BAIDUAN HIGH TECH LED LIGHT LAB
http://www.led-stock.com
Tel:086-0571-87920262 086-0760-87661035
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Report No.: BDQT-20160530-01 Test Time: 2016-05-30 16:31

Luminaire Property

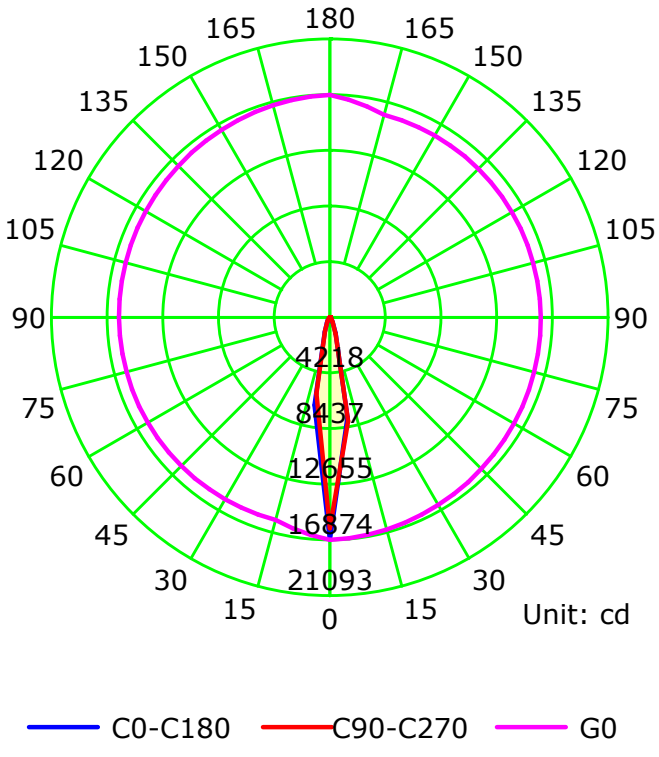
Luminaire Manufacturer:
Luminaire Category: BD2016041964952_es 4620-4
Luminaire Description: LED Track Light
Lamp Catalog: AC 220-240V 30W 2800lm 4000K 60
Number of Lamps: 1 Voltage: 231.7 V
Current: 0.199 A Power: 29.15 W
Power Factor: 0.631

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 3001.6 lm
Measurement Flux: 3001.6 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 38.5, 38.5, 38.2, 38.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 0.0, 0.0, 0.0, 0.0
Luminaire Efficacy Rating (LER): 103.02 Central Intensity: 16874.66 cd
Max. Intensity: 16874.67 cd Pos of Max. Intensity: H0 V0
S/MH(C0/C180): 0.30 S/MH(C90/C270): 0.30

Picture Of Luminaire

Luminous Intensity Distribution Curve



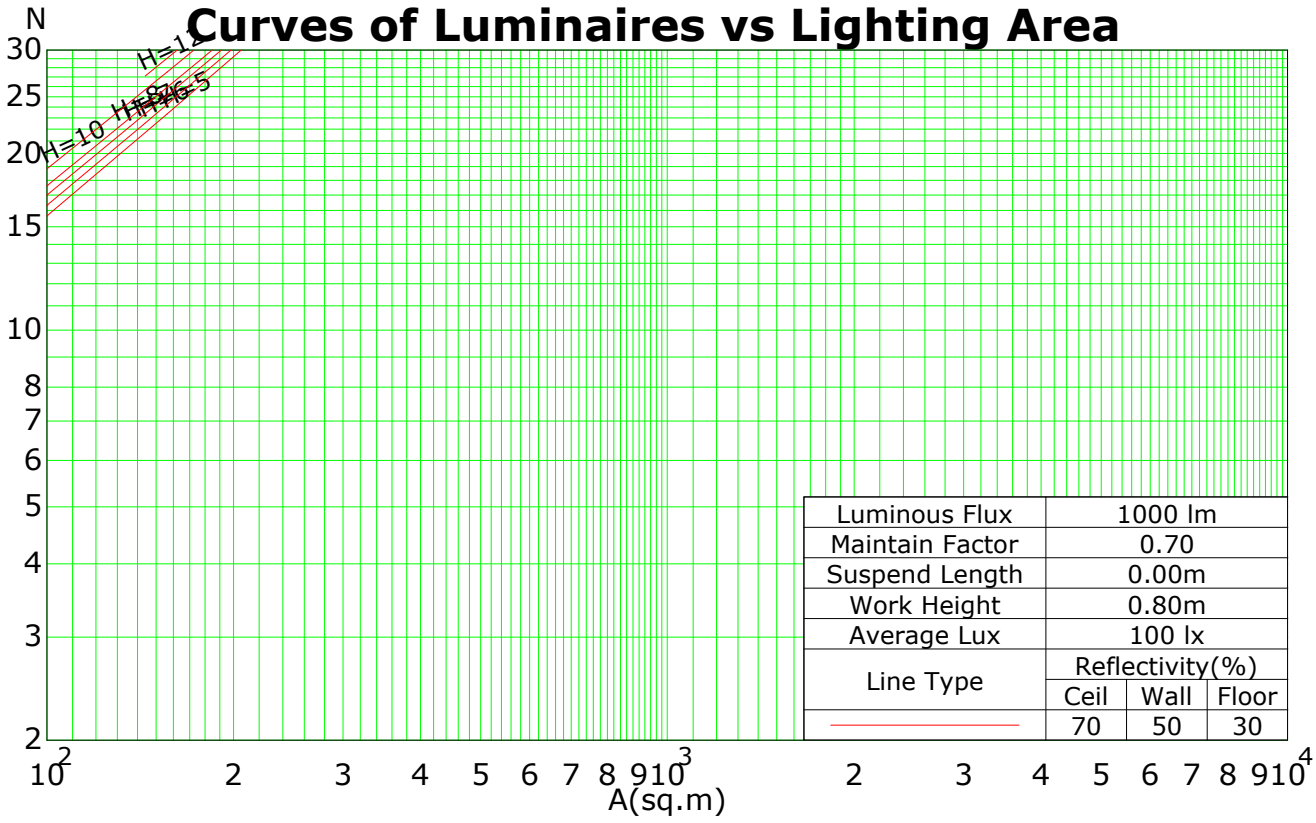
C Plane (°):0.0-360.0: 15.0 Gamma Plane (°):0.0-180.0:10.0
Test Lab: Test Device: GPM-1600L
Test Type: TYPE C Distance: 9.633 m
Temperature: 12 Humidity: 60
Operator: HU BAOLIANG Inspector:

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	111	111	111	111	109	109	109	109	104	104	104	99	99	99	95	95	95	93
1	112	108	105	102	109	106	103	101	102	99	97	98	96	94	94	93	92	90
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	91	89	88	86
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	96	89	84	80	95	88	84	80	86	82	79	85	81	79	83	80	78	77
6	93	86	81	77	92	85	80	77	83	79	76	82	78	76	81	78	75	74
7	90	83	78	74	89	82	77	74	81	77	73	80	76	73	79	75	73	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65

Spacing Criteria (0-180): 0.30
Spacing Criteria (90-270): 0.30
Spacing Criteria (Diagonal): 0.35

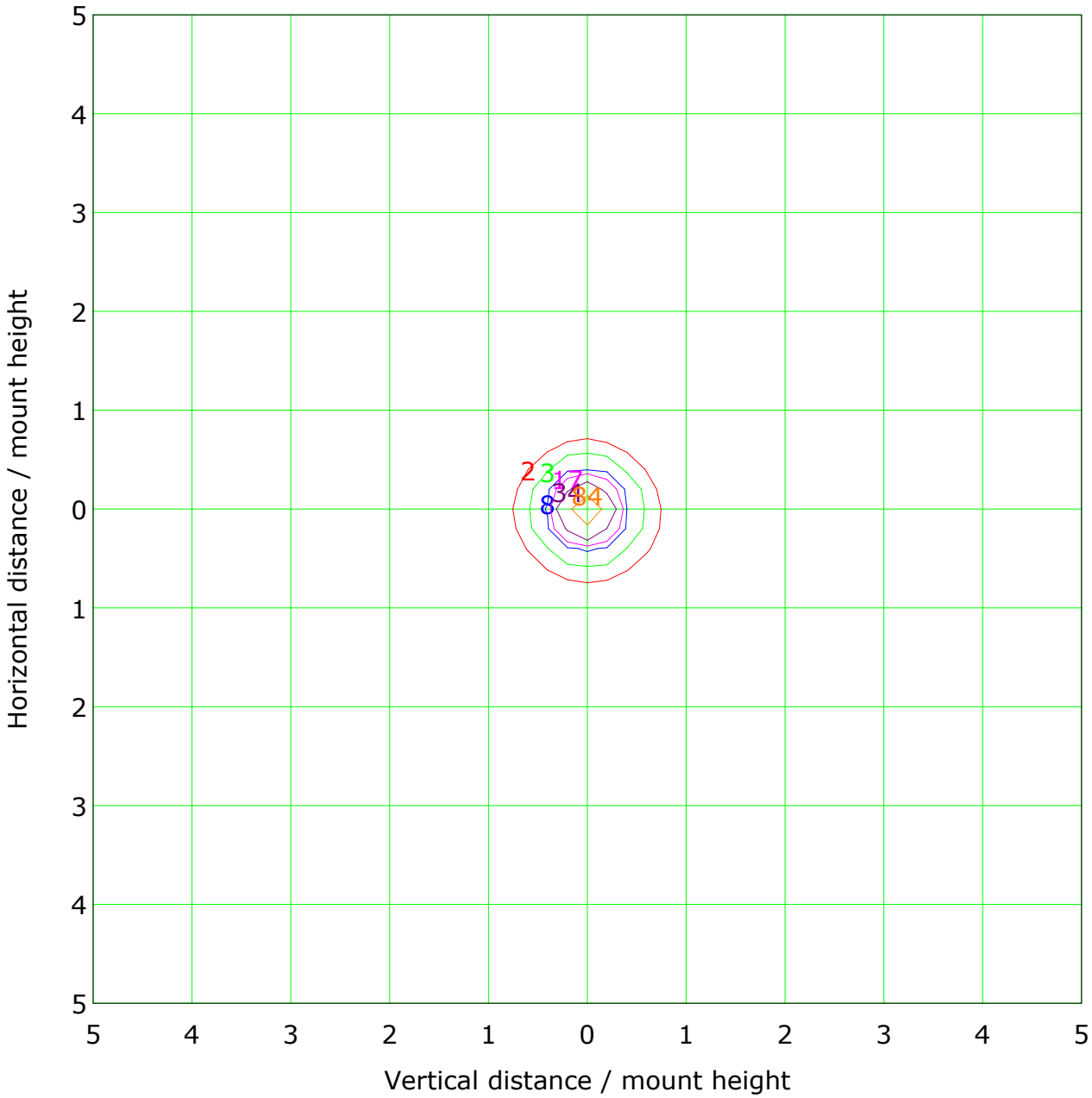
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 12
Operator: HU BAOLIANG

Gamma Plane (°):0.0-180.0:10.0
Test Device: GPM-1600L
Distance: 9.633 m
Humidity: 60
Inspector:

IsoLux Plot



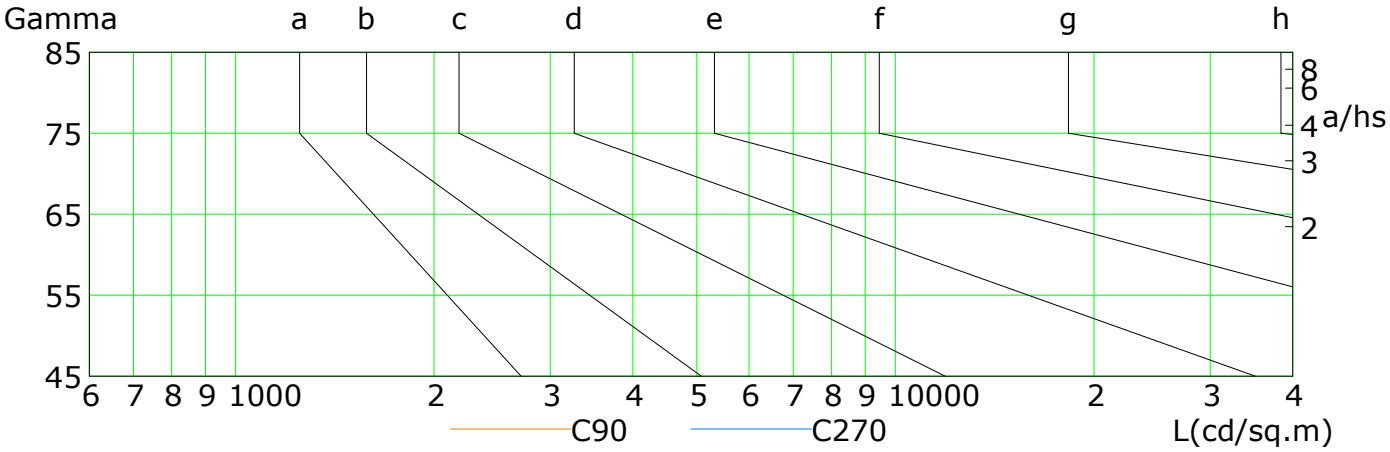
Mounting Height: 10.0m Max Lux(100%): 168.7 lx

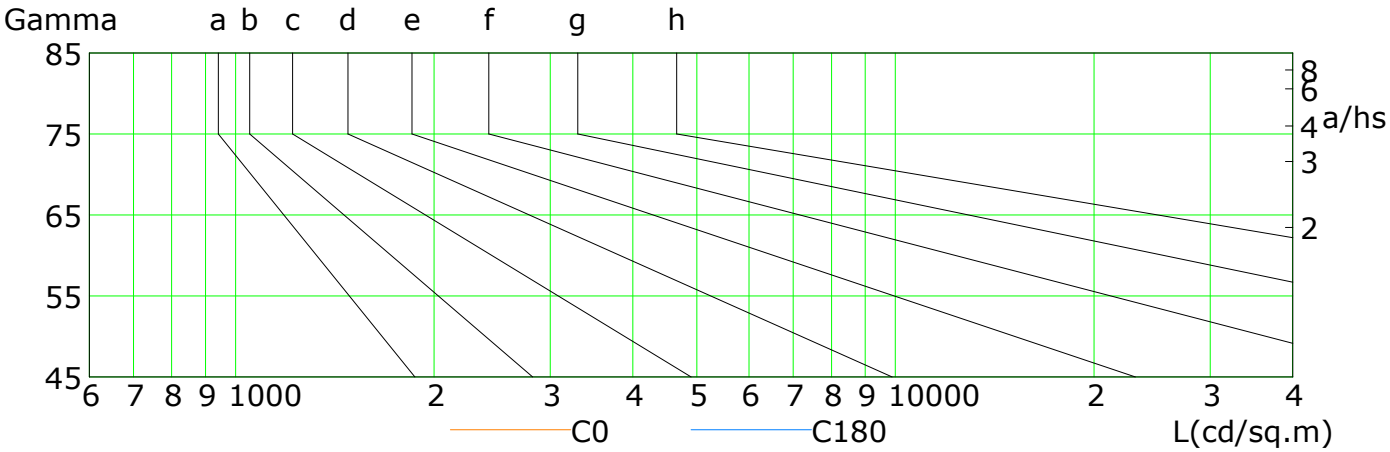
(1%): 1.7 lx
(2%): 3.4 lx
(5%): 8.4 lx
(10%): 16.9 lx
(20%): 33.7 lx
(50%): 84.4 lx
(100%): 168.7 lx

C Plane (°):0.0-360.0: 15.0
Gamma Plane (°):0.0-180.0:10.0
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 9.633 m
Temperature: 12
Humidity: 60
Operator: HU BAOLIANG
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



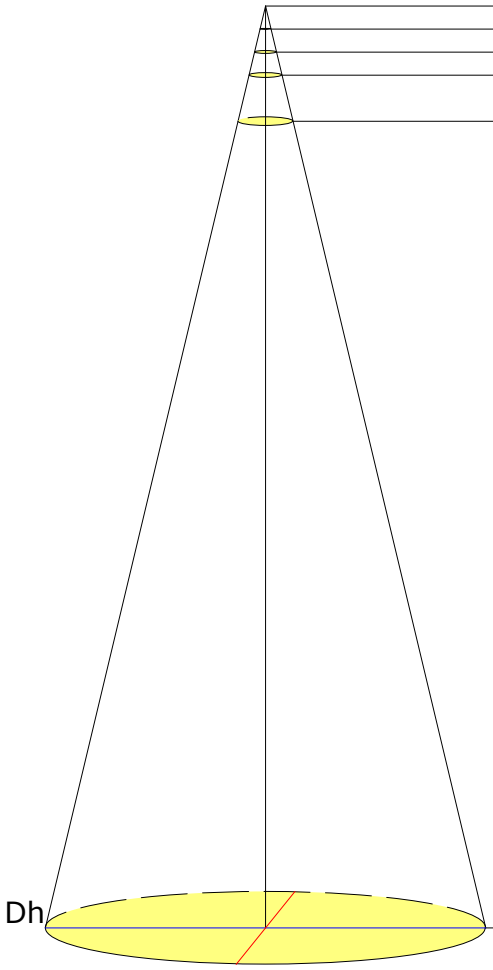


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	149	43	36	29	17	4	4	5	2
C90	148	53	37	22	15	7	4	1	0
C180	142	39	28	18	10	3	2	1	2
C270	117	42	27	11	7	3	4	4	3

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 12
Operator: HU BAOLIANG

Gamma Plane (°):0.0-180.0:10.0
Test Device: GPM-1600L
Distance: 9.633 m
Humidity: 60
Inspector:

Illuminance at a Distance



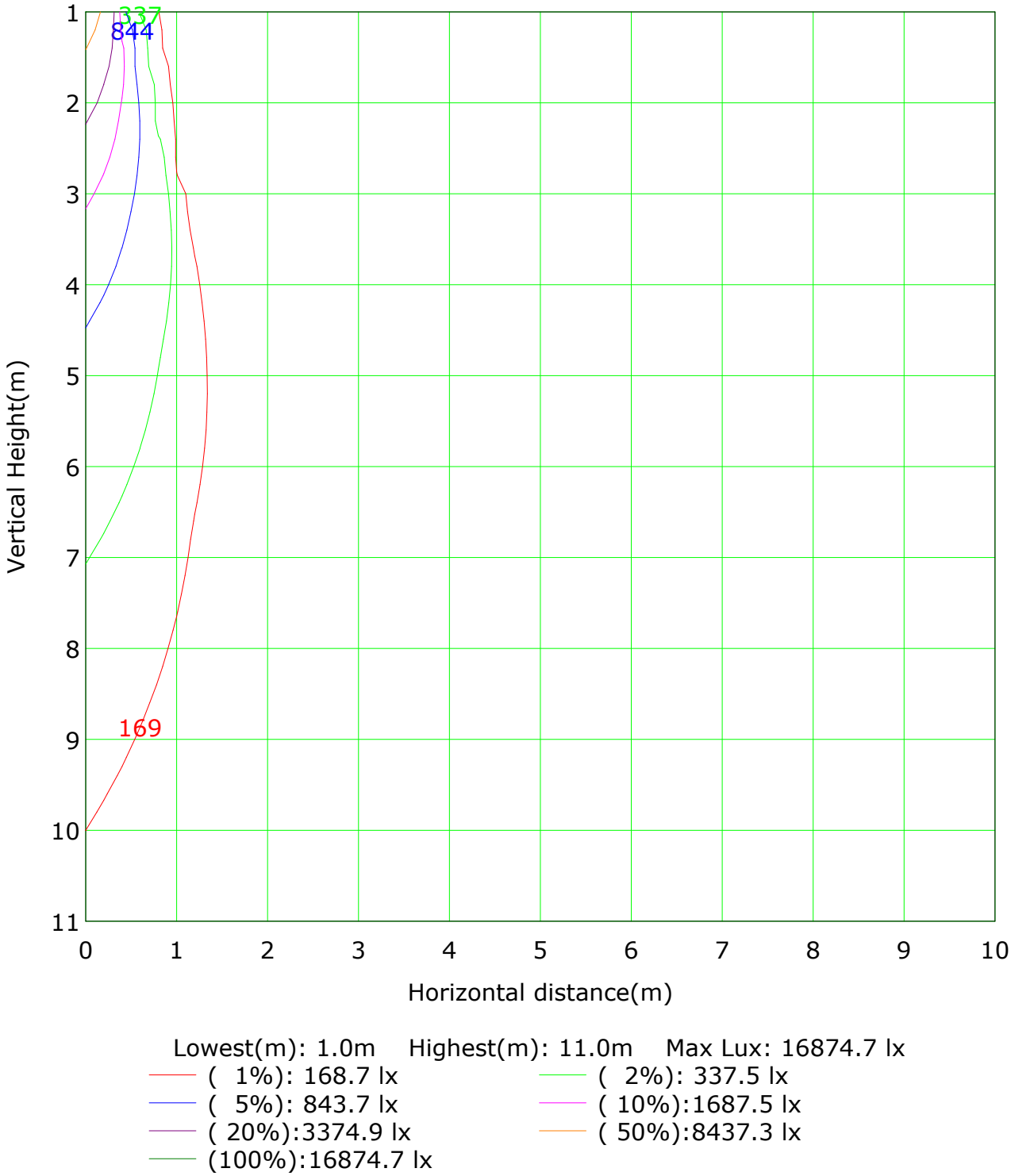
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
2.5	2699.95	0.00/0.00	0.0	411.54
5.0	674.99	0.00/0.00	0.2	102.89
7.5	299.99	0.00/0.00	0.3	45.73
12.5	108.00	0.00/0.00	1.0	16.46
100.0	1.69	0.00/0.00	61.9	0.26

Beam Angle(B): H0.0 V0.0 Field Angle(F): H38.5 V38.5

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 12
Operator: HU BAOLIANG

Gamma Plane (°):0.0-180.0:10.0
Test Device: GPM-1600L
Distance: 9.633 m
Humidity: 60
Inspector:

Vertical IsoLux Plot

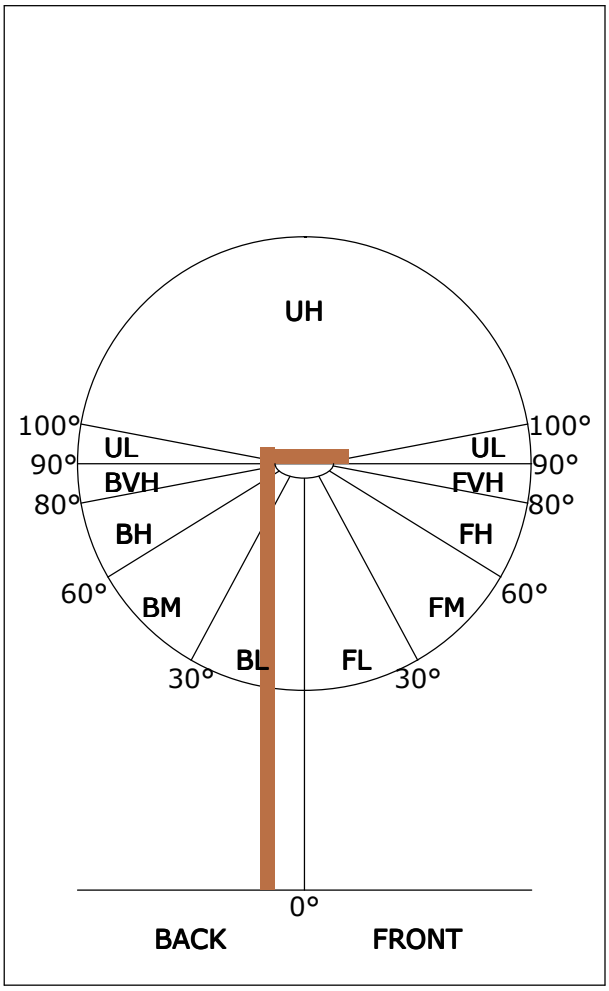


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 16874.7 lx

(1%): 168.7 lx
(2%): 337.5 lx
(5%): 843.7 lx
(10%):1687.5 lx
(20%):3374.9 lx
(50%):8437.3 lx
(100%):16874.7 lx

C Plane (°):0.0-360.0: 15.0
Gamma Plane (°):0.0-180.0:10.0
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 9.633 m
Temperature: 12
Humidity: 60
Operator: HU BAOLIANG
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1591	53.0
FL (0°-30°)	1396	46.5
FM (30°-60°)	184	6.1
FH (60°-80°)	9	0.3
FVH (80°-90°)	1	0.0
BACK LIGHT	1401	46.7
BL (0°-30°)	1233	41.1
BM (30°-60°)	160	5.3
BH (60°-80°)	7	0.2
BVH (80°-90°)	1	0.0
UP LIGHT	10	0.3
UL (90°-100°)	1	0.0
UH (100°-180°)	9	0.3
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)	B3 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U1 G0

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 12
Operator: HU BAOLIANG

Gamma Plane (°):0.0-180.0:10.0
Test Device: GPM-1600L
Distance: 9.633 m
Humidity: 60
Inspector: