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Optical Report For Luminaires

Applicant..... : GlacialTech Inc.

Applicant Add..... : 9F1, No. 352, Sec. 2, Jung Shan Rd., Jung He Dist., New Taipei City
235, Taiwan (R.O.C.)

Report No..... : GO1501160401E

Product Name..... : LED Bay Light

Model No : GL-BL100-CW

Sample No..... : 15011604-1

Test Specification..... : IESNA LM-79-08, Approved Method: Electrical and Photometric
Measurements of Solid-State Lighting Products.(Deviation - Type
C Goniophotometer of Rotating Luminaire)

Test Date : January 28, 2015 to January 29, 2015

Issue Date..... : January 29, 2015

- Note:
1. The test results of this report relate only to the tested sample identified in this report.
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 3. The data in report cannot be used for advertisement, publication and promotion.

Tested By :

Reviewed By :

Alex Sung

Donald Chang

Project Engineer

Team Leader

Great One Global Certification Co., Ltd.

Product:GL-BL100-CW

Manufacturer: GlacialTech Inc.

Sample No.: 15011604-1

Tested By: Alex Sung

Date:1-29-2015

Reviewed By: Donald Chang

Test Condition

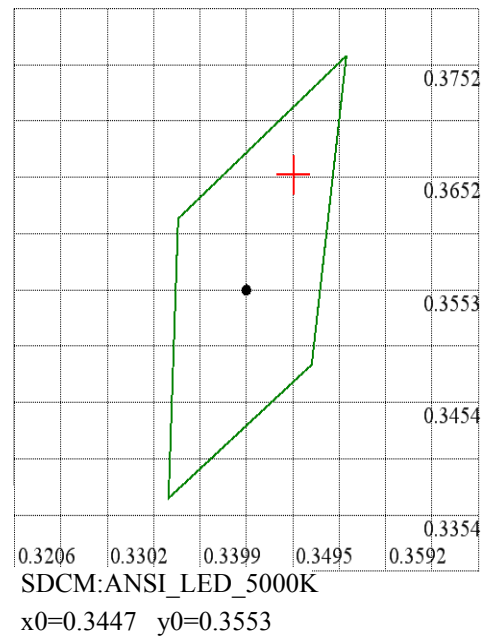
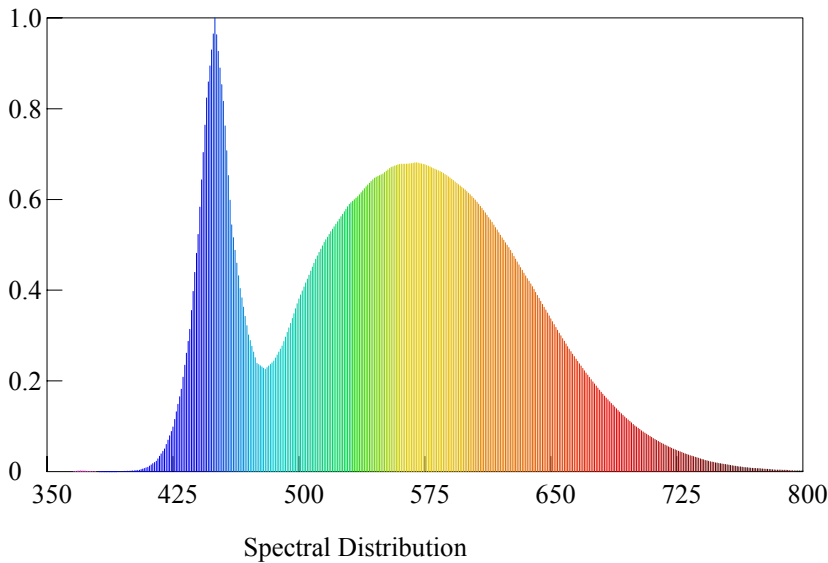
Temperature: 25.5°C

Spectrum Range: 350-800 nm

RH:60.0%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3496$ $y=0.3655$ $u'=0.2091$ $v'=0.492$

Correlated Color Temperature: 4886 K

Dominant Wavelength: 569.0 nm(E)

Chromaticity Difference: +0.00506Duv

Purity:0.1458

Color Ratio: $K_r=33.0\%$ $K_g=56.6\%$ $K_b=10.4\%$

Peak Wavelength: 449.9 nm

Bandwidth:22.6nm

Color Tolerance: 0.0 SDCM

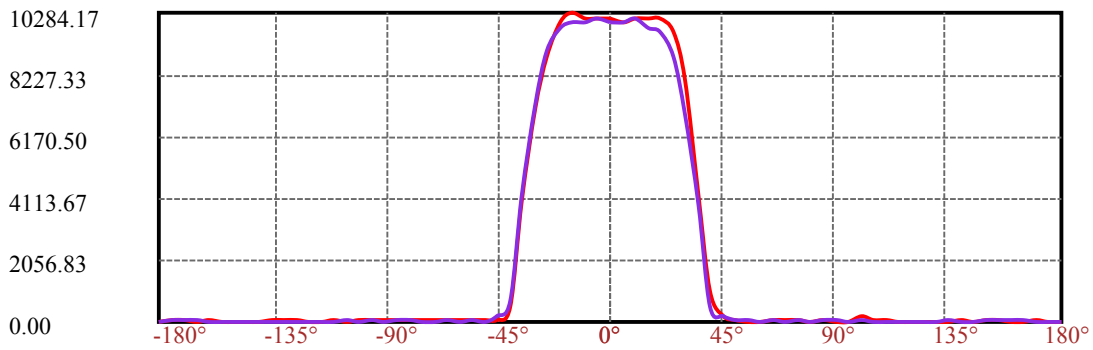
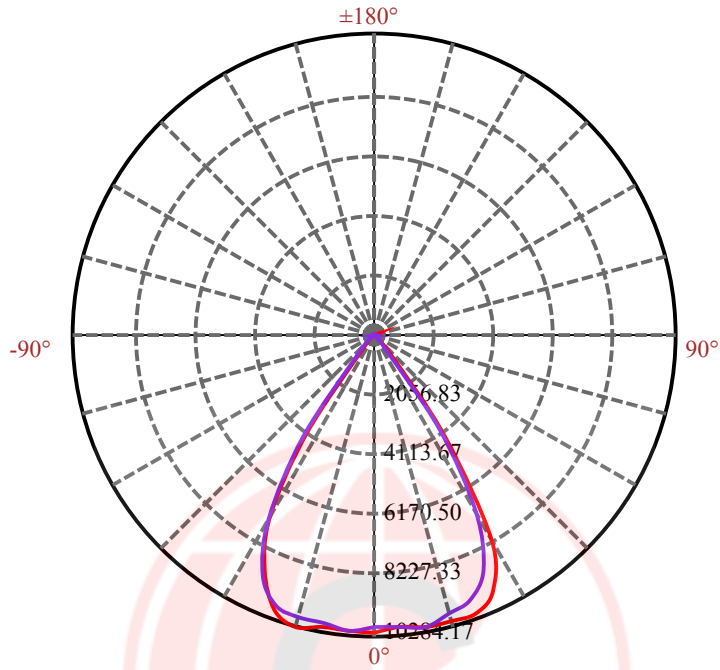
Rendering Index: $R_a=80.1$

Radiant Flux: 32.227 W

R1=77 R2=84 R3=89 R4=79 R5=77 R6=77 R7=88 R8=67

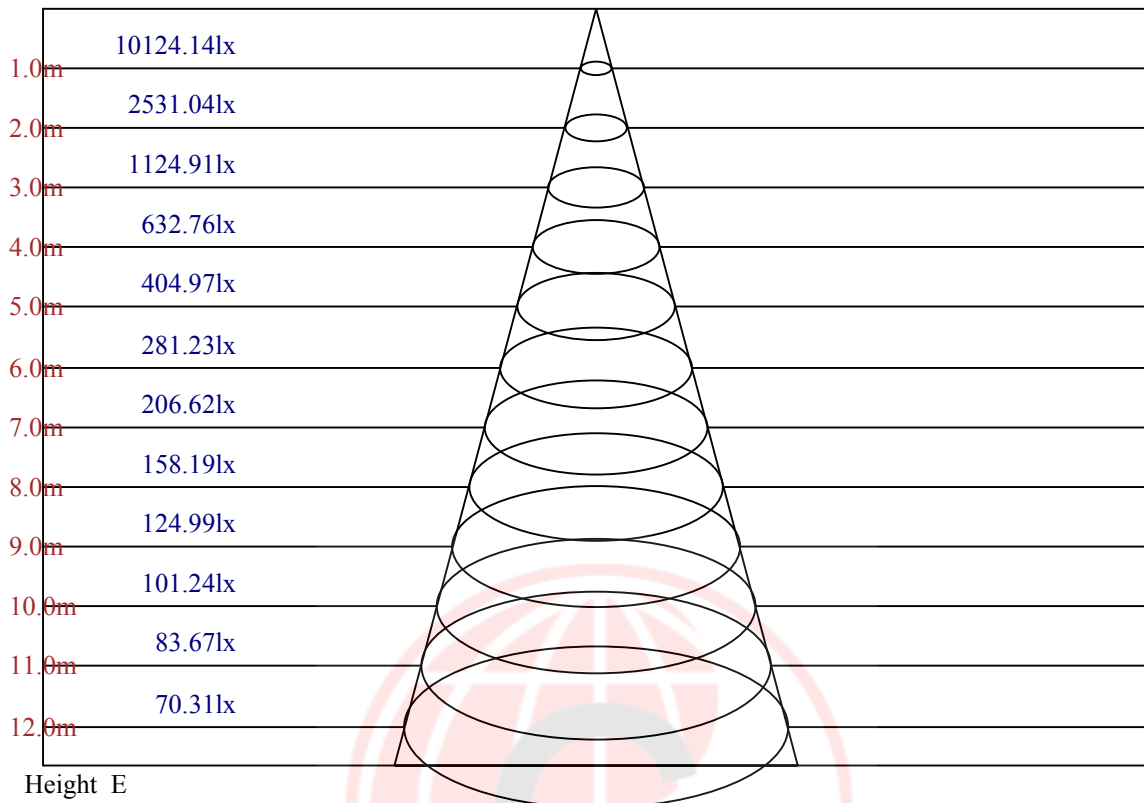
R9=4 R10=62 R11=76 R12=52 R13=79 R14=94 R15=72

Light Distribution Curve [Unit: cd]

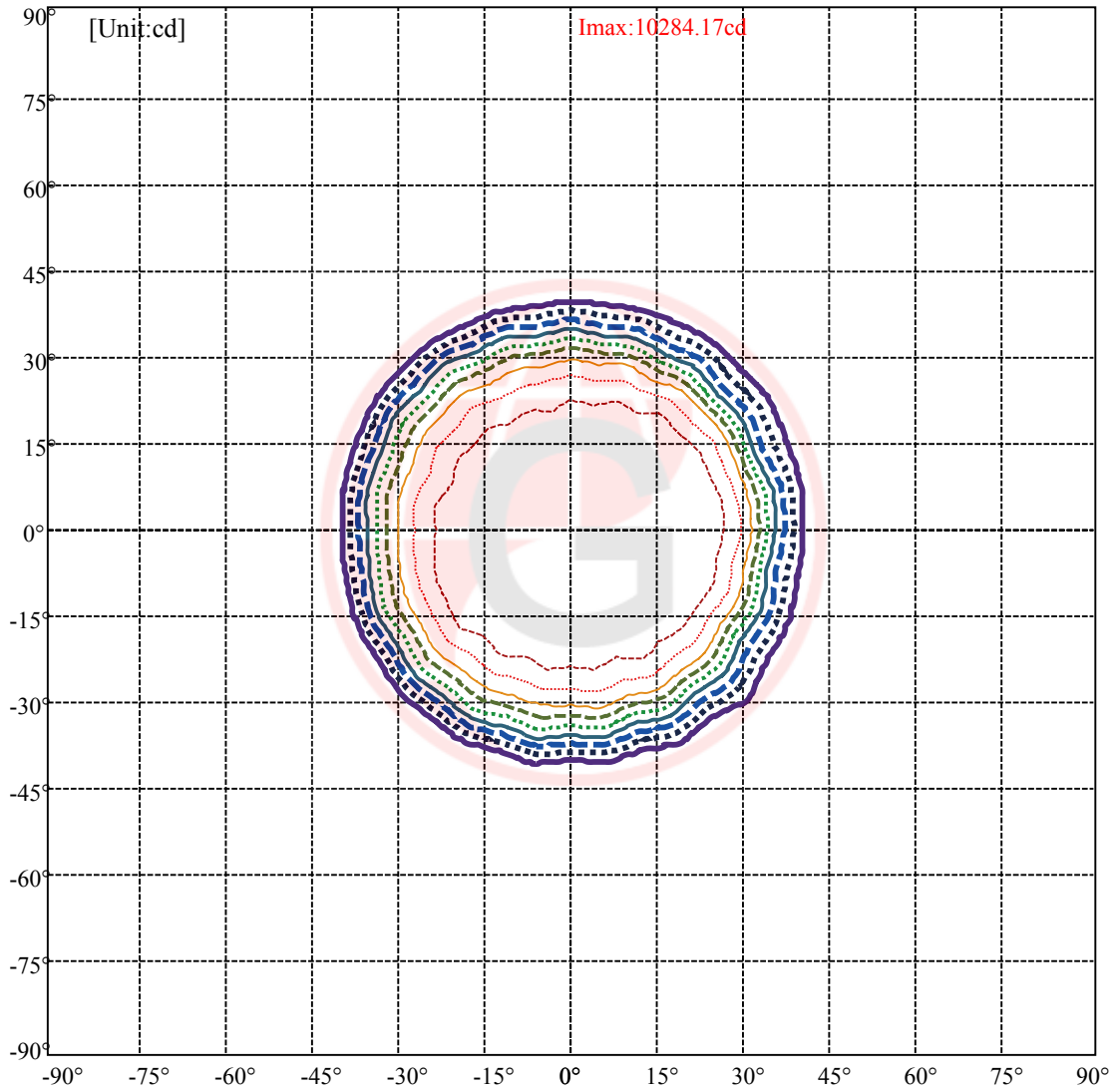


C0/C180: ———
C90/C270: ———

Lux distance Curve



ISO-Intensity(V-H)



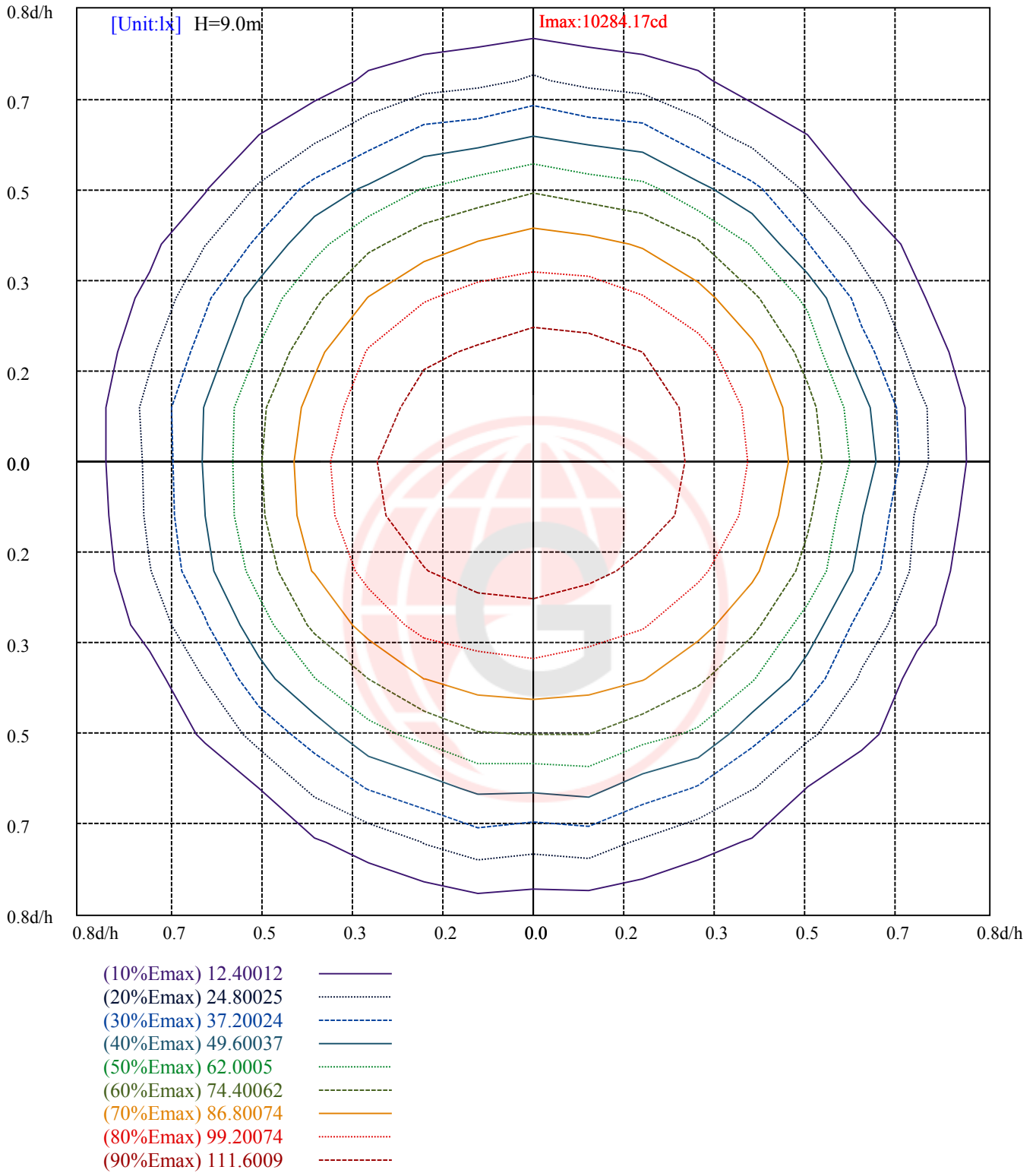
(10%Imax)	1028.42	———
(20%Imax)	2056.83	·····
(30%Imax)	3085.25	- - - - -
(40%Imax)	4113.67	———
(50%Imax)	5142.08	·····
(60%Imax)	6170.5	- - - - -
(70%Imax)	7198.92	———
(80%Imax)	8227.33	·····
(90%Imax)	9255.75	- - - - -

Equipment: HW-1015
Temperature(°C): 25.5

Date: 2015/1/28
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 12.65

ISO illuminance diagram



Equipment: HW-1015
Temperature(°C): 25.5

Date: 2015/1/28
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 12.65

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	10124.14	9964.12	10124.14	10124.14	10124.14	9644.08	8043.85	4203.31	1002.86
10.0	9964.12	10124.14	10124.14	10124.14	10124.14	9804.10	7883.83	4363.33	1002.86
20.0	9964.12	9964.12	10124.14	10284.17	10124.14	9484.05	7563.78	3243.18	842.84
30.0	9964.12	10284.17	10124.14	10124.14	10124.14	9484.05	7723.81	3723.24	1002.86
40.0	10124.14	10124.14	10124.14	10284.17	9964.12	9164.01	7243.74	3083.15	682.82
50.0	9964.12	10124.14	9964.12	10124.14	9804.10	9324.03	7403.76	3883.27	842.84
60.0	9964.12	10124.14	10124.14	9964.12	9644.08	9003.99	6763.67	3243.18	682.82
70.0	10124.14	10124.14	9964.12	9964.12	9804.10	9003.99	7243.74	3883.27	682.82
80.0	9964.12	9964.12	9964.12	9804.10	9644.08	8523.92	6763.67	3243.18	522.79
90.0	9964.12	9964.12	10124.14	9804.10	9644.08	8843.96	6923.69	3883.27	522.79
100.0	10124.14	10124.14	9964.12	9804.10	9324.03	8523.92	6603.65	3243.18	362.77
110.0	9964.12	9964.12	9964.12	9804.10	9644.08	8523.92	6923.69	4043.29	522.79
120.0	10124.14	9804.10	9804.10	9804.10	9484.05	8363.90	6603.65	3563.22	362.77
130.0	10124.14	9964.12	9964.12	9964.12	9644.08	8843.96	7083.72	4363.33	522.79
140.0	9964.12	10124.14	9964.12	10124.14	9644.08	8523.92	6923.69	3883.27	522.79
150.0	9964.12	10124.14	10124.14	9964.12	9804.10	8843.96	7083.72	4523.36	682.82
160.0	9964.12	10124.14	10124.14	10124.14	9644.08	8523.92	6923.69	4043.29	522.79
170.0	9964.12	9964.12	10124.14	10124.14	9964.12	9003.99	7243.74	4523.36	682.82
180.0	10124.14	10124.14	10124.14	10284.17	9964.12	8843.96	7083.72	4043.29	522.79
190.0	9964.12	10124.14	10124.14	10284.17	9964.12	9003.99	7243.74	4203.31	522.79
200.0	9964.12	10124.14	10284.17	10284.17	10124.14	9164.01	7403.76	4843.40	682.82
210.0	9964.12	10124.14	10124.14	10284.17	9964.12	9164.01	7243.74	4203.31	362.77
220.0	10124.14	10124.14	10124.14	10124.14	10124.14	9324.03	7563.78	4843.40	682.82
230.0	9964.12	10124.14	10124.14	10124.14	9964.12	8843.96	7243.74	4363.33	522.79
240.0	9964.12	9964.12	10124.14	10124.14	10124.14	9164.01	7403.76	5003.42	1002.86
250.0	10124.14	10124.14	9964.12	9964.12	9804.10	8843.96	7243.74	4363.33	682.82
260.0	9964.12	10124.14	9964.12	9964.12	9804.10	9164.01	7403.76	5003.42	1162.88
270.0	9964.12	10124.14	9964.12	9964.12	9804.10	9003.99	7243.74	4203.31	682.82
280.0	10124.14	9964.12	9964.12	9964.12	9804.10	9164.01	7723.81	4843.40	1002.86
290.0	9964.12	9964.12	9964.12	9804.10	9644.08	9003.99	7243.74	3883.27	682.82
300.0	10124.14	9964.12	9964.12	9964.12	9804.10	9324.03	7723.81	4683.38	1162.88
310.0	10124.14	10124.14	9964.12	9964.12	9644.08	9164.01	7403.76	3883.27	682.82
320.0	9964.12	10124.14	9964.12	9964.12	9964.12	9324.03	7723.81	4523.36	1322.91
330.0	9964.12	9964.12	9964.12	9964.12	9804.10	9324.03	7243.74	3563.22	842.84
340.0	9964.12	10124.14	9964.12	10284.17	10124.14	9644.08	7883.83	4203.31	1002.86
350.0	9964.12	10124.14	10284.17	10124.14	10124.14	9484.05	7563.78	3563.22	842.84
360.0	10124.14	9964.12	10124.14	10124.14	10124.14	9644.08	8043.85	4203.31	1002.86

Equipment: HW-1015
 Temperature(°C): 25.5

Date: 2015/1/28
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 12.65

Intensity data(cd)

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	202.75	42.73	0.00	0.00	42.73	42.73	42.73	0.00	42.73
10.0	42.73	202.75	0.00	42.73	42.73	42.73	42.73	0.00	42.73
20.0	202.75	0.00	42.73	42.73	42.73	0.00	42.73	42.73	0.00
30.0	202.75	42.73	42.73	42.73	0.00	42.73	42.73	0.00	0.00
40.0	202.75	42.73	42.73	42.73	42.73	42.73	42.73	42.73	0.00
50.0	362.77	42.73	42.73	202.75	0.00	42.73	0.00	42.73	0.00
60.0	362.77	0.00	42.73	42.73	42.73	42.73	42.73	42.73	0.00
70.0	202.75	42.73	42.73	42.73	42.73	42.73	42.73	0.00	42.73
80.0	42.73	42.73	0.00	202.75	0.00	42.73	42.73	42.73	42.73
90.0	202.75	42.73	42.73	0.00	42.73	0.00	42.73	0.00	42.73
100.0	42.73	42.73	0.00	0.00	0.00	42.73	42.73	42.73	42.73
110.0	202.75	42.73	0.00	42.73	42.73	0.00	42.73	42.73	42.73
120.0	202.75	42.73	42.73	42.73	42.73	42.73	42.73	42.73	42.73
130.0	202.75	202.75	42.73	42.73	42.73	42.73	42.73	42.73	42.73
140.0	42.73	42.73	0.00	42.73	42.73	42.73	42.73	0.00	0.00
150.0	362.77	202.75	42.73	0.00	42.73	0.00	0.00	42.73	42.73
160.0	42.73	42.73	42.73	42.73	42.73	42.73	42.73	0.00	42.73
170.0	202.75	42.73	42.73	0.00	42.73	42.73	42.73	0.00	0.00
180.0	42.73	42.73	42.73	42.73	42.73	42.73	42.73	42.73	42.73
190.0	202.75	42.73	42.73	42.73	42.73	0.00	42.73	0.00	42.73
200.0	202.75	42.73	0.00	42.73	42.73	42.73	42.73	0.00	0.00
210.0	202.75	42.73	42.73	0.00	0.00	42.73	42.73	0.00	42.73
220.0	202.75	42.73	0.00	42.73	0.00	42.73	42.73	42.73	42.73
230.0	202.75	42.73	42.73	0.00	42.73	42.73	42.73	0.00	0.00
240.0	362.77	202.75	0.00	42.73	42.73	0.00	42.73	42.73	0.00
250.0	202.75	42.73	42.73	42.73	42.73	42.73	42.73	42.73	0.00
260.0	42.73	0.00	42.73	42.73	42.73	42.73	42.73	42.73	0.00
270.0	202.75	0.00	42.73	0.00	42.73	0.00	0.00	42.73	42.73
280.0	202.75	202.75	42.73	0.00	42.73	0.00	42.73	0.00	42.73
290.0	202.75	42.73	42.73	0.00	42.73	0.00	42.73	0.00	42.73
300.0	202.75	0.00	0.00	42.73	0.00	0.00	42.73	0.00	0.00
310.0	362.77	42.73	0.00	42.73	42.73	42.73	42.73	42.73	0.00
320.0	202.75	42.73	42.73	0.00	42.73	42.73	42.73	42.73	42.73
330.0	202.75	42.73	0.00	42.73	42.73	42.73	0.00	42.73	0.00
340.0	202.75	202.75	0.00	42.73	42.73	42.73	42.73	42.73	42.73
350.0	42.73	42.73	0.00	42.73	42.73	0.00	0.00	0.00	42.73
360.0	202.75	42.73	0.00	0.00	42.73	42.73	42.73	0.00	42.73

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	202.75	42.73	42.73	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	42.73	42.73	42.73	0.00	0.00	0.00
20.0	0.00	42.73	42.73	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	42.73	42.73	0.00	0.00	0.00	0.00	42.73	42.73
40.0	0.00	42.73	42.73	0.00	0.00	0.00	0.00	42.73	0.00
50.0	42.73	42.73	42.73	0.00	0.00	0.00	42.73	42.73	42.73
60.0	0.00	42.73	0.00	0.00	0.00	0.00	42.73	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	42.73	42.73	42.73	0.00	0.00	0.00	0.00	0.00	42.73
90.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	42.73	0.00	42.73	42.73	0.00
110.0	42.73	42.73	42.73	0.00	0.00	0.00	42.73	42.73	42.73
120.0	0.00	42.73	42.73	42.73	0.00	0.00	0.00	42.73	42.73
130.0	42.73	42.73	0.00	0.00	0.00	42.73	0.00	0.00	0.00
140.0	0.00	42.73	42.73	42.73	42.73	0.00	0.00	0.00	0.00
150.0	0.00	0.00	42.73	42.73	42.73	0.00	0.00	42.73	0.00
160.0	42.73	0.00	0.00	42.73	42.73	0.00	0.00	42.73	42.73
170.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
180.0	42.73	42.73	42.73	0.00	42.73	0.00	0.00	42.73	42.73
190.0	0.00	42.73	42.73	0.00	0.00	0.00	0.00	0.00	42.73
200.0	42.73	42.73	42.73	0.00	0.00	0.00	42.73	0.00	42.73
210.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
220.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
230.0	0.00	0.00	42.73	0.00	42.73	0.00	42.73	0.00	0.00
240.0	42.73	0.00	42.73	0.00	42.73	42.73	0.00	0.00	0.00
250.0	0.00	0.00	42.73	42.73	0.00	0.00	0.00	0.00	0.00
260.0	0.00	0.00	42.73	42.73	42.73	0.00	0.00	0.00	0.00
270.0	0.00	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00
280.0	0.00	0.00	0.00	42.73	0.00	0.00	0.00	0.00	0.00
290.0	0.00	42.73	42.73	0.00	0.00	42.73	0.00	0.00	42.73
300.0	0.00	0.00	0.00	0.00	0.00	0.00	42.73	0.00	0.00
310.0	42.73	42.73	42.73	0.00	0.00	42.73	0.00	0.00	42.73
320.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	42.73	42.73	42.73	0.00	0.00	42.73	0.00	0.00
340.0	42.73	0.00	42.73	0.00	42.73	0.00	0.00	0.00	0.00
350.0	42.73	0.00	42.73	0.00	42.73	0.00	0.00	0.00	0.00
360.0	0.00	0.00	202.75	42.73	42.73	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	42.73	0.00	42.73	42.73	0.00	0.00	42.73	0.00
10.0	0.00	0.00	42.73	0.00	0.00	42.73	0.00	0.00	0.00
20.0	0.00	0.00	0.00	42.73	0.00	0.00	0.00	42.73	0.00
30.0	42.73	0.00	42.73	42.73	42.73	0.00	0.00	0.00	0.00
40.0	42.73	42.73	0.00	0.00	0.00	0.00	42.73	0.00	0.00
50.0	42.73	0.00	0.00	42.73	42.73	0.00	0.00	42.73	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.73
70.0	0.00	42.73	0.00	0.00	42.73	0.00	0.00	0.00	42.73
80.0	0.00	42.73	0.00	0.00	0.00	42.73	0.00	42.73	42.73
90.0	42.73	0.00	0.00	42.73	42.73	42.73	42.73	0.00	0.00
100.0	42.73	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	42.73	0.00	42.73	0.00	0.00	0.00	42.73
130.0	42.73	0.00	0.00	0.00	0.00	0.00	42.73	0.00	0.00
140.0	0.00	42.73	0.00	0.00	0.00	42.73	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	42.73	0.00	0.00	0.00	0.00
160.0	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	42.73	0.00	0.00	42.73	0.00
180.0	42.73	0.00	0.00	0.00	0.00	42.73	0.00	42.73	42.73
190.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.73	42.73
200.0	42.73	42.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	42.73	0.00	0.00	42.73	0.00	0.00	0.00	42.73
220.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.73	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	42.73	42.73	0.00
250.0	0.00	0.00	42.73	0.00	0.00	0.00	42.73	0.00	0.00
260.0	0.00	0.00	0.00	42.73	0.00	0.00	0.00	0.00	42.73
270.0	0.00	0.00	0.00	0.00	0.00	0.00	42.73	42.73	42.73
280.0	0.00	42.73	0.00	0.00	0.00	0.00	0.00	0.00	42.73
290.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.73
300.0	42.73	0.00	0.00	0.00	42.73	42.73	0.00	0.00	0.00
310.0	42.73	0.00	0.00	0.00	0.00	0.00	42.73	42.73	0.00
320.0	0.00	0.00	0.00	42.73	0.00	42.73	0.00	42.73	42.73
330.0	0.00	42.73	0.00	42.73	0.00	42.73	0.00	0.00	0.00
340.0	42.73	0.00	42.73	0.00	0.00	0.00	42.73	0.00	0.00
350.0	42.73	0.00	42.73	0.00	42.73	42.73	0.00	0.00	0.00
360.0	0.00	42.73	0.00	42.73	42.73	0.00	0.00	42.73	0.00

Intensity data(cd)

C/γ(°)	180.0
0.0	0.00
10.0	42.73
20.0	0.00
30.0	42.73
40.0	0.00
50.0	0.00
60.0	0.00
70.0	0.00
80.0	42.73
90.0	0.00
100.0	0.00
110.0	0.00
120.0	0.00
130.0	42.73
140.0	0.00
150.0	0.00
160.0	0.00
170.0	0.00
180.0	0.00
190.0	42.73
200.0	0.00
210.0	42.73
220.0	0.00
230.0	0.00
240.0	0.00
250.0	0.00
260.0	42.73
270.0	0.00
280.0	0.00
290.0	0.00
300.0	0.00
310.0	42.73
320.0	0.00
330.0	0.00
340.0	0.00
350.0	0.00
360.0	0.00





Great One Global Certification Co., Ltd.

9F-2, No. 120, Qiaohu Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

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E-mail : sales@go-safety.com.tw

FAX : +886-2-2248-0811

1. Luminaire Specification :

- (1) Input Voltage/Frequency : 240.00 Vac / 50 Hz
- (2) Input Watt : 95.53 W
- (3) Input Current : 0.409 A
- (4) Total Luminous Flux Output : 10766.53 lm
- (5) Luminaire Efficacy : 112.70 lm/W
- (6) Central Intensity (cd) : 9964.120 cd
- (7) Maximum Intensity(cd) : 10284.170 cd
- (8) PF : 0.972
- (9) Beam angle: (C0-C180) : 67.2°, (C90-C270) : 66.9°

2. Description of EUT Setup :

- (1) Operating Orientation : The light source is considered as horizontal
- (2) Light Source : LED
- (3) Stabilization time : 1 Hour
- (4) Environment Condition : Temperature : 25±1 °C , Humidity : 60±20 %



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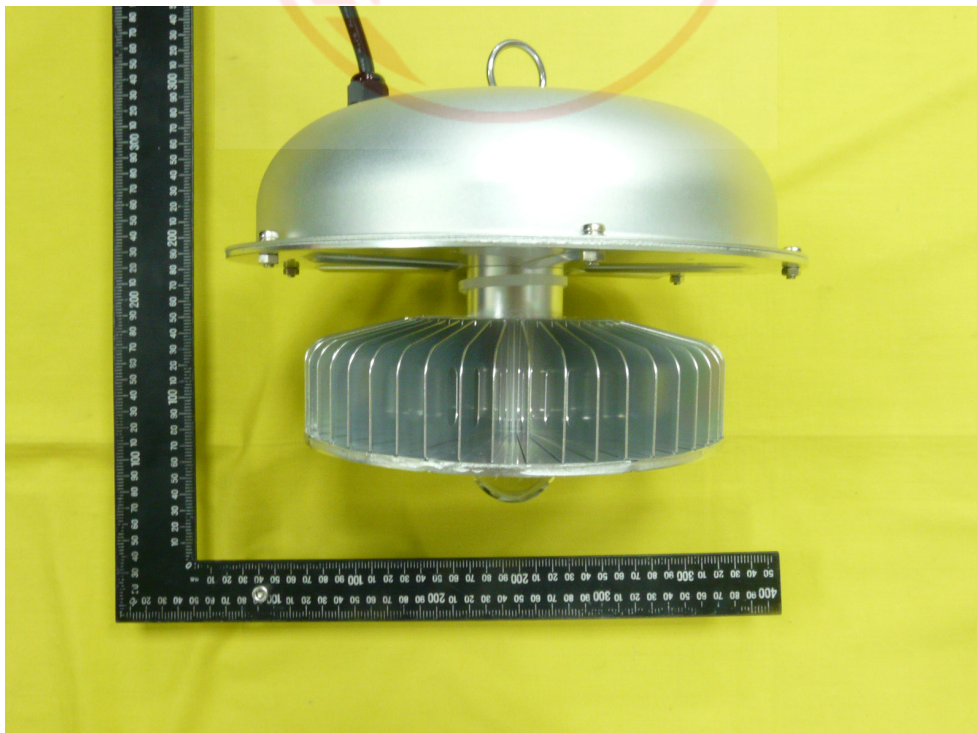
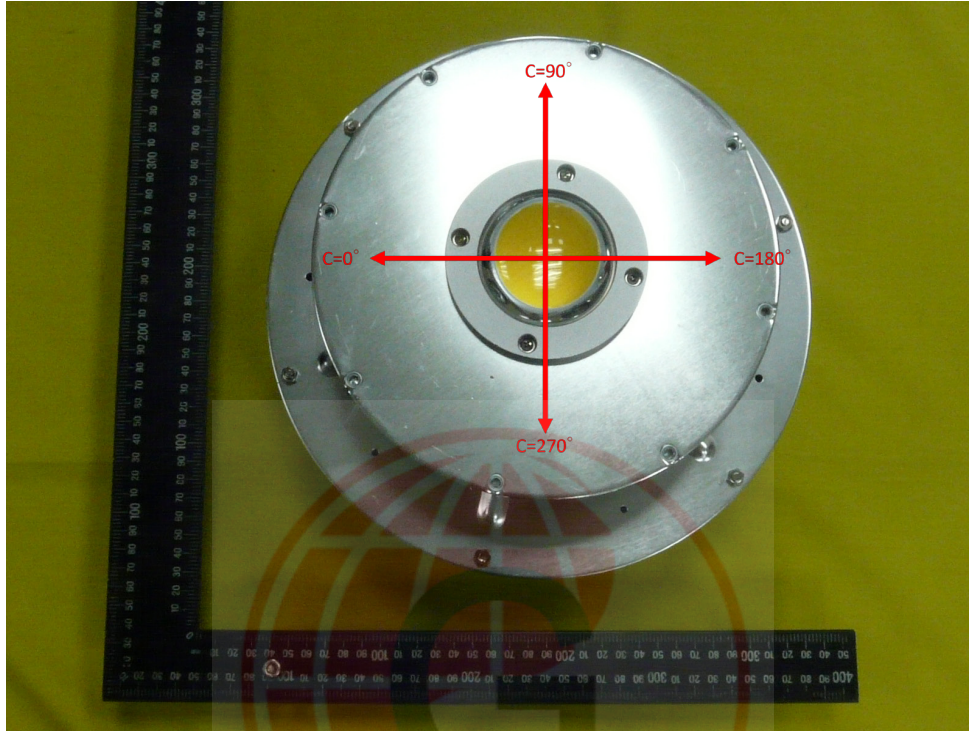
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3. Photograph of EUT :

Complete Sample Angle Definition





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4. Equipments List:

Equipment List				
Equipment ID	Equipment Type	Cal. Date	Due Date	Range Used
L201	Integrating Sphere	N/A	N/A	
L202	Spetroradiometer	N/A	N/A	
L203	AC Power Source	N/A	N/A	
L222	Power Meter	2014/10/10	2015/10/09	V : Auto (0~300Vac) A : Auto (0~20A)
L204	Goniophotometer Photo Detector	N/A	N/A	
L205	Goniophotometer System	N/A	N/A	
L206	AC Power Source	N/A	N/A	AC 0~150VAC4.2A AC0~300VAC2.1A
L207	Power Meter	2014/12/12	2015/12/11	V : Auto (0~600Vac) A : Auto (0~20A)
L221	Luminous Intensity Lamp	2013/11/13	2023/11/12	
L242	DC Standard Light	2014/10/14	2024/10/13	