

Report No.: GFB1806

Test Time: 2017-12-08 15:52

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: GLB42W-3000k

Voltage: 276.7 V

Power: 42.85 W

Lamp Catalog: LED

Current: 0.177 A

Power Factor: 0.877

Photometric Results

CIE Class: Direct

Measurement Flux: 6298 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H82.6

Vertical Diffuse Angle(50%): V83

Luminaire Efficacy Rating (LER): 147.03

Max. Intensity: 3983.42 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 6298.0 lm

Efficiency: 100%

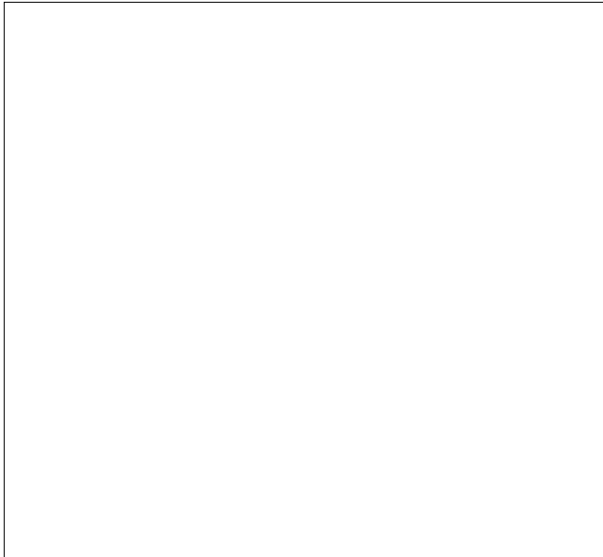
Upward Ratio: 2%

Central Intensity: 3962.18 cd

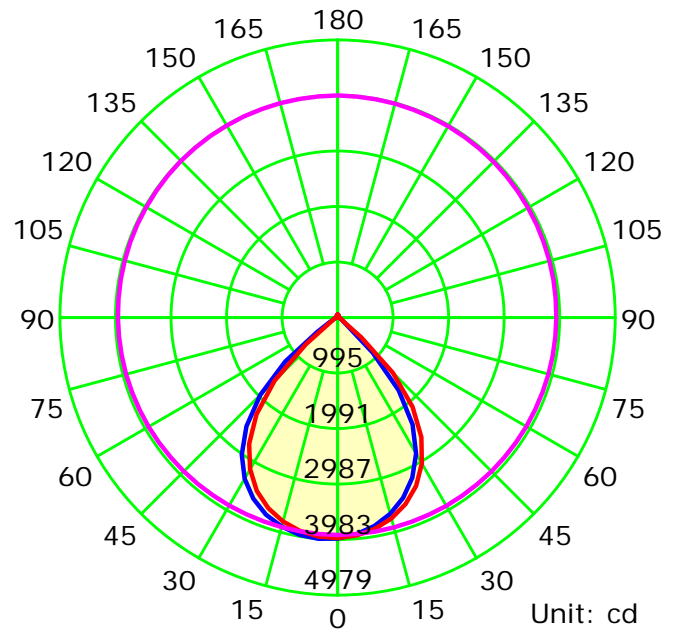
Pos of Max. Intensity: H180 V5

S/MH(C90/C270): 1.17

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G5

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

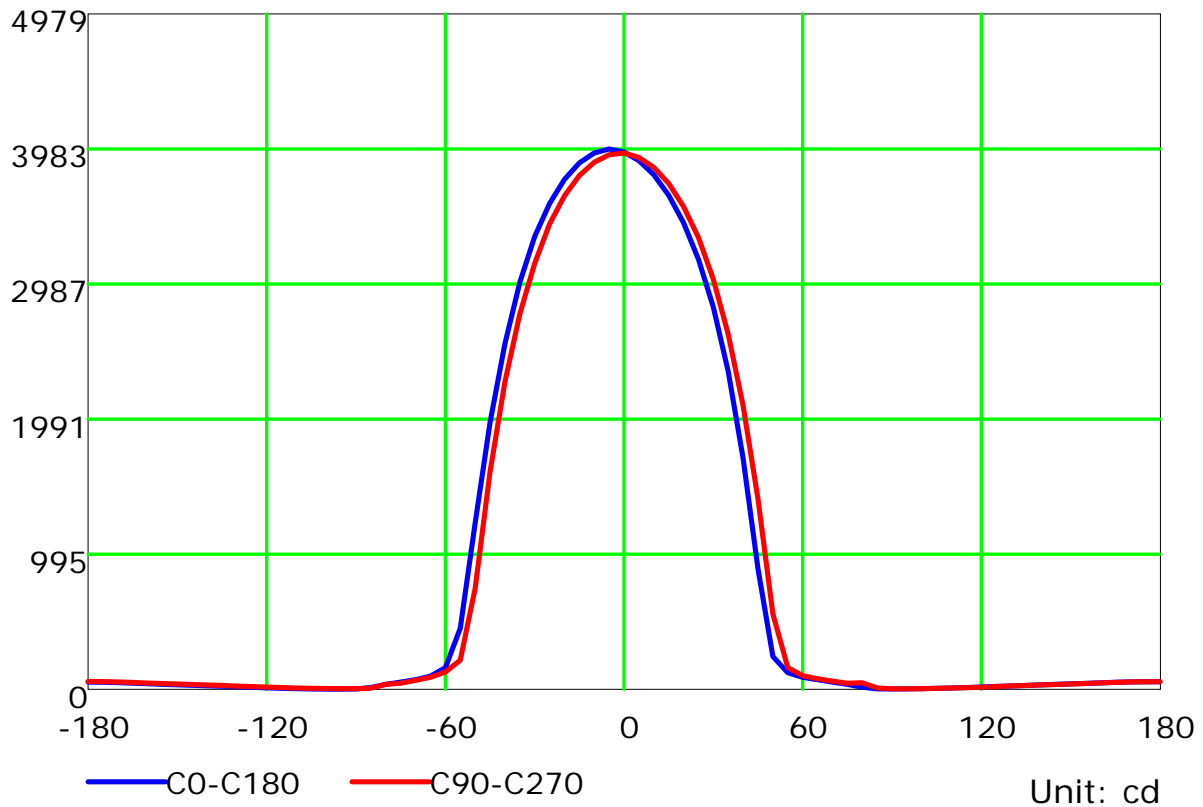
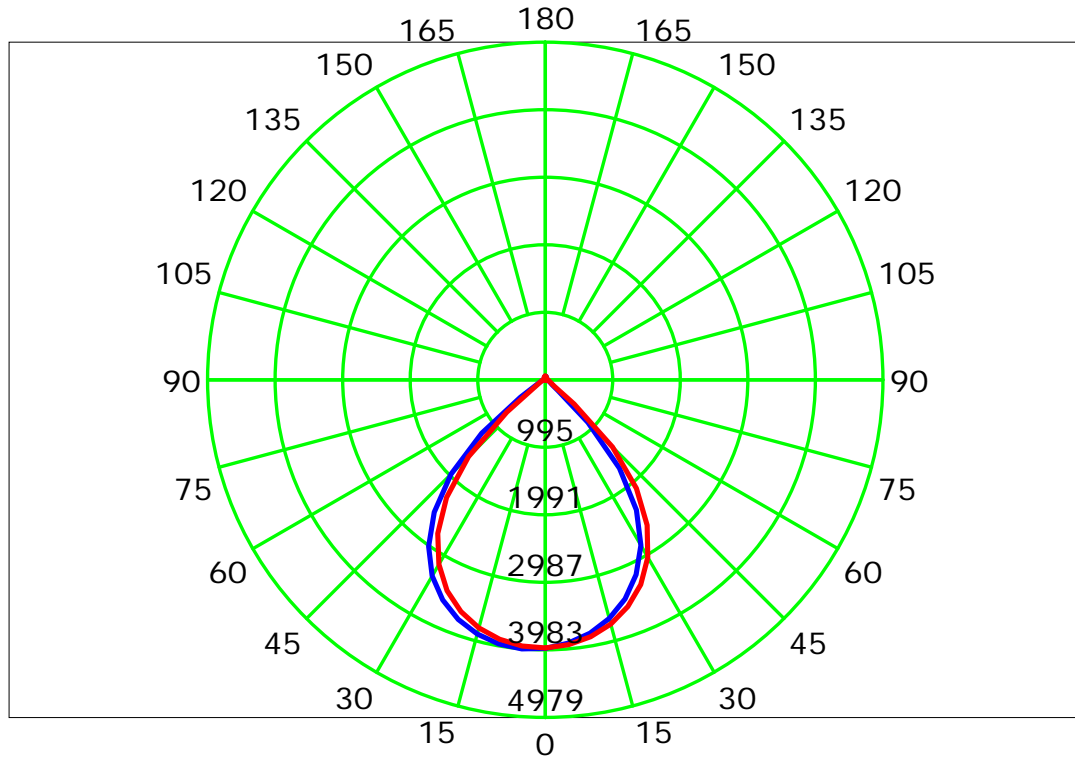
Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

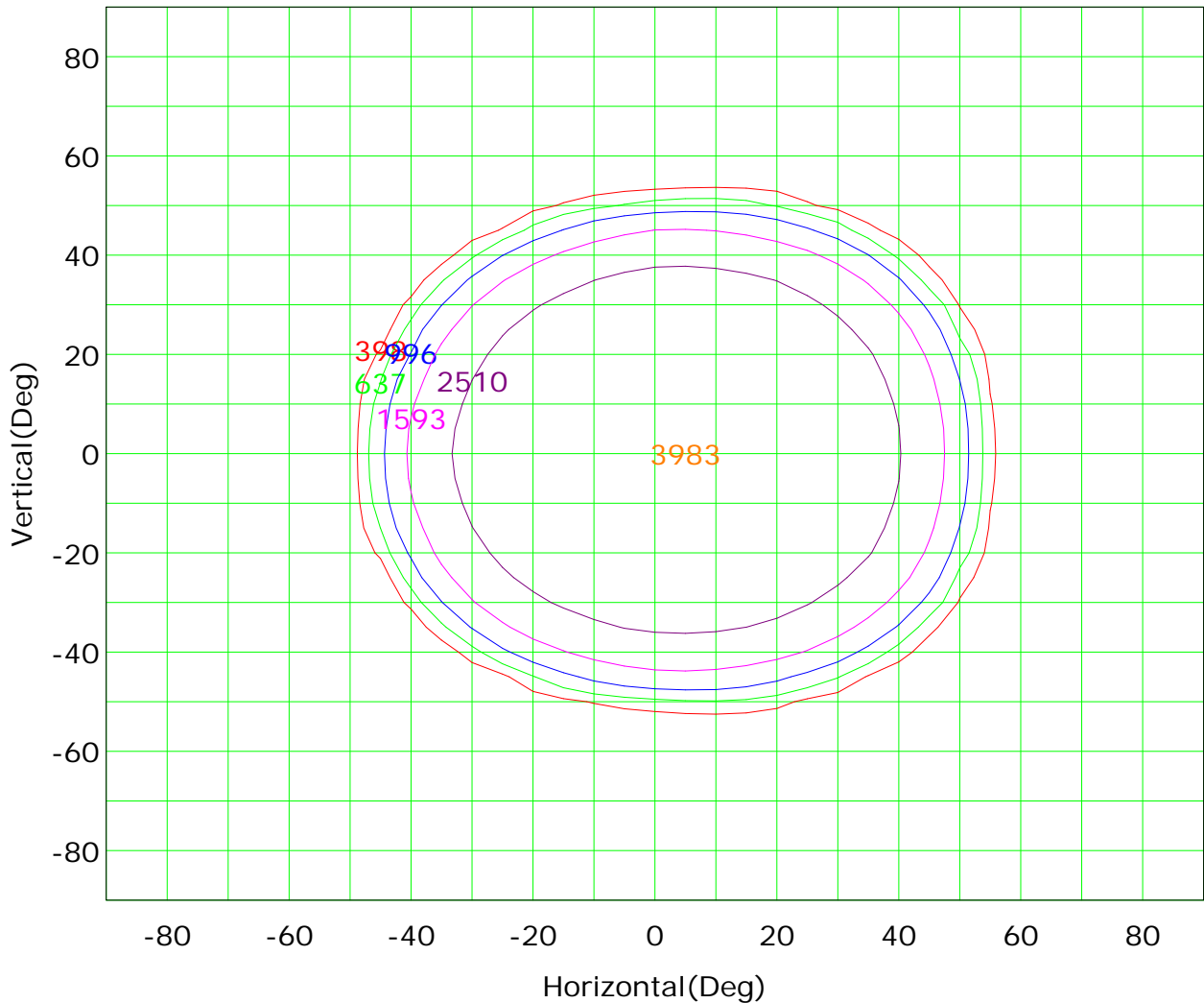
Luminous Intensity Distribution Curve



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)



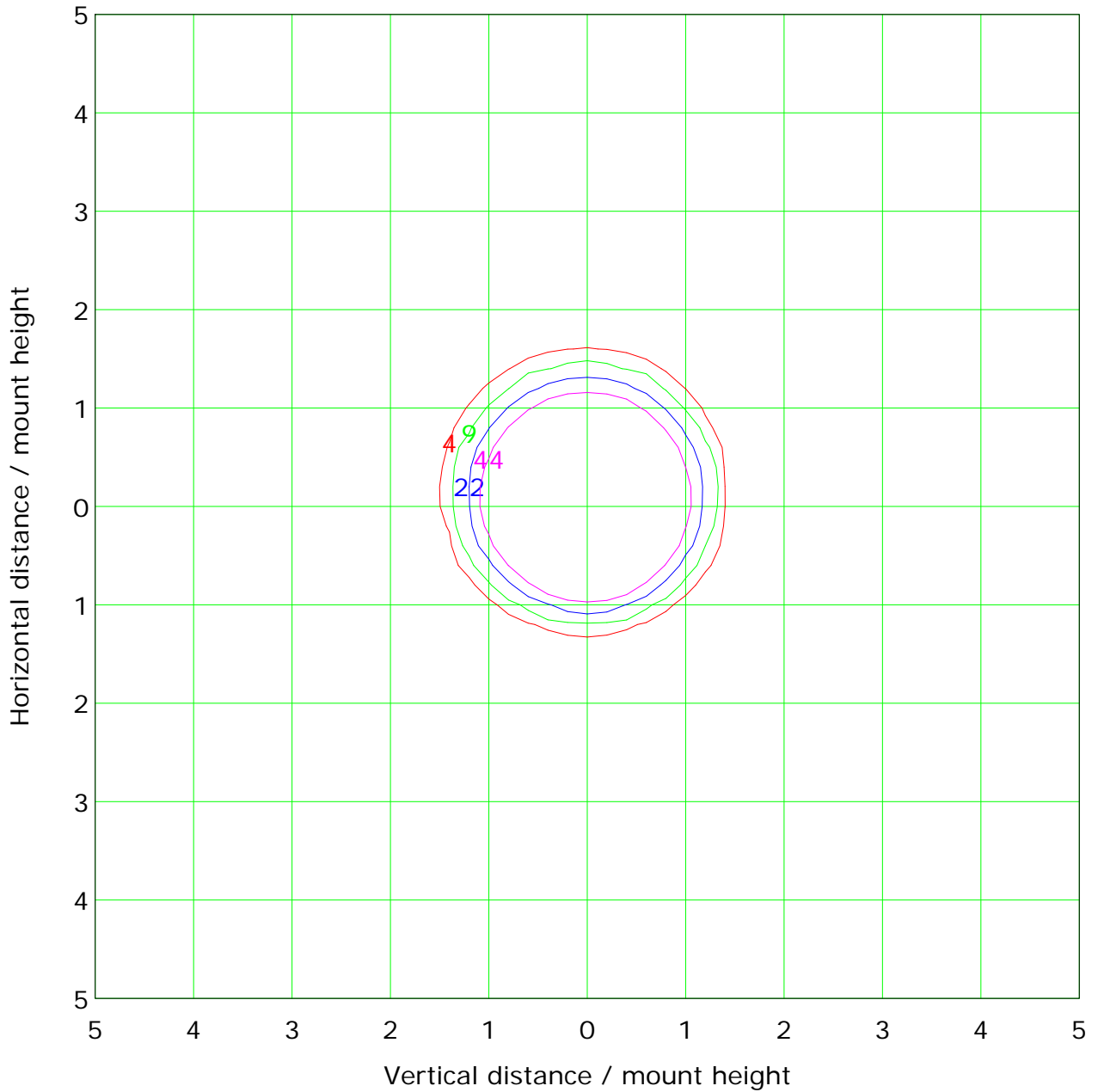
Imax (100%): 3983 cd

- | | |
|--|--|
| <ul style="list-style-type: none"> — (10%): 398 cd — (25%): 996 cd — (63%): 2510 cd | <ul style="list-style-type: none"> — (16%): 637 cd — (40%): 1593 cd — (100%): 3983 cd |
|--|--|

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%): 440.2 lx

— (1%): 4.4 lx	— (2%): 8.8 lx
— (5%): 22.0 lx	— (10%): 44.0 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	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0
0.0	0.7	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0	
0.0	5.2	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	
0.0	14.7	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.0	0.0	
0.0	30.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.0	1.0	0.9	0.8	0.7	0.5	0.4	0.0	0.0	
0.0	227.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.0	0.0	
0.0	486.8	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	
0.0	713.9	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	
0.0	986.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	
0.0	0.931	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	
0.0	5.897	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	
0.0	76.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	
0.0	856.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	
0.0	1306.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	
0.0	71.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	22.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	9.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	6160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	5867	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

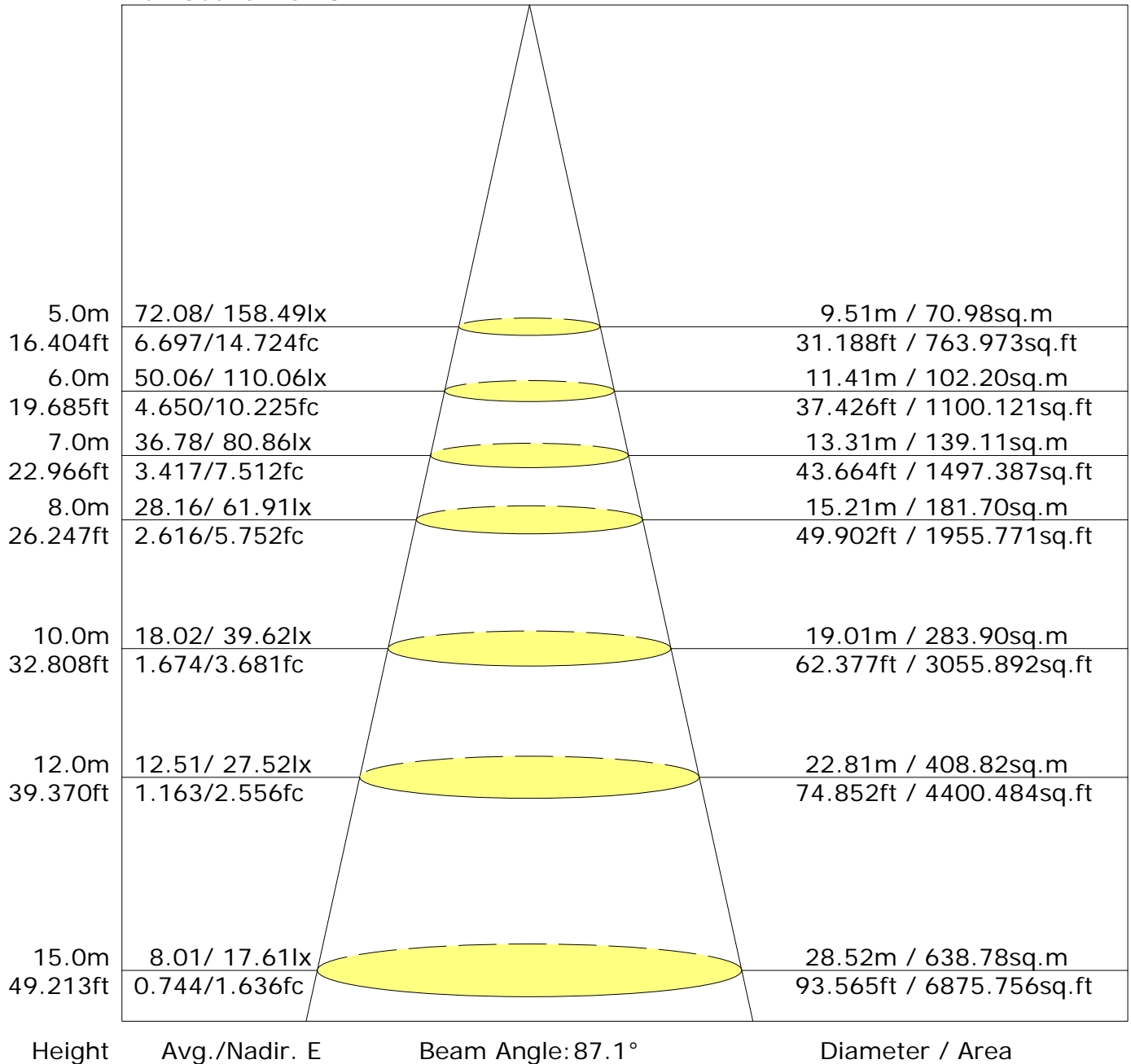
Horizontal plane

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:

The Average Illuminance Effective Figure

Flux Out: 5115.98lm



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:

UGR Table

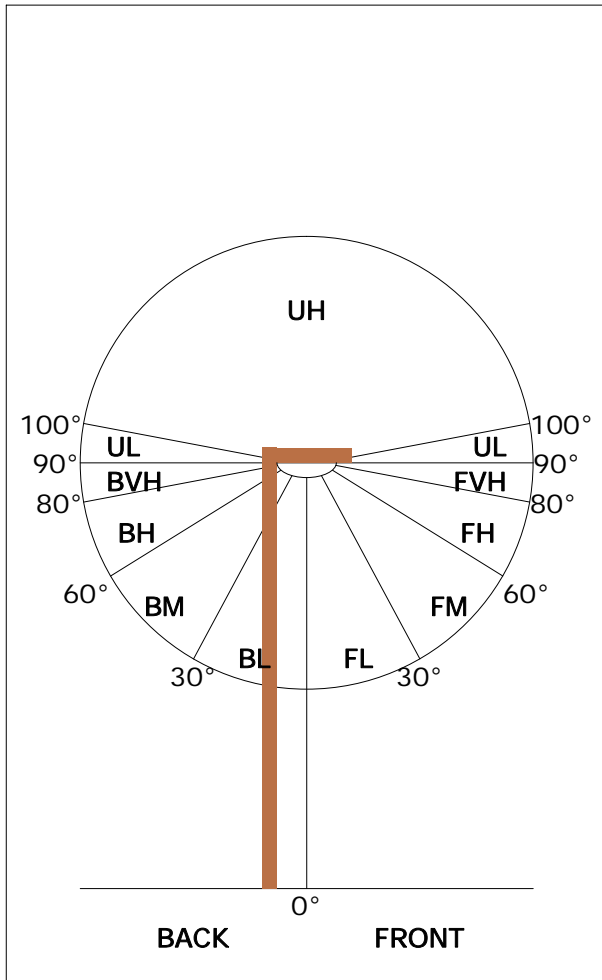
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 6298lm ($8\log(F/F_0) = 6.4$).

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	2758	43.8
FL (0°-30°)	1443	22.9
FM (30°-60°)	1249	19.8
FH (60°-80°)	59	0.9
FVH (80°-90°)	7	0.1
BACK LIGHT	3414	54.2
BL (0°-30°)	1536	24.4
BM (30°-60°)	1789	28.4
BH (60°-80°)	78	1.2
BVH (80°-90°)	11	0.2
UP LIGHT	126	2.0
UL (90°-100°)	6	0.1
UH (100°-180°)	121	1.9
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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	3962.2	3960.1	3959.3	3957.5	3954.1	3952.1	3949.8	3948.4	3962.2	3960.1
G5.0	3898.3	3895.9	3900.7	3910.4	3922.0	3938.1	3954.4	3968.2	3983.4	3982.0
G10.0	3794.4	3789.5	3798.9	3819.5	3848.3	3882.1	3913.7	3939.6	3955.0	3955.6
G15.0	3643.2	3635.4	3651.2	3684.6	3729.8	3781.4	3829.7	3866.2	3880.9	3882.7
G20.0	3440.1	3431.0	3450.8	3497.0	3559.8	3633.2	3696.9	3746.0	3760.1	3763.2
G25.0	3170.6	3156.3	3182.7	3247.2	3332.0	3424.5	3505.4	3571.3	3581.5	3585.6
G30.0	2817.9	2795.6	2834.2	2917.3	3023.0	3138.0	3243.0	3322.8	3338.2	3345.6
G35.0	2343.6	2327.0	2380.9	2482.8	2617.5	2760.6	2883.2	2994.2	3000.0	3003.1
G40.0	1703.1	1705.8	1785.8	1904.9	2091.0	2266.4	2401.7	2552.2	2548.4	2557.5
G45.0	889.3	892.3	992.2	1154.2	1403.6	1617.4	1793.7	1996.2	1966.3	1991.6
G50.0	242.8	231.2	282.0	396.4	555.8	786.2	1002.3	1250.7	1225.6	1267.8
G55.0	123.5	117.1	122.5	145.0	160.7	220.1	320.2	438.2	450.7	449.4
G60.0	89.4	87.0	88.4	96.7	101.3	113.9	132.7	150.6	160.1	165.4
G65.0	70.8	69.3	70.8	75.8	78.1	83.7	91.6	99.0	97.8	100.3
G70.0	53.4	49.8	52.0	59.7	60.7	66.7	71.1	73.4	71.4	73.8
G75.0	36.6	36.7	37.2	43.3	45.7	50.3	54.5	49.5	53.4	53.7
G80.0	15.6	24.6	26.4	27.4	49.5	34.0	38.0	35.9	37.2	36.4
G85.0	3.6	5.9	9.4	10.1	10.9	18.2	23.0	28.4	13.4	24.4
G90.0	3.4	3.8	5.0	5.4	4.6	6.0	8.6	9.7	2.9	9.1
G95.0	3.8	4.7	5.9	5.4	4.6	5.0	4.1	4.1	1.7	3.8
G100.0	5.4	6.5	7.1	6.7	5.8	5.8	4.8	4.8	2.3	4.3
G105.0	7.6	8.6	9.1	8.6	7.2	7.4	6.4	5.8	3.5	5.8
G110.0	10.3	11.4	11.4	11.3	9.7	9.6	8.0	7.4	5.4	7.6
G115.0	13.8	14.6	14.8	14.5	12.8	12.5	10.6	9.8	7.9	10.2
G120.0	17.2	18.6	19.1	18.2	16.4	16.0	13.7	13.1	11.2	13.4
G125.0	21.4	22.8	22.9	22.2	20.3	19.7	17.4	16.8	15.0	17.3
G130.0	25.3	26.6	26.6	25.7	24.8	23.4	21.4	21.2	19.1	21.2
G135.0	29.4	30.4	30.2	29.3	28.4	27.2	25.0	24.6	22.9	25.2
G140.0	33.3	33.6	34.0	33.3	32.2	30.7	28.6	28.2	26.5	28.9
G145.0	36.7	37.1	36.1	36.8	35.8	34.3	32.3	31.7	30.2	32.4
G150.0	40.5	40.8	39.8	40.5	39.3	37.8	35.7	35.8	33.7	35.9
G155.0	44.4	44.8	43.8	44.4	43.1	41.4	39.4	39.4	37.2	40.0
G160.0	48.1	48.6	48.0	48.6	47.3	45.6	43.7	43.7	41.4	43.9
G165.0	52.0	52.3	52.2	52.7	51.4	49.8	47.9	48.6	45.8	48.3
G170.0	54.4	55.0	54.7	55.6	54.6	53.4	51.8	52.8	49.8	52.1
G175.0	55.8	56.2	56.0	56.9	56.5	55.7	54.5	55.7	52.6	54.5
G180.0	56.3	56.0	56.2	57.7	57.6	56.9	55.7	56.9	54.0	55.7

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	3959.3	3957.5	3954.1	3952.1	3949.8	3948.4	3962.2			
G5.0	3974.7	3960.9	3941.8	3921.7	3902.3	3886.9	3898.3			
G10.0	3943.0	3919.9	3886.4	3849.6	3814.3	3785.6	3794.4			
G15.0	3865.9	3832.8	3787.7	3735.2	3682.8	3637.4	3643.2			
G20.0	3741.5	3701.4	3638.4	3566.2	3493.5	3434.0	3440.1			
G25.0	3558.7	3509.1	3430.7	3334.8	3235.6	3163.1	3170.6			
G30.0	3310.5	3245.7	3140.5	3017.4	2895.8	2804.0	2817.9			
G35.0	2964.3	2889.9	2767.5	2591.8	2433.5	2322.5	2343.6			
G40.0	2515.7	2420.7	2265.5	2027.1	1823.9	1675.9	1703.1			
G45.0	1936.4	1795.1	1602.4	1287.8	1037.4	840.5	889.3			
G50.0	1170.3	980.3	743.8	513.1	331.9	232.8	242.8			
G55.0	401.1	305.9	215.6	169.6	137.2	122.2	123.5			
G60.0	163.5	151.3	127.9	110.4	95.7	89.7	89.4			
G65.0	103.5	98.9	89.5	81.0	73.4	69.7	70.8			
G70.0	75.1	72.0	66.4	61.6	55.6	46.9	53.4			
G75.0	54.4	52.9	45.0	44.7	38.3	45.7	36.6			
G80.0	36.0	34.9	37.7	26.4	24.2	28.3	15.6			
G85.0	23.5	13.4	9.4	11.3	9.0	5.5	3.6			
G90.0	8.4	5.3	5.2	4.9	4.7	4.3	3.4			
G95.0	4.1	4.3	5.4	5.3	5.4	5.0	3.8			
G100.0	4.7	5.2	6.4	6.5	6.8	6.7	5.4			
G105.0	6.4	6.6	8.0	8.3	8.6	8.8	7.6			
G110.0	8.4	8.8	10.0	10.8	11.2	11.9	10.3			
G115.0	11.0	11.4	13.1	13.9	14.6	15.4	13.8			
G120.0	14.4	14.9	16.6	17.6	18.7	19.6	17.2			
G125.0	18.1	18.7	20.5	21.6	22.6	23.4	21.4			
G130.0	22.1	22.6	24.6	25.6	26.3	27.5	25.3			
G135.0	26.0	26.4	28.6	29.4	30.4	31.3	29.4			
G140.0	29.6	30.1	32.0	32.4	33.8	34.9	33.3			
G145.0	33.1	33.7	35.7	35.9	37.5	38.0	36.7			
G150.0	36.8	37.2	39.3	40.0	40.8	41.5	40.5			
G155.0	40.7	41.0	43.1	44.0	45.0	45.5	44.4			
G160.0	44.7	45.3	47.2	48.3	49.2	49.5	48.1			
G165.0	49.0	49.5	51.7	52.3	52.7	52.8	52.0			
G170.0	52.6	53.0	55.5	55.1	55.1	54.8	54.4			
G175.0	55.3	54.8	57.3	56.7	56.5	56.5	55.8			
G180.0	56.7	55.9	58.0	56.8	56.4	55.7	56.3			

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: