Report No.: Test Time: 2024-03-28 13:36

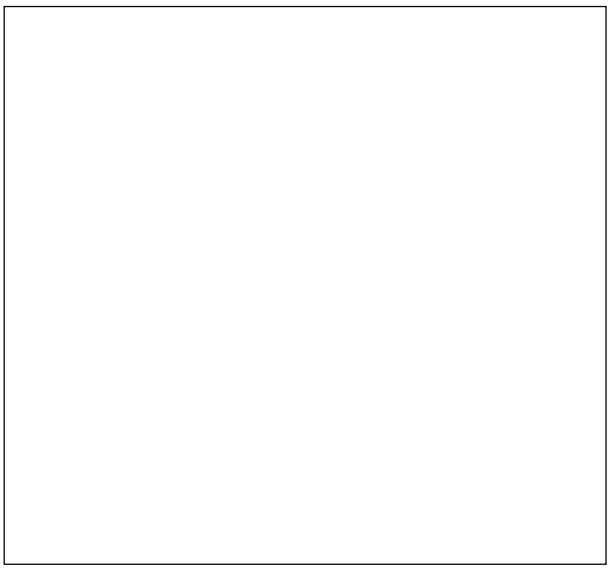
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: HCP-242182-绿色 Lamp Catalog: SMD
Lamp Description: 3535 Number of Lamps: 7
Luminous Length (mm): 71 Luminous Width (mm): 58
Voltage: 230.4 V Current: 0.072 A
Power: 5.62 W Power Factor: 0.338

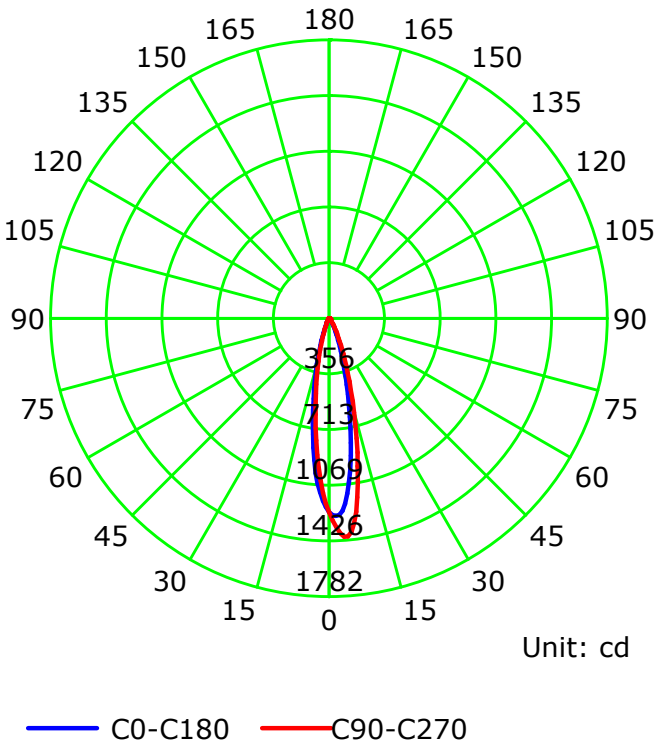
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 283.8 lm
Measurement Flux: 283.8 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 44.3, 44.7, 44.5, 44.5
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 21.7, 21.1, 20.9, 22.0
Luminaire Efficacy Rating (LER): 50.54 Central Intensity: 1239.91 cd
Max. Intensity: 1426.18 cd Pos of Max. Intensity: H45 V5
S/MH(C0/C180): 0.38 S/MH(C90/C270): 0.41

Picture Of Luminaire



Luminous Intensity Distribution Curve



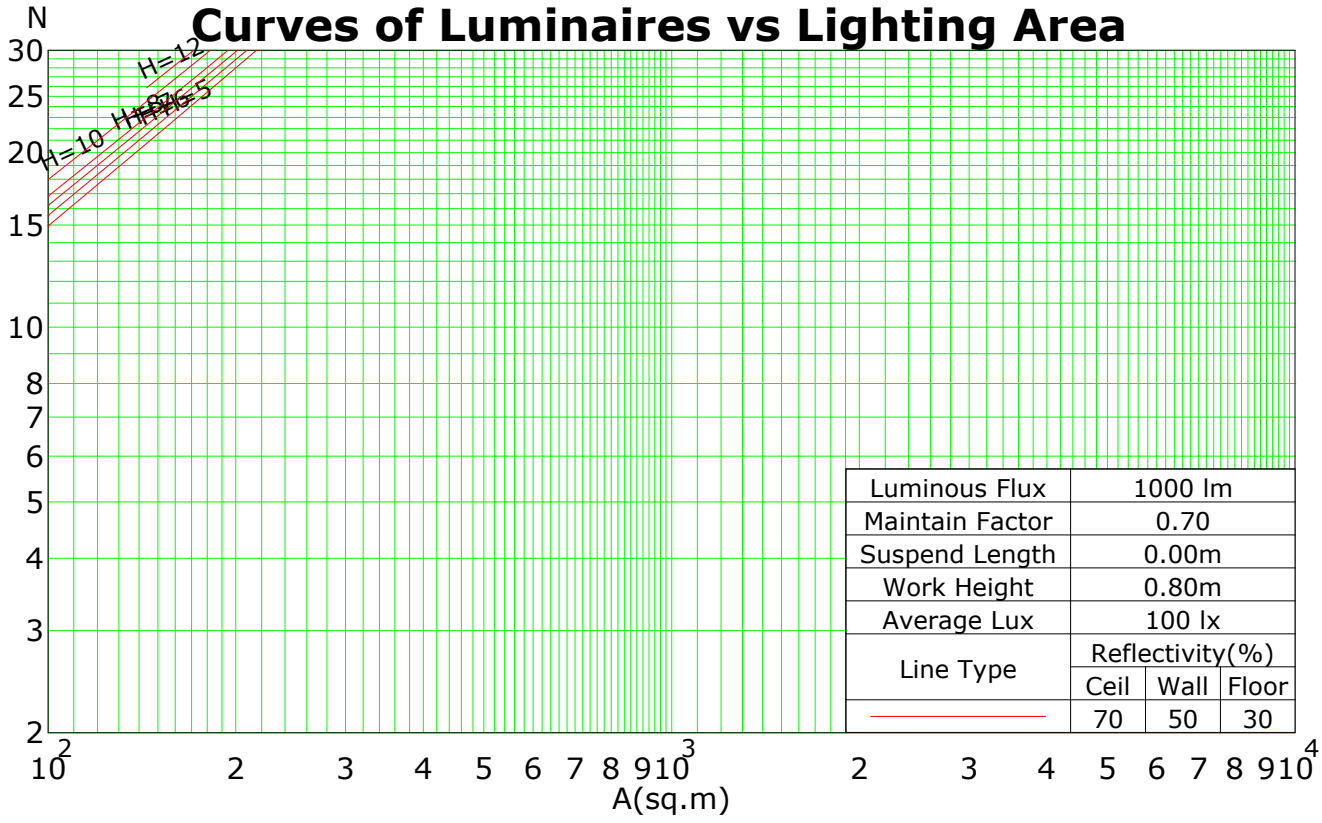
C Plane (°):0.0-360.0: 45.0 Gamma Plane (°):0.0-90.0:1.0
Test Lab: NINGBO LED LIGHTING Test Device: GPM-1600L
Test Type: TYPE C Distance: 6.500 m
Temperature: 25°C Humidity:
Operator: DING LI Inspector:

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	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	98	99	97	95	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76
8	91	83	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	85	78	74	71	85	78	74	71	77	73	71	77	73	71	76	73	71	70

Spacing Criteria (0-180): 0.38
Spacing Criteria (90-270): 0.41
Spacing Criteria (Diagonal): 0.41

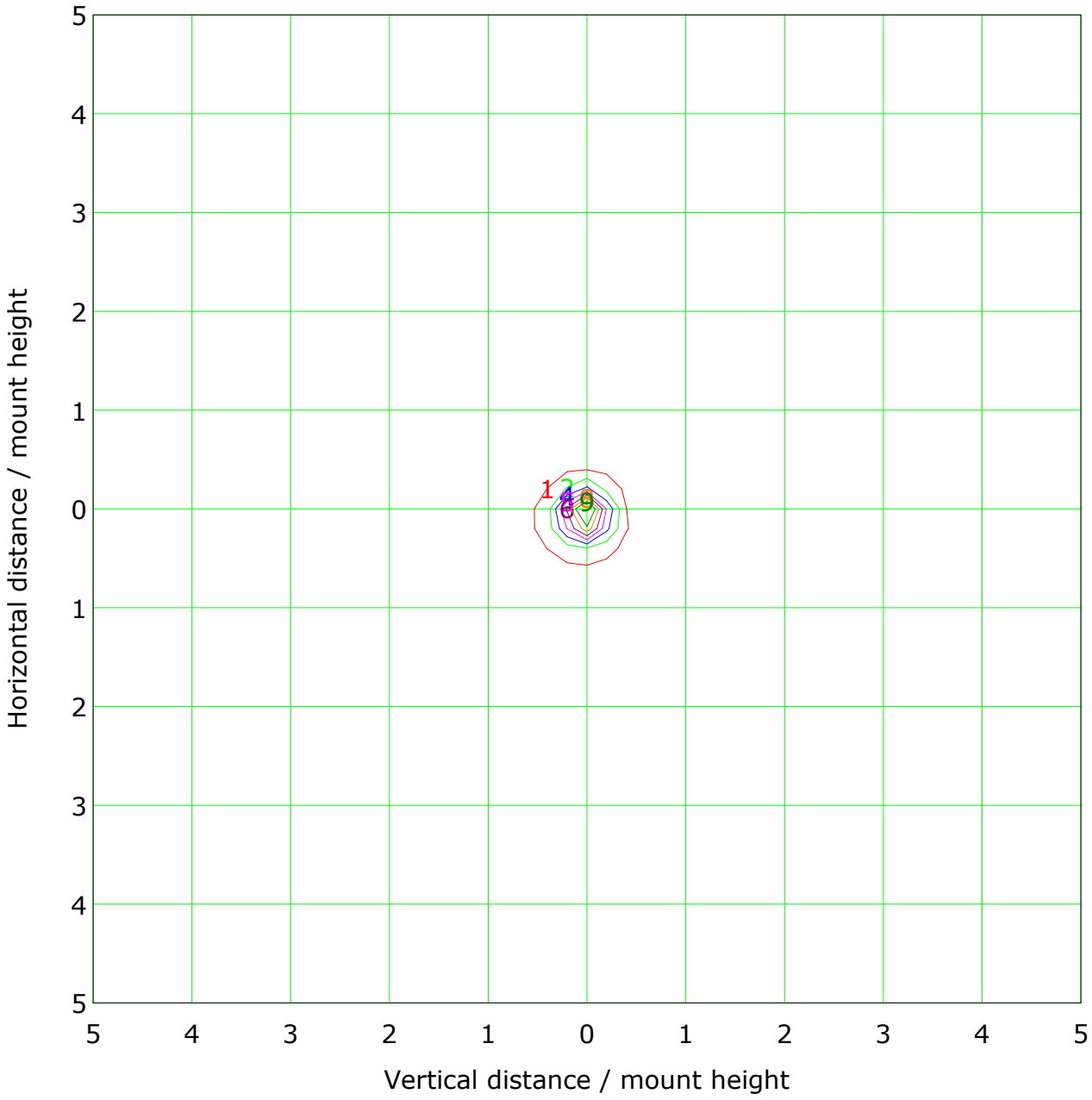
Curves of Luminaires vs Lighting Area



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%): 14.1 lx

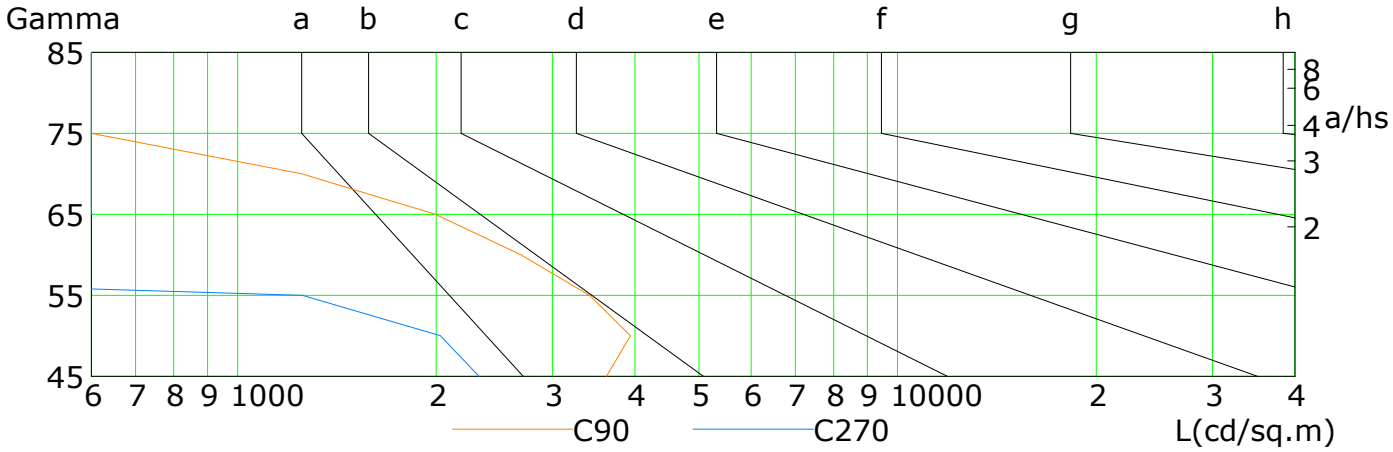
(5%): 0.7 lx	(15%): 2.1 lx
(25%): 3.5 lx	(35%): 5.0 lx
(45%): 6.4 lx	(55%): 7.8 lx
(65%): 9.2 lx	

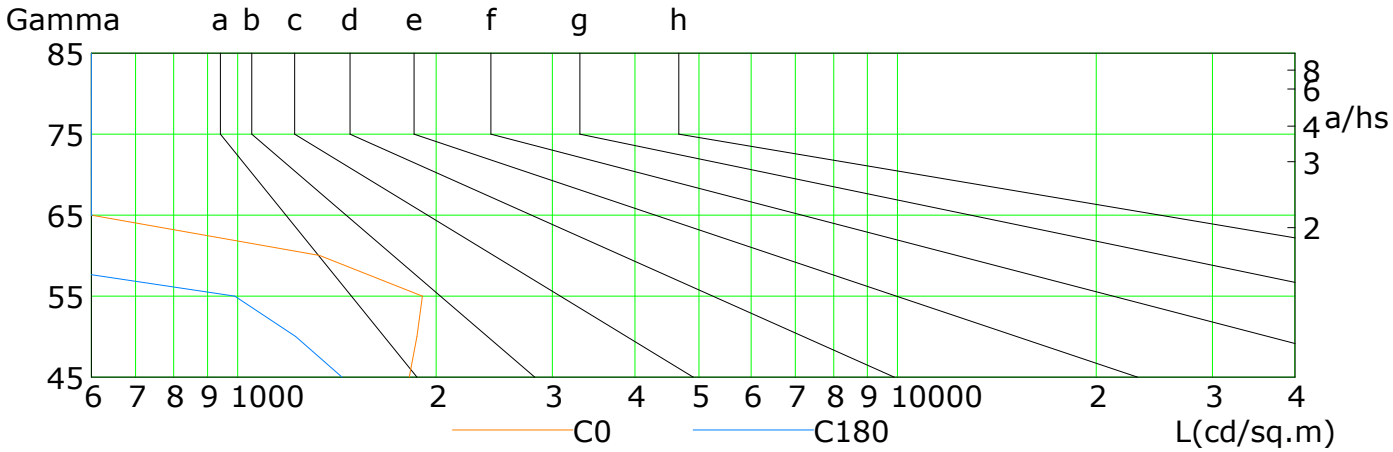
C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

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



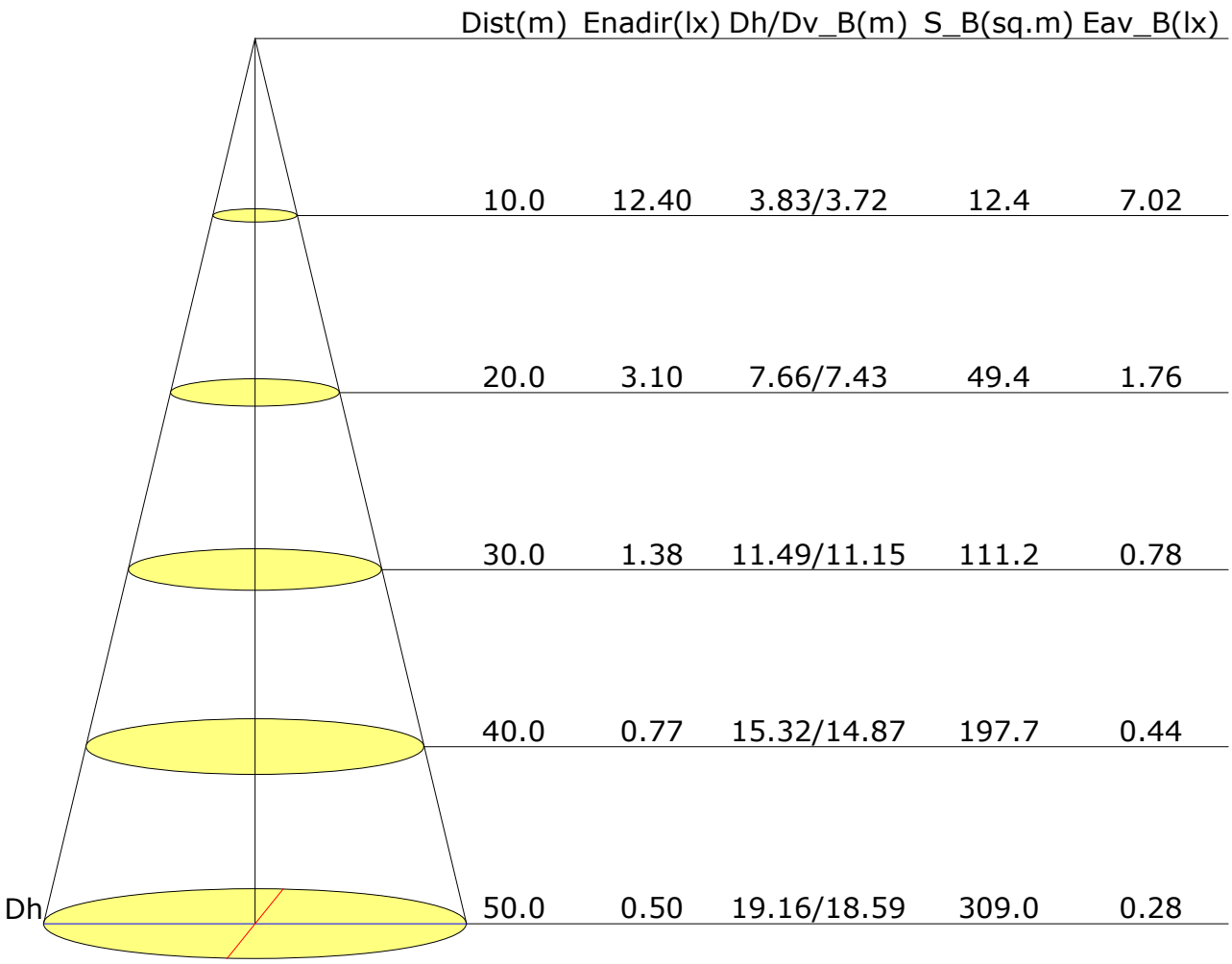


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1820	1870	1905	1331	0	0	0	0	0
C90	3623	3937	3412	2686	1994	1250	0	0	0
C180	1439	1224	991	389	0	0	0	0	0
C270	2322	2029	1253	15	0	0	0	0	0

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:

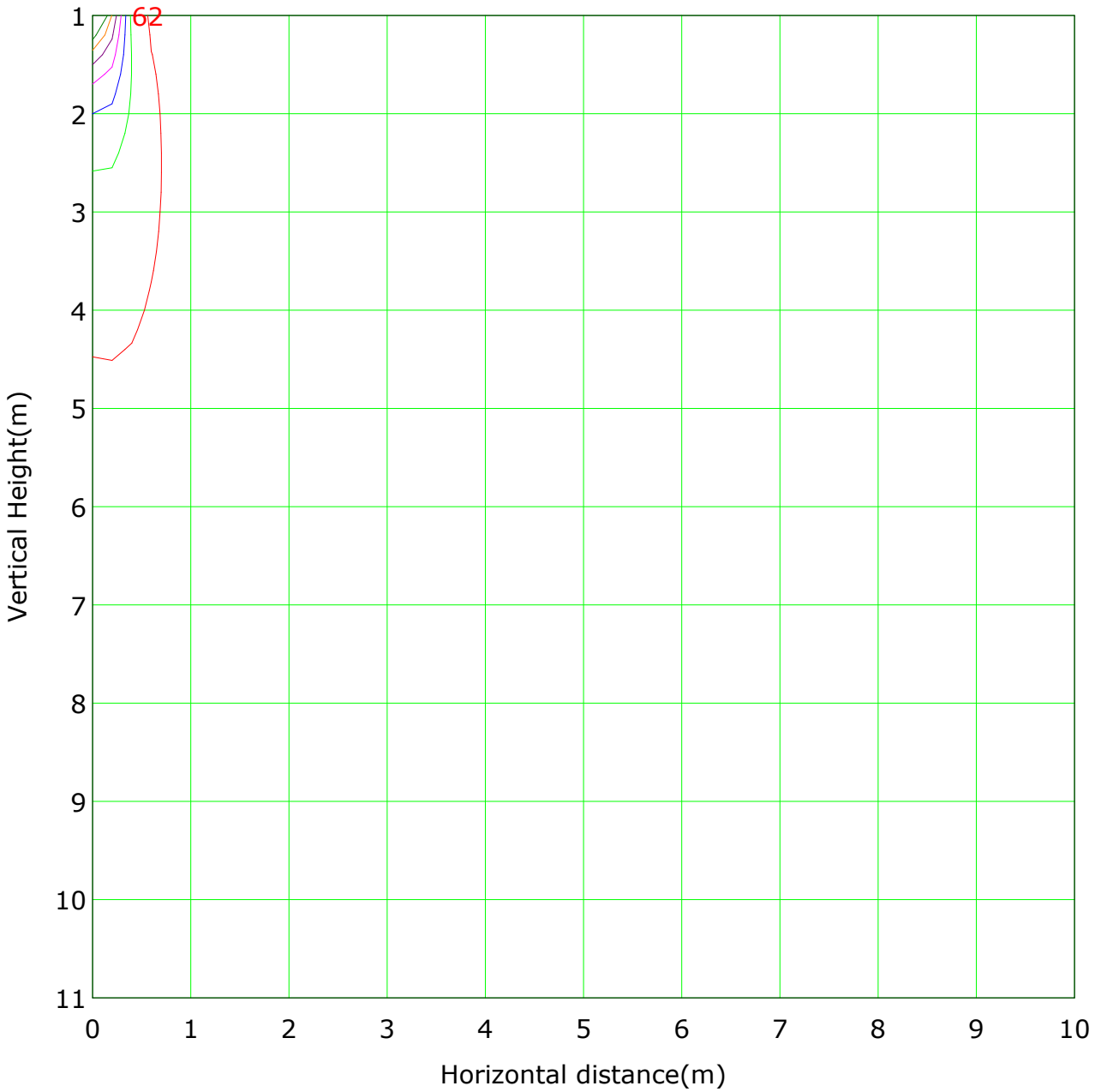
Illuminance at a Distance



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: 1239.9 lx

(5%): 62.0 lx
(15%): 186.0 lx
(25%): 310.0 lx
(35%): 434.0 lx
(45%): 558.0 lx
(55%): 682.0 lx
(65%): 805.9 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

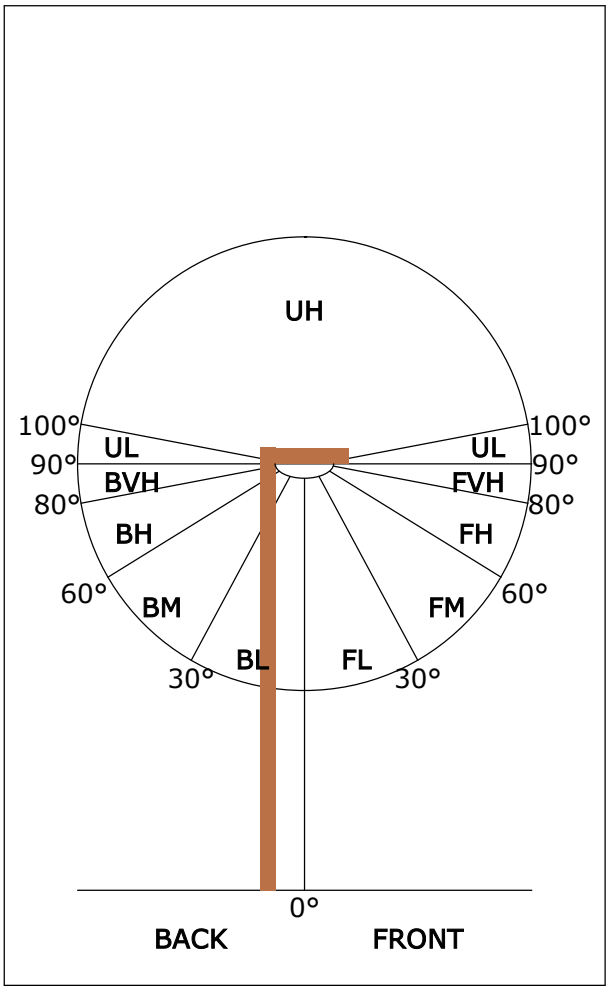
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	9.8	10.5	10.1	10.7	10.8	10.6	11.3	10.9	11.5	11.7
3H	9.7	10.3	10.0	10.5	10.8	10.8	11.4	11.0	11.6	11.8
4H	9.6	10.2	9.9	10.4	10.7	10.7	11.3	11.0	11.5	11.8
6H	9.5	10.1	9.9	10.3	10.6	10.6	11.1	10.9	11.4	11.7
8H	9.5	10.0	9.8	10.3	10.6	10.6	11.1	10.9	11.4	11.7
12H	9.5	10.0	9.8	10.3	10.6	10.5	11.0	10.9	11.3	11.6
X=4H Y=2H	10.0	10.5	10.3	10.8	11.0	10.7	11.3	11.0	11.5	11.8
3H	9.9	10.3	10.2	10.6	11.0	10.9	11.3	11.2	11.6	12.0
4H	9.8	10.2	10.1	10.5	10.9	10.8	11.2	11.2	11.5	11.9
6H	9.7	10.1	10.1	10.4	10.8	10.7	11.1	11.1	11.4	11.8
8H	9.6	10.0	10.1	10.4	10.8	10.6	11.0	11.1	11.4	11.8
12H	9.6	9.9	10.0	10.3	10.7	10.6	10.9	11.0	11.3	11.7
X=8H Y=4H	9.7	10.0	10.1	10.4	10.8	10.7	11.0	11.1	11.4	11.8
6H	9.6	9.8	10.0	10.3	10.7	10.6	10.8	11.0	11.3	11.7
8H	9.5	9.8	10.0	10.2	10.7	10.5	10.8	11.0	11.2	11.7
12H	9.5	9.7	9.9	10.1	10.6	10.5	10.7	10.9	11.1	11.6
X=12H Y=4H	9.6	9.9	10.0	10.3	10.8	10.6	10.9	11.0	11.3	11.8
6H	9.5	9.8	10.0	10.2	10.7	10.5	10.8	11.0	11.2	11.7
8H	9.5	9.7	9.9	10.1	10.6	10.5	10.7	10.9	11.1	11.6
Variations with the observer position at spacings:										
S=1.0H	+3.8/-3.5					+0.9/-1.5				
S=1.5H	+6.1/-6.8					+2.3/-5.1				
S=2.0H	+7.9/-21.6					+4.7/-13.1				

Calculate in accordance with CIE Pub.117. The table is revised with 284lm (8log(F/F0) = -4.4).

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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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	181	63.7
FL (0°-30°)	161	56.6
FM (30°-60°)	19	6.7
FH (60°-80°)	1	0.5
FVH (80°-90°)	0	0.0
BACK LIGHT	103	36.3
BL (0°-30°)	93	32.9
BM (30°-60°)	10	3.4
BH (60°-80°)	0	0.1
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

C Plane (°):0.0-360.0: 45.0
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