

Report No.: GFB1797

Test Time: 2017-12-07 10:28

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: DLC GLB100W 3000K

Lamp Catalog: LED

Current: 0.373 A

Power Factor: 0.949

Voltage: 276.9 V

Power: 97.98 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 13032 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H83.6

Vertical Diffuse Angle(50%): V83.7

Luminaire Efficacy Rating (LER): 133.06

Max. Intensity: 8120 cd

S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 13032.0 lm

Efficiency: 100%

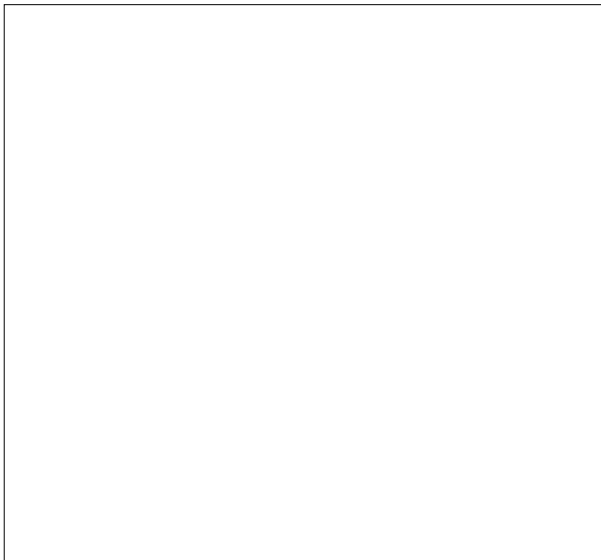
Upward Ratio: 2%

Central Intensity: 8119.99 cd

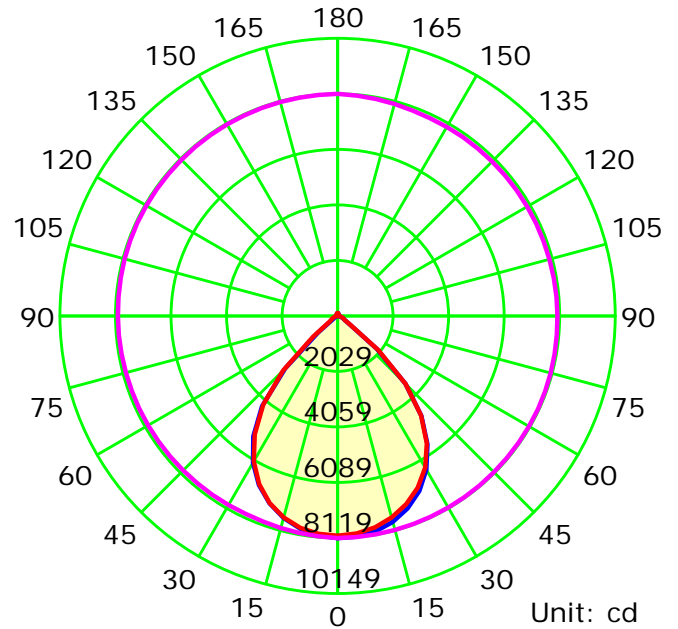
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.17

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

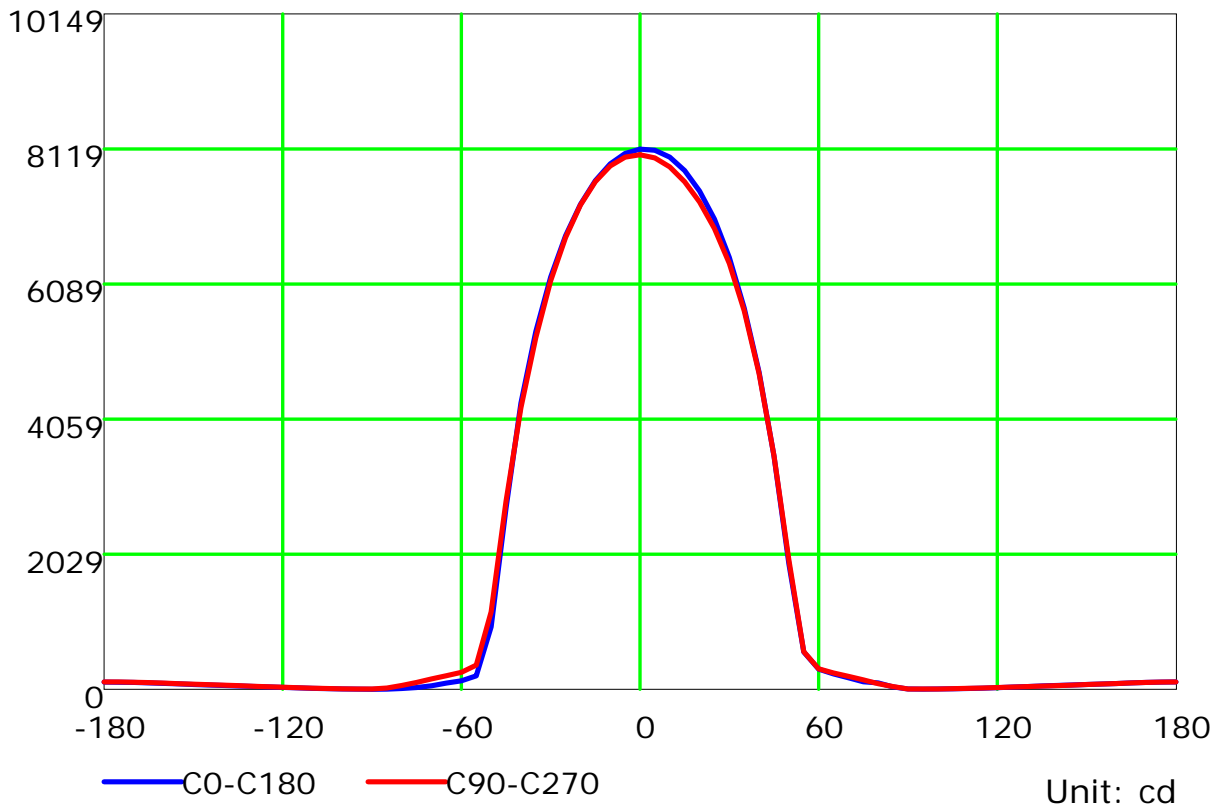
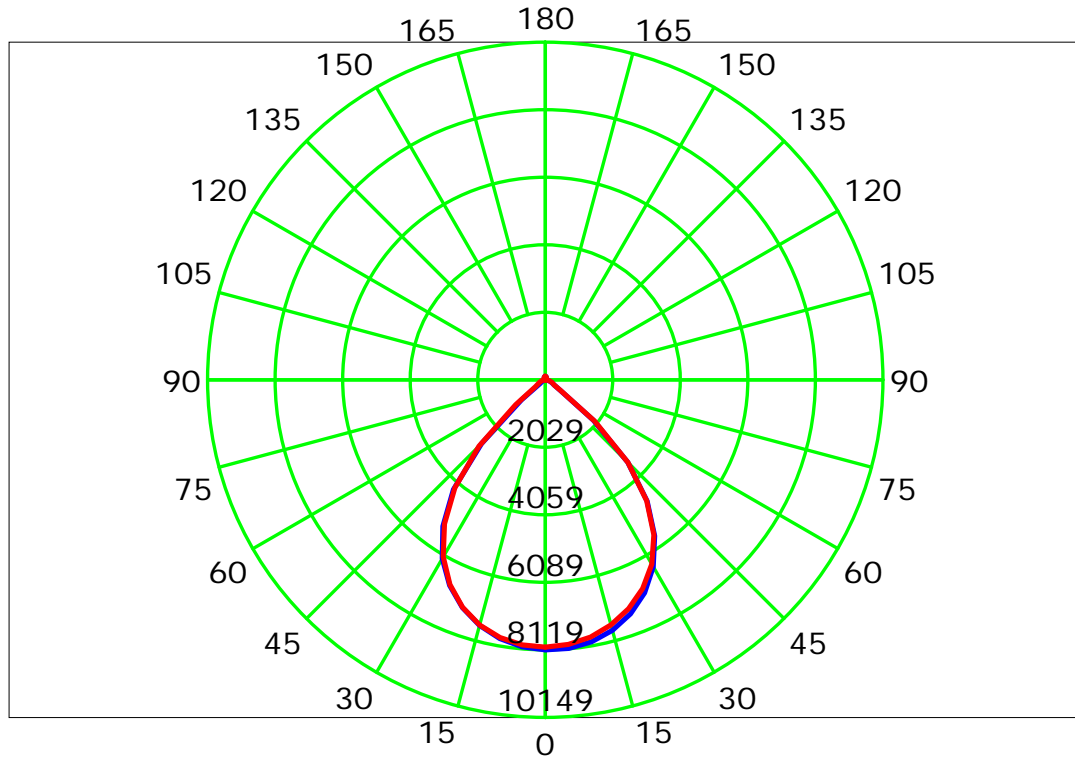
Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

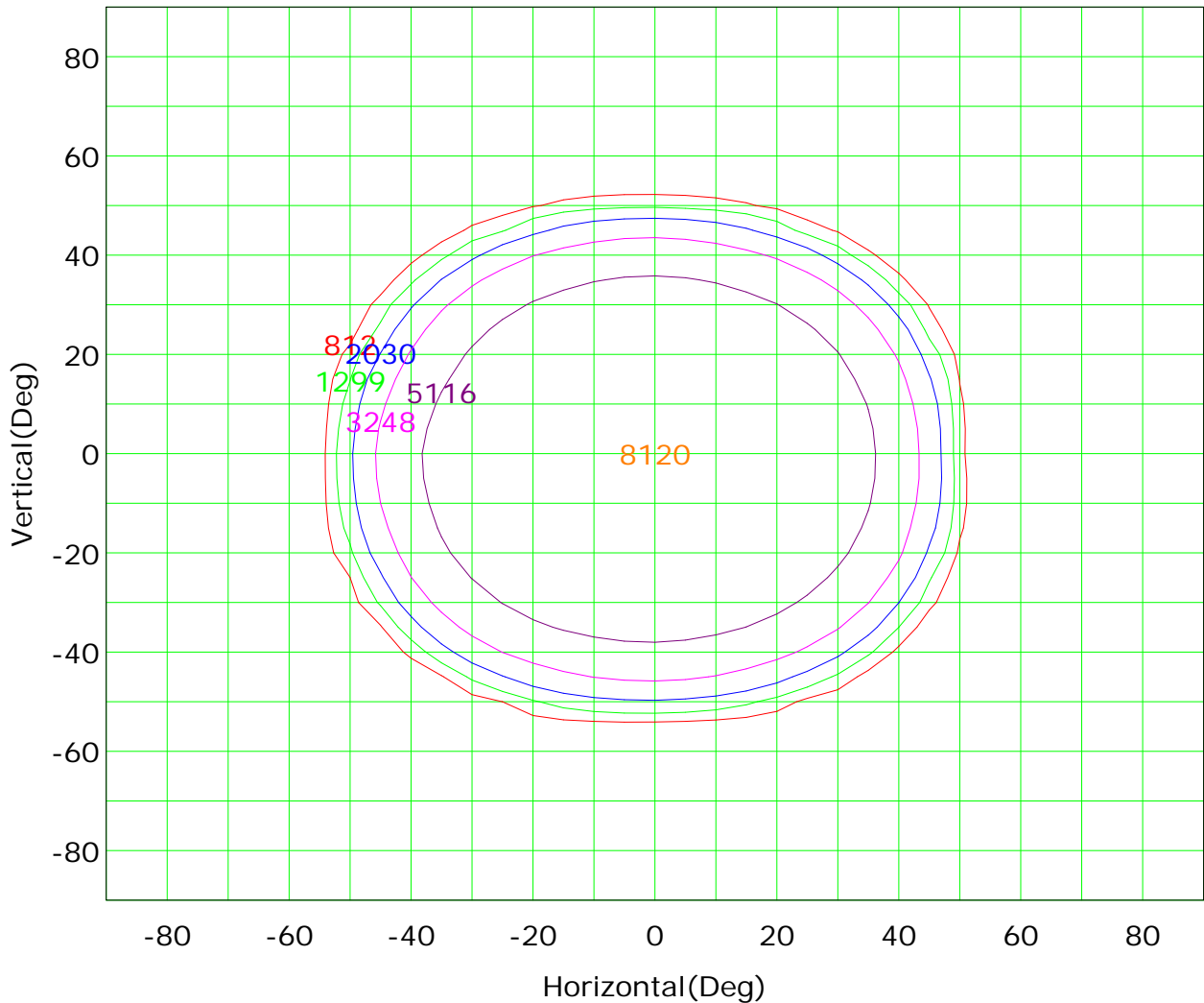
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



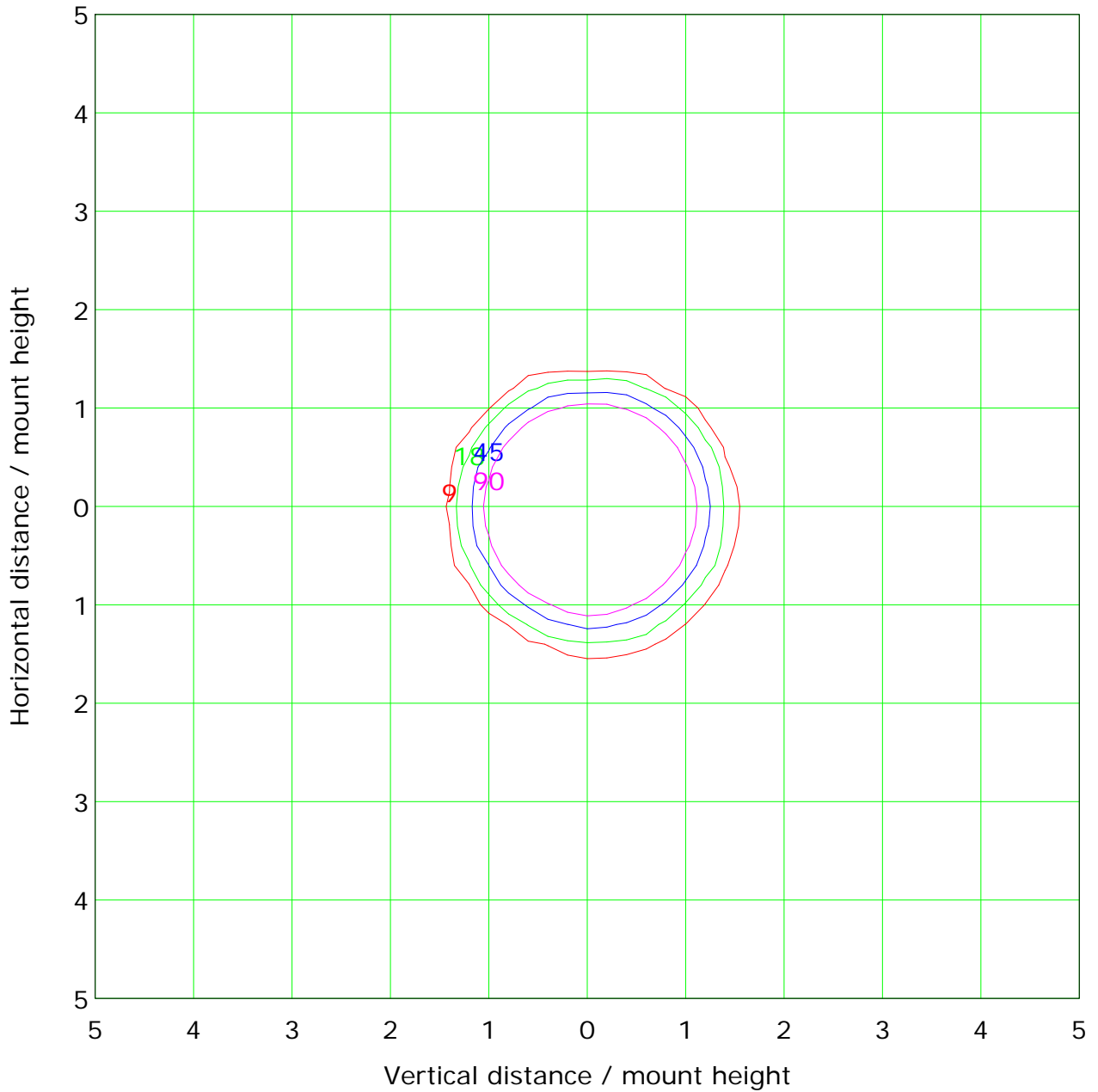
Imax (100%): 8120 cd

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 10%): 812 cd</li> <li><span style="color: blue;">—</span> ( 25%): 2030 cd</li> <li><span style="color: purple;">—</span> ( 63%): 5116 cd</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 16%): 1299 cd</li> <li><span style="color: magenta;">—</span> ( 40%): 3248 cd</li> <li><span style="color: orange;">—</span> (100%): 8120 cd</li> </ul> |
|---|---|

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

# IsoLux Plot



Mounting Height: 3.0m    Max Lux(100%): 902.2 lx

— ( 1%): 9.0 lx	— ( 2%): 18.0 lx
— ( 5%): 45.1 lx	— ( 10%): 90.2 lx

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

## Area Flux Table

Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.8	0.8	0.9	1.1	1.0	0.7	0.5	0.3	0.2	0.1	0.0	0.0	8.7	0.0
0.0	0.2	0.0	0.1	0.3	0.8	1.6	2.1	2.5	2.9	3.2	3.3	3.3	3.0	2.4	1.6	1.0	0.6	0.2	0.0	0.0	28.8	0.0
0.0	3.5	0.0	0.1	0.6	1.5	2.5	3.6	4.8	5.7	6.2	6.1	5.6	4.8	4.0	3.0	1.8	1.0	0.4	0.1	0.0	51.9	0.0
0.0	0.0	0.0	0.2	1.0	2.4	4.1	5.9	8.3	12.3	15.7	16.0	12.9	9.0	6.6	4.5	2.8	1.4	0.6	0.1	0.0	103.6	14.9
0.0	0.0	0.0	0.3	1.4	3.4	5.8	13.0	34.7	62.5	80.6	81.7	65.6	38.8	16.0	6.7	3.7	1.8	0.7	0.1	0.0	416.8	365.8
0.0	0.0	0.0	0.3	1.6	4.2	11.5	46.2	98.0	136.1	156.0	156.6	138.4	102.0	51.9	14.4	4.8	2.2	0.8	0.1	0.0	925.1	1894.7
0.0	0.0	0.0	0.3	1.7	4.7	27.8	89.4	144.6	182.7	202.3	202.6	184.1	147.5	94.4	33.9	6.5	2.6	0.9	0.1	0.0	1326.3	304.3
0.0	0.0	0.0	0.3	1.6	6.0	46.1	116.9	171.9	222.8	222.8	222.8	217.4	1121.9	56.2	10.3	2.9	1.0	0.1	0.0	0.0	1585.8	567.7
0.0	0.0	0.0	0.3	1.4	6.8	56.7	130.3	184.8	221.6	240.6	239.8	223.3	189.3	137.7	70.6	14.0	3.0	1.0	0.2	0.0	1721.3	705.5
0.0	0.0	0.0	0.3	1.3	7.0	58.2	131.8	185.1	220.4	238.5	241.8	225.9	192.0	140.4	72.8	14.7	3.1	1.0	0.2	0.0	1734.3	718.5
0.0	0.0	0.0	0.3	1.3	6.0	50.4	121.9	174.7	209.6	227.9	230.3	214.6	181.3	129.9	62.7	11.9	3.0	1.0	0.2	0.0	1627.0	609.9
0.0	0.0	0.0	0.3	1.3	4.1	32.9	98.1	152.2	188.1	206.5	208.1	192.4	158.4	106.3	42.9	8.1	2.8	1.0	0.1	0.0	1403.6	383.3
0.0	0.0	0.0	0.2	1.1	3.2	14.0	58.2	111.1	148.6	167.9	169.2	152.6	117.7	66.8	20.3	5.7	2.5	0.9	0.1	0.0	1040.3	313.4
0.0	0.0	0.0	0.2	0.9	2.7	6.1	19.1	49.6	82.0	100.7	102.0	86.0	55.4	23.5	8.5	4.3	2.1	0.8	0.1	0.0	544.0	500.3
0.0	0.0	0.0	0.1	0.7	2.1	4.5	7.2	10.6	17.6	24.2	25.1	19.8	12.5	8.0	5.2	3.2	1.7	0.6	0.1	0.0	143.2	51.5
0.0	0.0	0.0	0.1	0.4	1.4	3.1	4.6	5.7	6.7	7.4	7.6	7.1	6.2	4.8	3.3	2.2	1.2	0.4	0.1	0.0	62.4	0.0
0.0	0.0	0.0	0.0	0.2	0.7	1.6	2.7	3.5	3.9	4.2	4.2	3.9	3.3	2.7	2.2	1.5	0.7	0.2	0.0	0.0	35.7	0.0
0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.9	1.5	1.7	1.5	1.4	1.4	1.4	1.3	1.1	0.6	0.3	0.1	0.0	0.0	14.0	0.0
0.2	16.9	3.5	16.9	57.6	327.7	852.5	344.3	712.3	912.7	925.3	748.1	397.7	19.4	410.6	97.4	33.1	11.6	1.7	1.7	0.0	12773	
0.0	0.0	0.0	4.4	276.8	8806.7	1300.4	6669.6	870.7	1882.9	705.0	353.4	872.2	357.6	30.1	0.0	0.0	0.0	0.0	0.0	0.0	12130	

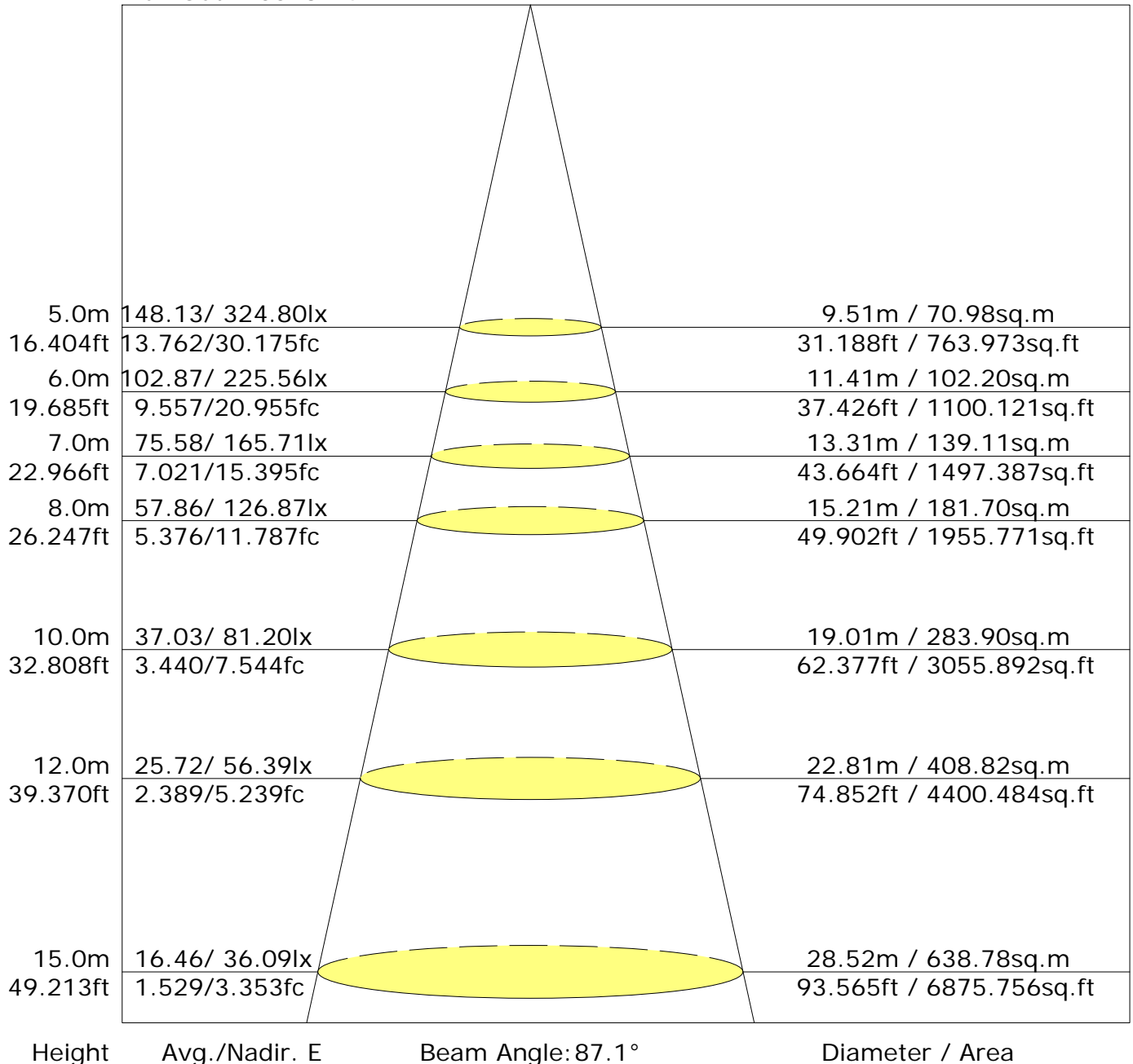
Horizontal plane

C Plane (°): 0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖

Gamma Plane (°): 0.0-180.0: 5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure

Flux Out: 10513.74lm



C Plane (°):0.0-360.0: 22.5  
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## UGR Table

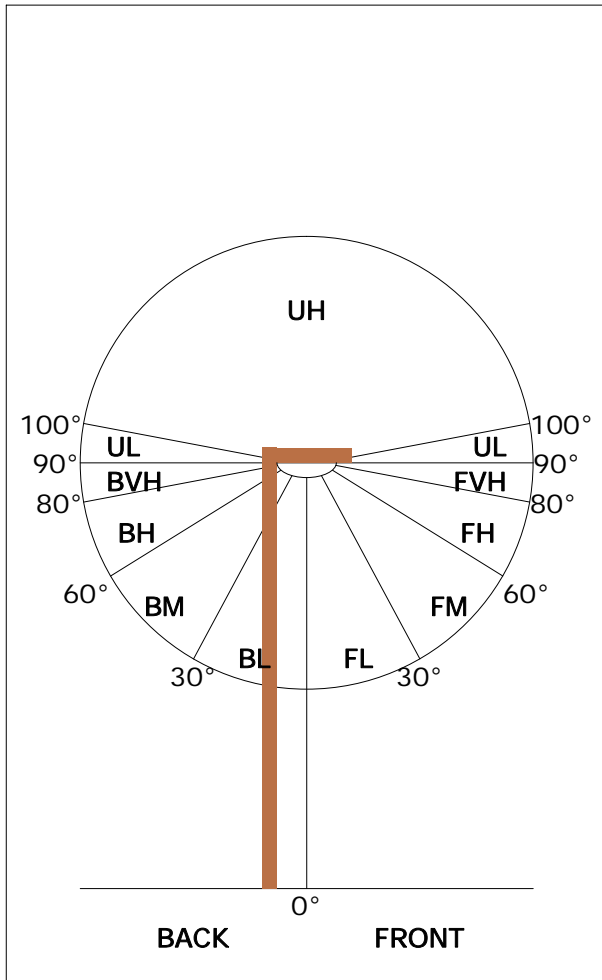
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
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 13032Im ( $8\log(F/F_0) = 8.9$ ).

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	6557	50.3
FL ( 0°-30°)	3053	23.4
FM (30°-60°)	3296	25.3
FH (60°-80°)	184	1.4
FVH (80°-90°)	24	0.2
BACK LIGHT	6240	47.9
BL ( 0°-30°)	3014	23.1
BM (30°-60°)	3063	23.5
BH (60°-80°)	147	1.1
BVH (80°-90°)	15	0.1
UP LIGHT	235	1.8
UL (90°-100°)	7	0.1
UH (100°-180°)	228	1.7
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U3 G1

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:



## Candlepower Table

Unit: cd

GVC	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	8120.0	8094.1	8079.4	8075.1	8034.0	8009.6	7987.7	7982.7	8120.0	8094.1
G5.0	8102.9	8072.7	8037.9	8037.6	7986.0	7955.8	7933.2	7927.7	8054.7	8032.9
G10.0	7999.3	7967.3	7937.1	7909.2	7851.6	7816.8	7788.5	7785.1	7897.0	7880.2
G15.0	7797.4	7757.8	7719.4	7691.8	7627.7	7587.3	7563.3	7553.7	7644.0	7620.7
G20.0	7488.2	7454.1	7418.6	7386.7	7324.5	7288.0	7255.4	7225.6	7289.0	7268.3
G25.0	7066.9	7039.6	7022.5	6979.6	6926.3	6884.8	6838.2	6799.1	6816.8	6782.7
G30.0	6490.9	6494.7	6492.3	6465.4	6402.0	6351.9	6294.5	6238.3	6197.8	6144.7
G35.0	5729.9	5763.5	5779.4	5744.6	5689.4	5631.5	5558.8	5488.9	5375.9	5301.7
G40.0	4765.7	4813.2	4833.6	4803.9	4743.6	4680.3	4573.9	4487.7	4302.0	4226.8
G45.0	3506.5	3552.3	3598.6	3570.1	3510.6	3442.4	3288.3	3156.7	2721.1	2799.8
G50.0	1886.2	1945.0	2030.2	2017.0	1944.3	1844.9	1709.6	1394.1	939.0	1116.2
G55.0	562.2	661.1	657.0	628.9	567.2	507.4	506.5	335.8	202.8	357.2
G60.0	305.1	356.5	345.6	326.9	309.9	296.9	309.2	199.0	128.7	265.2
G65.0	230.9	251.1	252.5	250.4	246.5	236.7	239.6	144.3	93.8	211.0
G70.0	173.3	195.6	188.7	195.1	196.4	173.8	187.0	98.2	54.5	153.9
G75.0	113.1	143.8	117.4	134.2	142.8	118.6	129.6	54.0	27.1	88.6
G80.0	98.2	89.8	104.7	85.9	86.4	133.2	63.8	25.7	12.5	35.5
G85.0	37.2	33.8	71.8	53.8	41.8	62.2	22.1	7.9	2.6	10.8
G90.0	5.0	9.4	13.4	10.8	6.5	7.0	6.0	5.5	1.7	5.3
G95.0	4.8	6.0	5.8	6.0	5.5	6.0	6.0	6.2	3.1	6.2
G100.0	6.0	7.4	7.4	7.7	7.2	7.7	8.2	8.4	6.0	8.6
G105.0	9.1	10.3	10.6	10.8	10.3	10.8	11.0	11.5	9.8	12.5
G110.0	13.7	14.9	14.6	15.4	14.6	15.4	15.8	16.3	15.1	18.0
G115.0	19.2	19.9	20.4	20.9	20.6	21.1	22.1	22.1	21.8	24.5
G120.0	26.4	26.6	27.4	27.8	27.6	27.8	28.8	28.8	29.3	31.9
G125.0	34.6	34.6	35.5	35.3	35.3	35.5	36.3	36.3	37.0	39.8
G130.0	43.0	43.0	43.5	43.5	43.0	43.0	43.7	43.9	44.9	47.5
G135.0	50.7	50.9	50.7	50.4	50.2	50.2	50.9	51.4	52.6	54.7
G140.0	58.1	58.1	57.8	57.8	57.6	57.6	58.1	58.3	59.8	62.2
G145.0	65.5	65.5	65.3	65.1	64.8	65.1	65.3	65.5	66.7	69.4
G150.0	72.5	72.5	72.5	72.3	72.3	71.8	72.5	72.7	73.9	76.6
G155.0	80.4	80.4	80.2	80.2	79.7	79.4	80.2	80.4	82.1	84.7
G160.0	88.8	88.8	89.1	89.1	87.8	87.6	88.6	88.8	90.5	92.9
G165.0	97.2	96.7	97.9	97.7	96.5	96.0	97.0	97.5	98.4	100.8
G170.0	104.7	103.9	104.7	104.9	103.9	103.0	103.9	104.2	104.2	106.1
G175.0	109.2	108.5	108.7	109.7	108.7	107.3	108.3	108.5	107.8	108.7
G180.0	111.1	110.4	110.7	110.9	111.1	109.7	110.4	109.9	109.5	109.5

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

GVC	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	8079.4	8075.1	8034.0	8009.6	7987.7	7982.7	8120.0			
G5.0	8030.5	8029.3	7997.8	7982.0	7965.9	7956.3	8102.9			
G10.0	7877.5	7886.2	7866.5	7857.1	7845.6	7843.2	7999.3			
G15.0	7626.7	7643.5	7630.8	7633.0	7631.3	7631.0	7797.4			
G20.0	7261.9	7277.0	7278.4	7287.1	7291.4	7301.9	7488.2			
G25.0	6765.9	6787.1	6790.4	6807.5	6822.6	6844.7	7066.9			
G30.0	6116.9	6133.0	6141.8	6158.2	6186.5	6229.7	6490.9			
G35.0	5257.5	5262.6	5285.9	5308.2	5361.5	5428.7	5729.9			
G40.0	4194.6	4187.0	4232.8	4284.2	4329.8	4421.0	4765.7			
G45.0	2772.4	2770.5	2827.4	2901.1	2954.6	3074.9	3506.5			
G50.0	1073.0	1098.2	1165.9	1217.9	1316.1	1457.8	1886.2			
G55.0	356.0	372.8	364.1	398.5	461.8	450.5	562.2			
G60.0	255.6	257.6	257.3	259.0	294.0	293.3	305.1			
G65.0	200.4	202.6	204.8	201.1	218.2	222.0	230.9			
G70.0	135.4	147.1	156.7	136.8	166.4	167.6	173.3			
G75.0	100.3	95.5	105.1	114.0	114.5	109.2	113.1			
G80.0	78.7	64.3	60.0	104.9	67.4	73.0	98.2			
G85.0	21.4	23.5	21.4	34.3	28.6	31.9	37.2			
G90.0	5.0	5.5	5.3	5.0	6.0	6.0	5.0			
G95.0	6.2	6.7	6.5	6.0	6.7	6.7	4.8			
G100.0	9.4	9.4	8.9	9.1	8.9	8.6	6.0			
G105.0	13.4	13.2	13.0	12.7	12.0	12.0	9.1			
G110.0	18.7	18.5	18.0	18.5	17.0	17.0	13.7			
G115.0	25.4	25.2	24.7	24.7	23.3	23.3	19.2			
G120.0	33.1	33.1	32.4	32.2	30.7	30.7	26.4			
G125.0	40.8	41.0	40.8	40.3	38.9	39.1	34.6			
G130.0	48.5	48.5	48.0	48.0	46.8	47.5	43.0			
G135.0	55.9	55.7	55.5	55.2	54.3	54.5	50.7			
G140.0	63.1	63.4	62.7	62.7	61.7	61.9	58.1			
G145.0	70.1	70.3	69.8	69.6	69.4	68.9	65.5			
G150.0	77.8	77.8	77.5	77.1	76.6	76.3	72.5			
G155.0	85.9	85.9	85.7	85.2	84.7	84.7	80.4			
G160.0	94.6	94.3	94.1	94.1	93.1	93.1	88.8			
G165.0	102.0	102.0	102.0	102.0	100.6	100.8	97.2			
G170.0	107.3	107.5	108.0	106.8	106.3	106.3	104.7			
G175.0	110.4	110.7	111.1	109.2	109.7	109.7	109.2			
G180.0	110.9	111.4	111.6	109.7	109.9	109.9	111.1			

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector: