Report No.: 001 Test Time: 2022-08-08 15:52

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: Outdoor lighting
Luminaire Description: HCP-242181-5K
Lamp Catalog: SMT
Voltage: 230.7 V
Current: 0.075 A
Power: 16.82 W
Power Factor: 0.972

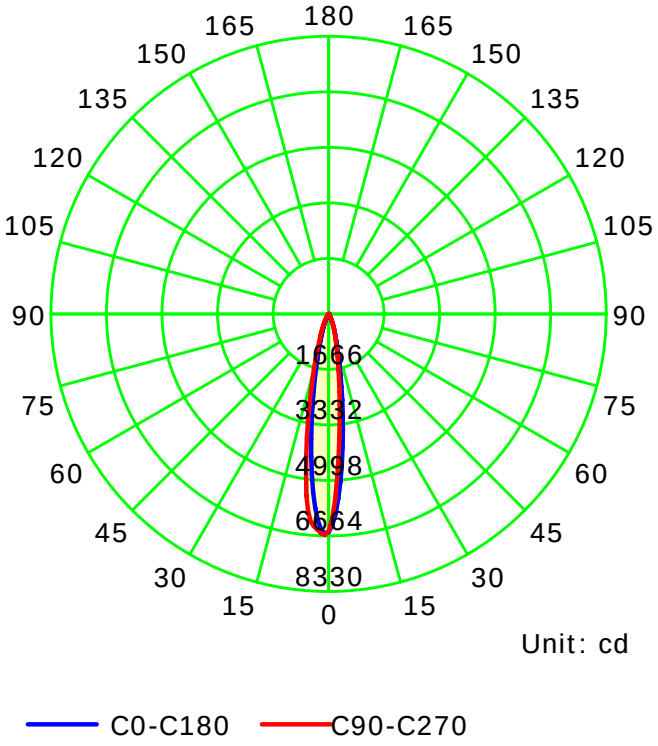
Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 905.2 lm
Measurement Flux: 905.2 lm
Efficiency: 100%
Downward Ratio: 100%
Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 36.3, 38.2, 36.9, 37.4
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 16.5, 16.6, 16.7, 16.5
Luminaire Efficacy Rating (LER): 53.87
Central Intensity: 6545.36 cd
Max. Intensity: 6664.26 cd
Pos of Max. Intensity: H225 V1
S/MH(C0/C180): 0.28
S/MH(C90/C270): 0.30

Picture Of Luminaire

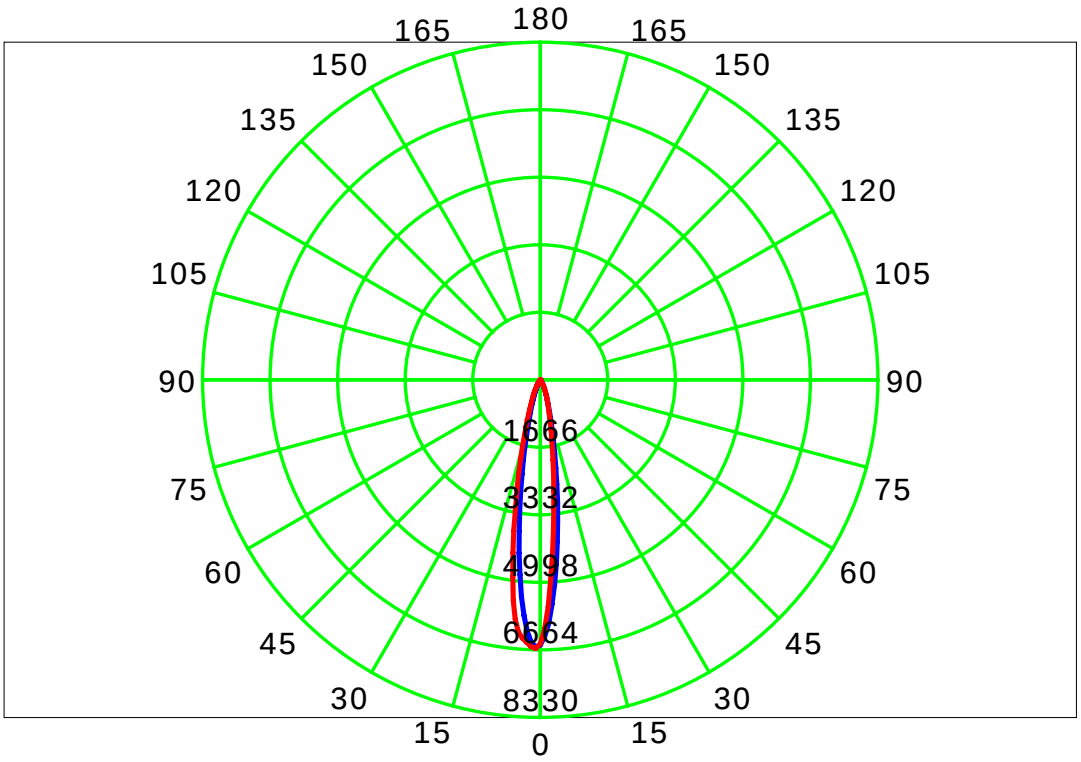


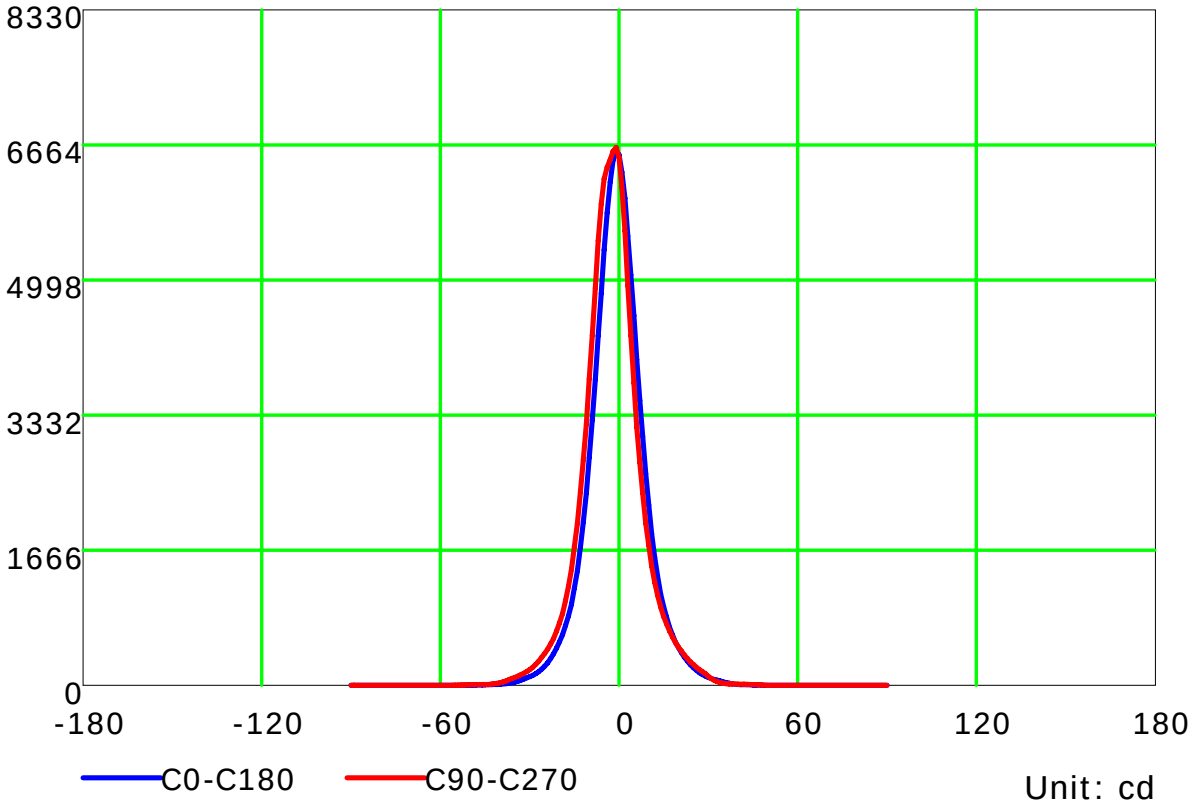
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-90.0:1.0
Test Lab: NINGBO LED LIGHTING
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 6.500 m
Temperature: 25°C
Humidity:
Operator: DING LI
Inspector:

Luminous Intensity Distribution Curve

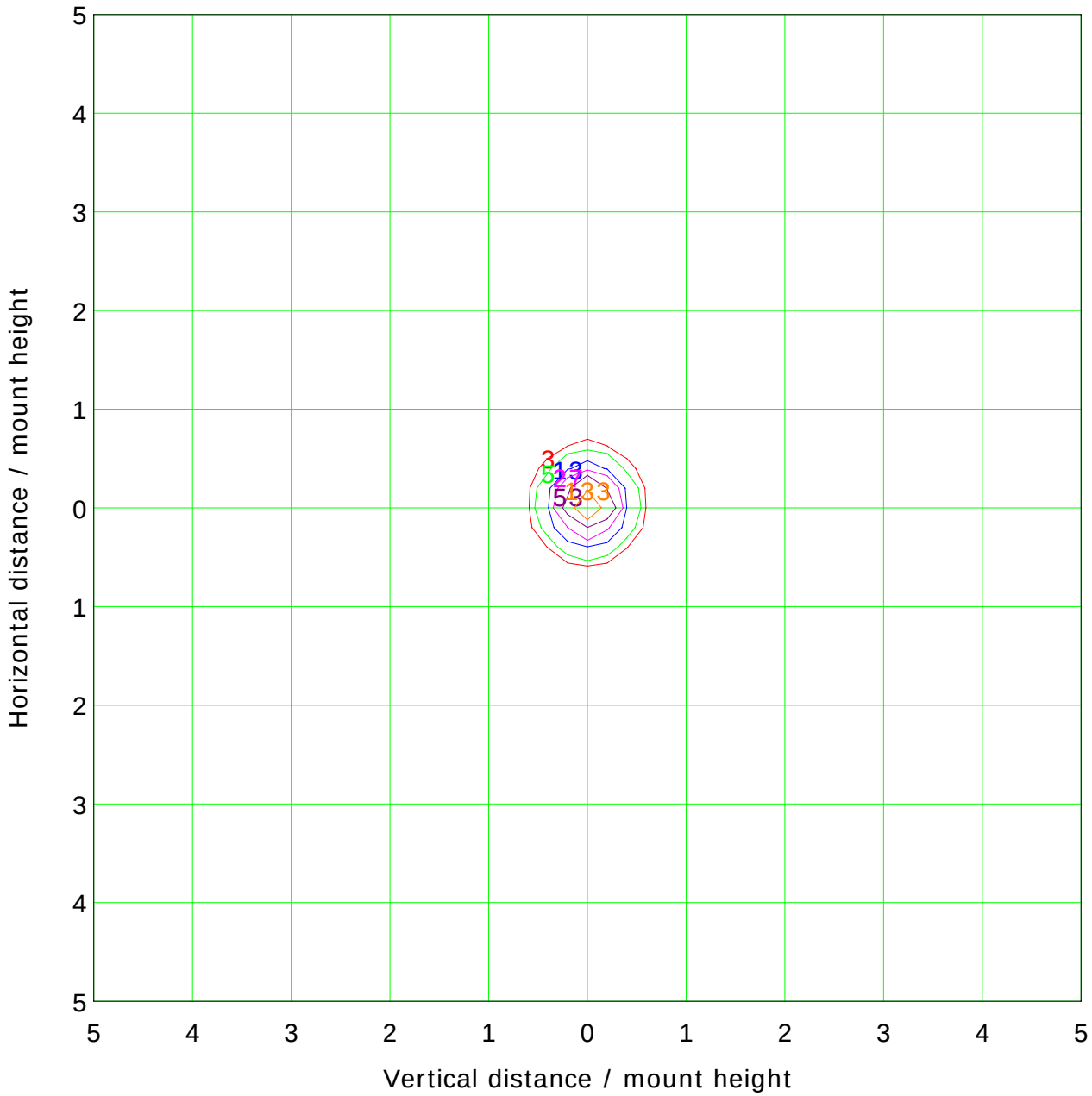




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Inspector:

IsoLux Plot

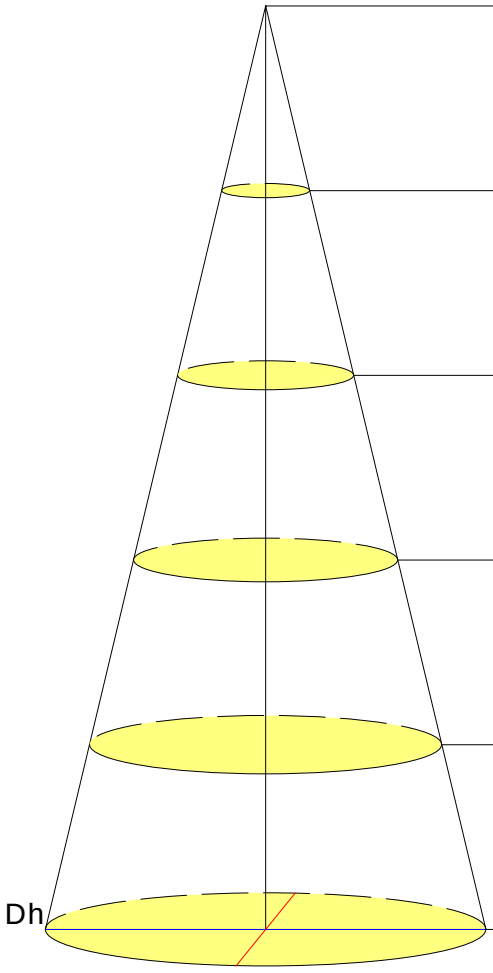


Mounting Height: 5.0m
Max Lux(100%): 266.4 lx

(1%): 2.7 lx
(2%): 5.3 lx
(5%): 13.3 lx
(10%): 26.6 lx
(20%): 53.3 lx
(50%): 133.2 lx
(100%): 266.4 lx

C Plane (°):0.0-360.0: 45.0
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Test Lab: NINGBO LED LIGHTING
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Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	6545.36	0.29/0.29	0.1	3895.76
2.0	1636.34	0.58/0.58	0.3	973.94
3.0	727.26	0.87/0.87	0.6	432.86
4.0	409.08	1.16/1.17	1.1	243.49
5.0	261.81	1.45/1.46	1.8	155.83

Beam Angle(B): H16.5 V16.6 Field Angle(F): H36.3 V38.2

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Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.500 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.$/-1.$					-1.$/-1.$				
S=1.5H	-1.$/-1.$					-1.$/-1.$				
S=2.0H	-1.$/-1.$					-1.$/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 905lm (8log(F/F0) = -0.3).

C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.500 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	6545.4	6490.5	6514.0	6411.6	6545.4	6490.5	6514.0	6411.6	6545.4	
G1.0	6330.3	6120.3	6144.5	6187.6	6588.2	6664.3	6632.9	6455.3	6330.3	
G2.0	6007.5	5583.9	5606.1	5778.1	6477.2	6641.3	6588.5	6357.3	6007.5	
G3.0	5543.9	4950.6	4930.2	5228.7	6207.5	6485.4	6484.1	6170.3	5543.9	
G4.0	5061.1	4353.0	4316.3	4653.4	5828.9	6318.3	6390.5	5929.9	5061.1	
G5.0	4560.7	3811.6	3729.4	4112.1	5372.4	6096.0	6246.1	5601.0	4560.7	
G6.0	4015.2	3277.8	3183.6	3557.7	4832.7	5768.1	5937.1	5140.7	4015.2	
G7.0	3515.1	2819.8	2748.3	3087.4	4311.7	5351.2	5486.7	4650.5	3515.1	
G8.0	3070.1	2396.7	2369.4	2614.4	3772.3	4836.3	4898.3	4161.7	3070.1	
G9.0	2610.5	2060.4	1998.7	2254.1	3274.2	4278.0	4316.0	3630.7	2610.5	
G10.0	2220.9	1759.8	1725.4	1940.0	2810.6	3755.2	3781.2	3141.5	2220.9	
G11.0	1869.3	1490.1	1471.8	1635.8	2369.4	3222.9	3221.6	2672.5	1869.3	
G12.0	1578.9	1285.5	1272.5	1412.6	2014.7	2769.3	2781.5	2284.2	1578.9	
G13.0	1346.7	1106.4	1112.8	1222.5	1707.3	2341.6	2390.3	1927.7	1346.7	
G14.0	1127.3	950.0	968.3	1042.3	1412.3	1946.1	1997.4	1613.4	1127.3	
G15.0	968.3	835.9	848.7	912.5	1199.8	1640.2	1709.1	1359.8	968.3	
G16.0	842.0	719.0	758.6	793.5	999.7	1371.5	1430.4	1165.1	842.0	
G17.0	714.5	633.6	669.3	693.3	855.8	1140.1	1218.9	987.7	714.5	
G18.0	622.1	559.1	595.0	609.6	739.5	961.2	1047.7	842.0	622.1	
G19.0	531.0	482.3	527.4	528.2	624.9	811.7	883.6	725.2	531.0	
G20.0	464.1	421.3	469.0	464.1	538.4	693.0	768.5	627.2	464.1	
G21.0	404.4	367.4	422.5	404.9	460.3	600.9	670.3	547.3	404.4	
G22.0	346.8	320.0	371.3	352.9	390.6	513.4	577.9	469.8	346.8	
G23.0	300.6	277.6	331.5	306.2	333.2	439.9	510.6	416.2	300.6	
G24.0	256.2	237.3	289.6	264.6	276.9	381.2	444.5	360.8	256.2	
G25.0	217.6	207.7	257.0	229.1	235.5	320.7	392.4	308.0	217.6	
G26.0	187.5	179.4	224.0	198.0	200.3	274.8	345.5	266.6	187.5	
G27.0	156.7	153.6	194.7	168.4	169.4	230.7	297.3	226.1	156.7	
G28.0	135.0	132.2	170.2	142.4	145.7	196.2	260.0	194.7	135.0	
G29.0	115.8	112.3	144.7	118.4	124.3	167.4	222.5	165.1	115.8	
G30.0	98.5	94.7	111.0	92.1	106.9	140.6	194.2	140.9	98.5	
G31.0	85.7	78.6	82.9	67.6	92.9	121.7	170.7	119.4	85.7	
G32.0	72.5	56.1	61.5	47.7	77.8	104.9	148.3	101.8	72.5	
G33.0	63.5	39.0	46.4	34.5	63.5	88.5	130.6	87.0	63.5	
G34.0	54.1	27.0	34.7	25.3	51.0	75.5	114.3	75.0	54.1	
G35.0	43.1	17.9	26.5	16.6	40.6	60.7	98.5	63.0	43.1	
G36.0	34.2	10.2	20.2	10.5	32.9	44.9	86.0	53.6	34.2	

C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.500 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	26.0	5.4	17.4	5.1	26.5	33.4	70.9	43.1	26.0	
G38.0	19.4	0.0	18.4	1.5	20.7	23.7	54.9	32.2	19.4	
G39.0	15.3	0.0	17.1	0.0	16.3	17.4	41.6	21.9	15.3	
G40.0	11.0	0.0	15.6	0.0	12.5	10.2	31.9	15.6	11.0	
G41.0	9.7	0.0	15.1	0.0	11.7	4.3	24.8	10.2	9.7	
G42.0	8.4	0.0	14.5	0.0	11.0	2.3	19.9	5.4	8.4	
G43.0	8.2	0.0	13.0	0.0	9.2	0.0	15.1	1.3	8.2	
G44.0	6.4	0.0	11.7	0.0	8.4	0.0	11.7	0.0	6.4	
G45.0	5.4	0.0	9.4	0.0	7.4	0.0	10.7	0.0	5.4	
G46.0	3.6	0.0	8.7	0.0	5.9	0.0	10.7	0.0	3.6	
G47.0	3.6	0.0	6.1	0.0	5.4	0.0	9.7	0.0	3.6	
G48.0	2.8	0.0	4.3	0.0	4.3	0.0	8.9	0.0	2.8	
G49.0	1.8	0.0	3.1	0.0	3.8	0.0	8.2	0.0	1.8	
G50.0	1.3	0.0	0.8	0.0	2.8	0.0	7.1	0.0	1.3	
G51.0	0.8	0.0	0.0	0.0	1.5	0.0	6.1	0.0	0.8	
G52.0	0.8	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.8	
G53.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	
G54.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	
G55.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	
G56.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	
G57.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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Temperature: 25°C
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Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.500 m
Humidity:
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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