HAVIT COMMERCIAL
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Report No.: 001 Test Time: 2019-12-05 15:55

Luminaire Property

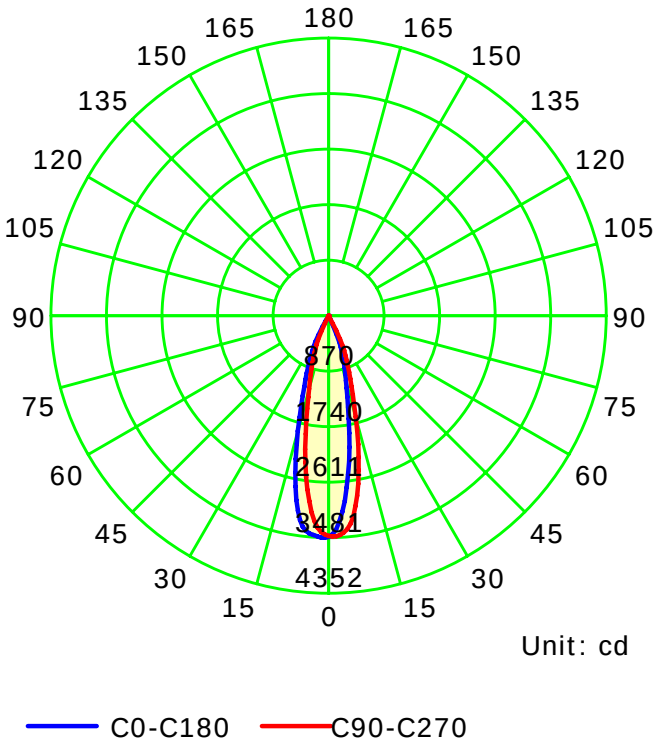
Luminaire Manufacturer:
Luminaire Category: Outdoor lighting
Luminaire Description: HCP-242012-WW,HCP-241012-WW
Lamp Catalog: COB Luminous Length (mm): -65
Luminous Width (mm): -65 Luminous Height (mm): 0
Voltage: 24.0V Current: 0.50A
Power: 12.0W Power Factor: 0.000

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 845.0 lm
Measurement Flux: 845 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 50.7, 50.9, 50.5, 50.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 26.2, 26.4, 26.1, 26.5
Luminaire Efficacy Rating (LER): 70.47 Central Intensity: 3468.68 cd
Max. Intensity: 3481.77 cd Pos of Max. Intensity: H180 V1
S/MH(C0/C180): 0.45 S/MH(C90/C270): 0.45

Picture Of Luminaire

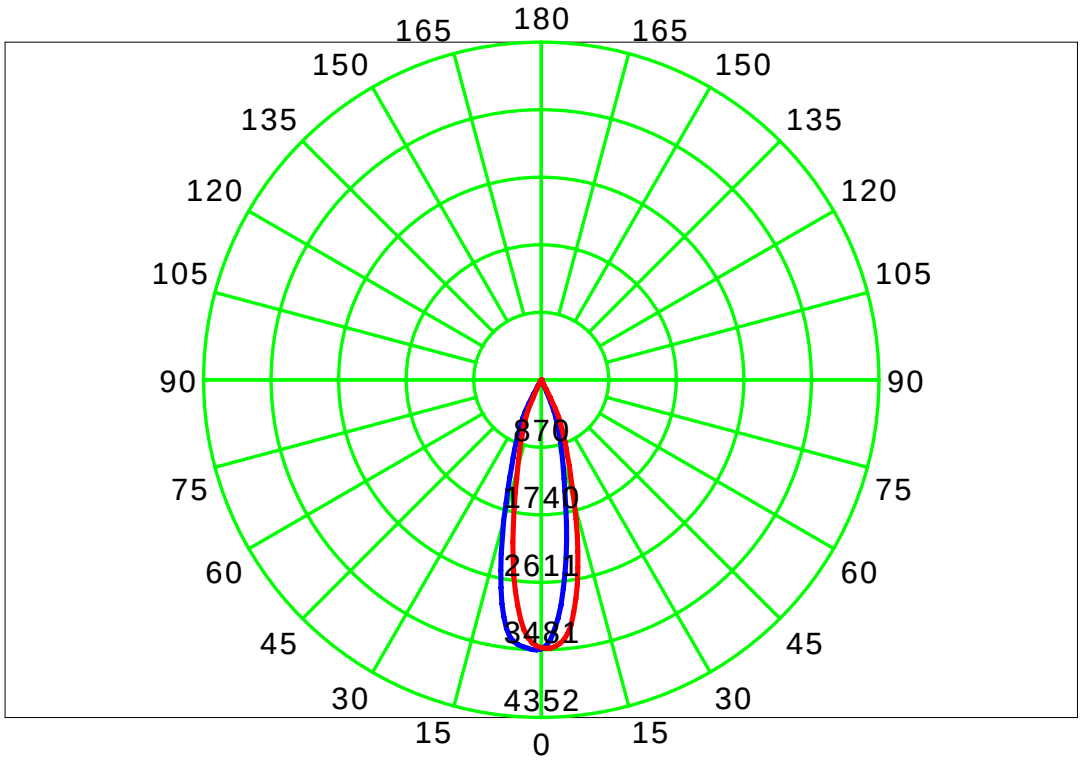
Luminous Intensity Distribution Curve

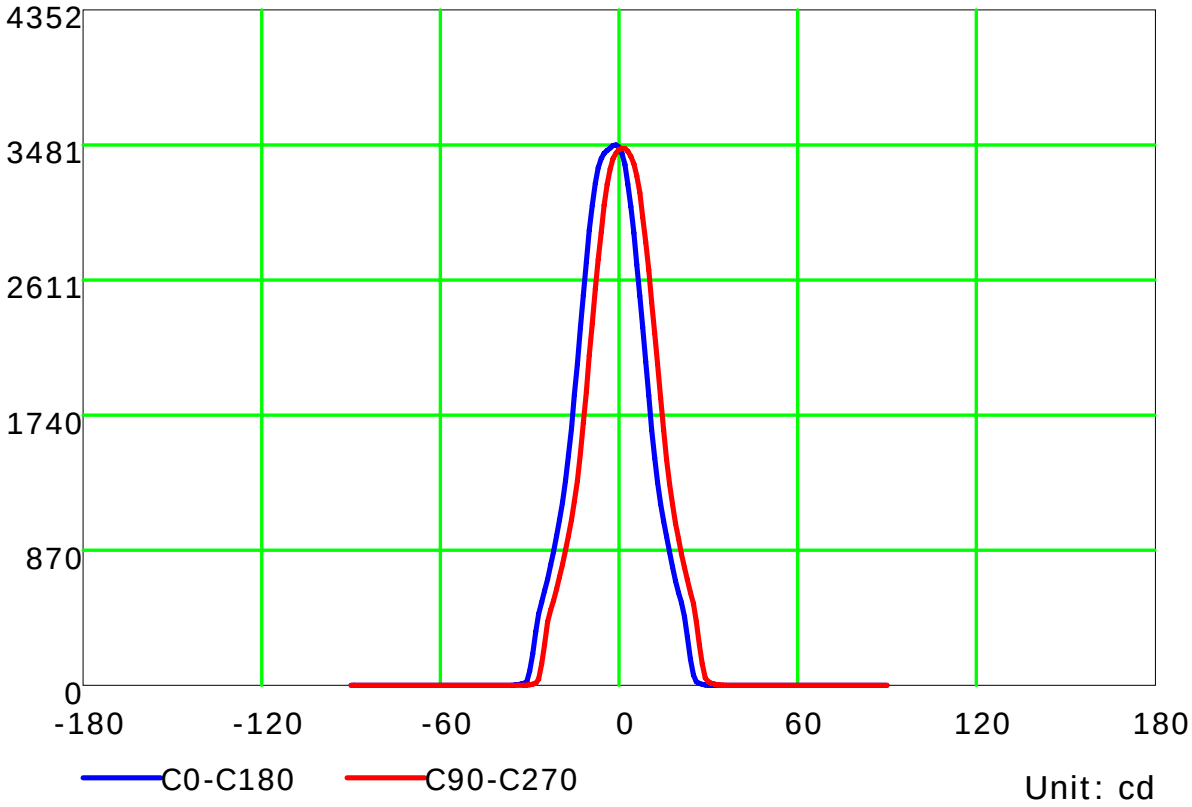


C Plane (°):0.0-360.0: 30.0 Gamma Plane (°):0.0-90.0:1.0
Test Lab: NINGBO LED LIGHTING Test Device: GPM-1600L
Test Type: TYPE C Distance: 6.583 m
Temperature: 25°C Humidity:
Operator: DING LI Inspector:

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Luminous Intensity Distribution Curve



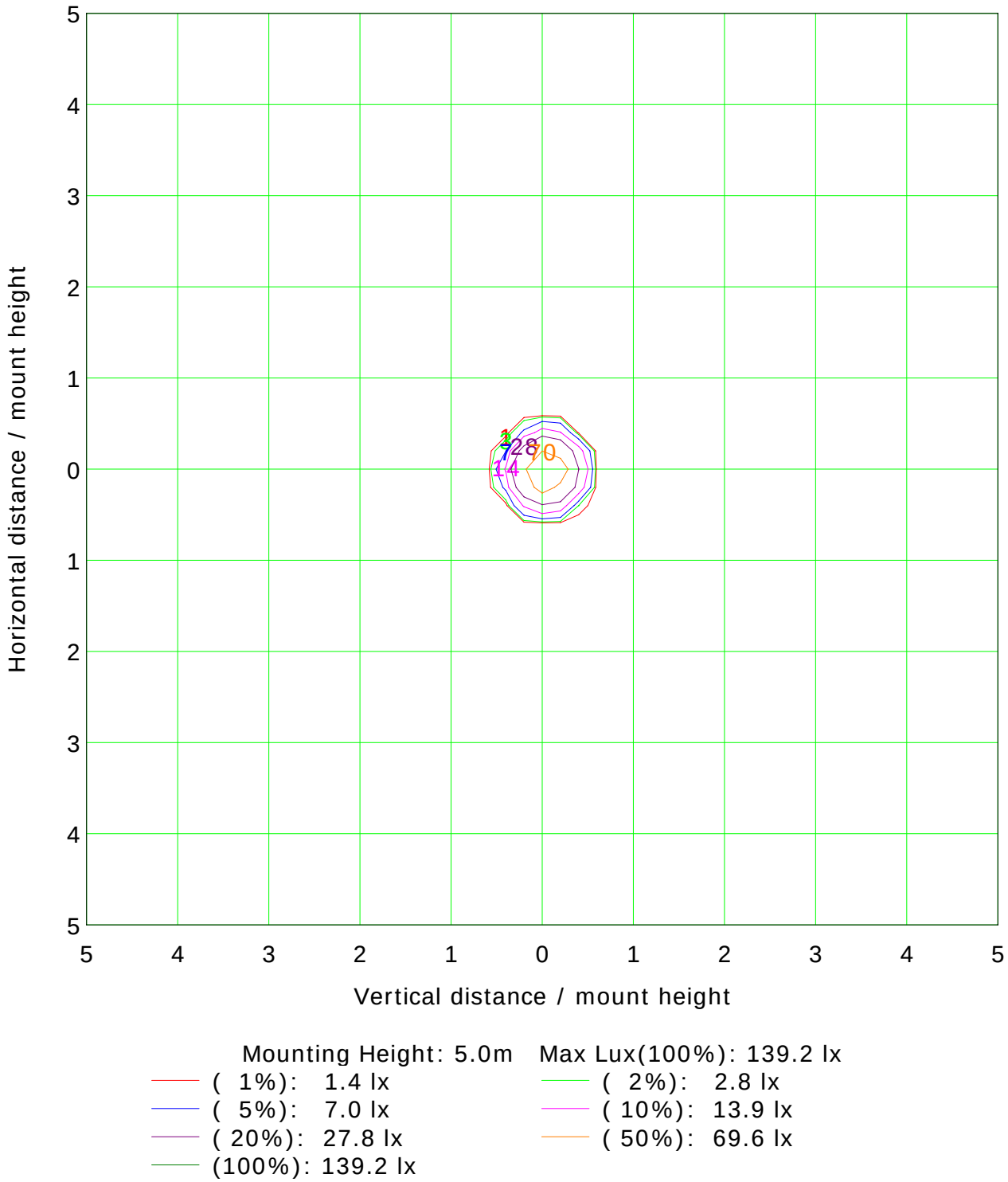


C Plane (°):0.0-360.0: 30.0
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Test Type: TYPE C
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Gamma Plane (°):0.0-90.0:1.0
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IsoLux Plot



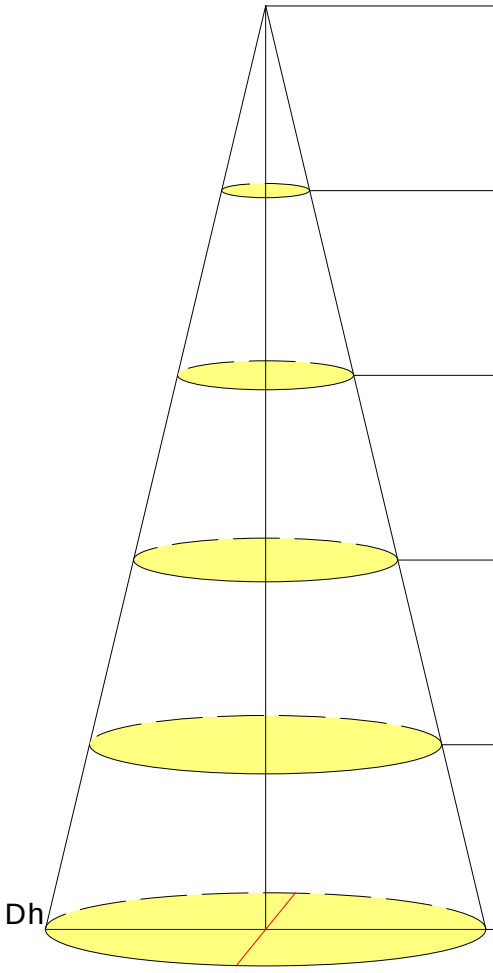
Mounting Height: 5.0m
Max Lux(100%): 139.2 lx

(1%): 1.4 lx
(2%): 2.8 lx
(5%): 7.0 lx
(10%): 13.9 lx
(20%): 27.8 lx
(50%): 69.6 lx
(100%): 139.2 lx

C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-90.0:1.0
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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	3468.68	0.46/0.47	0.2	2138.18
2.0	867.17	0.93/0.94	0.7	534.55
3.0	385.41	1.39/1.41	1.6	237.58
4.0	216.79	1.86/1.88	2.8	133.64
5.0	138.75	2.32/2.34	4.4	85.53

Beam Angle(B): H26.2 V26.4 Field Angle(F): H50.7 V50.9

C Plane (°):0.0-360.0: 30.0
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: 6.583 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.$	-14.9	-14.3	-14.6	-14.1	-13.9
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.0	-14.5	-14.7	-14.2	-14.0
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.1	-14.6	-14.8	-14.3	-14.1
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.1	-14.7	-14.8	-14.4	-14.1
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.2	-14.7	-14.9	-14.4	-14.1
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.2	-14.8	-14.9	-14.5	-14.2
X=4H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.1	-14.6	-14.8	-14.3	-14.1
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.2	-14.8	-14.9	-14.5	-14.2
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.3	-14.9	-14.9	-14.6	-14.2
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.4	-15.1	-15.0	-14.7	-14.3
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.4	-15.1	-15.0	-14.7	-14.3
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.5	-15.2	-15.1	-14.8	-14.4
X=8H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.4	-15.1	-15.0	-14.7	-14.3
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.6	-15.3	-15.1	-14.9	-14.4
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.6	-15.4	-15.1	-14.9	-14.5
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.7	-15.5	-15.2	-15.0	-14.5
X=12H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.5	-15.2	-15.1	-14.8	-14.4
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.6	-15.4	-15.1	-14.9	-14.5
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-15.7	-15.5	-15.2	-15.0	-14.5
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 845lm (8log(F/F0) = -0.6).

C Plane (°):0.0-360.0: 30.0
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: 6.583 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	3468.7	3454.5	3453.6	3453.8	3445.8	3440.9	3468.7	3454.5	3453.6	3453.8
G1.0	3429.2	3431.5	3454.0	3460.0	3458.5	3446.7	3481.8	3458.2	3442.2	3430.6
G2.0	3356.5	3387.3	3435.1	3459.5	3461.5	3445.4	3479.1	3448.5	3418.0	3395.1
G3.0	3229.3	3302.1	3394.4	3441.7	3452.4	3431.5	3462.3	3425.8	3378.3	3328.7
G4.0	3085.0	3188.6	3328.7	3408.5	3431.9	3415.7	3446.9	3387.5	3315.8	3228.4
G5.0	2915.4	3047.4	3233.8	3361.0	3405.9	3395.3	3428.6	3344.8	3229.9	3094.3
G6.0	2711.3	2864.0	3099.8	3283.0	3367.3	3352.3	3394.5	3275.5	3091.9	2920.6
G7.0	2509.0	2676.7	2952.7	3176.6	3303.4	3287.6	3335.5	3179.6	2944.2	2745.0
G8.0	2307.4	2465.9	2776.0	3016.3	3198.3	3175.4	3235.4	3039.7	2752.6	2554.9
G9.0	2085.4	2276.2	2581.4	2856.0	3050.2	3038.5	3093.8	2853.6	2570.1	2330.9
G10.0	1867.5	2071.6	2384.4	2676.6	2891.7	2870.1	2932.4	2667.4	2361.9	2126.2
G11.0	1646.7	1855.8	2176.8	2467.6	2683.6	2667.0	2727.8	2450.2	2132.5	1890.4
G12.0	1466.5	1652.2	1981.2	2268.2	2491.9	2461.1	2512.9	2235.3	1922.1	1690.7
G13.0	1307.2	1483.8	1775.5	2069.3	2277.1	2253.8	2306.6	2029.9	1710.2	1495.7
G14.0	1169.5	1319.6	1571.8	1852.2	2049.3	2029.8	2070.1	1800.5	1506.6	1317.9
G15.0	1056.2	1186.6	1406.2	1643.8	1845.0	1814.5	1872.8	1609.7	1341.0	1185.1
G16.0	959.8	1071.9	1252.8	1456.1	1643.7	1606.3	1653.0	1438.9	1197.6	1066.4
G17.0	858.4	973.2	1119.0	1297.3	1452.9	1426.0	1480.7	1269.5	1079.1	964.2
G18.0	764.3	873.2	1012.3	1168.6	1303.5	1275.6	1320.8	1145.2	981.7	871.7
G19.0	673.0	773.6	904.6	1042.9	1160.6	1137.3	1178.1	1030.3	883.0	778.9
G20.0	597.0	690.3	819.7	944.8	1049.9	1024.9	1064.8	935.6	795.1	698.4
G21.0	533.4	605.0	729.2	846.1	941.1	913.0	962.3	841.3	712.7	620.4
G22.0	443.4	539.7	644.7	759.1	834.6	821.8	860.4	751.9	625.9	546.2
G23.0	312.8	446.9	573.3	680.2	750.3	741.2	776.5	668.4	557.7	486.7
G24.0	170.1	299.5	489.5	598.4	659.1	657.4	684.4	588.2	491.0	409.6
G25.0	68.1	163.4	369.0	527.5	588.1	586.4	609.7	513.6	411.5	262.8
G26.0	23.0	63.9	234.6	411.4	521.9	517.0	537.0	442.0	289.3	139.4
G27.0	13.4	25.0	103.0	261.7	409.9	413.9	460.9	326.9	154.5	41.1
G28.0	6.9	13.1	40.0	138.2	272.6	298.6	345.9	202.3	57.8	14.0
G29.0	2.4	6.5	21.1	46.5	148.5	164.5	203.1	94.2	14.8	7.8
G30.0	1.0	3.9	12.0	23.3	50.0	60.6	92.5	24.2	9.2	3.9
G31.0	1.2	1.0	7.8	13.6	20.5	20.8	24.1	13.6	5.8	1.2
G32.0	0.0	0.0	4.1	8.4	11.1	10.6	13.0	7.5	1.3	0.0
G33.0	0.0	0.0	1.2	5.1	6.4	6.7	8.4	4.2	1.6	0.0
G34.0	0.0	0.0	1.3	2.1	3.3	3.7	4.3	2.2	0.0	0.0
G35.0	0.0	0.0	0.5	1.0	0.4	1.2	2.1	0.3	0.0	0.0
G36.0	0.0	0.0	0.0	0.0	1.0	0.9	0.4	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
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: 6.583 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
G38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G57.0	0.0	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	0.0
G59.0	0.0	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	0.0
G61.0	0.0	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	0.0
G63.0	0.0	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	0.0
G65.0	0.0	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	0.0
G67.0	0.0	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	0.0
G69.0	0.0	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	0.0
G71.0	0.0	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	0.0
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
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: 6.583 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	0.0	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	0.0
G76.0	0.0	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	0.0
G78.0	0.0	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	0.0
G80.0	0.0	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	0.0
G82.0	0.0	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	0.0
G84.0	0.0	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	0.0
G86.0	0.0	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	0.0
G88.0	0.0	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	0.0
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
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: 6.583 m
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	3445.8	3440.9	3468.7							
G1.0	3418.8	3417.1	3429.2							
G2.0	3366.3	3366.5	3356.5							
G3.0	3272.3	3271.3	3229.3							
G4.0	3149.8	3145.7	3085.0							
G5.0	2985.0	2983.1	2915.4							
G6.0	2778.7	2784.6	2711.3							
G7.0	2587.6	2593.4	2509.0							
G8.0	2372.2	2387.0	2307.4							
G9.0	2161.4	2165.1	2085.4							
G10.0	1956.5	1946.7	1867.5							
G11.0	1724.3	1721.6	1646.7							
G12.0	1529.1	1521.1	1466.5							
G13.0	1350.9	1345.4	1307.2							
G14.0	1197.0	1190.8	1169.5							
G15.0	1075.9	1074.0	1056.2							
G16.0	972.0	976.2	959.8							
G17.0	878.8	871.3	858.4							
G18.0	792.2	784.4	764.3							
G19.0	698.0	692.5	673.0							
G20.0	619.5	619.1	597.0							
G21.0	554.5	553.0	533.4							
G22.0	487.6	484.0	443.4							
G23.0	405.0	380.8	312.8							
G24.0	265.6	240.9	170.1							
G25.0	142.6	112.0	68.1							
G26.0	48.0	35.5	23.0							
G27.0	14.7	14.3	13.4							
G28.0	6.9	8.0	6.9							
G29.0	3.3	4.4	2.4							
G30.0	1.3	0.9	1.0							
G31.0	0.6	0.0	1.2							
G32.0	0.0	0.0	0.0							
G33.0	0.0	0.0	0.0							
G34.0	0.0	0.0	0.0							
G35.0	0.0	0.0	0.0							
G36.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
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: 6.583 m
Humidity:
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	0.0	0.0	0.0							
G38.0	0.0	0.0	0.0							
G39.0	0.0	0.0	0.0							
G40.0	0.0	0.0	0.0							
G41.0	0.0	0.0	0.0							
G42.0	0.0	0.0	0.0							
G43.0	0.0	0.0	0.0							
G44.0	0.0	0.0	0.0							
G45.0	0.0	0.0	0.0							
G46.0	0.0	0.0	0.0							
G47.0	0.0	0.0	0.0							
G48.0	0.0	0.0	0.0							
G49.0	0.0	0.0	0.0							
G50.0	0.0	0.0	0.0							
G51.0	0.0	0.0	0.0							
G52.0	0.0	0.0	0.0							
G53.0	0.0	0.0	0.0							
G54.0	0.0	0.0	0.0							
G55.0	0.0	0.0	0.0							
G56.0	0.0	0.0	0.0							
G57.0	0.0	0.0	0.0							
G58.0	0.0	0.0	0.0							
G59.0	0.0	0.0	0.0							
G60.0	0.0	0.0	0.0							
G61.0	0.0	0.0	0.0							
G62.0	0.0	0.0	0.0							
G63.0	0.0	0.0	0.0							
G64.0	0.0	0.0	0.0							
G65.0	0.0	0.0	0.0							
G66.0	0.0	0.0	0.0							
G67.0	0.0	0.0	0.0							
G68.0	0.0	0.0	0.0							
G69.0	0.0	0.0	0.0							
G70.0	0.0	0.0	0.0							
G71.0	0.0	0.0	0.0							
G72.0	0.0	0.0	0.0							
G73.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
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: 6.583 m
Humidity:
Inspector:

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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	0.0	0.0	0.0							
G75.0	0.0	0.0	0.0							
G76.0	0.0	0.0	0.0							
G77.0	0.0	0.0	0.0							
G78.0	0.0	0.0	0.0							
G79.0	0.0	0.0	0.0							
G80.0	0.0	0.0	0.0							
G81.0	0.0	0.0	0.0							
G82.0	0.0	0.0	0.0							
G83.0	0.0	0.0	0.0							
G84.0	0.0	0.0	0.0							
G85.0	0.0	0.0	0.0							
G86.0	0.0	0.0	0.0							
G87.0	0.0	0.0	0.0							
G88.0	0.0	0.0	0.0							
G89.0	0.0	0.0	0.0							
G90.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
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: 6.583 m
Humidity:
Inspector: