Report No.: Test Time: 2024-03-28 11:24

Luminaire Property

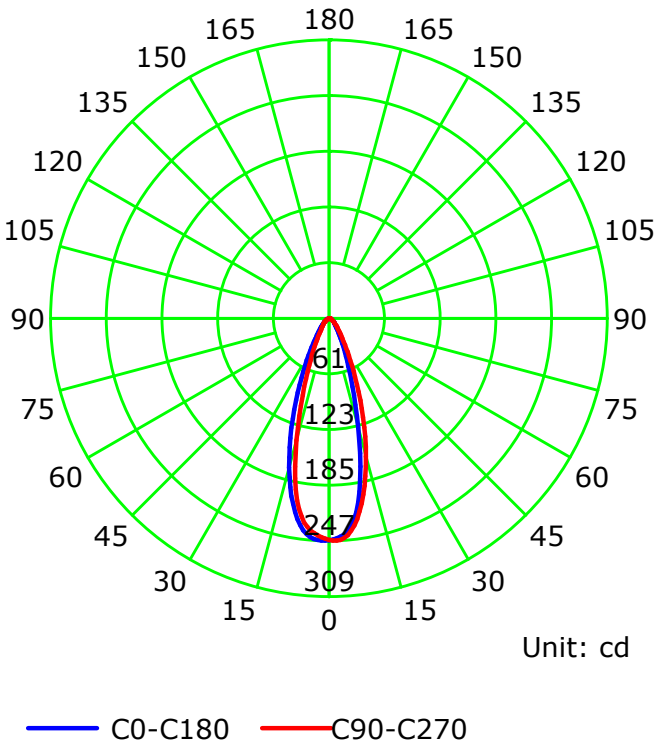
Luminaire Manufacturer:
Luminaire Description: HCP-242062-绿色
Lamp Description: 3535
Luminous Length (mm): -38
Voltage: 230.4 V
Power: 2.66 W
Lamp Catalog: SMD
Number of Lamps: 7
Luminous Width (mm): -38
Current: 0.031 A
Power Factor: 0.364

Photometric Results

CIE Class: Direct
Measurement Flux: 119 lm
Downward Ratio: 100%
Total Rated Lamp Lumens: 119.0 lm
Efficiency: 100%
Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 65.9, 65.2, 62.7, 69.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 34.7, 34.5, 32.7, 37.4
Luminaire Efficacy Rating (LER): 44.77
Max. Intensity: 247.25 cd
S/MH(C0/C180): 0.57
Central Intensity: 246.42 cd
Pos of Max. Intensity: H135 V2
S/MH(C90/C270): 0.57

Picture Of Luminaire

Luminous Intensity Distribution Curve



Unit: cd

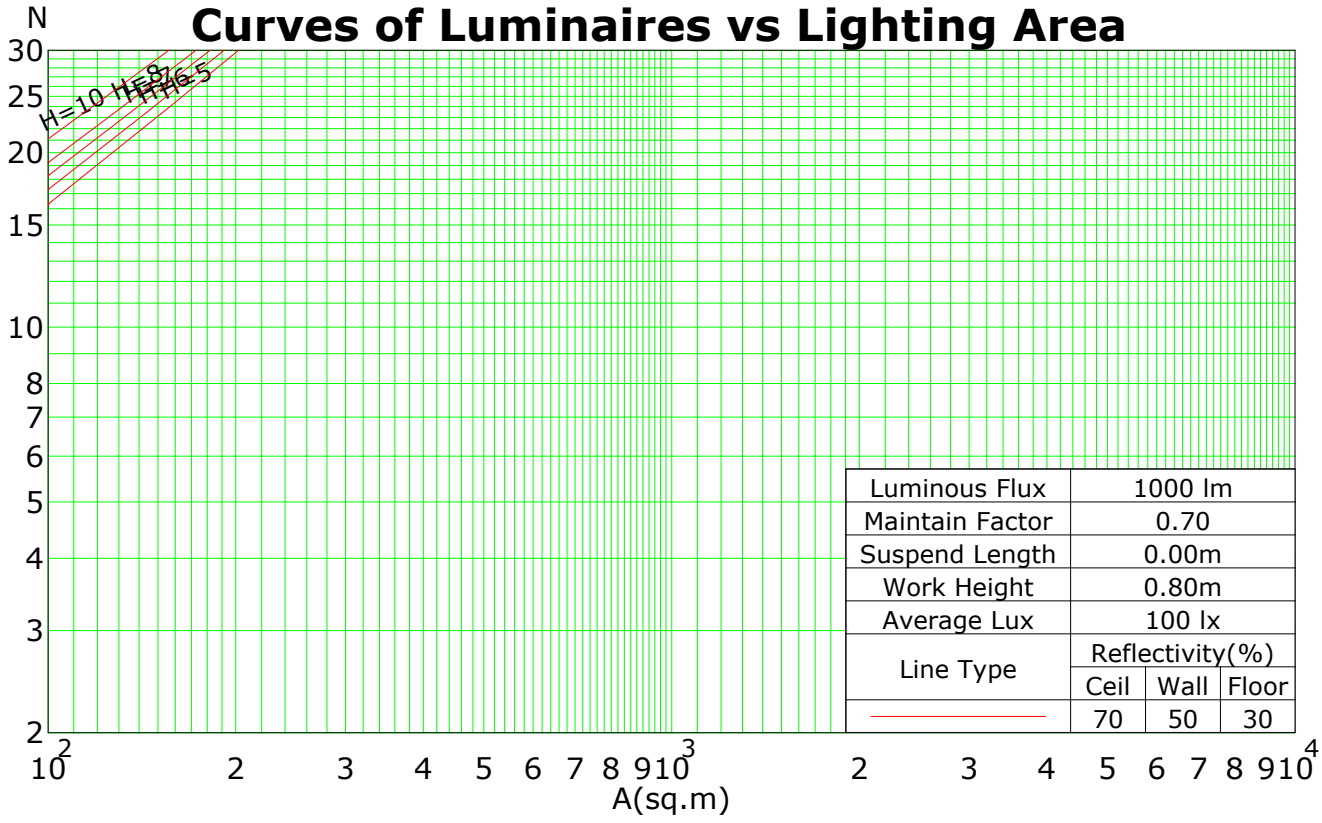
C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.500 m
Humidity:
Inspector:

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	98	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	71	77	73	70	76	72	70	68
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61
9	79	70	64	61	78	69	64	60	68	64	60	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	66	61	58	65	60	57	64	60	57	56

Spacing Criteria (0-180): 0.57
Spacing Criteria (90-270): 0.57
Spacing Criteria (Diagonal): 0.58

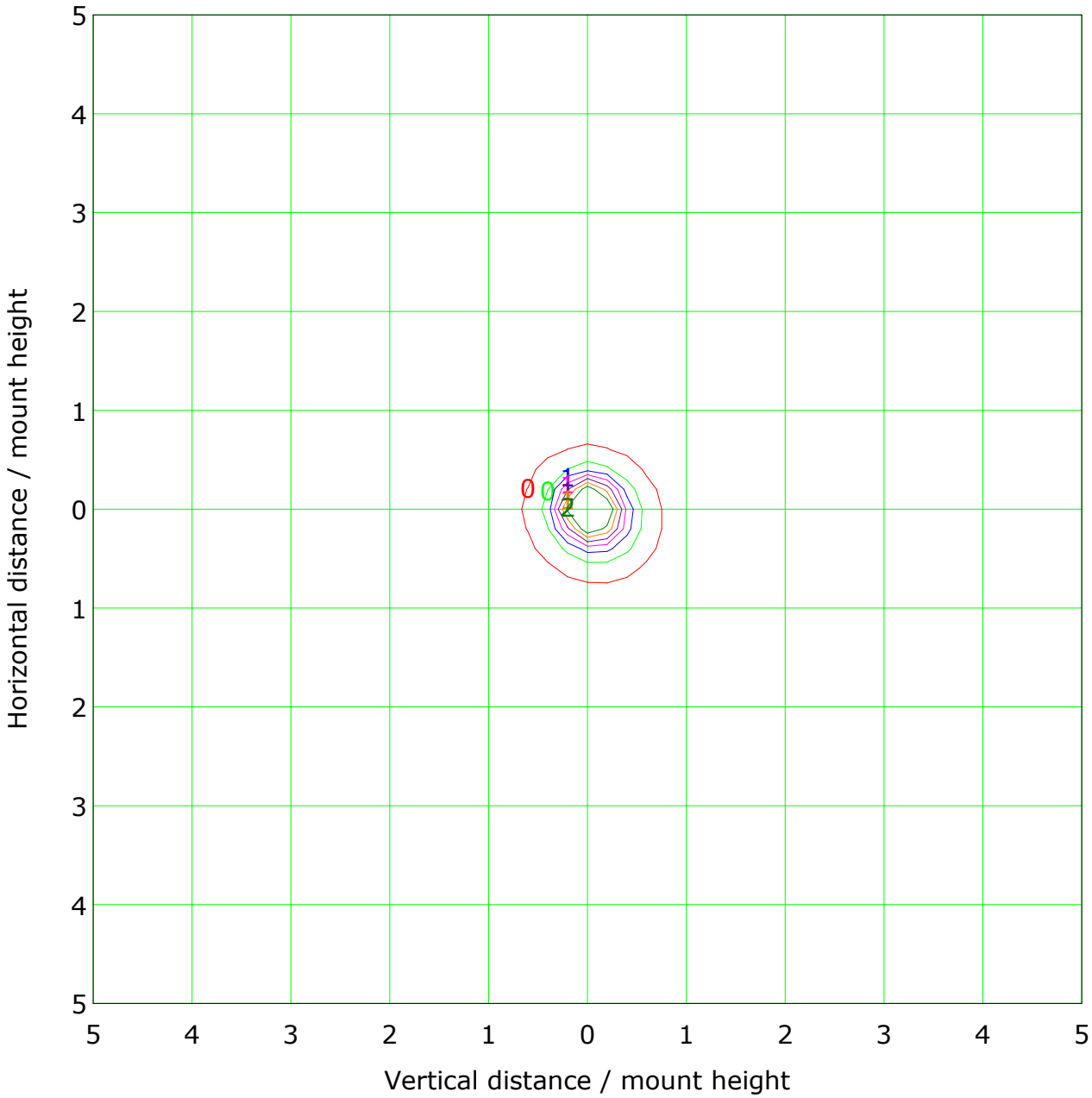
Curves of Luminaires vs Lighting Area



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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.5 lx

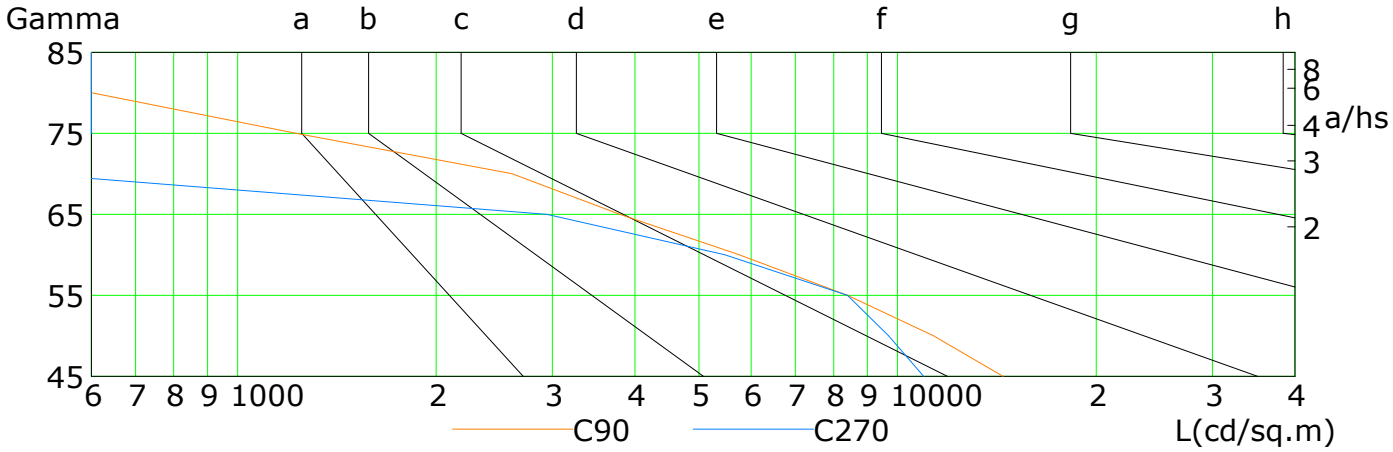
(5%): 0.1 lx	(15%): 0.4 lx
(25%): 0.6 lx	(35%): 0.9 lx
(45%): 1.1 lx	(55%): 1.4 lx
(65%): 1.6 lx	

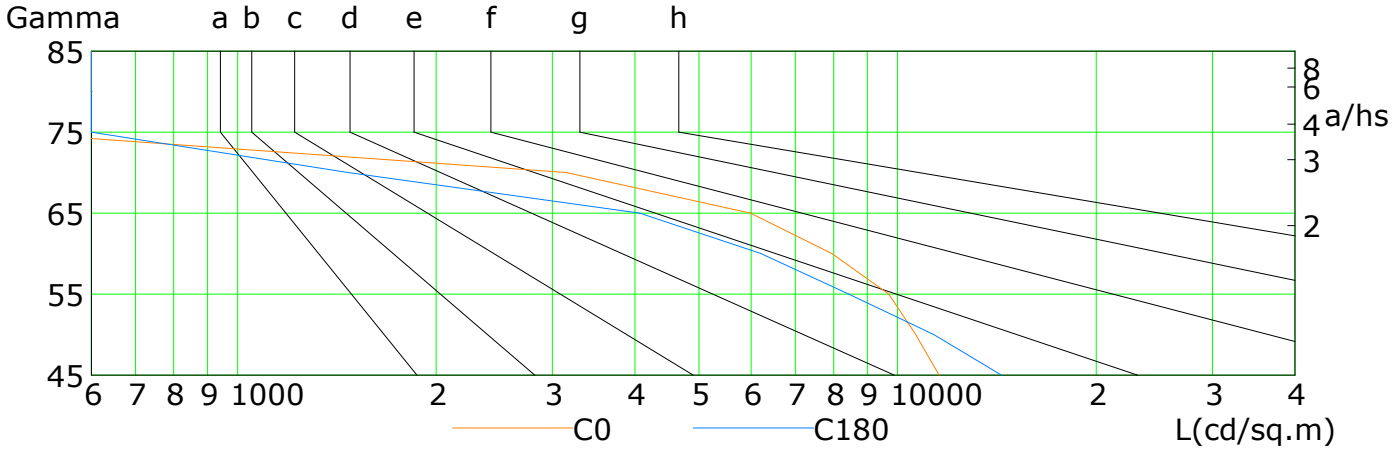
C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

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

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
		a	b	c	d	e	f	g	h



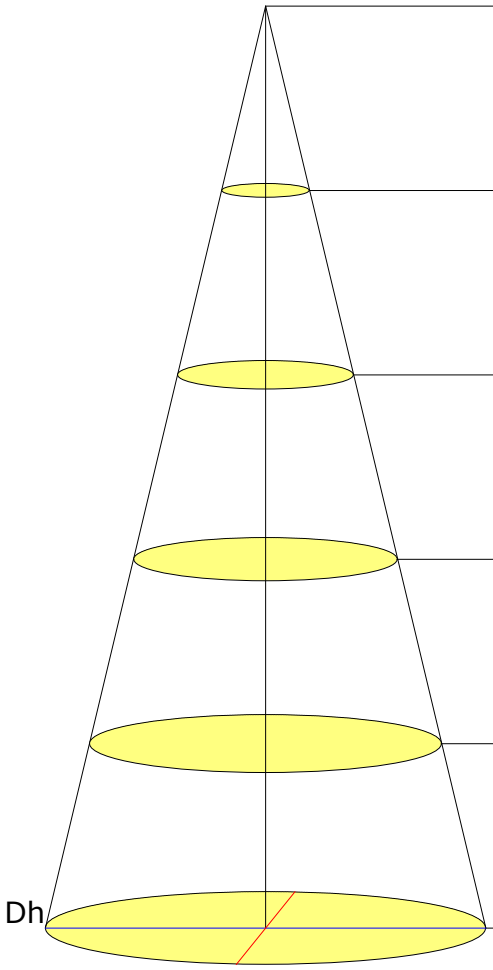


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11559	10659	9700	7953	5988	3145	443	0	0
C90	14452	11331	8394	5749	3797	2604	1226	0	0
C180	14365	11344	8440	6207	4068	1469	0	0	0
C270	10961	9685	8394	5467	2942	490	0	0	0

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

Illuminance at a Distance



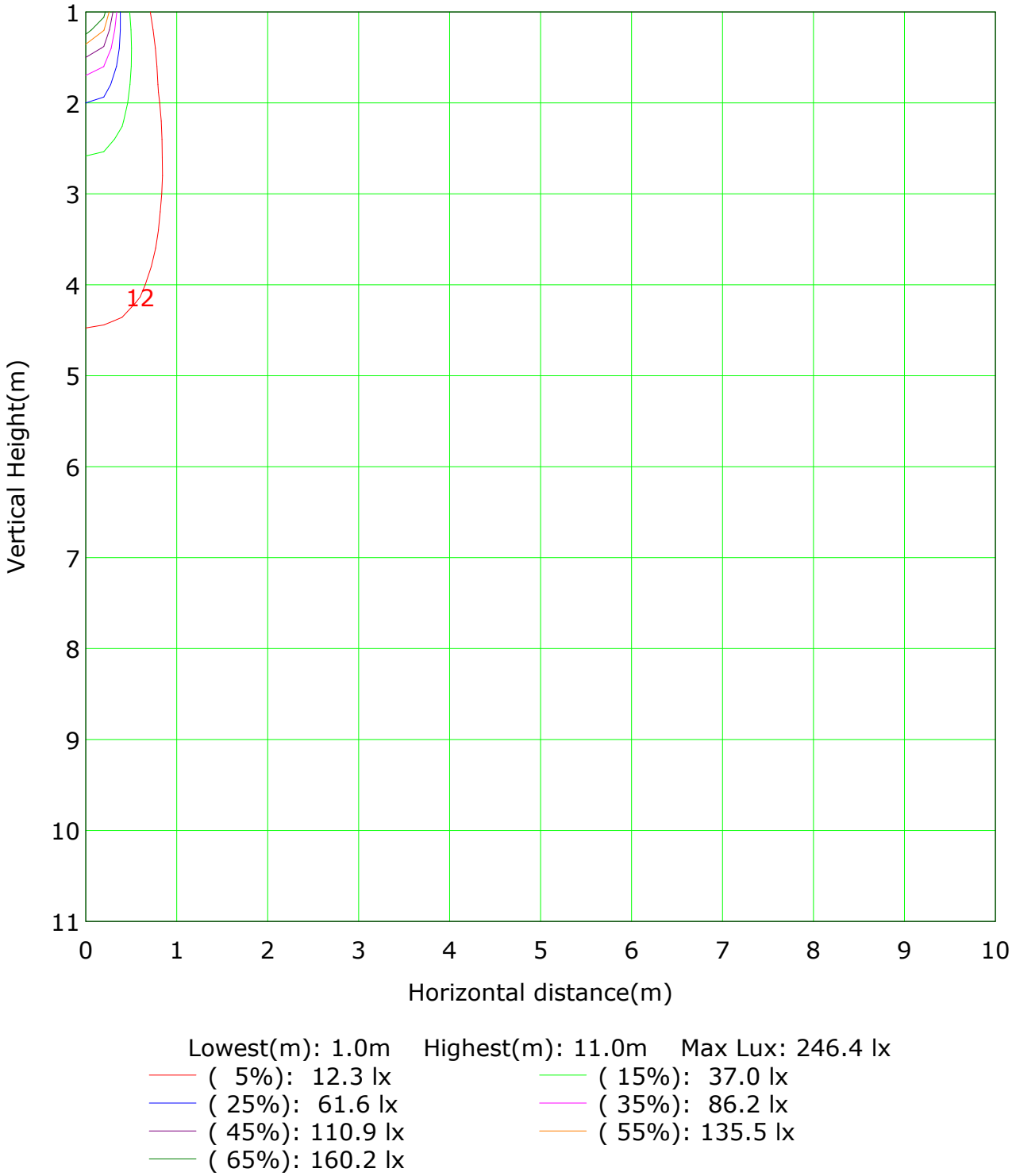
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	2.46	6.25/6.22	31.5	1.08
20.0	0.62	12.49/12.43	125.9	0.27
30.0	0.27	18.74/18.65	283.3	0.12
40.0	0.15	24.99/24.86	503.6	0.07
50.0	0.10	31.24/31.08	786.8	0.04

Beam Angle(B): H34.7 V34.5 Field Angle(F): H65.9 V65.2

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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 246.4 lx

(5%): 12.3 lx
(15%): 37.0 lx
(25%): 61.6 lx
(35%): 86.2 lx
(45%): 110.9 lx
(55%): 135.5 lx
(65%): 160.2 lx

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:

UGR Table

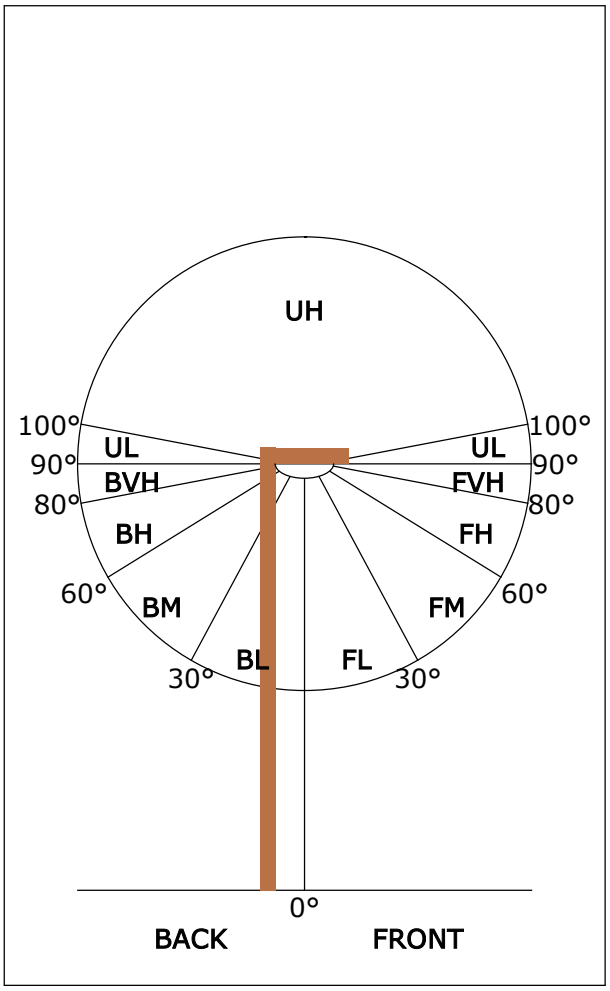
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.4	17.2	16.6	17.4	17.6	16.1	16.9	16.3	17.1	17.3
3H	16.7	17.5	17.0	17.7	18.0	16.2	16.9	16.5	17.2	17.4
4H	16.7	17.4	17.0	17.7	17.9	16.1	16.8	16.4	17.1	17.4
6H	16.6	17.3	16.9	17.6	17.8	16.1	16.7	16.4	17.0	17.3
8H	16.6	17.2	16.9	17.5	17.8	16.0	16.7	16.4	16.9	17.3
12H	16.5	17.1	16.9	17.4	17.8	16.0	16.6	16.3	16.9	17.2
X=4H Y=2H	16.6	17.3	16.9	17.6	17.9	16.4	17.1	16.7	17.3	17.6
3H	17.0	17.6	17.4	17.9	18.3	16.5	17.1	16.9	17.4	17.8
4H	17.0	17.5	17.4	17.9	18.2	16.5	17.0	16.9	17.4	17.7
6H	16.9	17.4	17.3	17.7	18.1	16.4	16.9	16.8	17.2	17.6
8H	16.9	17.3	17.3	17.7	18.1	16.4	16.8	16.8	17.2	17.6
12H	16.8	17.2	17.2	17.6	18.0	16.3	16.7	16.7	17.1	17.5
X=8H Y=4H	16.9	17.3	17.3	17.7	18.1	16.4	16.8	16.8	17.2	17.6
6H	16.8	17.1	17.3	17.6	18.0	16.3	16.7	16.8	17.1	17.5
8H	16.8	17.1	17.2	17.5	18.0	16.3	16.6	16.7	17.0	17.5
12H	16.7	17.0	17.2	17.4	17.9	16.2	16.5	16.7	16.9	17.4
X=12H Y=4H	16.8	17.2	17.3	17.6	18.1	16.4	16.7	16.8	17.1	17.6
6H	16.8	17.1	17.2	17.5	18.0	16.3	16.6	16.7	17.0	17.5
8H	16.7	17.0	17.2	17.4	17.9	16.2	16.5	16.7	16.9	17.4
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.7					+0.8/-0.9				
S=1.5H	+1.6/-1.8					+1.8/-3.2				
S=2.0H	+2.8/-4.0					+3.1/-6.8				

Calculate in accordance with CIE Pub.117. The table is revised with 119lm (8log(F/F0) = -7.4).

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

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	64	53.4
FL (0°-30°)	47	39.7
FM (30°-60°)	15	12.6
FH (60°-80°)	1	1.0
FVH (80°-90°)	0	0.0
BACK LIGHT	55	46.6
BL (0°-30°)	42	35.5
BM (30°-60°)	12	10.1
BH (60°-80°)	1	1.0
BVH (80°-90°)	0	0.0
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(**B**acklight,**U**plight,**G**lare) 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

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