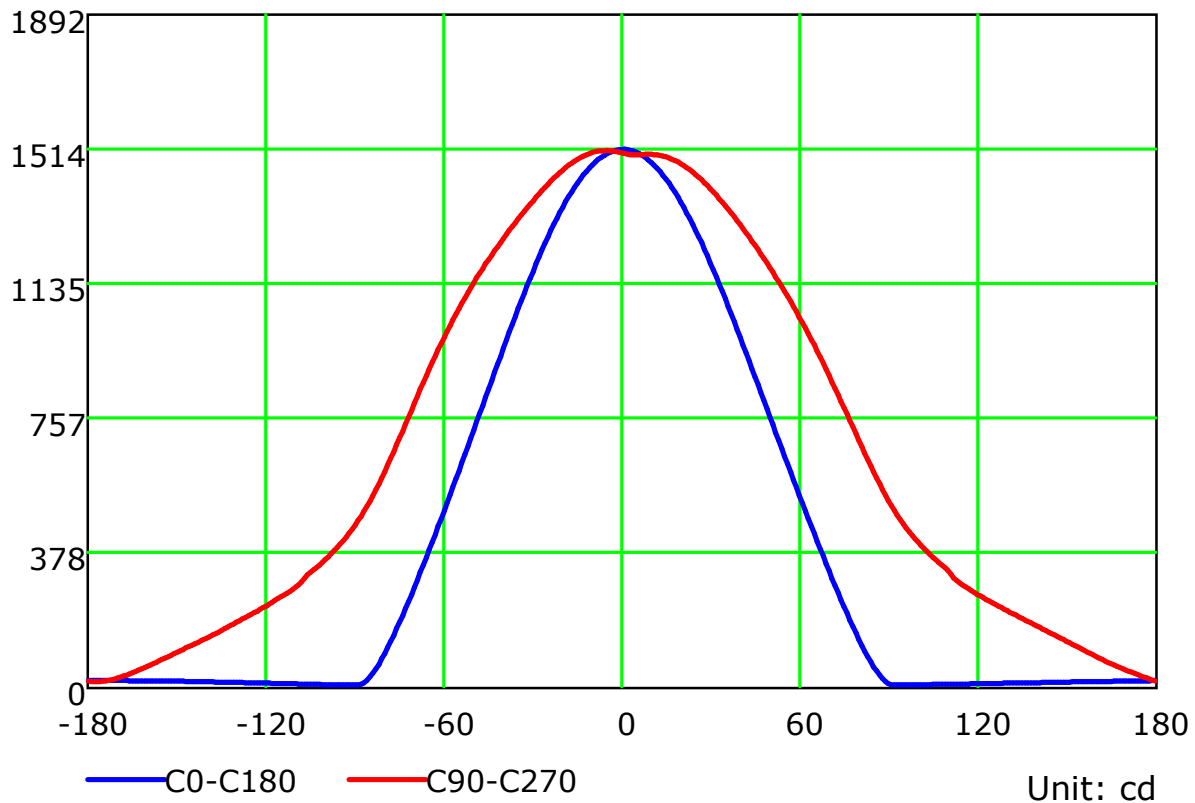
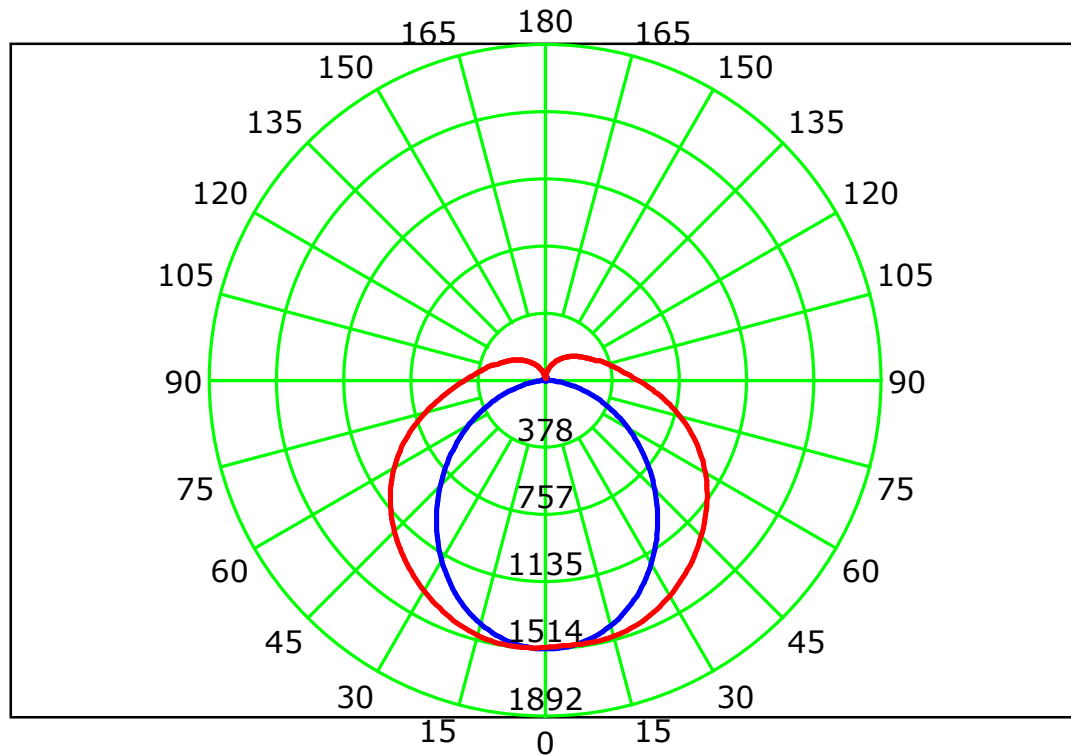
Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

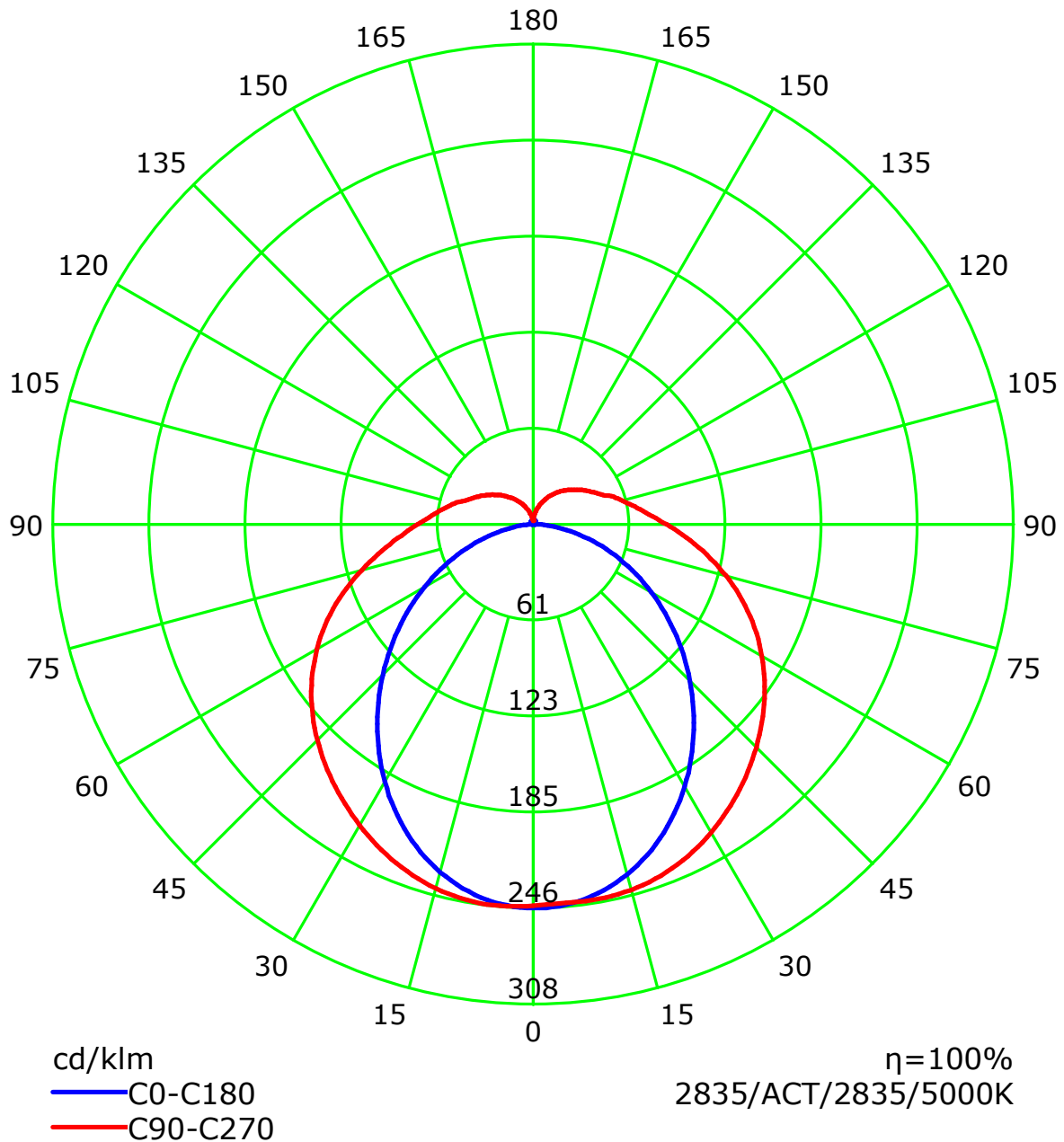
Luminous Intensity Distribution Curve



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Test Lab: JIANGMEN
Test Type: TYPE C
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Operator: R

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Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



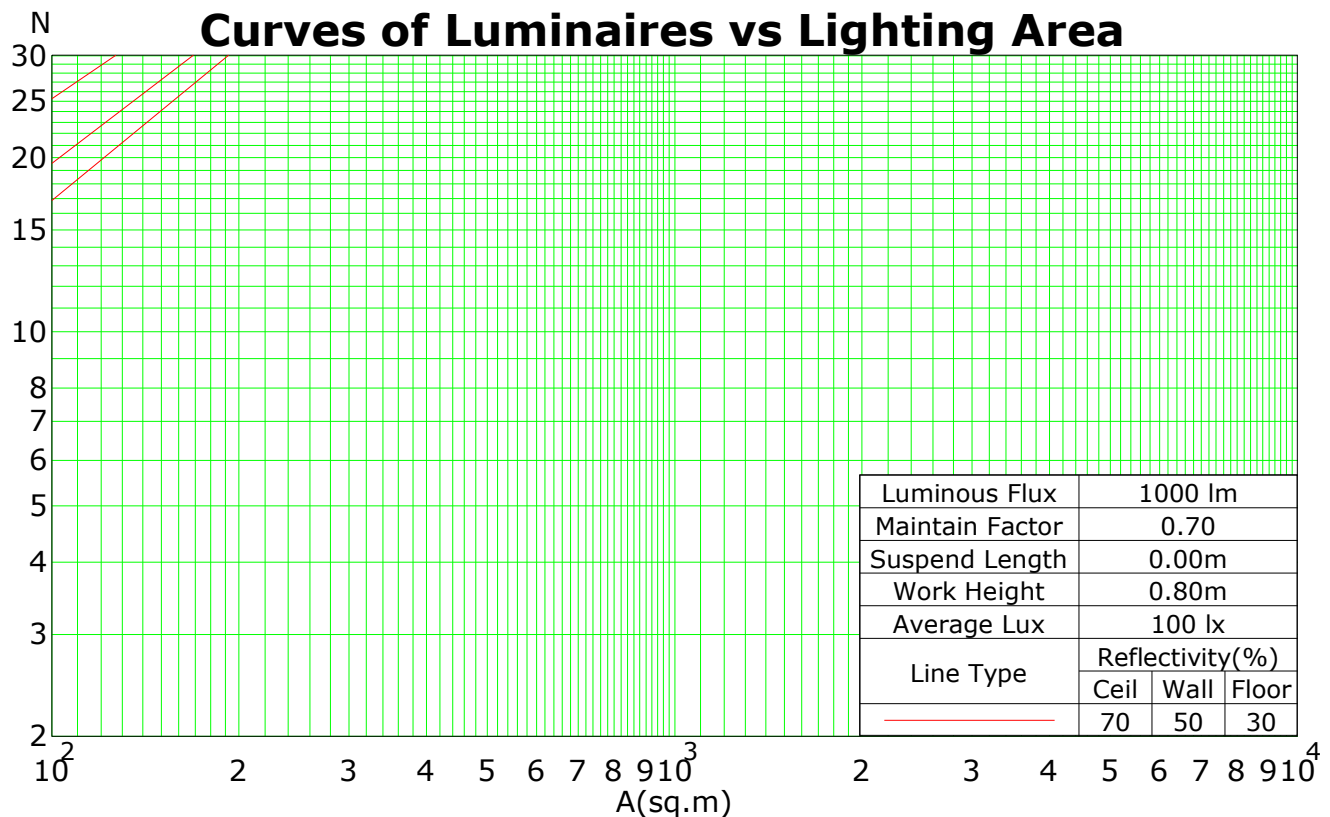
Coefficients Of Utilization - Zonal Cavity Method

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	103	97	92	87	98	93	89	84	86	82	79	80	77	74	73	71	69	66
2	93	83	76	69	88	80	73	67	74	68	63	68	64	60	63	59	56	53
3	84	73	64	57	80	70	62	55	64	58	52	60	54	49	55	51	47	44
4	77	64	55	47	73	61	53	46	57	50	44	53	47	42	49	44	40	37
5	70	57	47	40	67	55	46	39	51	43	38	47	41	36	44	38	34	31
6	65	51	42	35	62	49	40	34	46	38	33	43	36	31	40	34	30	27
7	60	46	37	31	57	44	36	30	41	34	29	39	32	27	36	30	26	24
8	56	42	33	27	53	40	32	27	38	31	26	35	29	24	33	28	23	21
9	52	38	30	24	50	37	29	24	35	28	23	33	26	22	31	25	21	19
10	49	35	27	22	47	34	27	21	32	25	21	30	24	20	28	23	19	17

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.37

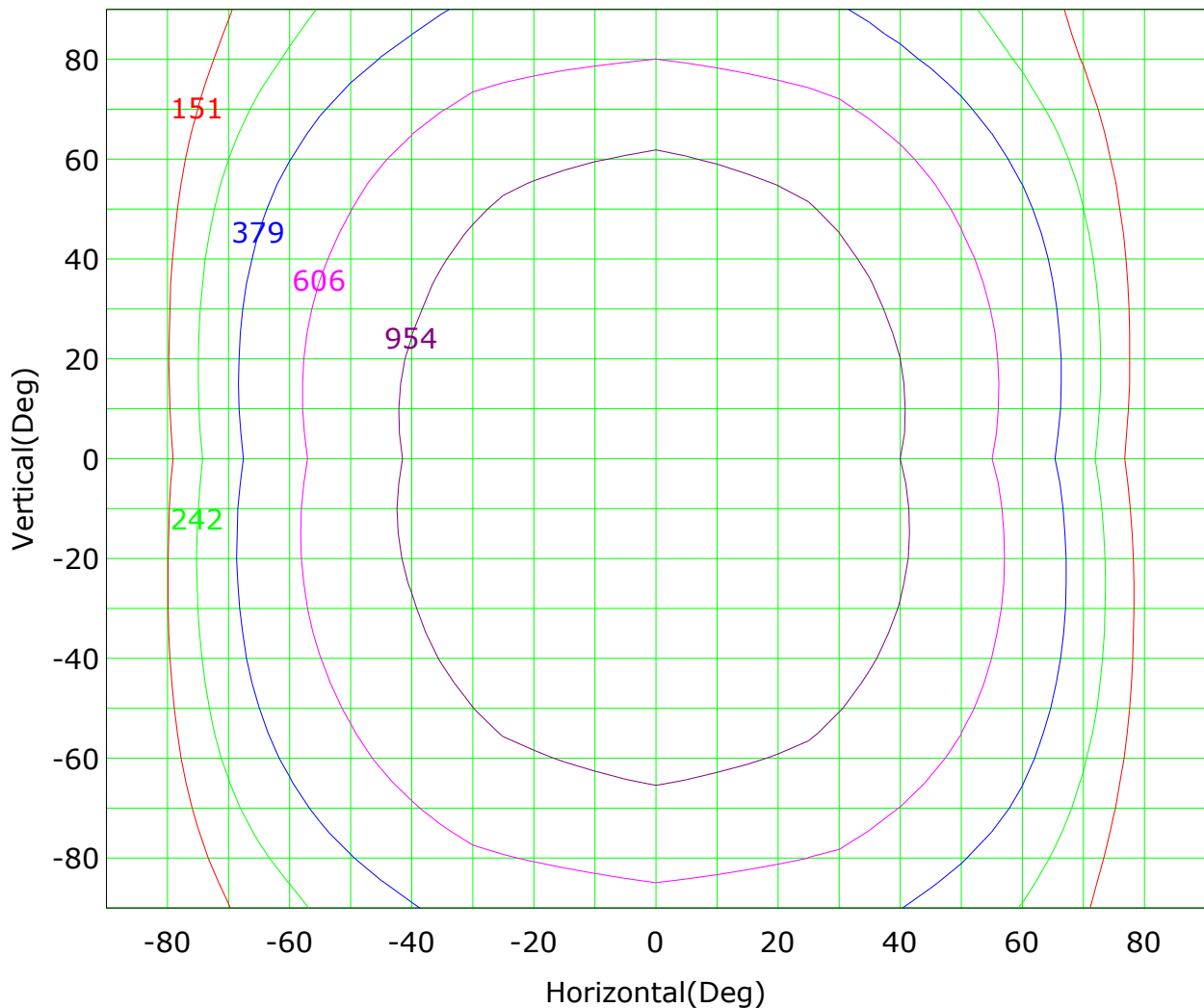
Spacing Criteria (Diagonal): 1.41



C Plane (°): 0.0-360.0: 30.0
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Operator: R

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Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Isocandela (rectangle)



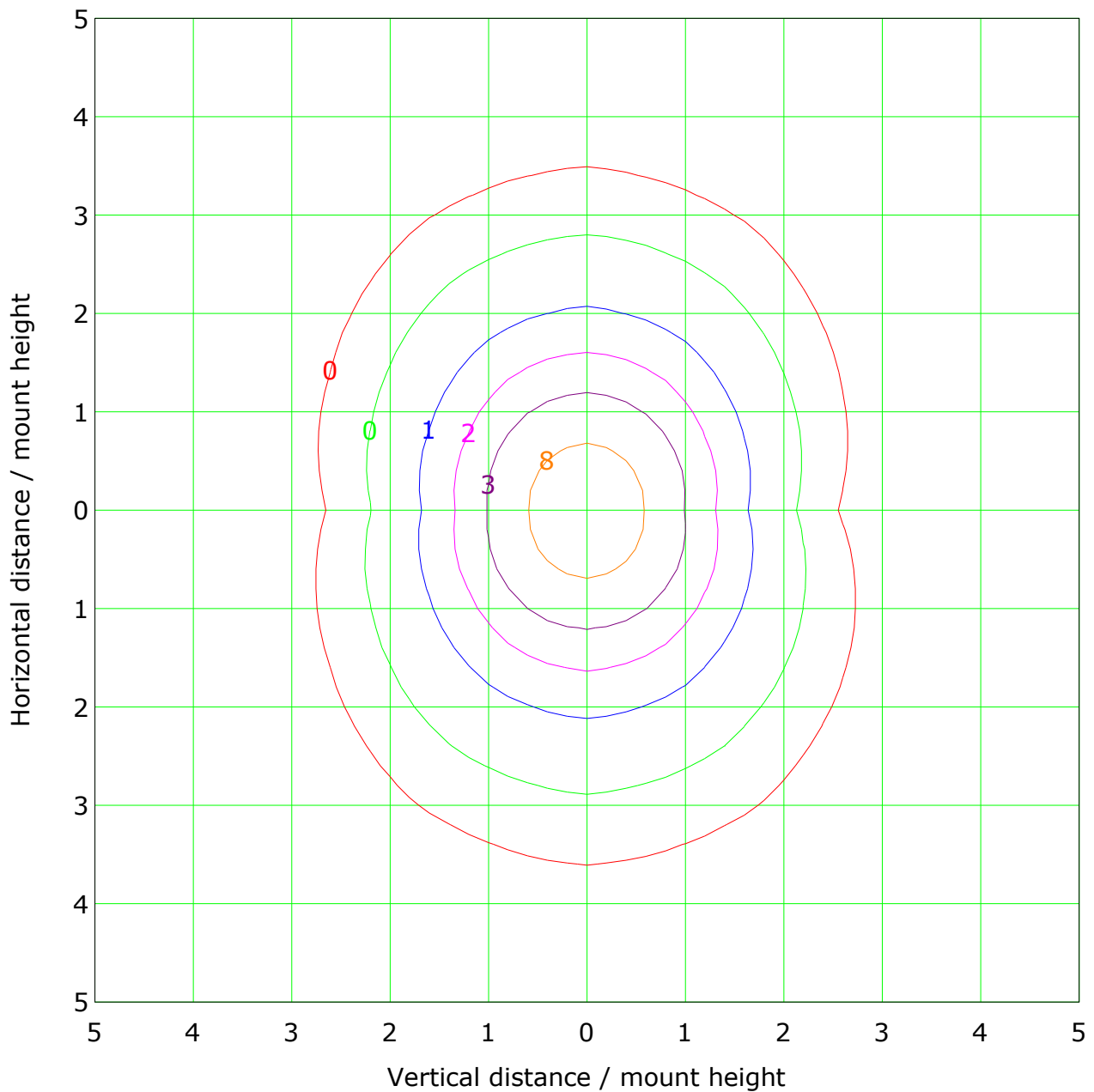
Imax (100%): 1514 cd

(10%): 151 cd	(16%): 242 cd
(25%): 379 cd	(40%): 606 cd
(63%): 954 cd	(100%): 1514 cd

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 15.1 lx

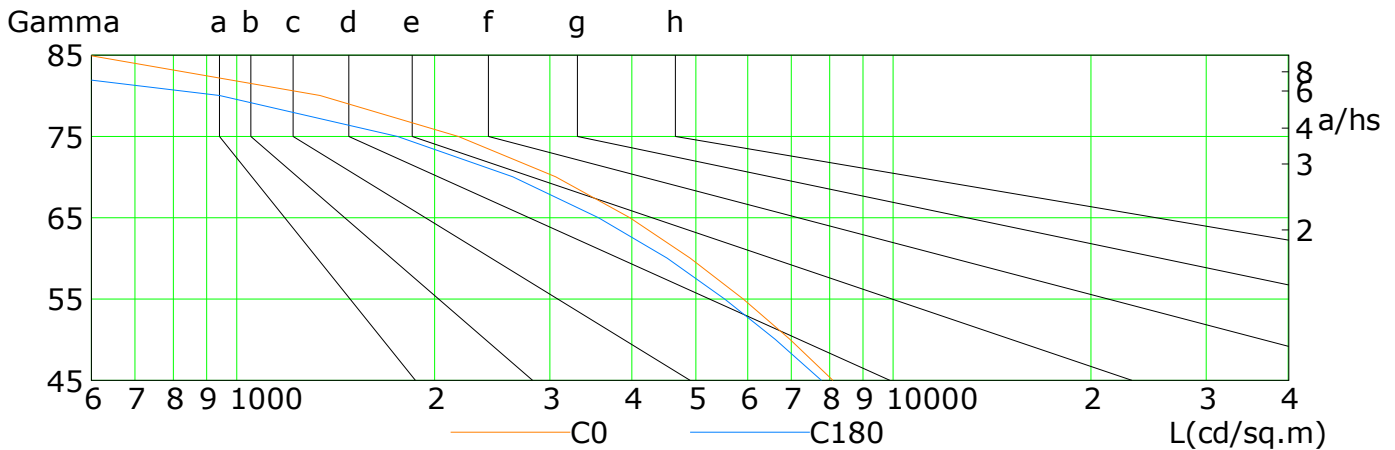
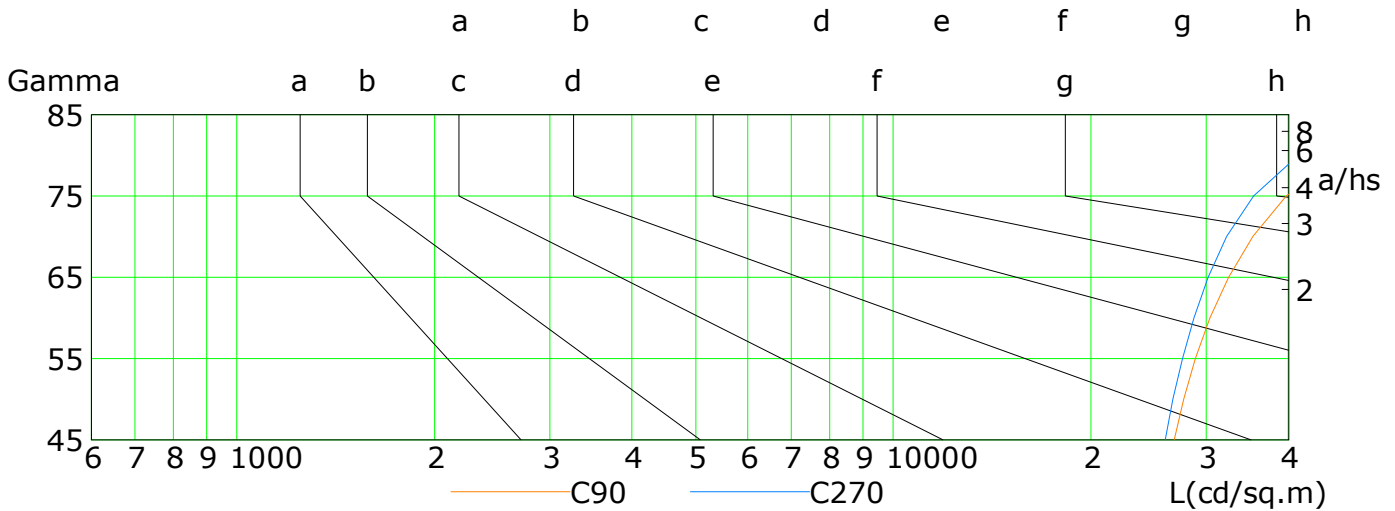
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.0 lx	(50%): 7.6 lx
(100%): 15.1 lx	

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Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

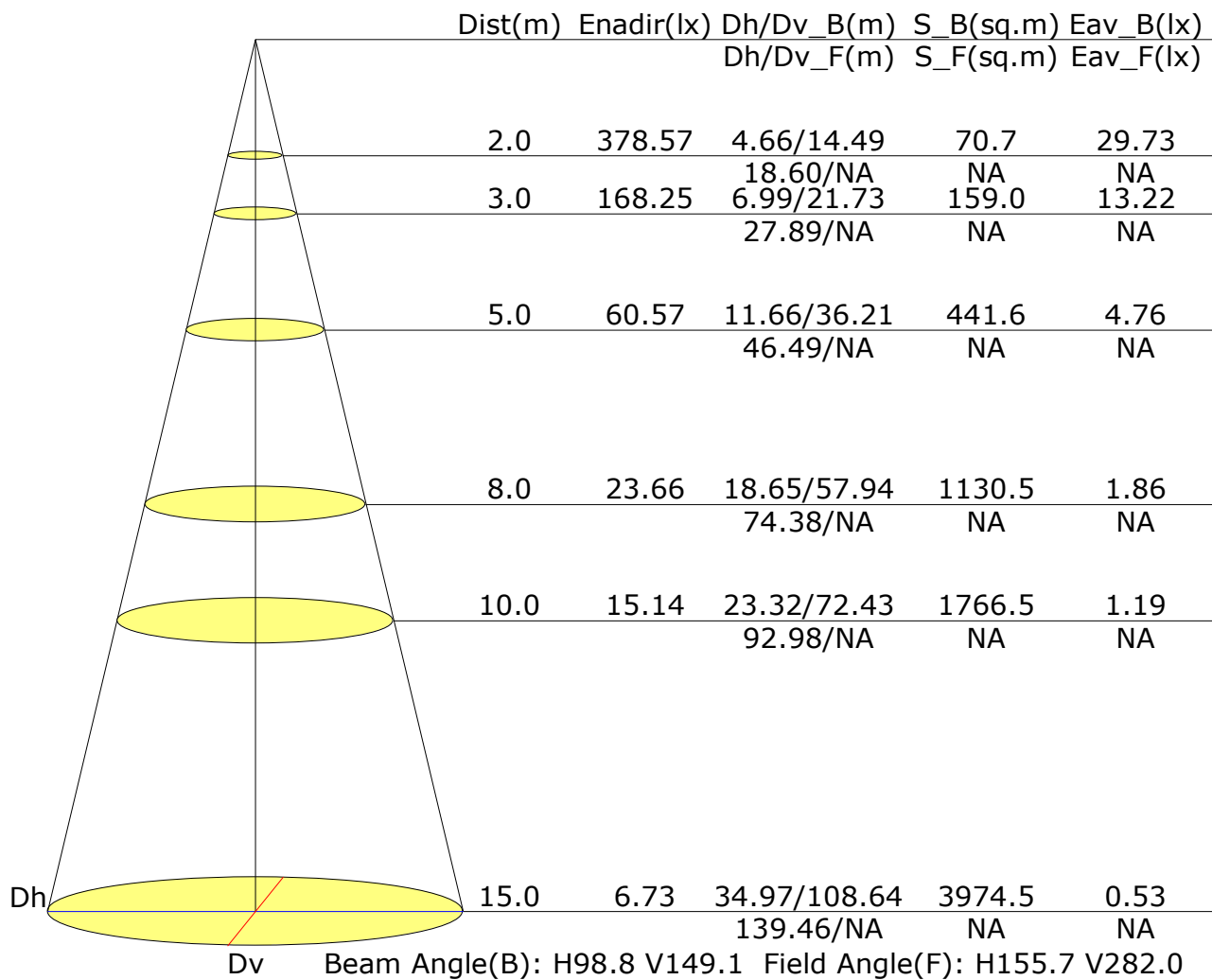


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8088	6955	5904	4908	3967	3058	2177	1338	593
C90	26809	27679	28864	30387	32446	35318	39726	47483	64728
C180	7769	6608	5531	4521	3559	2633	1756	941	300
C270	25946	26688	27608	28747	30187	32182	35394	41429	55920

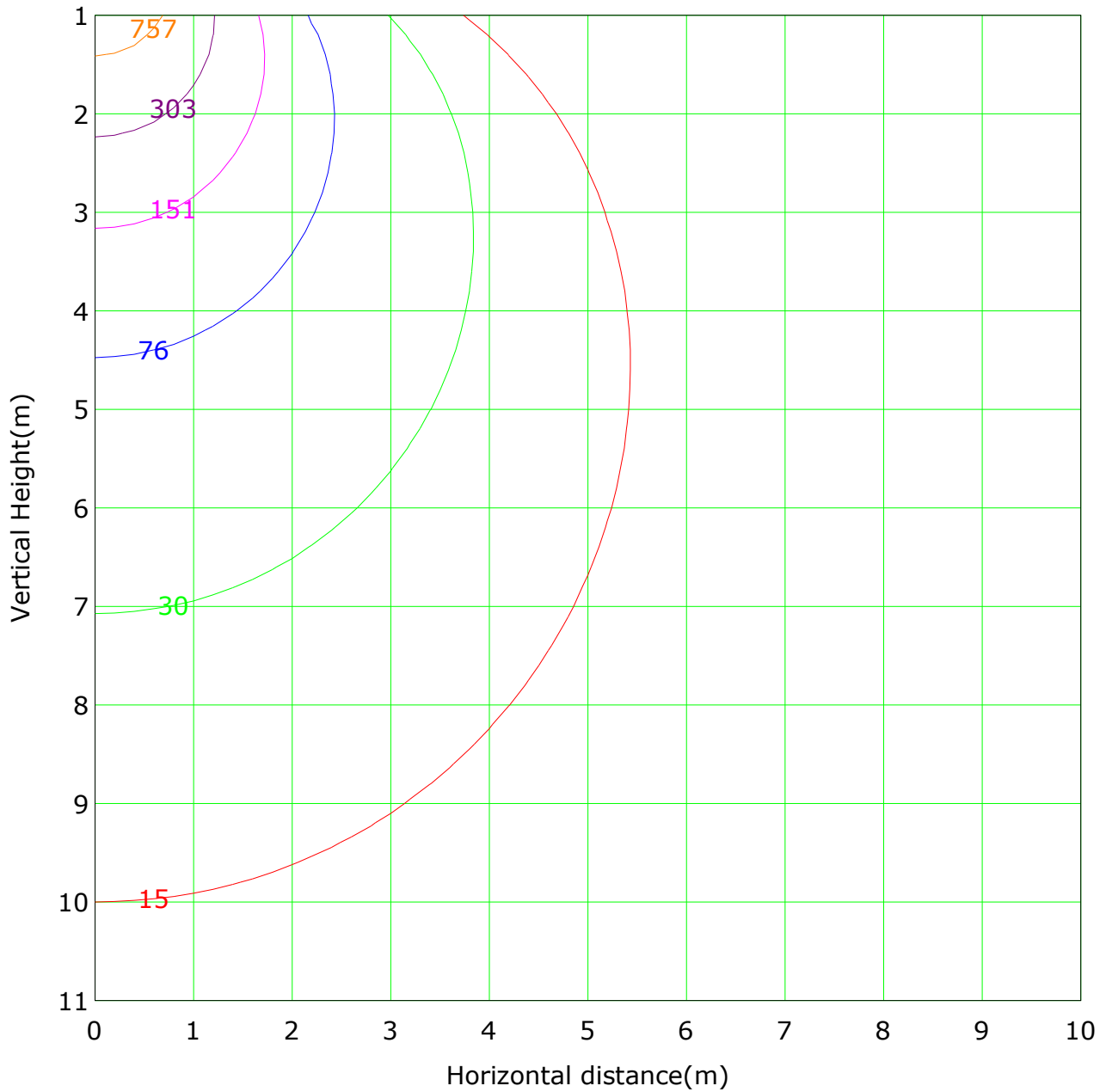
C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1514.3 lx

— (1%): 15.1 lx	— (2%): 30.3 lx
— (5%): 75.7 lx	— (10%): 151.4 lx
— (20%): 302.9 lx	— (50%): 757.1 lx
— (100%):1514.3 lx	

Area Flux Table

Unit: lm

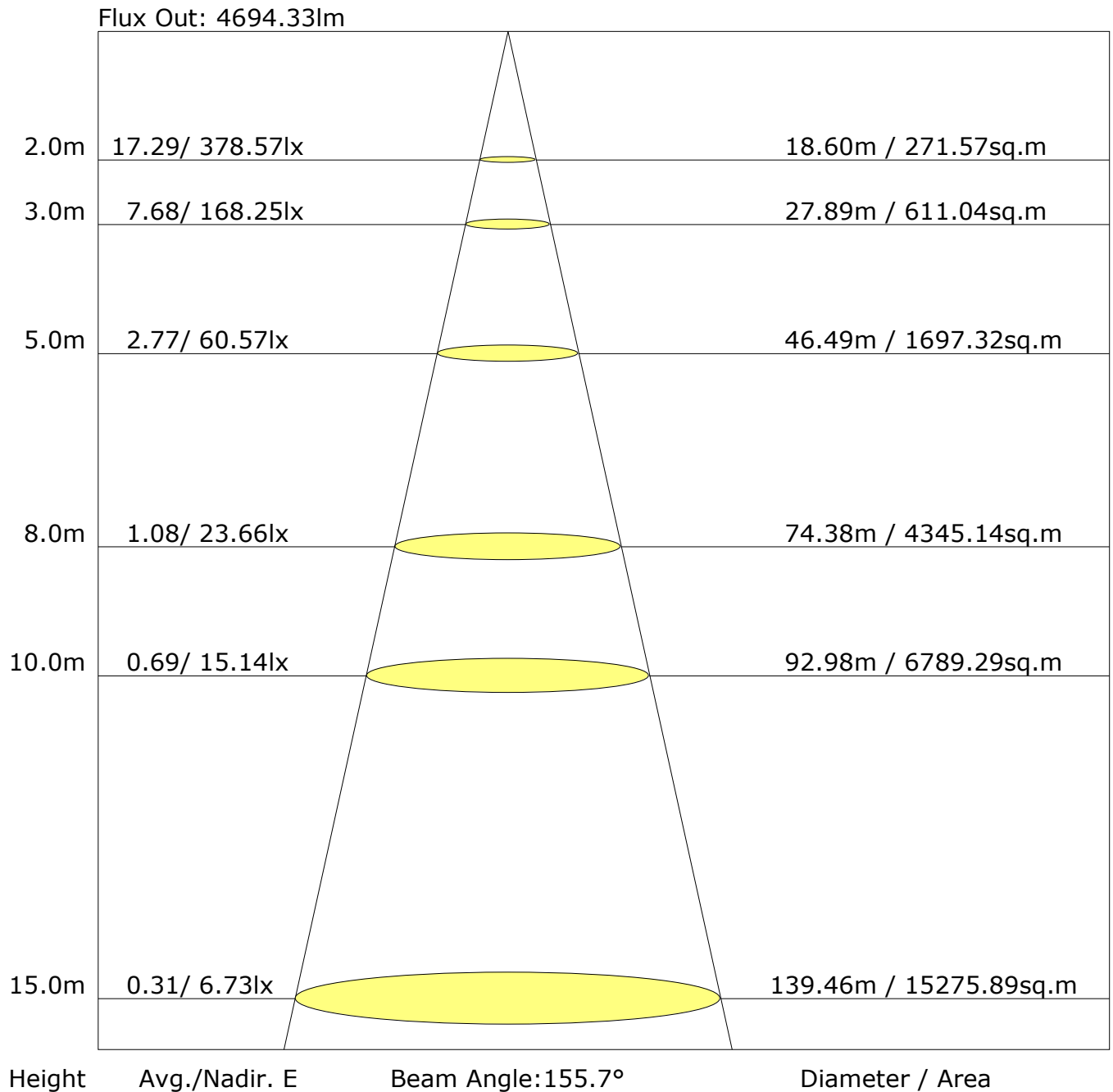
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.1	0.9	2.3	4.4	7.0	10.0	12.5	14.2	15.5	15.6	14.5	12.9	10.4	7.4	4.7	2.5	1.0	0.2	136.0133.8
0.1	1.0	2.7	5.4	8.8	12.8	16.4	18.9	20.7	20.8	19.2	16.8	13.3	9.3	5.8	3.0	1.1	0.2	176.5174.9		
0.1	1.1	3.3	6.7	11.1	16.1	20.8	24.1	26.5	26.6	24.4	21.3	16.6	11.6	7.1	3.7	1.3	0.2	222.7221.5		
0.2	1.3	3.9	8.0	13.3	19.2	24.9	28.9	31.6	31.7	29.2	25.3	19.7	13.8	8.5	4.3	1.5	0.2	265.6264.7		
0.2	1.5	4.5	9.2	15.2	21.9	28.3	33.0	35.8	35.9	33.2	28.7	22.3	15.7	9.7	5.0	1.7	0.2	301.9301.1		
0.2	1.6	5.0	10.2	16.7	24.0	31.0	36.4	39.3	39.4	36.6	31.3	24.4	17.2	10.7	5.4	1.9	0.2	331.6330.9		
0.2	1.7	5.3	10.8	17.9	25.6	33.1	39.1	42.4	42.4	39.3	33.4	26.0	18.4	11.4	5.7	2.0	0.2	354.9354.3		
0.2	1.7	5.3	11.1	18.5	26.7	34.6	41.0	44.5	44.6	41.1	34.9	27.2	19.1	11.7	5.9	2.0	0.2	370.2369.6		
0.1	1.6	5.2	11.0	18.4	26.9	35.1	41.7	45.4	45.3	41.9	35.5	27.5	19.1	11.6	5.8	1.9	0.2	374.4373.7		
0.1	1.6	5.3	11.1	18.6	27.1	35.2	41.6	45.1	45.2	41.8	35.6	27.6	19.2	11.7	5.8	1.9	0.2	374.6374.0		
0.2	1.7	5.5	11.4	19.0	27.2	35.0	41.3	44.7	44.7	41.2	35.1	27.4	19.3	11.8	5.9	2.0	0.2	373.8373.2		
0.2	1.8	5.6	11.4	18.6	26.5	34.0	40.0	43.2	43.2	39.9	33.9	26.4	18.7	11.6	5.9	2.0	0.2	363.1362.5		
0.2	1.8	5.4	11.0	17.8	25.2	32.2	37.6	40.5	40.5	37.5	32.0	24.9	17.6	11.0	5.6	1.9	0.2	343.0342.4		
0.2	1.7	5.1	10.2	16.5	23.3	29.8	34.4	37.1	37.0	34.2	29.5	23.0	16.2	10.1	5.2	1.8	0.2	315.6314.9		
0.2	1.5	4.6	9.2	14.8	20.9	26.7	30.6	33.2	33.1	30.4	26.4	20.6	14.5	9.0	4.6	1.6	0.2	282.2281.5		
0.2	1.4	4.0	8.0	12.8	18.1	23.0	26.3	28.6	28.5	26.1	22.7	17.8	12.5	7.7	4.0	1.4	0.2	243.1242.1		
0.2	1.2	3.4	6.6	10.6	15.0	18.8	21.5	23.3	23.3	21.3	18.5	14.6	10.2	6.3	3.3	1.2	0.2	199.5198.2		
0.2	1.0	2.8	5.4	8.4	11.8	14.7	16.6	18.0	17.9	16.4	14.4	11.5	8.1	5.0	2.7	1.0	0.2	156.1154.4		
2.9	25.9	79.3	160.9264.0	378.3	486.2	567.3	615.4	615.6	568.3	488.2	381.3	267.9	165.5	84.3	25.7	0.0		5185		
19.6	79.0	160.9264.0	378.3	486.2	567.3	615.4	615.6	568.3	488.2	381.3	267.9	165.5	84.3	25.7	0.0			5168		

Horizontal plane

C Plane (°):0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

The Average Illuminance Effective Figure



UGR Table

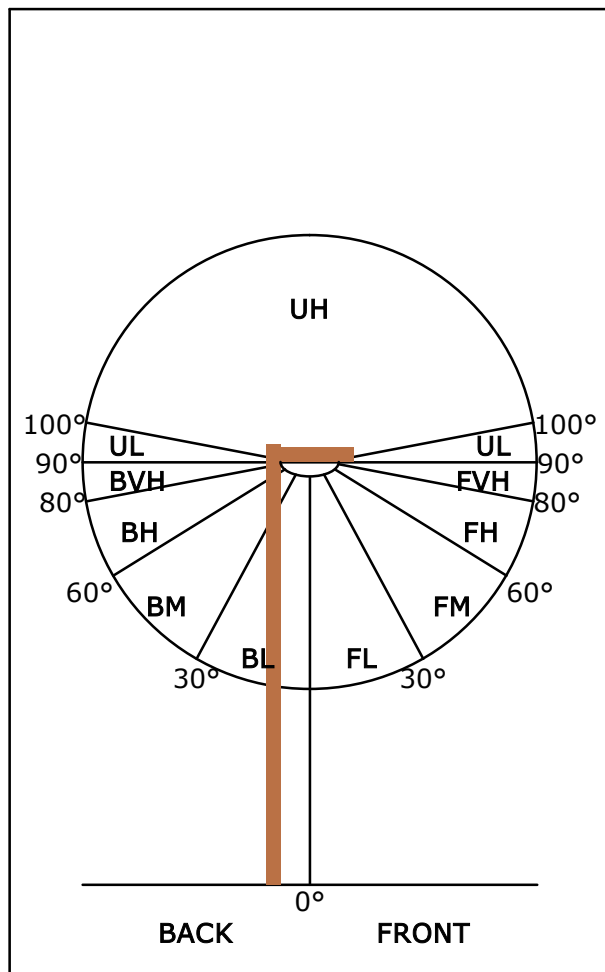
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	12.4	13.8	13.0	14.4	15.0	13.1	14.5	13.7	15.1	15.8
3H	14.1	15.4	14.7	16.0	16.7	15.3	16.6	15.9	17.2	17.9
4H	14.7	15.9	15.3	16.5	17.3	16.3	17.5	16.9	18.1	18.8
6H	15.2	16.3	15.8	16.9	17.7	17.2	18.3	17.8	18.9	19.7
8H	15.3	16.4	15.9	17.0	17.8	17.6	18.6	18.2	19.3	20.0
12H	15.4	16.4	16.0	17.1	17.8	17.9	19.0	18.6	19.6	20.4
X=4H Y=2H	13.0	14.2	13.6	14.9	15.6	13.7	14.9	14.3	15.5	16.2
3H	14.9	16.0	15.6	16.6	17.4	16.1	17.2	16.7	17.8	18.5
4H	15.7	16.7	16.3	17.3	18.1	17.2	18.2	17.9	18.9	19.6
6H	16.3	17.1	17.0	17.8	18.6	18.3	19.2	19.0	19.8	20.6
8H	16.5	17.3	17.2	18.0	18.8	18.8	19.6	19.5	20.3	21.1
12H	16.6	17.4	17.3	18.1	18.9	19.3	20.0	20.0	20.7	21.5
X=8H Y=4H	16.2	17.0	16.8	17.7	18.4	17.5	18.3	18.2	19.0	19.8
6H	16.9	17.6	17.6	18.3	19.1	18.8	19.5	19.5	20.2	21.0
8H	17.2	17.9	18.0	18.6	19.4	19.5	20.1	20.2	20.8	21.6
12H	17.5	18.0	18.2	18.8	19.6	20.1	20.6	20.8	21.4	22.2
X=12H Y=4H	16.3	17.0	17.0	17.7	18.5	17.6	18.3	18.3	19.0	19.8
6H	17.1	17.7	17.8	18.4	19.3	18.9	19.5	19.6	20.2	21.1
8H	17.5	18.0	18.2	18.8	19.6	19.6	20.2	20.3	20.9	21.7

Calculate in accordance with CIE 190:2010

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
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Distance: 8.690 m
Humidity: 45-75
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2651	43.2
FL (0°-30°)	592	9.6
FM (30°-60°)	1206	19.7
FH (60°-80°)	646	10.5
FVH (80°-90°)	207	3.4
BACK LIGHT	2534	41.3
BL (0°-30°)	589	9.6
BM (30°-60°)	1171	19.1
BH (60°-80°)	594	9.7
BVH (80°-90°)	180	2.9
UP LIGHT	951	15.5
UL (90°-100°)	285	4.7
UH (100°-180°)	666	10.8
TRAPPED LIGHT	NA	NA

BUG(Backlight, Uplight, Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I, II, III, IV)	B2 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B2 U5 G1

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Humidity: 45-75
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	0.51	0.59	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
	0.30		0.44	0.51	0.58	0.64	0.72	0.77	0.81	0.87	0.91	
	0.20		0.38	0.45	0.52	0.58	0.66	0.72	0.76	0.82	0.87	
0.50	0.50	0.20	0.48	0.55	0.62	0.66	0.73	0.77	0.80	0.85	0.88	
	0.30		0.41	0.49	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
	0.20		0.36	0.44	0.50	0.55	0.62	0.68	0.72	0.77	0.81	
0.30	0.50	0.20	0.45	0.52	0.58	0.62	0.68	0.72	0.75	0.78	0.81	
	0.30		0.40	0.46	0.52	0.57	0.63	0.67	0.71	0.75	0.78	
	0.20		0.35	0.41	0.48	0.52	0.59	0.64	0.67	0.72	0.76	
0.00	0.00	0.00	0.32	0.37	0.43	0.47	0.53	0.57	0.60	0.65	0.68	
Rating:43W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	0.99	0.86	0.74	0.65	0.54	0.45	0.40	0.32	0.26	
	0.30		0.83	0.73	0.64	0.58	0.48	0.42	0.37	0.30	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	0.93	0.80	0.69	0.61	0.50	0.45	0.37	0.29	0.25	
	0.30		0.78	0.69	0.61	0.55	0.46	0.39	0.34	0.28	0.23	
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.27	0.23	
0.30	0.50	0.20	0.87	0.74	0.64	0.57	0.46	0.39	0.34	0.27	0.23	
	0.30		0.74	0.65	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
	0.20		0.65	0.58	0.52	0.47	0.40	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.53	0.47	0.42	0.38	0.32	0.27	0.24	0.20	0.17	
Rating: 43W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	0.31	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	
	0.30		0.25	0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	
	0.20		0.20	0.21	0.22	0.24	0.25	0.27	0.28	0.30	0.31	
0.50	0.50	0.20	0.30	0.32	0.32	0.33	0.34	0.34	0.35	0.35	0.35	
	0.30		0.24	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.32	
	0.20		0.19	0.21	0.22	0.23	0.25	0.26	0.27	0.29	0.30	
0.30	0.50	0.20	0.29	0.31	0.31	0.32	0.33	0.33	0.33	0.34	0.34	
	0.30		0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.31	
	0.20		0.19	0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.29	
0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Rating:43W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1506.6	1.4	1.4	0.02	0.02
1.0-2.0	1506.1	4.3	5.8	0.07	0.09
2.0-3.0	1505.2	7.2	13.0	0.12	0.21
3.0-4.0	1503.9	10.1	23.0	0.16	0.38
4.0-5.0	1502.3	12.9	36.0	0.21	0.59
5.0-6.0	1500.4	15.8	51.7	0.26	0.84
6.0-7.0	1498.0	18.6	70.3	0.30	1.15
7.0-8.0	1495.2	21.4	91.7	0.35	1.49
8.0-9.0	1491.9	24.2	115.9	0.39	1.89
9.0-10.0	1488.1	26.9	142.8	0.44	2.33
10.0-11.0	1483.7	29.7	172.5	0.48	2.81
11.0-12.0	1478.8	32.3	204.8	0.53	3.34
12.0-13.0	1473.3	35.0	239.8	0.57	3.91
13.0-14.0	1467.3	37.6	277.4	0.61	4.52
14.0-15.0	1460.7	40.1	317.5	0.65	5.17
15.0-16.0	1453.5	42.6	360.1	0.69	5.87
16.0-17.0	1445.8	45.0	405.1	0.73	6.60
17.0-18.0	1437.6	47.4	452.5	0.77	7.37
18.0-19.0	1428.7	49.7	502.2	0.81	8.18
19.0-20.0	1419.4	52.0	554.2	0.85	9.03
20.0-21.0	1409.6	54.1	608.3	0.88	9.91
21.0-22.0	1399.3	56.2	664.5	0.92	10.83
22.0-23.0	1388.5	58.3	722.8	0.95	11.78
23.0-24.0	1377.3	60.2	783.0	0.98	12.76
24.0-25.0	1365.6	62.1	845.1	1.01	13.77
25.0-26.0	1353.5	63.9	909.0	1.04	14.81
26.0-27.0	1341.0	65.6	974.6	1.07	15.88
27.0-28.0	1328.2	67.3	1041.9	1.10	16.98
28.0-29.0	1315.0	68.8	1110.7	1.12	18.10
29.0-30.0	1301.5	70.3	1181.0	1.15	19.25
30.0-31.0	1287.6	71.7	1252.7	1.17	20.41
31.0-32.0	1273.5	73.0	1325.6	1.19	21.60
32.0-33.0	1259.1	74.2	1399.8	1.21	22.81
33.0-34.0	1244.4	75.3	1475.1	1.23	24.04
34.0-35.0	1229.4	76.4	1551.5	1.24	25.28
35.0-36.0	1214.1	77.3	1628.8	1.26	26.54

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	1198.7	78.2	1707.0	1.27	27.82
37.0-38.0	1183.1	79.0	1786.0	1.29	29.11
38.0-39.0	1167.3	79.7	1865.7	1.30	30.40
39.0-40.0	1151.4	80.3	1946.0	1.31	31.71
40.0-41.0	1135.2	80.9	2026.8	1.32	33.03
41.0-42.0	1118.8	81.3	2108.1	1.32	34.36
42.0-43.0	1102.4	81.7	2189.8	1.33	35.69
43.0-44.0	1085.8	82.0	2271.8	1.34	37.02
44.0-45.0	1069.0	82.2	2353.9	1.34	38.36
45.0-46.0	1052.1	82.3	2436.2	1.34	39.70
46.0-47.0	1035.0	82.3	2518.6	1.34	41.04
47.0-48.0	1017.9	82.3	2600.9	1.34	42.38
48.0-49.0	1000.7	82.2	2683.0	1.34	43.72
49.0-50.0	983.3	82.0	2765.0	1.34	45.06
50.0-51.0	965.8	81.7	2846.8	1.33	46.39
51.0-52.0	948.3	81.4	2928.1	1.33	47.72
52.0-53.0	930.6	81.0	3009.1	1.32	49.04
53.0-54.0	912.7	80.5	3089.6	1.31	50.35
54.0-55.0	895.0	79.9	3169.5	1.30	51.65
55.0-56.0	877.1	79.3	3248.7	1.29	52.94
56.0-57.0	858.9	78.5	3327.3	1.28	54.22
57.0-58.0	840.7	77.8	3405.0	1.27	55.49
58.0-59.0	822.4	76.9	3481.9	1.25	56.74
59.0-60.0	804.0	76.0	3557.9	1.24	57.98
60.0-61.0	785.6	75.0	3632.9	1.22	59.20
61.0-62.0	767.0	73.9	3706.8	1.20	60.41
62.0-63.0	748.5	72.8	3779.6	1.19	61.59
63.0-64.0	729.9	71.6	3851.2	1.17	62.76
64.0-65.0	711.1	70.4	3921.6	1.15	63.91
65.0-66.0	692.3	69.1	3990.7	1.13	65.03
66.0-67.0	673.5	67.7	4058.4	1.10	66.14
67.0-68.0	654.7	66.3	4124.8	1.08	67.22
68.0-69.0	635.9	64.9	4189.6	1.06	68.28
69.0-70.0	617.0	63.4	4253.0	1.03	69.31
70.0-71.0	598.2	61.8	4314.9	1.01	70.32
71.0-72.0	579.5	60.3	4375.1	0.98	71.30

C Plane (°): 0.0-360.0: 30.0
 Test Lab: JIANGMEN
 Test Type: TYPE C
 Temperature: 35
 Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 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	561.0	58.7	4433.8	0.96	72.26
73.0-74.0	542.5	57.0	4490.8	0.93	73.18
74.0-75.0	524.1	55.4	4546.2	0.90	74.09
75.0-76.0	506.0	53.7	4599.9	0.88	74.96
76.0-77.0	487.9	52.0	4652.0	0.85	75.81
77.0-78.0	470.3	50.4	4702.3	0.82	76.63
78.0-79.0	453.0	48.7	4751.0	0.79	77.42
79.0-80.0	435.9	47.0	4798.0	0.77	78.19
80.0-81.0	419.3	45.3	4843.3	0.74	78.93
81.0-82.0	403.2	43.7	4887.1	0.71	79.64
82.0-83.0	387.6	42.1	4929.2	0.69	80.33
83.0-84.0	372.7	40.6	4969.8	0.66	80.99
84.0-85.0	358.5	39.1	5008.9	0.64	81.63
85.0-86.0	345.1	37.7	5046.7	0.61	82.24
86.0-87.0	332.5	36.4	5083.1	0.59	82.84
87.0-88.0	320.8	35.1	5118.2	0.57	83.41
88.0-89.0	310.2	34.0	5152.2	0.55	83.96
89.0-90.0	300.5	33.0	5185.2	0.54	84.50
90.0-91.0	291.8	32.0	5217.2	0.52	85.02
91.0-92.0	283.8	31.1	5248.3	0.51	85.53
92.0-93.0	276.4	30.3	5278.6	0.49	86.02
93.0-94.0	269.6	29.5	5308.1	0.48	86.50
94.0-95.0	263.2	28.8	5336.8	0.47	86.97
95.0-96.0	257.2	28.1	5364.9	0.46	87.43
96.0-97.0	251.4	27.4	5392.3	0.45	87.88
97.0-98.0	245.9	26.7	5419.0	0.44	88.31
98.0-99.0	240.6	26.1	5445.1	0.43	88.74
99.0-100.0	235.5	25.5	5470.6	0.42	89.15
100.0-101.0	230.6	24.9	5495.5	0.41	89.56
101.0-102.0	225.8	24.3	5519.7	0.40	89.95
102.0-103.0	221.1	23.7	5543.4	0.39	90.34
103.0-104.0	216.3	23.1	5566.5	0.38	90.71
104.0-105.0	211.0	22.4	5588.9	0.37	91.08
105.0-106.0	205.0	21.7	5610.5	0.35	91.43
106.0-107.0	199.2	20.9	5631.5	0.34	91.77
107.0-108.0	194.0	20.3	5651.8	0.33	92.10

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	188.9	19.6	5671.4	0.32	92.42
109.0-110.0	183.7	19.0	5690.4	0.31	92.73
110.0-111.0	178.7	18.4	5708.7	0.30	93.03
111.0-112.0	173.8	17.7	5726.5	0.29	93.32
112.0-113.0	169.5	17.2	5743.7	0.28	93.60
113.0-114.0	165.5	16.6	5760.3	0.27	93.87
114.0-115.0	161.6	16.1	5776.4	0.26	94.14
115.0-116.0	158.0	15.6	5792.1	0.25	94.39
116.0-117.0	154.5	15.2	5807.2	0.25	94.64
117.0-118.0	151.2	14.7	5821.9	0.24	94.88
118.0-119.0	148.0	14.3	5836.2	0.23	95.11
119.0-120.0	144.9	13.8	5850.0	0.23	95.33
120.0-121.0	141.9	13.4	5863.4	0.22	95.55
121.0-122.0	139.0	13.0	5876.4	0.21	95.76
122.0-123.0	136.4	12.6	5889.0	0.21	95.97
123.0-124.0	133.9	12.2	5901.3	0.20	96.17
124.0-125.0	131.5	11.9	5913.2	0.19	96.36
125.0-126.0	128.9	11.5	5924.7	0.19	96.55
126.0-127.0	126.3	11.1	5935.8	0.18	96.73
127.0-128.0	123.6	10.8	5946.6	0.18	96.91
128.0-129.0	120.9	10.4	5956.9	0.17	97.08
129.0-130.0	118.2	10.0	5966.9	0.16	97.24
130.0-131.0	115.6	9.6	5976.6	0.16	97.40
131.0-132.0	112.9	9.3	5985.9	0.15	97.55
132.0-133.0	110.3	8.9	5994.8	0.15	97.69
133.0-134.0	107.6	8.6	6003.3	0.14	97.83
134.0-135.0	105.0	8.2	6011.5	0.13	97.97
135.0-136.0	102.3	7.9	6019.4	0.13	98.09
136.0-137.0	99.7	7.5	6026.9	0.12	98.22
137.0-138.0	97.2	7.2	6034.1	0.12	98.33
138.0-139.0	94.6	6.9	6041.0	0.11	98.45
139.0-140.0	92.1	6.6	6047.6	0.11	98.55
140.0-141.0	89.7	6.3	6053.8	0.10	98.66
141.0-142.0	87.3	6.0	6059.8	0.10	98.75
142.0-143.0	84.9	5.7	6065.4	0.09	98.85
143.0-144.0	82.6	5.4	6070.8	0.09	98.93

C Plane (°): 0.0-360.0: 30.0
 Test Lab: JIANGMEN
 Test Type: TYPE C
 Temperature: 35
 Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	80.4	5.1	6076.0	0.08	99.02
145.0-146.0	78.2	4.9	6080.8	0.08	99.10
146.0-147.0	76.0	4.6	6085.4	0.07	99.17
147.0-148.0	73.7	4.3	6089.7	0.07	99.24
148.0-149.0	71.3	4.1	6093.8	0.07	99.31
149.0-150.0	68.8	3.8	6097.7	0.06	99.37
150.0-151.0	66.3	3.6	6101.2	0.06	99.43
151.0-152.0	63.8	3.3	6104.6	0.05	99.48
152.0-153.0	61.3	3.1	6107.7	0.05	99.53
153.0-154.0	58.8	2.9	6110.6	0.05	99.58
154.0-155.0	56.4	2.7	6113.2	0.04	99.62
155.0-156.0	54.1	2.5	6115.7	0.04	99.66
156.0-157.0	51.9	2.3	6118.0	0.04	99.70
157.0-158.0	49.8	2.1	6120.0	0.03	99.74
158.0-159.0	47.8	1.9	6122.0	0.03	99.77
159.0-160.0	45.8	1.8	6123.7	0.03	99.79
160.0-161.0	43.9	1.6	6125.3	0.03	99.82
161.0-162.0	42.0	1.5	6126.8	0.02	99.84
162.0-163.0	40.1	1.3	6128.1	0.02	99.87
163.0-164.0	38.2	1.2	6129.3	0.02	99.89
164.0-165.0	36.4	1.1	6130.4	0.02	99.90
165.0-166.0	34.6	1.0	6131.3	0.02	99.92
166.0-167.0	32.9	0.8	6132.2	0.01	99.93
167.0-168.0	31.2	0.7	6132.9	0.01	99.94
168.0-169.0	29.5	0.6	6133.5	0.01	99.96
169.0-170.0	28.0	0.6	6134.1	0.01	99.96
170.0-171.0	26.5	0.5	6134.6	0.01	99.97
171.0-172.0	25.0	0.4	6135.0	0.01	99.98
172.0-173.0	23.8	0.3	6135.3	0.01	99.98
173.0-174.0	22.5	0.3	6135.6	0.00	99.99
174.0-175.0	21.5	0.2	6135.8	0.00	99.99
175.0-176.0	20.5	0.2	6136.0	0.00	100.00
176.0-177.0	19.7	0.1	6136.1	0.00	100.00
177.0-178.0	18.9	0.1	6136.2	0.00	100.00
178.0-179.0	18.3	0.1	6136.3	0.00	100.00
179.0-180.0	17.8	0.0	6136.3	0.00	100.00

C Plane (°): 0.0-360.0: 30.0
 Test Lab: JIANGMEN
 Test Type: TYPE C
 Temperature: 35
 Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 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	1514.3	1509.2	1506.4	1505.0	1503.9	1501.5	1514.3	1509.2	1506.4	1505.0
G1.0	1514.3	1508.2	1504.8	1503.1	1502.2	1500.3	1513.7	1509.5	1507.8	1506.6
G2.0	1513.4	1506.5	1502.7	1501.1	1500.3	1498.4	1511.9	1509.1	1508.8	1508.2
G3.0	1511.6	1504.2	1500.6	1499.7	1498.6	1496.0	1509.8	1508.1	1509.3	1509.5
G4.0	1509.1	1501.4	1498.7	1498.9	1497.2	1493.1	1506.3	1506.4	1509.5	1510.3
G5.0	1505.9	1497.6	1497.2	1498.8	1496.1	1489.8	1502.6	1503.9	1509.0	1510.8
G6.0	1501.8	1493.9	1496.0	1499.2	1495.4	1486.1	1497.7	1500.9	1507.9	1510.7
G7.0	1497.0	1489.3	1494.8	1499.9	1494.7	1482.1	1492.3	1497.0	1506.3	1510.1
G8.0	1491.4	1484.4	1493.7	1500.1	1493.8	1477.8	1485.8	1492.4	1504.1	1509.0
G9.0	1484.8	1479.1	1492.3	1500.2	1492.6	1473.1	1478.8	1487.5	1501.5	1507.5
G10.0	1477.7	1473.2	1490.6	1500.0	1491.2	1467.9	1470.8	1481.4	1498.0	1505.3
G11.0	1469.5	1467.3	1488.4	1499.4	1489.1	1462.1	1462.3	1474.9	1494.3	1502.6
G12.0	1460.9	1460.8	1485.9	1498.5	1486.7	1456.3	1452.6	1467.5	1489.9	1499.3
G13.0	1451.3	1453.8	1482.8	1497.0	1484.0	1449.5	1442.4	1459.8	1484.8	1495.7
G14.0	1441.3	1446.2	1479.3	1495.3	1480.7	1442.2	1431.7	1451.2	1479.2	1491.4
G15.0	1430.4	1438.0	1475.4	1492.8	1476.8	1434.4	1420.4	1442.2	1473.2	1486.9
G16.0	1419.0	1429.4	1471.0	1490.2	1472.7	1426.1	1407.8	1432.3	1466.4	1481.6
G17.0	1407.0	1420.0	1465.9	1486.8	1468.0	1417.3	1394.6	1422.2	1459.3	1475.9
G18.0	1393.8	1410.3	1460.9	1483.3	1462.7	1407.9	1381.3	1411.0	1451.8	1469.8
G19.0	1380.2	1400.2	1455.1	1479.0	1456.9	1397.8	1366.6	1399.4	1443.8	1463.2
G20.0	1365.8	1389.6	1448.5	1474.3	1450.9	1387.3	1351.5	1387.3	1434.9	1456.1
G21.0	1351.2	1378.5	1441.7	1468.9	1444.2	1376.5	1336.3	1374.7	1425.9	1448.9
G22.0	1335.8	1366.7	1434.3	1463.3	1436.9	1365.3	1320.3	1361.1	1416.7	1441.1
G23.0	1320.1	1354.2	1426.6	1457.1	1429.4	1353.5	1303.5	1348.1	1407.1	1433.3
G24.0	1303.2	1341.5	1418.5	1450.4	1421.2	1340.8	1285.9	1333.7	1396.4	1425.1
G25.0	1286.9	1329.2	1409.7	1443.7	1412.8	1328.0	1267.5	1319.5	1386.0	1416.2
G26.0	1268.6	1314.8	1400.6	1436.3	1403.9	1314.5	1249.6	1304.3	1375.5	1407.6
G27.0	1251.6	1300.8	1391.3	1428.8	1394.8	1301.2	1230.7	1289.2	1364.1	1398.5
G28.0	1232.7	1286.6	1381.0	1420.4	1384.7	1286.9	1212.2	1273.3	1352.9	1389.1
G29.0	1214.5	1271.3	1371.1	1412.4	1375.0	1273.0	1192.0	1257.0	1341.2	1379.6
G30.0	1194.9	1256.7	1360.5	1403.6	1364.4	1257.9	1171.7	1240.9	1329.5	1370.0
G31.0	1175.0	1241.3	1349.6	1394.6	1353.7	1243.3	1151.3	1223.7	1317.4	1359.8
G32.0	1155.1	1225.5	1338.4	1385.0	1343.1	1227.5	1130.9	1206.5	1305.0	1350.0
G33.0	1134.8	1209.4	1326.8	1375.4	1331.5	1211.7	1109.7	1189.5	1292.2	1339.7
G34.0	1114.5	1192.9	1314.6	1365.5	1319.8	1195.7	1088.3	1171.5	1279.7	1329.5
G35.0	1094.2	1176.3	1302.8	1355.7	1308.0	1179.3	1066.1	1153.8	1266.6	1318.7
G36.0	1071.3	1159.3	1290.4	1345.3	1295.7	1162.7	1044.5	1135.6	1253.3	1308.1

C Plane (°):0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	1050.8	1142.5	1277.8	1334.7	1283.9	1146.2	1022.0	1117.1	1239.9	1297.1
G38.0	1029.2	1124.5	1264.8	1324.2	1271.0	1129.1	999.9	1098.8	1226.6	1286.2
G39.0	1007.5	1106.8	1251.7	1313.3	1258.5	1112.3	977.4	1080.0	1212.8	1274.8
G40.0	986.0	1089.0	1238.4	1302.2	1245.2	1094.8	955.2	1061.2	1199.3	1263.7
G41.0	963.9	1071.5	1225.1	1290.8	1232.0	1077.2	931.9	1041.8	1185.3	1251.9
G42.0	941.5	1052.4	1211.4	1279.3	1218.6	1059.4	908.9	1023.2	1170.8	1240.2
G43.0	919.1	1035.1	1197.4	1267.6	1205.6	1041.8	886.0	1004.0	1156.8	1228.1
G44.0	896.5	1016.2	1183.8	1255.7	1191.5	1023.6	862.9	985.1	1142.0	1216.2
G45.0	874.3	997.8	1169.5	1244.0	1177.8	1005.3	839.8	964.8	1127.4	1204.0
G46.0	851.6	979.0	1155.0	1231.7	1163.7	986.9	816.5	945.6	1112.8	1191.7
G47.0	829.6	960.1	1140.7	1219.6	1149.8	968.4	792.7	926.0	1097.1	1178.5
G48.0	806.7	940.9	1126.1	1206.8	1135.1	949.9	770.0	906.7	1082.6	1165.5
G49.0	784.2	922.8	1111.7	1194.3	1120.9	931.8	746.9	886.0	1066.8	1152.3
G50.0	761.6	903.2	1096.4	1181.2	1106.3	912.6	723.6	866.6	1051.5	1138.9
G51.0	739.3	884.2	1081.7	1168.4	1091.8	894.8	701.0	846.8	1035.3	1124.7
G52.0	716.7	865.5	1066.4	1155.0	1076.8	875.6	678.0	827.3	1019.7	1110.9
G53.0	694.1	847.2	1051.2	1142.1	1062.1	857.2	654.4	806.3	1003.1	1095.9
G54.0	672.0	828.0	1035.7	1128.3	1046.7	838.3	631.8	786.7	986.9	1081.3
G55.0	650.0	808.8	1020.7	1114.8	1031.8	820.3	608.9	766.6	970.1	1066.3
G56.0	627.6	789.9	1004.8	1100.3	1015.8	801.5	586.0	746.9	953.6	1050.7
G57.0	605.3	770.8	988.9	1086.3	1000.8	782.6	563.3	726.9	936.1	1034.4
G58.0	583.1	751.2	972.8	1071.8	984.6	763.7	541.8	706.4	919.2	1018.2
G59.0	561.4	732.3	956.9	1056.7	968.5	745.2	518.3	686.9	901.3	1002.0
G60.0	539.0	713.0	940.4	1041.6	952.5	726.1	496.5	666.8	884.5	985.4
G61.0	517.6	694.2	924.0	1026.3	937.0	708.1	473.9	646.9	865.8	967.3
G62.0	495.4	675.2	907.4	1010.3	920.1	688.9	452.7	626.9	848.1	950.1
G63.0	474.3	656.3	891.6	995.6	903.6	670.6	430.2	606.9	829.8	932.2
G64.0	452.5	637.1	874.5	978.8	887.0	651.7	408.3	587.3	811.4	914.3
G65.0	431.4	618.0	857.4	962.7	870.7	633.3	387.0	567.0	792.8	895.7
G66.0	410.0	600.0	840.3	945.9	853.3	614.6	365.1	548.2	774.2	876.9
G67.0	388.8	581.2	823.4	929.0	835.7	596.1	344.3	528.2	756.0	857.5
G68.0	368.3	562.9	805.7	911.9	818.8	578.0	323.2	509.2	737.2	838.8
G69.0	347.4	543.8	788.2	894.5	801.7	559.2	302.3	489.4	718.1	819.3
G70.0	326.7	525.8	771.0	877.2	783.8	541.3	281.2	470.7	698.8	799.3
G71.0	306.0	507.4	753.3	858.9	766.5	522.9	261.1	451.2	680.8	780.0
G72.0	286.1	489.4	736.0	841.7	748.7	504.7	240.9	432.8	661.9	760.2
G73.0	265.9	471.3	718.3	823.8	731.0	487.1	221.5	414.2	643.1	740.8

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:



Morris Products Inc.

Tel: 518-743-0523

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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	246.1	453.4	700.9	805.2	713.6	469.4	201.9	396.3	624.5	720.5
G75.0	226.5	435.7	683.8	787.2	695.6	451.4	182.8	378.5	606.5	701.4
G76.0	207.9	418.7	665.8	768.5	678.5	434.6	164.4	361.1	587.9	681.5
G77.0	188.2	401.1	648.0	750.2	660.5	416.7	145.4	343.4	570.6	662.7
G78.0	170.6	384.1	631.3	732.7	643.0	400.7	128.1	327.3	553.1	644.1
G79.0	152.1	367.1	613.3	713.1	625.7	383.8	111.3	311.6	536.0	625.4
G80.0	134.5	351.1	596.4	695.3	608.4	367.6	94.6	295.9	519.2	606.7
G81.0	117.1	335.2	579.2	677.1	591.4	351.9	79.4	281.8	503.2	589.1
G82.0	101.2	319.4	562.5	659.2	574.6	336.6	64.5	267.2	487.6	571.8
G83.0	85.4	304.4	546.1	640.9	558.1	321.6	51.4	254.8	473.0	555.4
G84.0	70.9	289.7	529.7	623.4	542.0	307.4	39.3	242.8	458.5	538.9
G85.0	57.1	276.0	513.7	605.8	525.5	293.6	28.9	232.1	445.3	523.4
G86.0	45.1	262.8	498.5	589.0	510.8	281.0	19.5	222.4	432.4	508.7
G87.0	33.7	250.0	483.3	572.6	495.0	268.6	12.4	213.9	420.8	494.9
G88.0	24.1	238.5	469.3	556.3	481.2	257.0	7.5	206.8	409.2	481.2
G89.0	16.1	227.9	455.5	540.2	467.0	246.8	5.7	200.5	398.9	468.8
G90.0	10.3	218.7	442.9	525.9	454.1	237.7	5.7	195.0	388.5	456.2
G91.0	7.2	210.5	430.3	510.9	441.7	229.4	5.7	190.0	379.1	445.0
G92.0	6.6	203.6	418.5	497.5	429.6	222.5	5.6	185.2	370.2	433.5
G93.0	6.5	197.6	407.7	483.8	418.3	216.4	5.7	180.9	361.7	423.0
G94.0	6.4	192.6	397.4	471.7	408.2	211.1	5.8	176.7	353.4	412.7
G95.0	6.3	188.1	387.9	459.6	398.0	206.3	6.0	172.8	345.8	403.1
G96.0	6.3	184.3	379.0	448.3	388.9	202.1	6.2	168.8	337.6	393.7
G97.0	6.3	180.5	370.3	437.3	379.9	198.0	6.4	165.2	330.5	384.6
G98.0	6.2	177.2	362.5	427.2	371.5	194.3	6.6	161.6	323.3	375.9
G99.0	6.3	173.9	354.6	417.4	363.4	190.6	6.7	158.1	316.4	367.8
G100.0	6.4	170.9	347.2	407.7	355.7	187.2	7.0	154.3	309.7	359.4
G101.0	6.5	167.9	339.8	398.6	348.1	183.7	7.2	150.6	303.2	351.9
G102.0	6.8	165.0	333.3	389.9	340.8	180.4	7.4	146.7	296.7	344.3
G103.0	7.0	161.9	326.2	381.0	333.9	177.4	7.6	143.0	290.7	337.0
G104.0	7.1	157.6	319.7	373.4	327.2	174.3	7.8	139.2	282.9	330.0
G105.0	7.3	151.7	313.4	365.0	320.3	171.2	8.0	135.6	268.2	323.3
G106.0	7.4	145.8	307.2	357.6	314.1	168.3	8.2	132.1	254.9	316.5
G107.0	7.6	142.9	301.1	350.0	307.9	165.5	8.5	128.6	244.1	308.0
G108.0	7.7	142.1	293.6	342.9	301.4	162.6	8.7	125.1	237.5	296.6
G109.0	7.9	141.9	280.0	335.9	288.5	159.9	8.9	120.8	233.2	287.6
G110.0	8.0	141.1	266.7	329.2	274.2	157.1	9.1	115.4	228.7	281.3

C Plane (°):0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	8.1	139.2	256.5	318.8	263.7	154.2	9.3	110.0	224.2	275.8
G112.0	8.3	136.0	250.4	307.2	255.7	149.9	9.5	104.6	219.7	270.2
G113.0	8.4	131.6	246.4	299.6	251.4	144.9	9.7	99.5	215.3	264.8
G114.0	8.5	127.0	242.2	293.1	247.3	139.8	10.0	95.4	210.8	259.5
G115.0	8.7	122.5	238.2	287.5	243.1	135.1	10.2	92.3	206.3	254.2
G116.0	8.8	118.6	233.7	282.0	238.9	131.1	10.4	89.8	201.9	249.0
G117.0	9.0	116.0	228.7	276.6	234.9	128.4	10.6	87.7	197.6	243.7
G118.0	9.1	113.9	222.1	271.5	230.8	125.9	10.8	85.7	193.2	238.8
G119.0	9.3	111.9	214.3	266.3	226.8	123.7	11.0	84.0	188.8	233.8
G120.0	9.4	109.9	207.9	261.2	222.9	121.6	11.4	82.4	184.4	228.9
G121.0	9.6	108.0	202.0	256.1	218.9	119.5	11.7	80.9	180.1	224.1
G122.0	9.8	106.2	197.5	251.4	214.8	117.4	11.9	79.3	175.8	219.3
G123.0	10.0	104.3	195.1	246.7	211.1	115.4	12.1	77.8	171.5	214.4
G124.0	10.2	102.5	193.7	242.0	207.2	113.4	12.1	76.2	167.3	209.9
G125.0	10.2	100.8	191.2	237.4	203.4	111.3	12.2	74.6	163.0	205.1
G126.0	10.4	99.0	187.9	232.7	199.6	109.3	12.4	73.0	158.9	200.6
G127.0	10.6	97.2	183.8	228.3	195.8	107.2	12.6	71.3	154.7	195.8
G128.0	10.7	95.4	180.4	223.7	191.9	105.1	12.7	69.6	150.6	191.4
G129.0	10.9	93.6	177.9	219.3	188.3	103.2	12.9	67.8	146.4	186.7
G130.0	11.0	92.0	175.3	215.0	184.5	101.1	13.1	65.9	142.4	182.2
G131.0	11.1	90.3	172.6	210.5	181.0	99.0	13.3	64.1	138.5	177.7
G132.0	11.3	88.5	170.0	206.3	177.1	97.0	13.5	62.5	134.7	173.2
G133.0	11.5	86.8	167.1	202.0	173.4	95.0	13.6	60.9	131.1	168.6
G134.0	11.6	84.4	163.8	197.6	169.7	92.8	13.8	59.3	127.9	164.1
G135.0	11.7	81.5	160.3	193.4	166.1	90.8	14.0	57.7	124.6	159.5
G136.0	11.9	78.6	156.8	189.1	162.4	88.7	14.2	56.0	121.3	155.0
G137.0	12.0	75.8	153.4	184.9	158.7	86.7	14.4	54.2	118.0	150.6
G138.0	12.2	73.0	149.7	180.6	155.1	84.5	14.5	52.3	114.8	146.4
G139.0	12.3	70.5	146.3	176.3	151.4	82.2	14.7	50.5	111.5	142.2
G140.0	12.5	68.1	142.6	172.1	147.6	80.1	14.8	48.8	108.3	138.2
G141.0	12.6	65.8	139.0	167.9	143.9	78.3	15.0	47.3	105.1	134.2
G142.0	12.8	63.4	135.3	163.6	140.1	76.3	15.2	45.8	102.1	130.2
G143.0	12.9	61.3	131.7	159.4	136.3	74.5	15.4	44.4	99.1	126.2
G144.0	13.0	59.5	127.9	155.0	132.6	72.6	15.5	43.1	96.2	122.1
G145.0	13.2	58.2	124.3	151.0	128.7	70.8	15.8	41.8	93.1	118.1
G146.0	13.4	56.8	120.4	146.6	125.1	69.0	16.1	40.4	90.1	114.1
G147.0	13.6	55.7	117.0	142.2	121.3	67.2	16.2	39.0	87.0	110.1

C Plane (°): 0.0-360.0: 30.0
 Test Lab: JIANGMEN
 Test Type: TYPE C
 Temperature: 35
 Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	13.9	55.0	112.9	137.8	117.6	65.4	16.4	37.7	84.0	106.1
G149.0	14.0	53.8	107.9	133.6	113.9	63.7	16.5	36.3	80.9	102.0
G150.0	14.2	52.6	102.5	129.2	110.1	61.8	16.6	35.1	77.8	98.0
G151.0	14.4	51.0	97.4	125.1	106.5	60.0	16.8	33.9	74.6	93.9
G152.0	14.4	49.7	92.4	120.6	102.8	58.0	16.9	32.7	71.5	90.0
G153.0	14.6	48.9	87.5	116.4	98.9	56.2	17.0	31.4	68.4	85.8
G154.0	14.7	47.9	82.9	111.8	95.3	54.4	17.0	30.2	65.4	81.8
G155.0	14.9	46.7	78.5	107.3	91.9	52.9	17.2	29.0	62.2	77.8
G156.0	15.0	45.5	74.5	102.9	88.5	51.5	17.2	27.8	59.2	73.9
G157.0	15.1	44.3	70.6	98.3	85.1	50.0	17.3	26.7	55.9	69.9
G158.0	15.2	43.0	67.4	94.2	81.9	48.7	17.4	25.6	52.9	65.9
G159.0	15.3	41.6	64.7	90.2	78.5	47.2	17.5	24.5	49.8	62.2
G160.0	15.5	40.2	62.3	85.9	75.3	45.7	17.6	23.4	46.8	58.3
G161.0	15.6	39.0	59.9	81.7	71.8	44.3	17.7	22.4	43.8	54.5
G162.0	15.7	37.9	57.3	77.6	68.5	42.9	17.7	21.4	41.1	50.8
G163.0	15.9	36.9	54.8	73.3	65.2	41.4	17.8	20.5	38.3	47.2
G164.0	16.0	35.9	52.5	69.6	62.0	40.0	17.9	19.6	35.6	43.7
G165.0	16.2	35.0	50.1	65.7	58.9	38.5	17.9	18.7	33.0	40.4
G166.0	16.3	34.1	47.7	61.9	55.9	37.2	18.0	18.0	30.5	37.1
G167.0	16.5	33.1	44.8	58.3	52.8	35.7	18.0	17.3	28.2	34.0
G168.0	16.6	32.1	42.1	54.8	49.9	34.2	18.1	16.8	25.9	31.0
G169.0	16.8	31.0	39.3	51.4	46.9	32.5	18.1	16.3	23.7	28.2
G170.0	16.9	29.8	37.1	48.1	44.0	31.0	18.2	16.1	21.8	25.5
G171.0	17.1	28.5	34.6	44.8	41.2	29.5	18.2	15.9	20.0	22.6
G172.0	17.2	27.3	32.5	41.5	38.4	28.0	18.3	15.8	18.5	20.7
G173.0	17.3	26.0	30.7	38.1	35.7	26.5	18.3	15.9	17.2	18.7
G174.0	17.5	24.9	28.7	34.7	32.9	25.1	18.3	15.9	16.3	17.2
G175.0	17.6	23.7	27.3	31.6	30.0	23.6	18.3	15.9	16.0	16.3
G176.0	17.7	22.6	25.5	28.6	27.3	22.1	18.3	16.0	15.9	15.9
G177.0	17.8	21.4	23.5	25.6	24.6	20.6	18.3	16.4	15.9	15.9
G178.0	17.9	20.3	21.5	22.2	22.0	19.2	18.3	17.0	16.1	15.9
G179.0	18.0	19.2	19.8	19.5	19.4	18.0	18.3	17.6	16.9	15.9
G180.0	18.1	18.3	18.0	16.6	17.6	17.2	18.2	18.3	18.0	16.6

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:



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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1503.9	1501.5	1514.3							
G1.0	1505.3	1502.0	1514.3							
G2.0	1506.5	1502.1	1513.4							
G3.0	1507.1	1501.4	1511.6							
G4.0	1507.4	1500.1	1509.1							
G5.0	1507.2	1498.2	1505.9							
G6.0	1506.4	1495.5	1501.8							
G7.0	1505.2	1492.2	1497.0							
G8.0	1503.3	1488.3	1491.4							
G9.0	1500.8	1483.6	1484.8							
G10.0	1497.8	1478.4	1477.7							
G11.0	1494.4	1472.2	1469.5							
G12.0	1490.0	1465.5	1460.9							
G13.0	1485.5	1458.4	1451.3							
G14.0	1480.4	1450.4	1441.3							
G15.0	1474.6	1442.0	1430.4							
G16.0	1468.3	1432.8	1419.0							
G17.0	1461.7	1423.1	1407.0							
G18.0	1454.3	1412.7	1393.8							
G19.0	1446.7	1401.5	1380.2							
G20.0	1438.3	1390.3	1365.8							
G21.0	1430.0	1378.6	1351.2							
G22.0	1420.7	1365.9	1335.8							
G23.0	1411.2	1352.7	1320.1							
G24.0	1401.5	1339.6	1303.2							
G25.0	1391.3	1325.2	1286.9							
G26.0	1380.7	1311.2	1268.6							
G27.0	1370.3	1296.1	1251.6							
G28.0	1359.3	1281.1	1232.7							
G29.0	1348.2	1265.4	1214.5							
G30.0	1336.6	1249.6	1194.9							
G31.0	1324.5	1232.9	1175.0							
G32.0	1312.8	1217.0	1155.1							
G33.0	1300.7	1199.8	1134.8							
G34.0	1288.6	1182.8	1114.5							
G35.0	1275.7	1165.3	1094.2							
G36.0	1262.7	1148.0	1071.3							

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:



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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1249.9	1130.1	1050.8							
G38.0	1236.8	1112.4	1029.2							
G39.0	1223.4	1093.8	1007.5							
G40.0	1210.0	1075.9	986.0							
G41.0	1196.0	1057.4	963.9							
G42.0	1182.2	1039.0	941.5							
G43.0	1168.5	1020.2	919.1							
G44.0	1154.1	1001.9	896.5							
G45.0	1140.0	982.1	874.3							
G46.0	1125.9	963.3	851.6							
G47.0	1110.8	944.2	829.6							
G48.0	1096.7	925.0	806.7							
G49.0	1081.3	905.5	784.2							
G50.0	1065.6	886.3	761.6							
G51.0	1050.5	866.7	739.3							
G52.0	1034.7	848.1	716.7							
G53.0	1018.4	827.6	694.1							
G54.0	1002.3	808.1	672.0							
G55.0	986.2	788.8	650.0							
G56.0	969.9	769.0	627.6							
G57.0	953.1	749.8	605.3							
G58.0	936.1	729.7	583.1							
G59.0	918.5	710.1	561.4							
G60.0	901.5	690.9	539.0							
G61.0	883.8	670.9	517.6							
G62.0	866.3	651.6	495.4							
G63.0	847.9	631.9	474.3							
G64.0	830.0	612.7	452.5							
G65.0	811.6	593.4	431.4							
G66.0	793.2	573.3	410.0							
G67.0	775.0	553.9	388.8							
G68.0	756.0	535.1	368.3							
G69.0	736.8	516.1	347.4							
G70.0	718.5	496.7	326.7							
G71.0	699.8	478.2	306.0							
G72.0	680.8	459.5	286.1							
G73.0	662.1	441.9	265.9							

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:



Morris Products Inc.

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Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	643.8	423.3	246.1							
G75.0	625.3	405.4	226.5							
G76.0	607.0	387.6	207.9							
G77.0	589.4	370.6	188.2							
G78.0	571.3	354.0	170.6							
G79.0	553.8	338.2	152.1							
G80.0	537.2	322.6	134.5							
G81.0	520.6	307.5	117.1							
G82.0	504.2	293.5	101.2							
G83.0	489.5	280.0	85.4							
G84.0	474.5	267.4	70.9							
G85.0	460.9	256.1	57.1							
G86.0	447.3	245.8	45.1							
G87.0	435.1	236.6	33.7							
G88.0	423.4	228.3	24.1							
G89.0	412.5	221.4	16.1							
G90.0	401.9	215.0	10.3							
G91.0	392.2	209.4	7.2							
G92.0	382.5	204.2	6.6							
G93.0	373.4	199.6	6.5							
G94.0	364.6	195.0	6.4							
G95.0	356.6	190.8	6.3							
G96.0	348.6	186.8	6.3							
G97.0	341.1	182.7	6.3							
G98.0	333.7	178.9	6.2							
G99.0	326.2	175.0	6.3							
G100.0	319.1	171.4	6.4							
G101.0	312.5	167.6	6.5							
G102.0	305.7	163.6	6.8							
G103.0	299.5	159.8	7.0							
G104.0	293.0	155.2	7.1							
G105.0	283.8	148.4	7.3							
G106.0	269.6	141.9	7.4							
G107.0	258.2	135.9	7.6							
G108.0	249.0	130.7	7.7							
G109.0	243.8	127.1	7.9							
G110.0	239.1	123.4	8.0							

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	234.5	120.3	8.1							
G112.0	229.7	116.5	8.3							
G113.0	225.1	112.9	8.4							
G114.0	219.5	109.5	8.5							
G115.0	212.5	106.4	8.7							
G116.0	206.8	103.4	8.8							
G117.0	200.9	100.4	9.0							
G118.0	195.3	97.6	9.1							
G119.0	191.6	94.9	9.3							
G120.0	187.6	92.5	9.4							
G121.0	183.3	90.5	9.6							
G122.0	179.8	88.7	9.8							
G123.0	176.2	87.0	10.0							
G124.0	172.9	85.4	10.2							
G125.0	169.3	83.9	10.2							
G126.0	165.3	82.3	10.4							
G127.0	161.0	80.6	10.6							
G128.0	156.3	78.7	10.7							
G129.0	151.2	76.7	10.9							
G130.0	145.9	74.6	11.0							
G131.0	141.0	71.7	11.1							
G132.0	136.2	68.7	11.3							
G133.0	131.4	65.8	11.5							
G134.0	126.7	63.7	11.6							
G135.0	122.2	61.8	11.7							
G136.0	118.5	59.5	11.9							
G137.0	115.9	56.7	12.0							
G138.0	112.8	54.2	12.2							
G139.0	109.9	52.7	12.3							
G140.0	106.6	51.1	12.5							
G141.0	103.2	49.4	12.6							
G142.0	100.3	47.9	12.8							
G143.0	97.3	46.4	12.9							
G144.0	95.1	45.0	13.0							
G145.0	92.9	43.7	13.2							
G146.0	90.5	42.5	13.4							
G147.0	87.6	41.2	13.6							

C Plane (°): 0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:



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Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	83.9	39.9	13.9							
G149.0	79.7	38.7	14.0							
G150.0	75.7	37.4	14.2							
G151.0	71.4	36.1	14.4							
G152.0	66.8	34.8	14.4							
G153.0	61.8	33.6	14.6							
G154.0	57.3	32.1	14.7							
G155.0	53.4	30.7	14.9							
G156.0	50.1	29.3	15.0							
G157.0	47.9	28.2	15.1							
G158.0	46.3	27.1	15.2							
G159.0	43.8	26.0	15.3							
G160.0	41.8	24.9	15.5							
G161.0	40.3	23.9	15.6							
G162.0	38.2	23.0	15.7							
G163.0	35.9	22.0	15.9							
G164.0	33.7	21.1	16.0							
G165.0	31.5	20.2	16.2							
G166.0	29.3	19.3	16.3							
G167.0	27.3	18.5	16.5							
G168.0	25.3	17.7	16.6							
G169.0	23.3	17.0	16.8							
G170.0	21.5	16.4	16.9							
G171.0	20.1	16.0	17.1							
G172.0	18.7	15.7	17.2							
G173.0	17.5	15.6	17.3							
G174.0	16.5	15.6	17.5							
G175.0	15.9	15.6	17.6							
G176.0	15.7	15.6	17.7							
G177.0	15.7	15.7	17.8							
G178.0	15.8	16.1	17.9							
G179.0	16.5	16.6	18.0							
G180.0	17.6	17.2	18.1							

C Plane (°):0.0-360.0: 30.0
Test Lab: JIANGMEN
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector: