

Report No.: GFB18032

Test Time: 2018-02-01 13:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: WMQ10W

Current: 0.084 A

Power Factor: 0.995

Voltage: 119.9 V

Power: 10.03 W

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 342.2 lm

Downward Ratio: 50%

Horizontal Diffuse Angle(50%): H80.9

Vertical Diffuse Angle(50%): V333

Luminaire Efficacy Rating (LER): 34.17

Max. Intensity: 233.09 cd

S/MH(C0/C180): 1.40

Total Rated Lamp Lumens: 342.2 lm

Efficiency: 100%

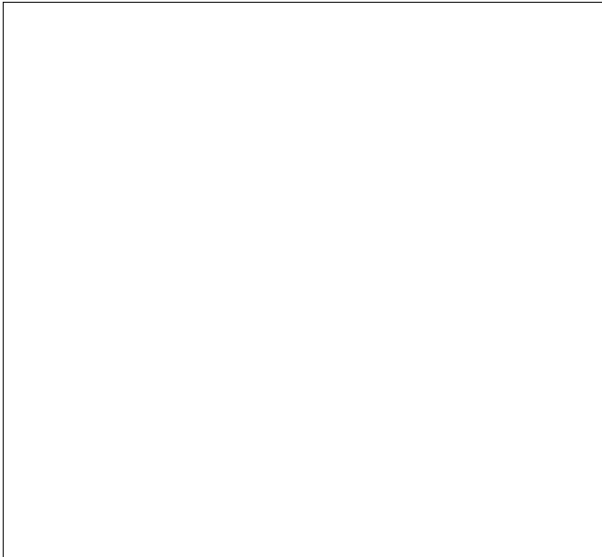
Upward Ratio: 50%

Central Intensity: 113.29 cd

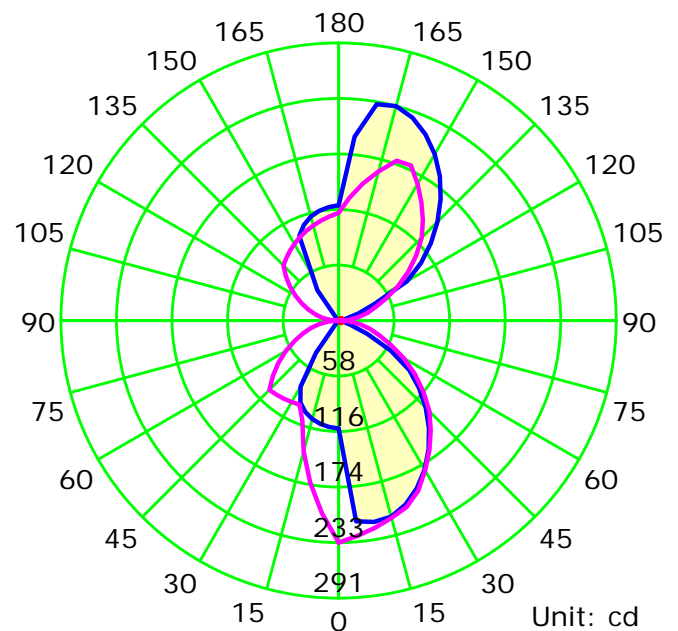
Pos of Max. Intensity: H0 V165

S/MH(C90/C270): 3.44

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G165

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 韩顺

Gamma Plane (°):0.0-180.0:5.0

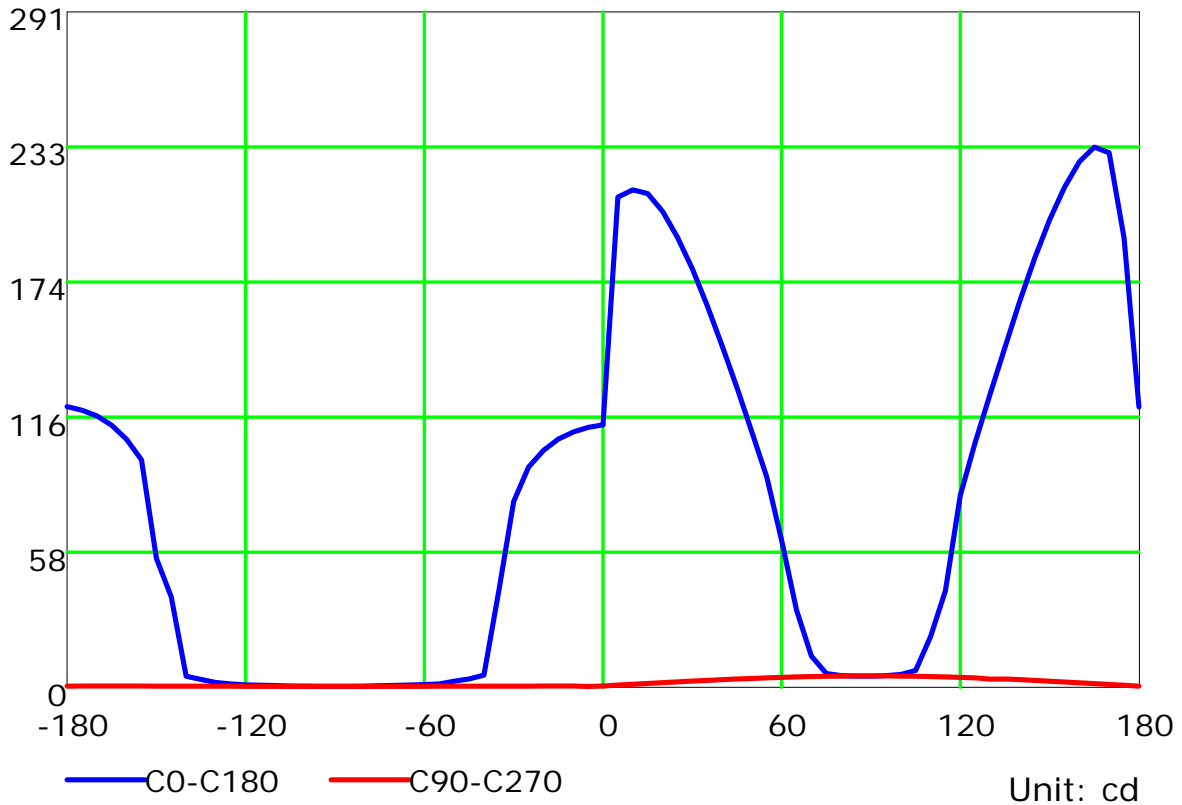
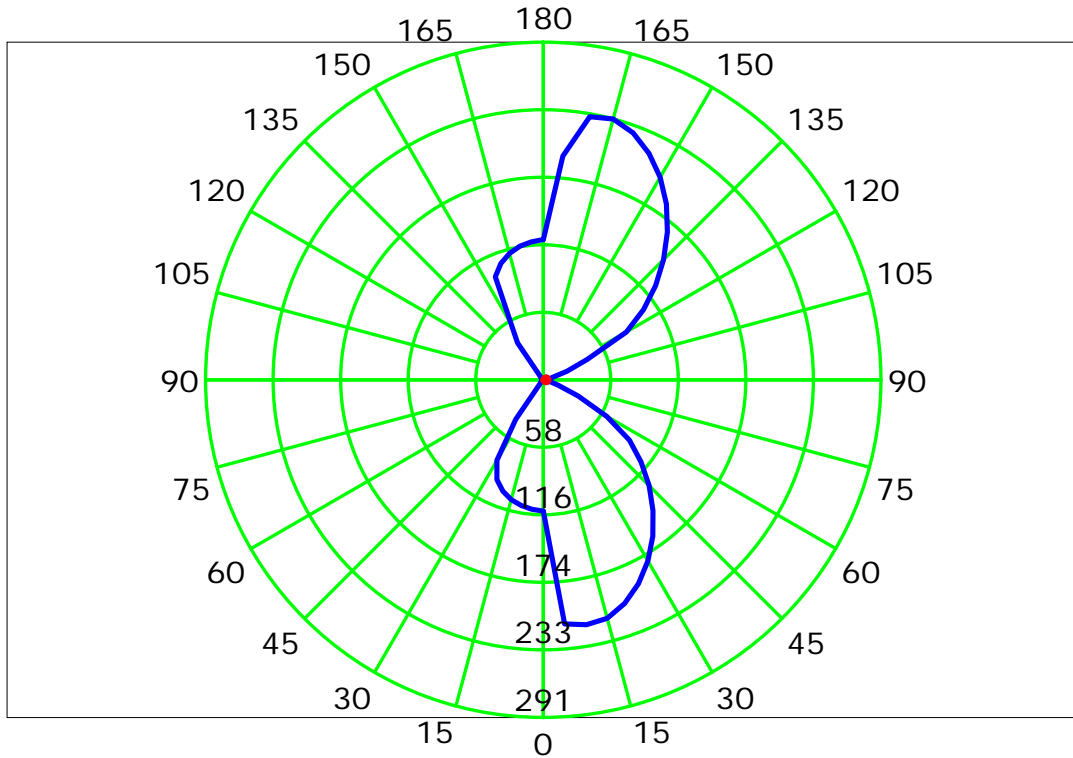
Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

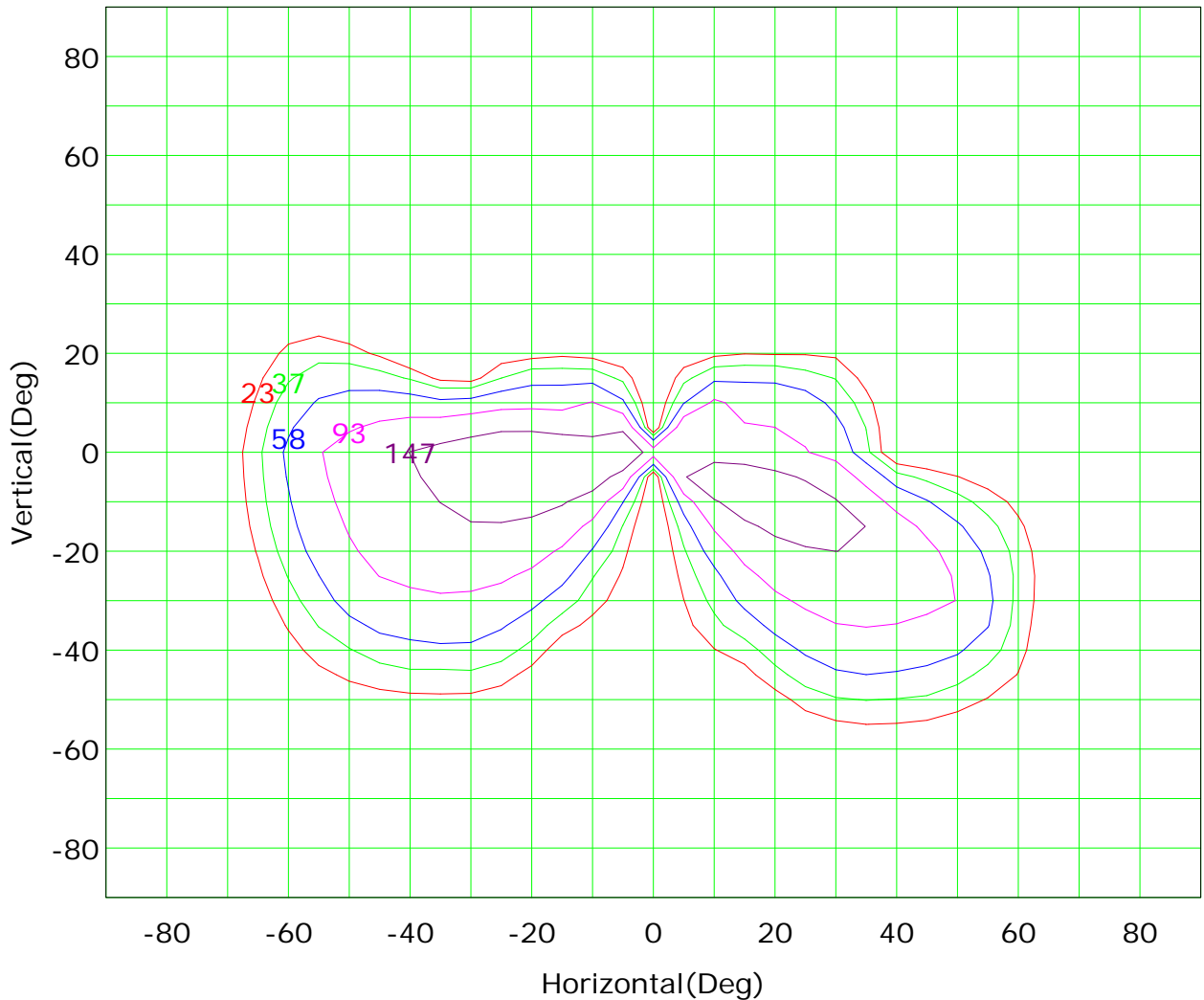
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
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 Humidity:
 Inspector:

Isocandela (rectangle)



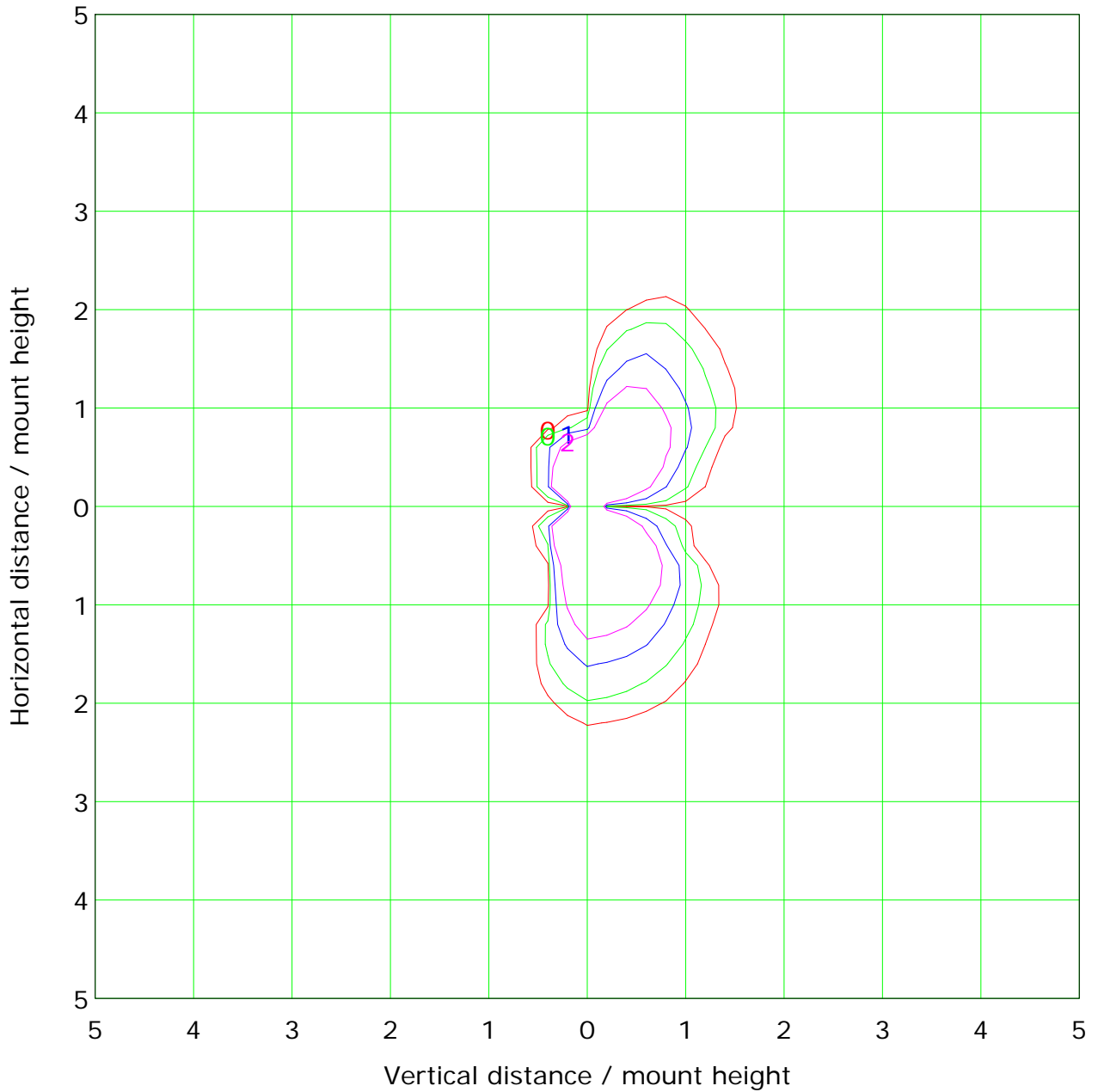
Imax (100%): 233 cd

— (10%):	23 cd	— (16%):	37 cd
— (25%):	58 cd	— (40%):	93 cd
— (63%):	147 cd	— (100%):	233 cd

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

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%): 23.2 lx

— (1%): 0.2 lx	— (2%): 0.5 lx
— (5%): 1.2 lx	— (10%): 2.3 lx

C Plane (°):0.0-360.0: 22.5
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Gamma Plane (°):0.0-180.0:5.0
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 Inspector:

Area Flux Table

Unit: lm

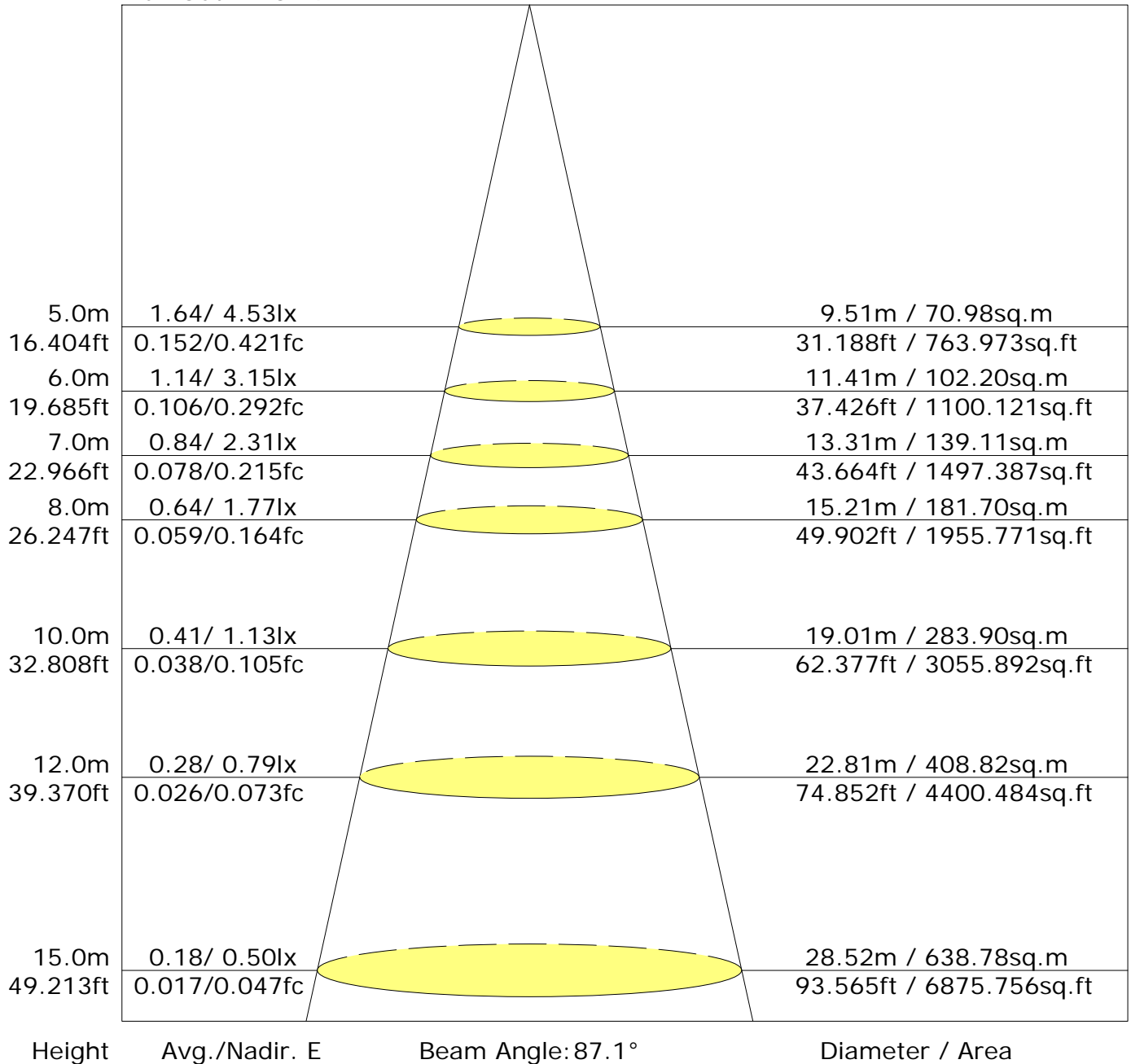
Vertical plane		Horizontal plane																		
Flux(T)	Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.1	0.3	0.7	2.0	3.8	4.9	3.6	3.5	5.4	5.0	3.9	2.7	1.5	0.5	0.1	0.0	0.0
20	0.0	0.0	0.2	0.8	1.8	3.5	4.5	4.0	1.5	1.2	0.6	0.9	2.7	2.4	1.3	0.5	0.1	0.0	0.0	0.0
30	0.0	0.0	0.2	1.1	2.3	3.2	3.3	2.4	0.8	0.6	0.4	1.9	2.7	2.6	2.0	1.0	0.3	0.0	0.0	0.0
40	0.0	0.0	0.2	1.0	1.8	2.3	2.2	1.4	0.6	0.3	0.2	0.9	1.7	1.8	1.3	0.7	0.2	0.0	0.0	0.0
50	0.0	0.0	0.2	0.6	1.1	1.4	1.2	0.6	0.3	0.2	0.1	0.3	0.8	0.9	0.7	0.3	0.1	0.0	0.0	0.0
60	0.0	0.0	0.1	0.3	0.5	0.6	0.5	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0
70	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
80	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	0.1	0.0	0.0	0.0
90	0.0	0.3	1.2	4.4	9.0	15.0	19.9	18.8	11.4	10.9	18.1	19.7	16.8	12.9	7.8	2.7	0.7	0.2	170	0.0
	0.0	0.0	0.2	3.5	8.0	13.8	18.7	17.4	9.5	9.0	16.7	18.5	15.8	12.0	6.9	1.4	0.0	0.0	152	0.0

C Plane (°):0.0-360.0: 22.5
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 Test Type: TYPE C
 Temperature:
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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: 116.19lm



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 Test Device: GPM-1600L
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 Humidity:
 Inspector:

UGR Table

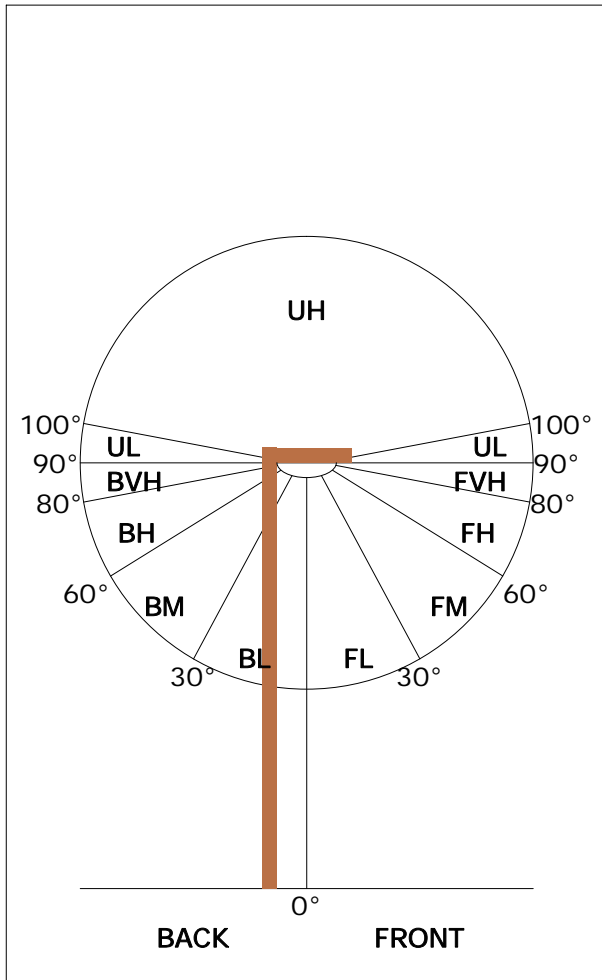
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 342lm ($8\log(F/F_0) = -3.7$).

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

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	90	26.3
FL (0°-30°)	37	10.8
FM (30°-60°)	45	13.0
FH (60°-80°)	7	2.0
FVH (80°-90°)	2	0.5
BACK LIGHT	80	23.5
BL (0°-30°)	35	10.2
BM (30°-60°)	38	11.1
BH (60°-80°)	6	1.9
BVH (80°-90°)	1	0.4
UP LIGHT	172	50.2
UL (90°-100°)	3	0.9
UH (100°-180°)	169	49.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U3 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U3 G0

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 Temperature:
 Operator: 韩顺

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	113.3	188.0	123.2	44.7	0.6	52.5	138.4	205.9	113.3	188.0
G5.0	211.5	191.3	124.3	45.1	1.0	54.2	140.6	209.8	112.1	185.5
G10.0	214.6	190.6	123.3	44.7	1.4	55.1	141.3	211.7	110.2	121.5
G15.0	213.0	186.6	120.4	43.7	1.7	55.0	139.7	209.7	107.1	93.9
G20.0	205.4	179.0	115.6	41.8	2.0	54.0	135.8	203.5	102.2	88.7
G25.0	194.2	169.0	109.3	39.2	2.4	52.0	130.2	194.2	95.0	81.8
G30.0	180.6	157.0	101.3	35.7	2.7	49.1	122.7	182.2	80.2	49.3
G35.0	164.7	143.0	92.1	26.8	3.0	45.2	113.4	168.3	41.6	33.2
G40.0	147.4	127.8	81.8	17.2	3.3	33.9	102.7	152.4	5.3	4.3
G45.0	129.3	111.6	71.1	11.5	3.6	23.2	91.2	135.4	3.6	3.1
G50.0	110.1	94.9	54.2	5.5	3.9	14.9	78.7	117.1	2.7	2.0
G55.0	90.8	77.5	31.1	4.9	4.1	7.2	57.1	98.4	1.5	1.5
G60.0	63.3	44.6	17.9	4.7	4.3	6.1	33.4	75.7	1.2	1.1
G65.0	33.3	26.7	6.9	4.7	4.5	5.5	19.0	39.0	1.0	1.0
G70.0	13.5	7.7	5.5	4.8	4.7	5.2	7.5	20.5	0.9	0.8
G75.0	6.0	5.6	5.1	4.8	4.8	5.1	5.9	7.3	0.7	0.7
G80.0	5.1	5.0	4.9	4.8	4.9	5.1	5.3	5.6	0.6	0.6
G85.0	4.9	4.9	4.9	4.9	4.9	5.0	5.1	5.1	0.5	0.5
G90.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.4
G95.0	5.1	5.1	5.0	5.0	4.9	4.9	4.9	4.9	0.4	0.4
G100.0	5.5	5.4	5.2	5.0	4.9	4.9	4.9	4.9	0.5	0.5
G105.0	7.3	6.8	5.7	5.1	4.8	4.8	5.0	5.4	0.6	0.6
G110.0	21.8	16.2	7.0	5.2	4.7	4.8	5.4	7.1	0.8	0.7
G115.0	41.6	35.6	15.2	5.3	4.5	4.7	6.7	22.2	0.9	0.8
G120.0	82.8	67.2	31.2	5.6	4.3	4.8	16.9	40.0	1.1	1.0
G125.0	105.7	93.5	48.8	6.3	4.1	4.9	30.1	74.1	1.5	1.2
G130.0	126.5	111.8	74.2	13.0	3.6	5.5	53.2	92.4	2.1	1.6
G135.0	146.7	129.5	86.0	21.0	3.6	11.5	70.8	109.4	3.4	2.8
G140.0	166.7	146.8	97.3	29.0	3.3	18.4	82.2	125.9	4.8	3.8
G145.0	185.2	162.6	107.8	41.6	3.0	28.7	92.8	141.7	39.0	6.6
G150.0	201.7	176.8	116.9	45.3	2.7	37.6	102.7	155.9	55.7	42.2
G155.0	215.7	188.7	124.6	48.0	2.3	41.1	111.2	168.2	98.1	84.2
G160.0	226.8	198.5	130.5	50.2	2.0	44.1	118.2	178.5	107.0	92.7
G165.0	233.1	205.2	134.7	51.0	1.6	46.2	123.4	186.8	113.1	98.5
G170.0	230.6	208.2	136.8	51.1	1.3	47.6	127.1	191.7	117.1	103.8
G175.0	193.9	207.2	136.5	50.6	0.9	48.1	128.4	193.1	119.5	194.7
G180.0	121.0	203.5	134.8	49.6	0.5	47.9	128.0	191.3	121.1	203.5

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 韩顺

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	123.2	44.7	0.6	52.5	138.4	205.9	113.3			
G5.0	122.3	44.6	0.4	51.7	136.2	199.5	211.5			
G10.0	119.7	44.0	0.6	49.6	130.8	104.8	214.6			
G15.0	95.0	41.6	0.6	43.9	87.3	98.5	213.0			
G20.0	57.6	20.1	0.6	17.6	52.6	91.5	205.4			
G25.0	30.0	2.6	0.6	2.3	26.2	78.7	194.2			
G30.0	10.4	1.7	0.5	1.1	3.7	40.4	180.6			
G35.0	3.1	1.0	0.5	0.9	2.5	5.0	164.7			
G40.0	2.3	0.9	0.5	0.8	1.4	3.4	147.4			
G45.0	1.5	0.8	0.5	0.6	1.0	2.4	129.3			
G50.0	1.2	0.8	0.5	0.6	0.9	1.5	110.1			
G55.0	1.0	0.7	0.5	0.6	0.8	1.1	90.8			
G60.0	0.9	0.6	0.5	0.5	0.7	0.9	63.3			
G65.0	0.9	0.6	0.5	0.5	0.6	0.8	33.3			
G70.0	0.7	0.6	0.5	0.5	0.5	0.6	13.5			
G75.0	0.6	0.5	0.4	0.4	0.5	0.5	6.0			
G80.0	0.5	0.5	0.4	0.4	0.4	0.5	5.1			
G85.0	0.5	0.5	0.4	0.4	0.4	0.4	4.9			
G90.0	0.4	0.4	0.4	0.4	0.4	0.4	4.9			
G95.0	0.4	0.4	0.4	0.4	0.5	0.5	5.1			
G100.0	0.5	0.4	0.4	0.5	0.5	0.6	5.5			
G105.0	0.5	0.4	0.4	0.5	0.6	0.7	7.3			
G110.0	0.6	0.5	0.5	0.6	0.8	0.9	21.8			
G115.0	0.6	0.5	0.5	0.6	0.9	1.1	41.6			
G120.0	0.7	0.5	0.5	0.7	1.0	1.0	82.8			
G125.0	0.8	0.6	0.5	0.7	1.1	1.6	105.7			
G130.0	0.9	0.6	0.5	0.8	1.2	2.3	126.5			
G135.0	1.3	0.6	0.5	0.8	1.6	3.3	146.7			
G140.0	1.6	0.8	0.5	0.9	2.4	4.6	166.7			
G145.0	2.7	0.9	0.5	1.1	3.3	37.4	185.2			
G150.0	3.9	1.1	0.6	1.5	6.9	59.8	201.7			
G155.0	29.0	2.0	0.6	3.2	31.3	85.1	215.7			
G160.0	57.8	14.1	0.6	22.7	63.8	91.5	226.8			
G165.0	82.0	37.8	0.6	45.0	103.0	96.6	233.1			
G170.0	127.7	46.8	0.6	47.5	125.1	151.4	230.6			
G175.0	133.0	48.7	0.6	48.1	127.5	189.5	193.9			
G180.0	134.8	49.6	0.6	47.9	128.0	191.4	121.0			

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 韩顺

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector: