Report No.: Test Time: 2024-03-28 14:00

Luminaire Property

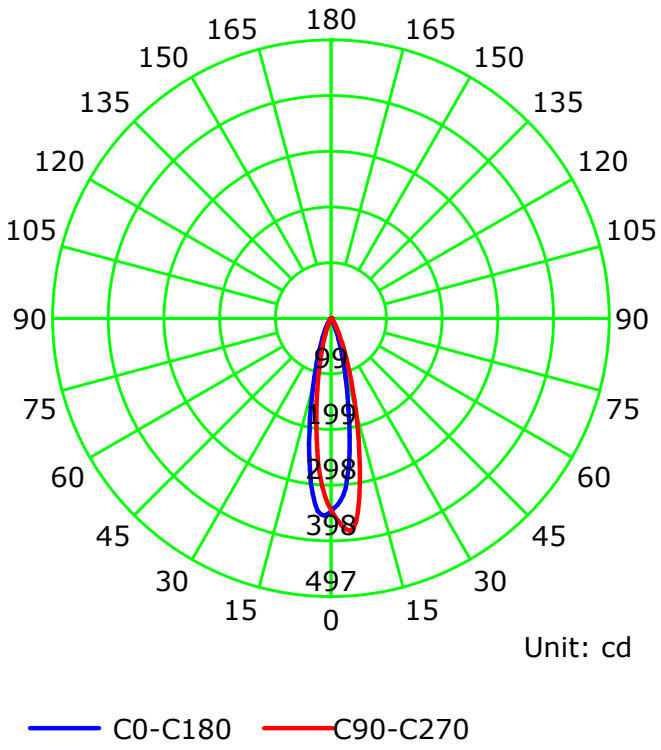
Luminaire Manufacturer:
Luminaire Description: HCP-242182-蓝色 Lamp Catalog: SMD
Lamp Description: 3535 Number of Lamps: 7
Luminous Length (mm): 71 Luminous Width (mm): 58
Voltage: 230.4 V Current: 0.071 A
Power: 5.51 W Power Factor: 0.337

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 78.0 lm
Measurement Flux: 78 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 45.0, 44.8, 44.6, 45.1
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.8, 22.2, 23.1, 21.9
Luminaire Efficacy Rating (LER): 14.20 Central Intensity: 345.37 cd
Max. Intensity: 398.08 cd Pos of Max. Intensity: H135 V5
S/MH(C0/C180): 0.39 S/MH(C90/C270): 0.42

Picture Of Luminaire

Luminous Intensity Distribution Curve



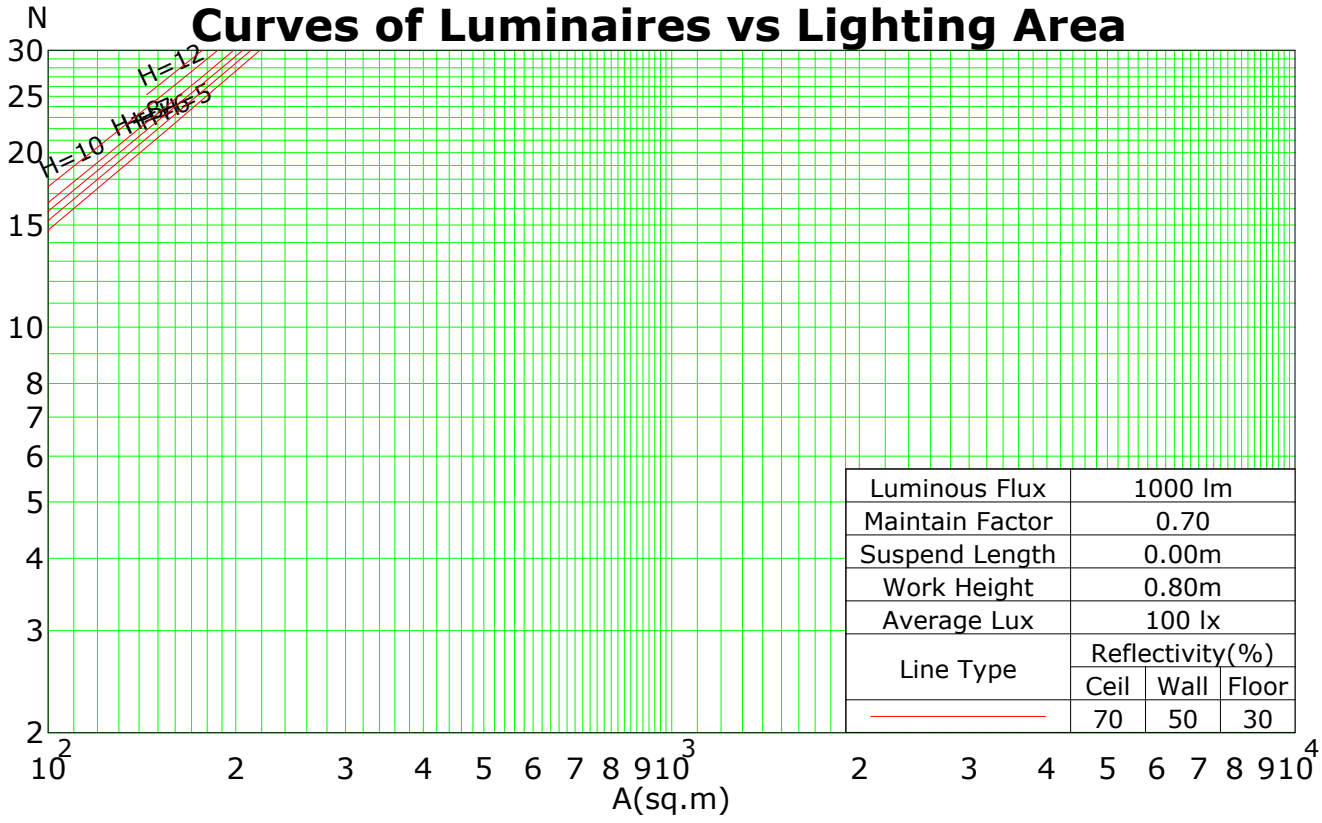
C Plane (°):0.0-360.0: 45.0 Gamma Plane (°):0.0-90.0:1.0
Test Lab: NINGBO LED LIGHTING Test Device: GPM-1600L
Test Type: TYPE C Distance: 6.500 m
Temperature: 25°C Humidity:
Operator: DING LI Inspector:

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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	95	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90
4	104	99	95	91	102	97	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	99	94	90	87	92	89	86	91	88	86	89	87	85	84
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81
7	95	88	84	81	94	88	84	81	87	83	81	86	82	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	83	79	76	82	78	76	81	78	75	80	77	75	74
10	87	81	76	74	87	80	76	74	79	76	73	79	76	73	78	75	73	72

Spacing Criteria (0-180): 0.39
Spacing Criteria (90-270): 0.42
Spacing Criteria (Diagonal): 0.41

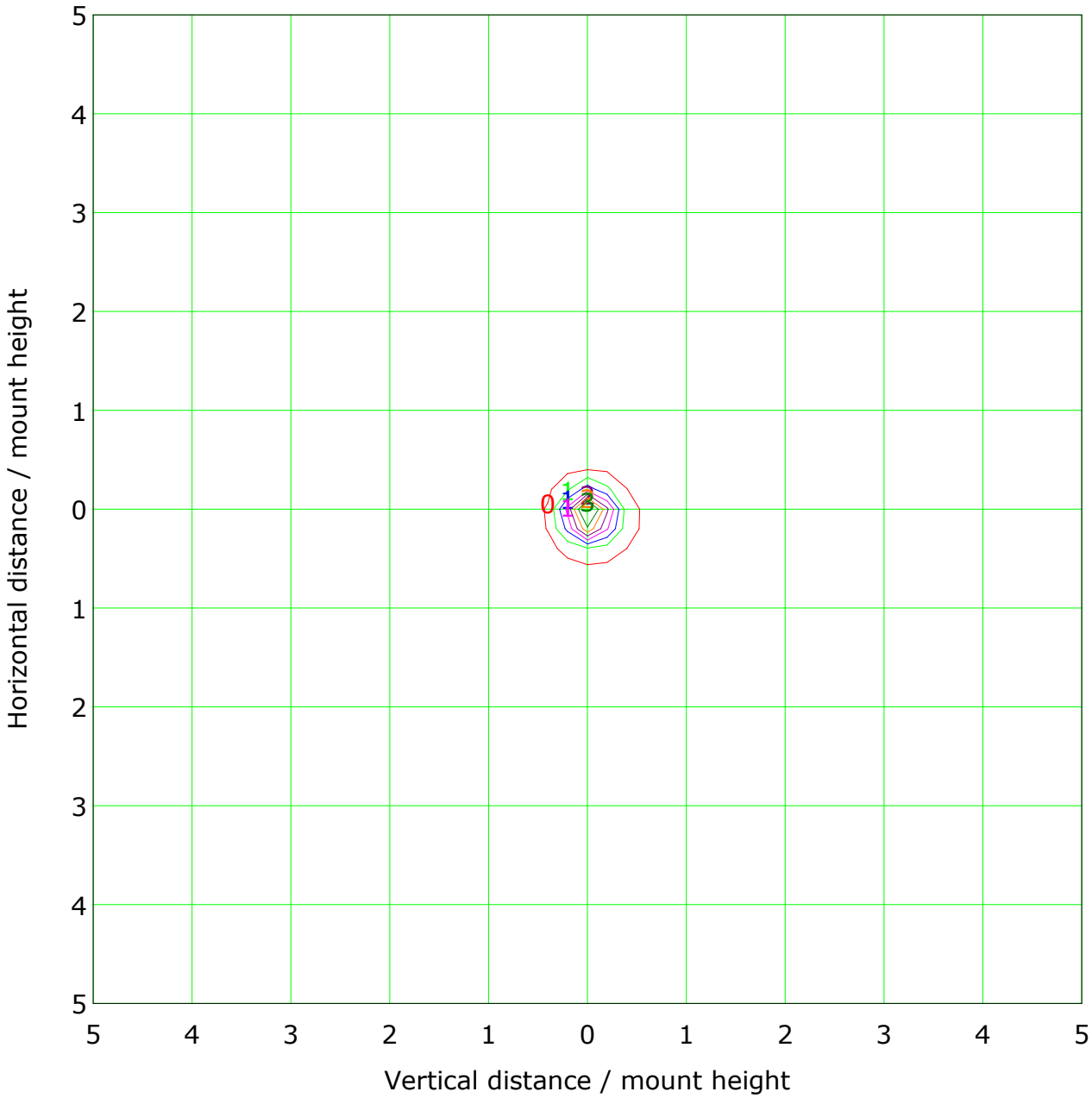
Curves of Luminaires vs Lighting Area



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%): 3.9 lx

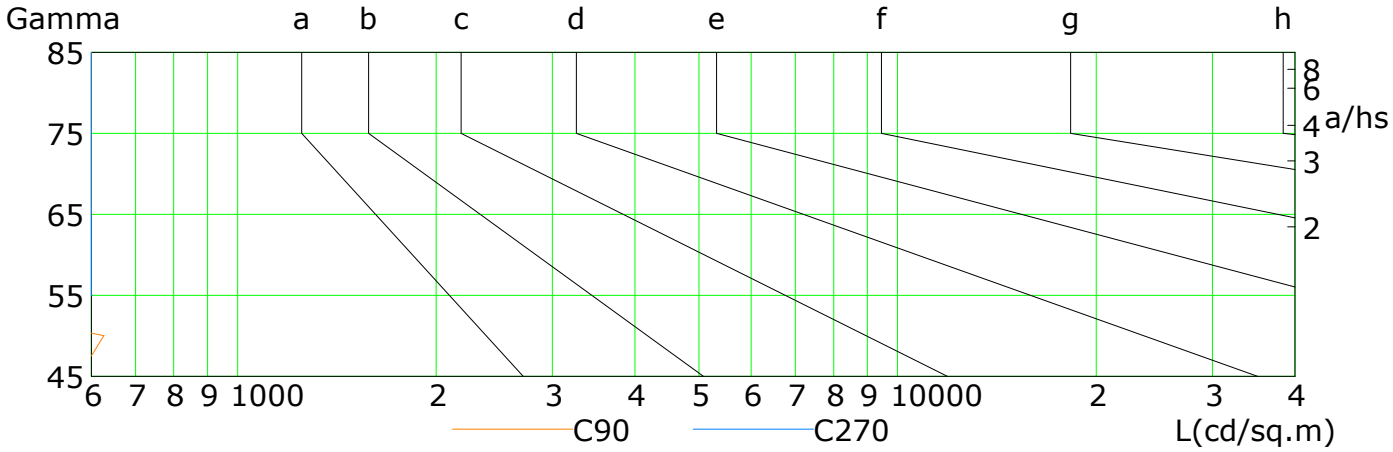
(5%): 0.2 lx	(15%): 0.6 lx
(25%): 1.0 lx	(35%): 1.4 lx
(45%): 1.8 lx	(55%): 2.2 lx
(65%): 2.6 lx	

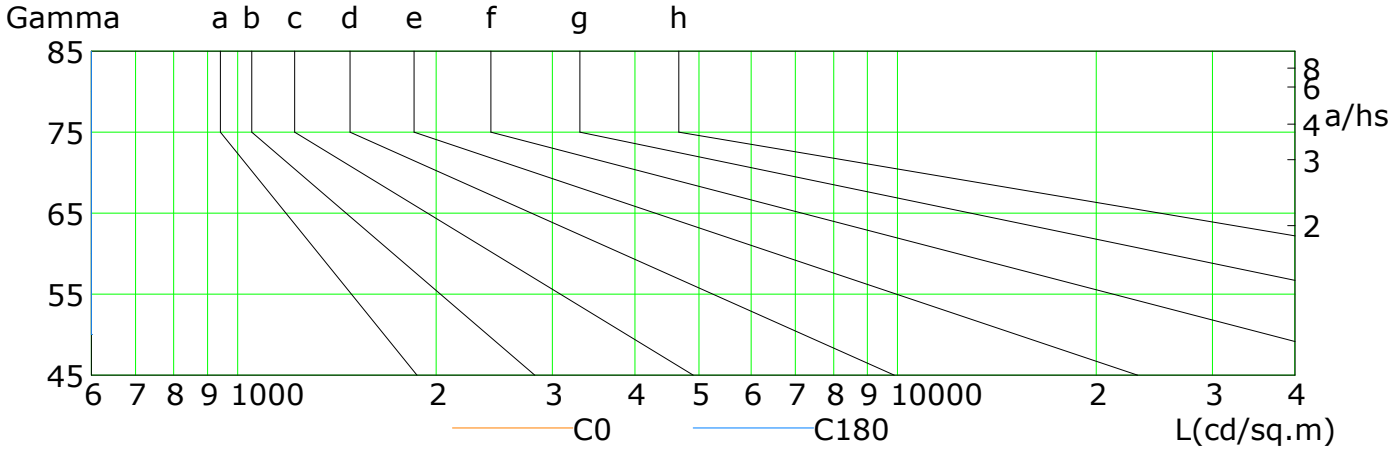
C Plane (°):0.0-360.0: 45.0
Test Lab: NINGBO LED LIGHTING
Test Type: TYPE C
Temperature: 25°C
Operator: DING LI

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



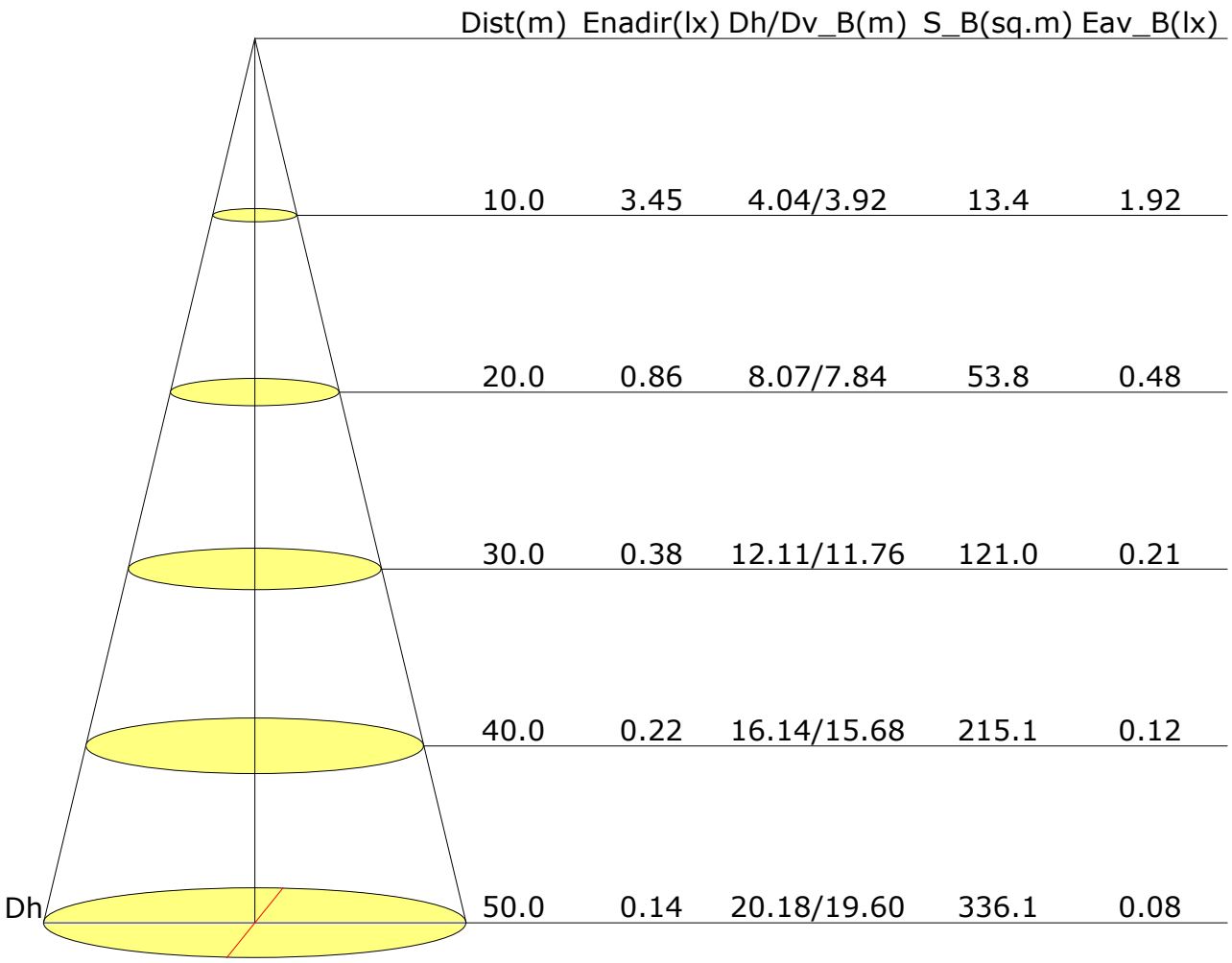


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	55	0	0	0	0	0	0	0	0
C90	574	627	334	102	0	0	0	0	0
C180	79	0	0	0	0	0	0	0	0
C270	258	57	0	0	0	0	0	0	0

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:

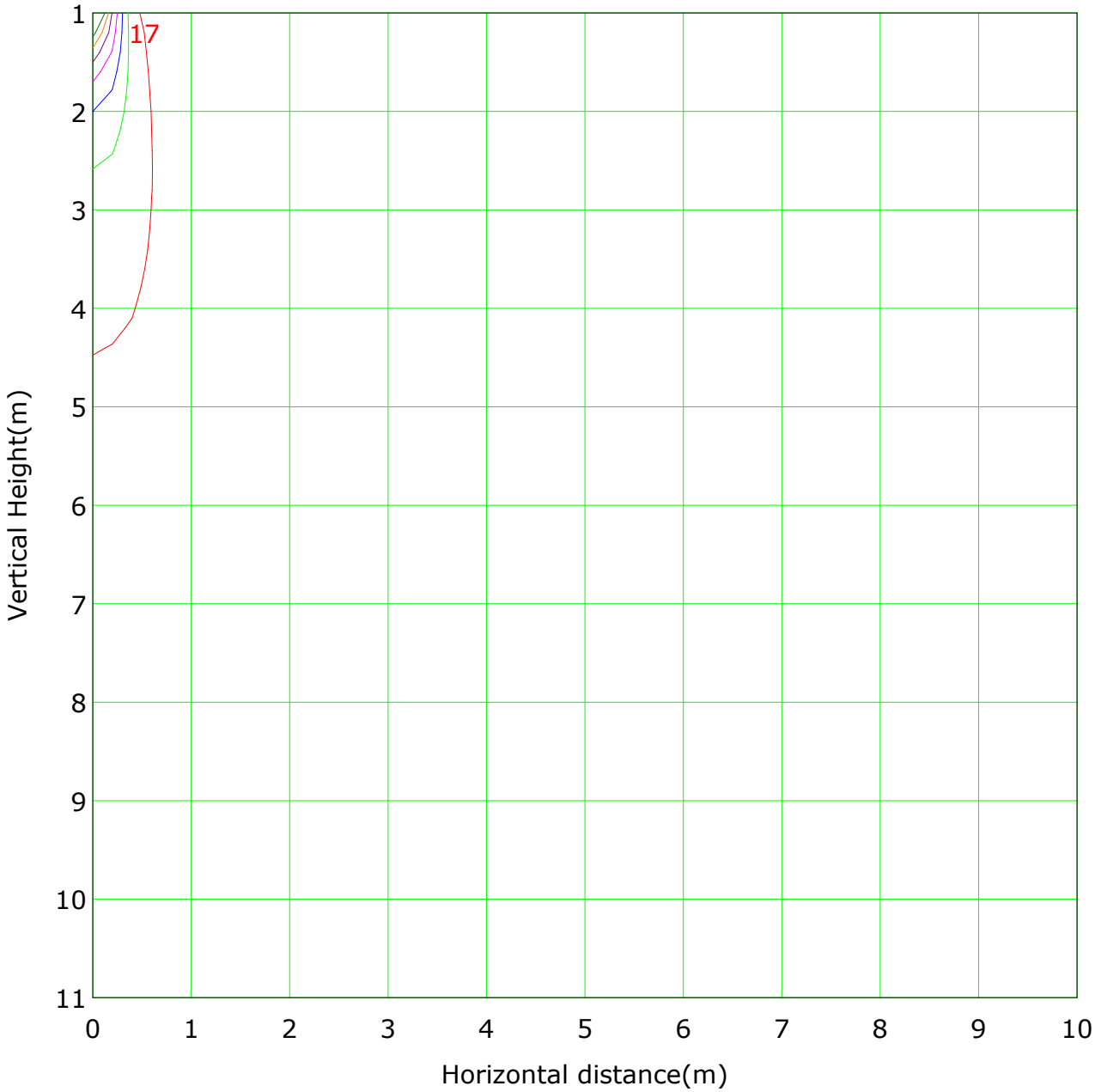
Illuminance at a Distance



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: 345.4 lx

(5%): 17.3 lx
(15%): 51.8 lx
(25%): 86.3 lx
(35%): 120.9 lx
(45%): 155.4 lx
(55%): 190.0 lx
(65%): 224.5 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

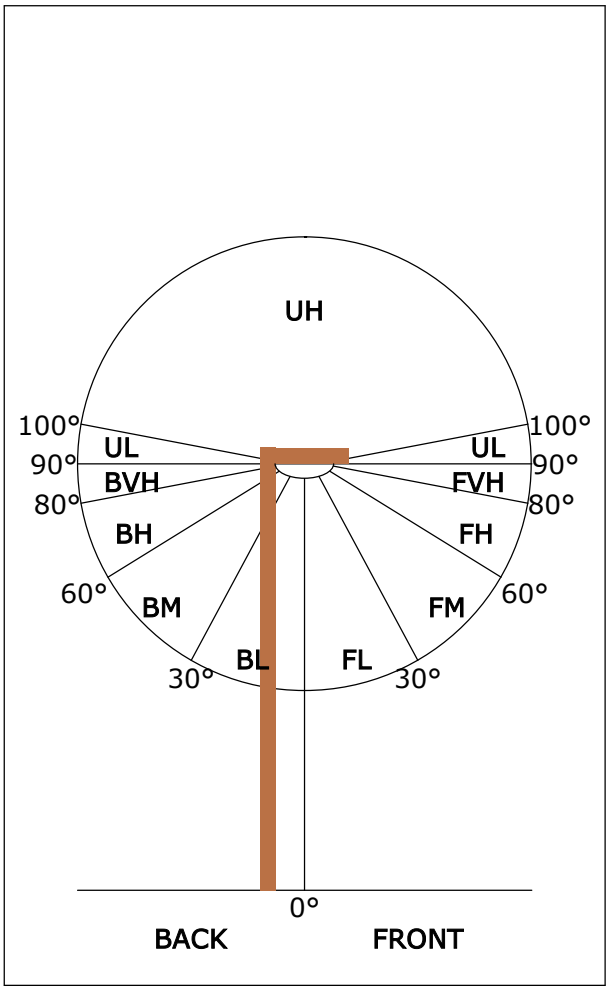
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.6	-0.9	-1.3	-0.8	-0.6	1.6	2.3	1.9	2.4	2.6
3H	-1.7	-1.1	-1.4	-0.9	-0.7	1.5	2.1	1.8	2.3	2.5
4H	-1.8	-1.2	-1.5	-1.0	-0.7	1.4	2.0	1.7	2.2	2.5
6H	-1.8	-1.4	-1.5	-1.1	-0.8	1.4	1.9	1.7	2.1	2.4
8H	-1.9	-1.4	-1.5	-1.1	-0.8	1.3	1.8	1.7	2.1	2.4
12H	-1.9	-1.5	-1.6	-1.2	-0.9	1.3	1.7	1.6	2.0	2.4
X=4H Y=2H	-1.7	-1.2	-1.5	-1.0	-0.7	1.4	2.0	1.7	2.2	2.5
3H	-1.9	-1.4	-1.6	-1.1	-0.8	1.3	1.7	1.6	2.0	2.4
4H	-2.0	-1.6	-1.6	-1.2	-0.9	1.2	1.6	1.6	1.9	2.3
6H	-2.1	-1.7	-1.7	-1.4	-1.0	1.1	1.5	1.5	1.8	2.2
8H	-2.1	-1.8	-1.7	-1.4	-1.0	1.1	1.4	1.5	1.8	2.2
12H	-2.2	-1.9	-1.7	-1.5	-1.0	1.0	1.3	1.4	1.7	2.1
X=8H Y=4H	-2.1	-1.8	-1.7	-1.4	-1.0	1.1	1.4	1.5	1.8	2.2
6H	-2.2	-2.0	-1.8	-1.5	-1.1	1.0	1.2	1.4	1.7	2.1
8H	-2.3	-2.0	-1.8	-1.6	-1.1	0.9	1.1	1.4	1.6	2.1
12H	-2.3	-2.1	-1.8	-1.7	-1.2	0.9	1.1	1.3	1.5	2.0
X=12H Y=4H	-2.2	-1.9	-1.7	-1.5	-1.0	1.0	1.3	1.4	1.7	2.1
6H	-2.3	-2.0	-1.8	-1.6	-1.1	0.9	1.1	1.4	1.6	2.1
8H	-2.3	-2.1	-1.8	-1.7	-1.2	0.9	1.1	1.3	1.5	2.0
Variations with the observer position at spacings:										
S=1.0H	+5.1/-24.0					+4.8/-16.2				
S=1.5H	+7.8/-1.$					+8.2/-1.$				
S=2.0H	+9.7/-1.$					+10.3/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 78lm (8log(F/F0) = -8.9).

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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	49	62.7
FL (0°-30°)	45	57.8
FM (30°-60°)	4	4.9
FH (60°-80°)	0	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	29	37.3
BL (0°-30°)	28	35.4
BM (30°-60°)	2	1.9
BH (60°-80°)	0	0.0
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

C Plane (°):0.0-360.0: 45.0
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Gamma Plane (°):0.0-90.0:1.0
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