



Great One Global Certification Co., Ltd.

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Optical Report For Luminaires

Applicant : GlacialTech Inc.

Applicant Add..... : 6Fl., No. 346, Sec. 2, Jung Shan Rd., Jung He Dist., New Taipei
City 235, Taiwan (R.O.C.)

Report No..... : GO1510010101F

Product Name : LED Bay Light

Model No..... : GL-BL150-CW

Sample No : 15100101-1

Test Specification..... : IESNA LM -79-08, Approved Method: Electrical and Photometric
Measurements of Solid-State Lighting Products.

Test Date : November 2, 2015

Issue Date..... : November 2, 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 :

Johnson Wang

Donald Chang

Project Engineer

Team Leader

Great One Global Certification Co., Ltd.

Product:GL-BL150-CW

Manufacturer: GlacialTech Inc.

Sample No.: 15100101-1

Tested By: Johnson Wang

Date:11-2-2015

Reviewed By: Donald Cheng

Test Condition

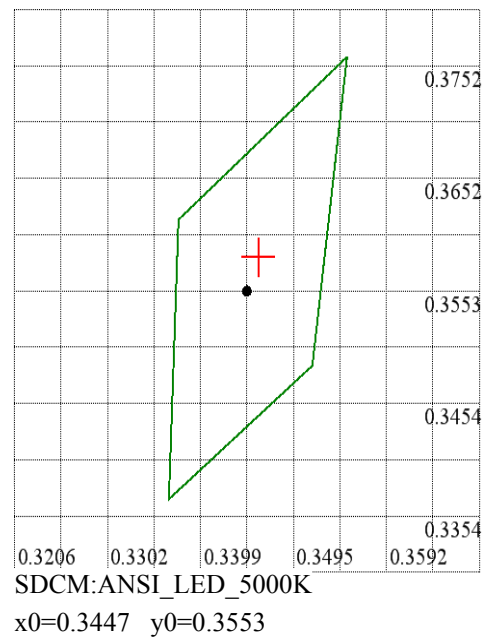
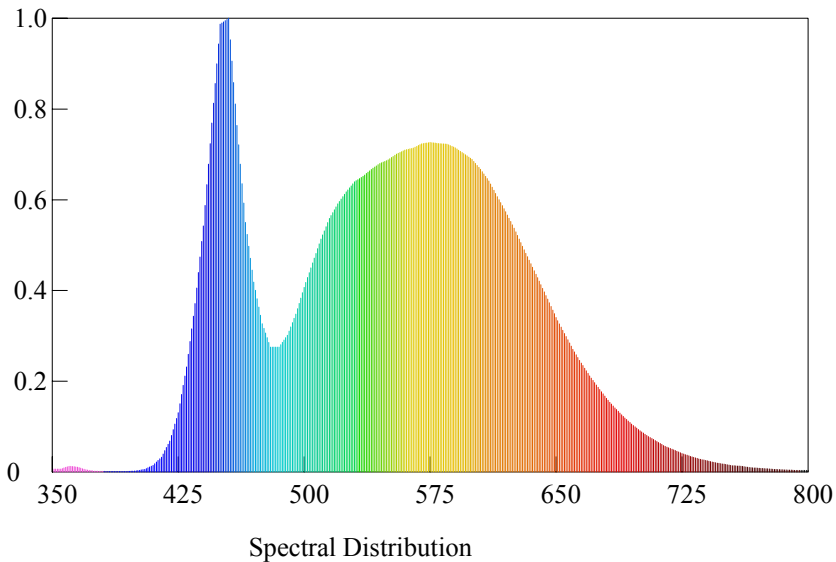
Temperature: 24.1°C

Spectrum Range: 350-800 nm

RH:61%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3459$ $y=0.3583$ $u'=0.2094$ $v'=0.488$

Correlated Color Temperature: 4993 K

Dominant Wavelength: 569.0 nm(E)

Chromaticity Difference: +0.00302Duv

Purity:0.1131

Color Ratio: $K_r=33.5\%$ $K_g=55.8\%$ $K_b=10.8\%$

Peak Wavelength: 452.8 nm

Bandwidth:26.9nm

Color Tolerance: 0.0 SDCM

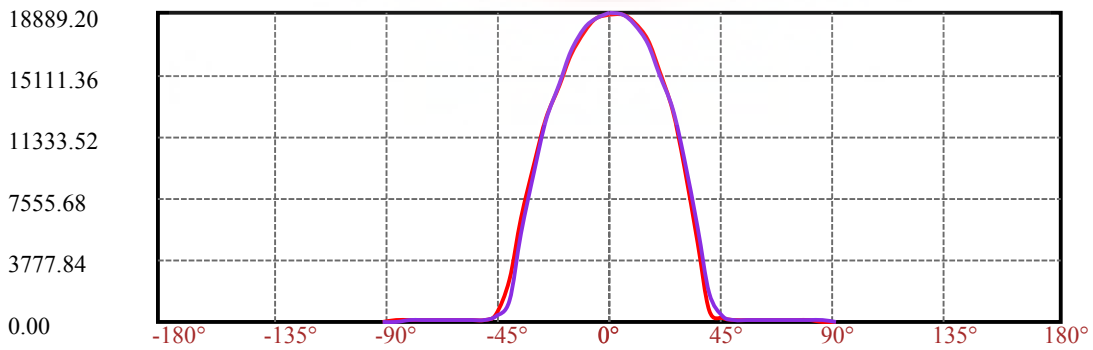
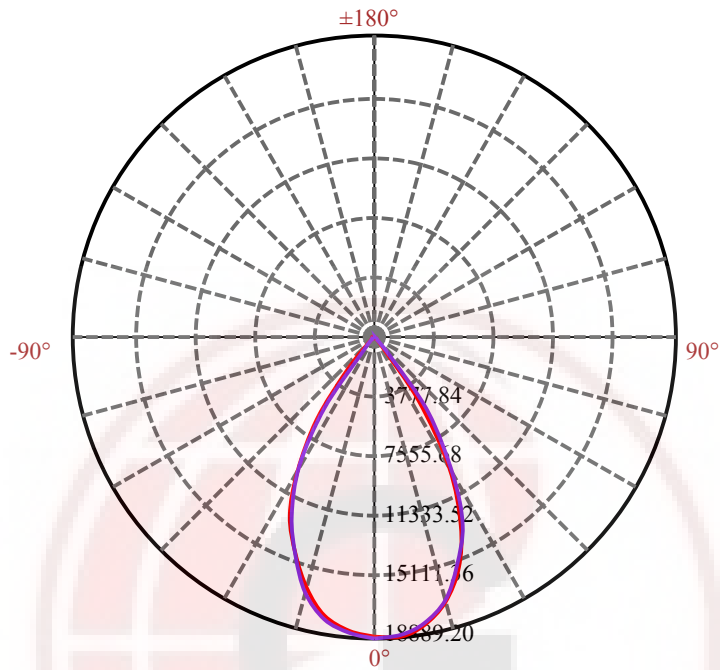
Rendering Index: $R_a=81.6$

Radiant Flux: 45.97 W

R1=79 R2=87 R3=91 R4=81 R5=79 R6=81 R7=88 R8=67

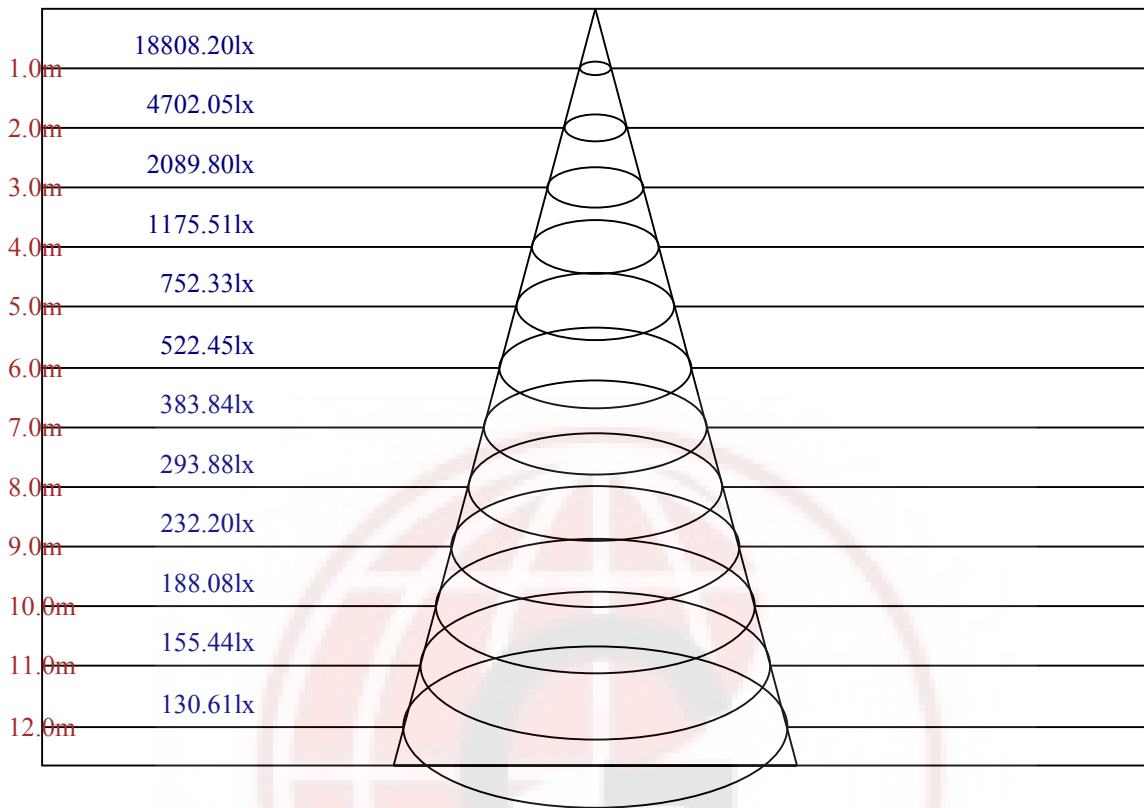
R9=6 R10=67 R11=78 R12=55 R13=82 R14=95 R15=74

Light Distribution Curve [Unit: cd]

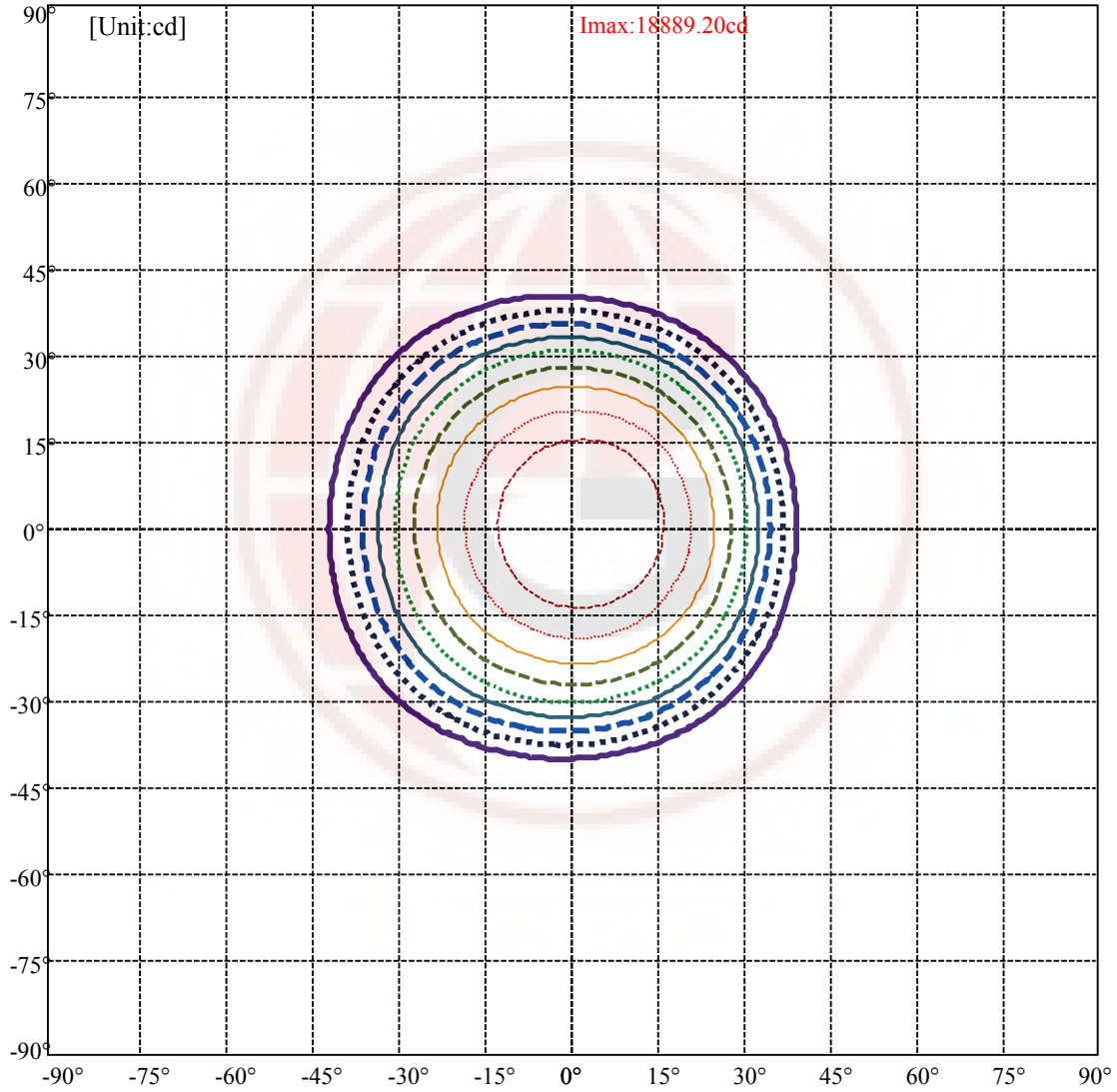


C0/C180: ————
C90/C270: ————

Lux distance Curve



ISO-Intensity(V-H)



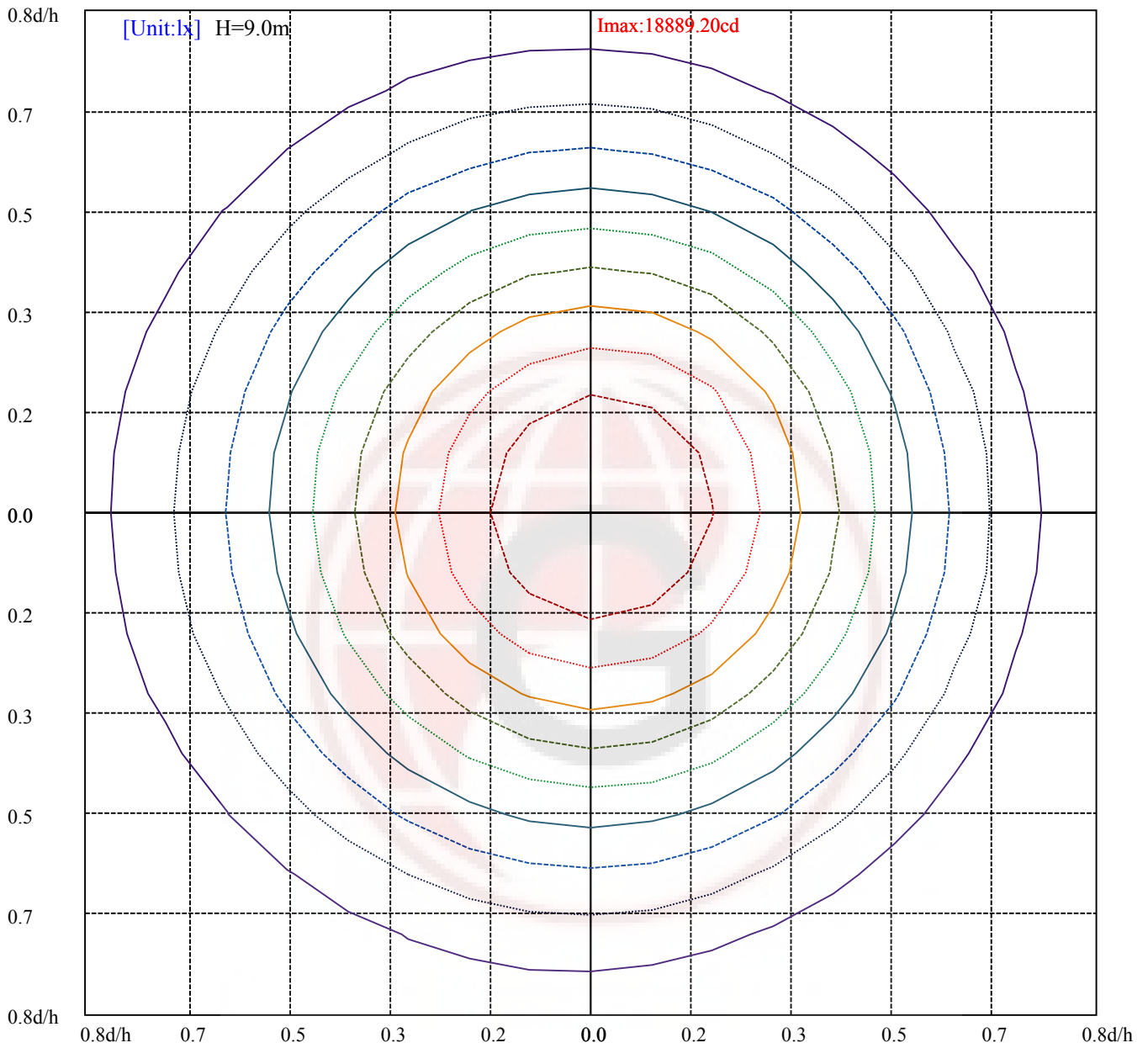
(10%I _{max})	1885.73	———
(20%I _{max})	3771.45	·····
(30%I _{max})	5657.18	- - - - -
(40%I _{max})	7542.9	———
(50%I _{max})	9428.63	·····
(60%I _{max})	11314.4	- - - - -
(70%I _{max})	13200.1	———
(80%I _{max})	15085.8	·····
(90%I _{max})	16971.5	- - - - -

Equipment: GMS1980
Temperature(°C): 25.5

Date: 2015/10/26
Humidity(%): 60.0%

Operator: Johnson Wang
Distance(m): 9.00

ISO illuminance diagram



(10%Emax) 23.25494	———
(20%Emax) 46.51
(30%Emax) 69.76494	- - - - -
(40%Emax) 93.02	———
(50%Emax) 116.2749
(60%Emax) 139.5296	- - - - -
(70%Emax) 162.7852	———
(80%Emax) 186.0395
(90%Emax) 209.2951	- - - - -

Equipment: GMS1980
Temperature(°C): 25.5

Date: 2015/10/26
Humidity(%): 60.0%

Operator: Johnson Wang
Distance(m): 9.00

GlacialTech Inc. GL-BL150-CW

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	18808.20	18792.00	18354.60	17228.70	15317.10	12943.80	9468.90	4779.00	744.39
10.0	18816.30	18840.60	18395.10	17334.00	15325.20	12960.00	9525.60	4819.50	754.92
20.0	18824.40	18856.80	18427.50	17406.90	15373.80	13024.80	9606.60	4900.50	791.37
30.0	18808.20	18848.70	18476.10	17406.90	15430.50	13024.80	9679.50	5005.80	862.65
40.0	18840.60	18848.70	18468.00	17431.20	15462.90	13073.40	9728.10	5078.70	959.85
50.0	18832.50	18824.40	18459.90	17431.20	15462.90	13097.70	9784.80	5200.20	1065.15
60.0	18864.90	18856.80	18419.40	17374.50	15414.30	13073.40	9825.30	5337.90	1200.42
70.0	18856.80	18840.60	18362.70	17285.40	15341.40	13049.10	9873.90	5491.80	1349.46
80.0	18856.80	18800.10	18322.20	17172.00	15260.40	12968.10	9930.60	5661.90	1504.17
90.0	18832.50	18767.70	18225.00	17050.50	15187.50	12968.10	9971.10	5799.60	1704.24
100.0	18848.70	18735.30	18152.10	16977.60	15147.00	12935.70	10003.50	5921.10	1926.18
110.0	18800.10	18670.50	18071.10	16920.90	15066.00	12895.20	10019.70	6034.50	2086.56
120.0	18832.50	18630.00	17998.20	16783.20	14952.60	12846.60	10019.70	6147.90	2205.63
130.0	18848.70	18597.60	17933.40	16694.10	14839.20	12757.50	9987.30	6253.20	2331.18
140.0	18816.30	18532.80	17892.90	16596.90	14742.00	12652.20	9963.00	6309.90	2427.57
150.0	18759.60	18532.80	17811.90	16532.10	14661.00	12587.40	9898.20	6334.20	2493.99
160.0	18792.00	18492.30	17755.20	16418.70	14604.30	12530.70	9817.20	6342.30	2553.93
170.0	18800.10	18476.10	17730.90	16370.10	14547.60	12498.30	9760.50	6326.10	2593.62
180.0	18808.20	18484.20	17722.80	16313.40	14474.70	12409.20	9711.90	6285.60	2593.62
190.0	18775.80	18492.30	17674.20	16264.80	14409.90	12352.50	9639.00	6245.10	2559.60
200.0	18816.30	18492.30	17698.50	16256.70	14377.50	12263.40	9582.30	6164.10	2485.08
210.0	18824.40	18508.50	17739.00	16289.10	14361.30	12263.40	9517.50	6099.30	2372.49
220.0	18840.60	18516.60	17747.10	16305.30	14385.60	12222.90	9468.90	6034.50	2208.06
230.0	18856.80	18565.20	17787.60	16362.00	14401.80	12239.10	9428.40	5929.20	2050.11
240.0	18889.20	18573.30	17787.60	16378.20	14409.90	12222.90	9371.70	5823.90	1878.39
250.0	18856.80	18597.60	17844.30	16443.00	14434.20	12255.30	9306.90	5702.40	1691.28
260.0	18864.90	18581.40	17892.90	16483.50	14490.90	12271.50	9306.90	5564.70	1513.08
270.0	18832.50	18589.50	17917.20	16532.10	14588.10	12328.20	9290.70	5418.90	1337.31
280.0	18816.30	18621.90	17982.00	16588.80	14652.90	12417.30	9274.50	5289.30	1194.75
290.0	18816.30	18646.20	17998.20	16710.30	14750.10	12457.80	9266.40	5167.80	1085.40
300.0	18832.50	18646.20	18063.00	16783.20	14823.00	12538.80	9250.20	5062.50	1009.26
310.0	18816.30	18702.90	18127.80	16856.10	14904.00	12579.30	9282.60	4916.70	949.32
320.0	18792.00	18735.30	18168.30	16961.40	14936.40	12668.40	9323.10	4835.70	895.86
330.0	18816.30	18767.70	18241.20	17026.20	15033.60	12708.90	9355.50	4787.10	835.92
340.0	18832.50	18783.90	18281.70	17131.50	15155.10	12830.40	9363.60	4754.70	785.70
350.0	18808.20	18783.90	18346.50	17220.60	15276.60	12895.20	9412.20	4762.80	751.68
360.0	18808.20	18792.00	18354.60	17228.70	15317.10	12943.80	9468.90	4779.00	744.39

Equipment: GMS1980
 Temperature(°C): 25.5

Date: 2015/10/26
 Humidity(%): 60.0%

Operator: Johnson Wang
 Distance(m): 9.00

GlacialTech Inc. GL-BL150-CW

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	226.96	99.23	81.00	90.23	91.37	86.27	75.41	61.32	44.96
10.0	214.81	104.33	79.79	89.26	93.47	89.10	75.25	53.95	39.85
20.0	211.25	113.72	78.89	87.08	92.66	89.42	74.60	50.38	34.34
30.0	215.62	117.53	78.33	86.02	92.10	89.02	73.31	46.58	33.86
40.0	224.53	121.26	77.68	86.02	91.04	89.51	78.49	53.14	41.55
50.0	238.46	126.85	79.38	85.86	89.83	88.21	79.79	67.31	0.00
60.0	257.42	136.49	82.38	83.67	88.05	84.40	78.89	68.36	64.48
70.0	282.45	146.93	90.23	81.08	83.84	80.03	74.60	63.59	70.55
80.0	310.80	158.03	98.50	79.87	82.54	77.60	74.76	67.55	62.61
90.0	330.40	167.18	106.92	78.00	81.73	77.19	73.47	71.20	60.67
100.0	346.68	176.01	108.46	75.33	79.70	75.33	72.58	72.82	66.83
110.0	366.85	183.79	107.97	73.31	79.54	74.52	71.77	72.09	74.28
120.0	391.96	190.67	108.30	71.93	78.65	73.79	71.04	71.12	73.39
130.0	412.45	195.45	108.70	70.88	78.00	73.47	71.28	68.61	74.44
140.0	434.65	197.48	109.43	69.82	77.11	72.98	70.63	67.39	74.44
150.0	443.72	195.29	107.81	68.69	75.49	72.01	68.93	59.86	64.72
160.0	438.29	189.46	102.55	68.53	75.82	72.25	69.17	58.08	62.86
170.0	435.05	178.85	94.20	67.72	75.49	72.66	69.01	57.02	63.34
180.0	427.76	168.48	89.75	67.47	75.41	73.22	69.17	59.54	61.97
190.0	416.99	162.57	85.05	67.47	74.03	73.71	69.42	59.05	56.86
200.0	398.60	158.36	80.27	66.99	73.31	73.95	67.88	55.97	45.93
210.0	375.60	156.41	76.14	67.80	74.12	74.36	67.55	53.54	37.18
220.0	349.68	153.09	74.36	69.42	75.65	75.57	67.80	48.60	37.99
230.0	336.88	152.85	75.98	71.44	79.22	77.27	69.74	56.46	46.33
240.0	321.89	144.75	76.06	72.41	80.35	77.27	70.31	55.57	53.95
250.0	308.12	135.51	76.79	72.82	80.92	77.27	68.12	57.27	59.45
260.0	305.94	120.04	78.25	73.55	81.89	77.52	68.04	58.24	56.62
270.0	301.16	106.43	78.98	74.76	82.78	78.17	72.01	64.88	55.08
280.0	291.68	97.20	79.06	76.71	83.27	78.08	73.79	67.96	56.05
290.0	286.50	93.39	79.70	78.98	83.27	78.17	74.93	70.96	60.91
300.0	284.07	92.50	80.51	81.49	84.40	79.46	74.93	71.28	66.83
310.0	282.53	92.58	80.60	84.56	86.10	81.16	77.92	71.60	66.42
320.0	279.86	93.15	80.35	85.62	85.62	81.00	77.19	70.79	63.02
330.0	271.59	92.66	80.27	85.29	85.94	81.24	70.39	60.10	54.11
340.0	257.99	93.96	80.84	86.51	86.99	81.41	70.31	53.78	57.27
350.0	244.05	96.15	80.92	88.53	89.10	83.92	71.52	59.94	51.60
360.0	226.96	99.23	81.00	90.23	91.37	86.27	75.41	61.32	44.96

Equipment: GMS1980
 Temperature(°C): 25.5

Date: 2015/10/26
 Humidity(%): 60.0%

Operator: Johnson Wang
 Distance(m): 9.00

Intensity data(cd)

C/γ(°)	90.0
0.0	33.05
10.0	28.03
20.0	25.03
30.0	24.46
40.0	29.48
50.0	37.10
60.0	43.50
70.0	42.12
80.0	41.31
90.0	41.39
100.0	42.85
110.0	46.74
120.0	51.76
130.0	53.78
140.0	52.73
150.0	48.52
160.0	47.79
170.0	47.06
180.0	39.20
190.0	34.75
200.0	30.29
210.0	29.48
220.0	28.43
230.0	33.29
240.0	40.34
250.0	40.58
260.0	39.37
270.0	39.20
280.0	38.88
290.0	40.82
300.0	43.01
310.0	45.28
320.0	43.58
330.0	38.07
340.0	35.24
350.0	37.42
360.0	33.05





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1. Luminaire Specification :

- (1) Input Voltage / Frequency : 240.00 Vac / 50 Hz
- (2) Input Watt : 144.59 W
- (3) Input Current : 0.631 A
- (4) Total Luminous Flux Output : 16334.48 lm
- (5) Luminaire Efficacy : 112.97 lm/W
- (6) Central Intensity : 18808.200 cd
- (7) Maximum Intensity : 18889.200 cd
- (8) PF : 0.951
- (9) Beam Angle : (C0-C180) : 60.5° , (C90-C270) : 60.5°
- (10) Correlated Color Temperature (CCT) : 4993 K
- (11) Duv : +0.00302
- (12) Color Rendering Index (CRI) : 81.6

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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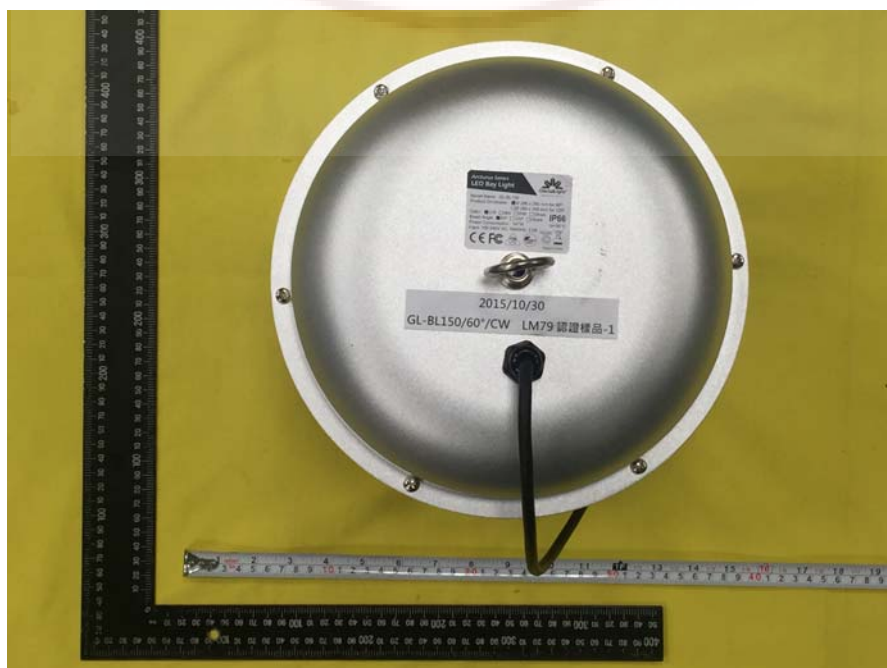
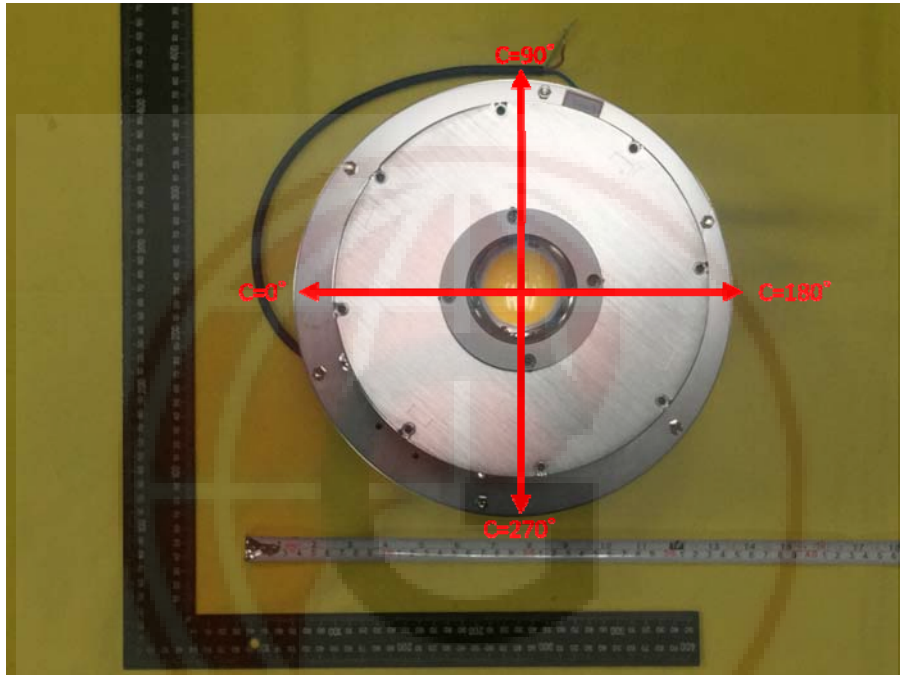
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3. Photograph of EUT :

Complete Sample Angle Definition





Great One Global Certification Co., Ltd.

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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	2015/10/10	2016/10/09	V : Auto (0~300Vac) A : Auto (0~20A)
L217	Goniophotometer Photo Detector	N/A	N/A	
L218	Goniophotometer System	N/A	N/A	
L219	AC Power Source	N/A	N/A	AC 0~150VAC4.2A AC0~300VAC2.1A
L220	Power Meter	2015/08/26	2016/08/25	V : Auto (0~300Vac) A : Auto (0~20A)
L221	Luminous Intensity Lamp	2014/11/13	2015/11/12	
L242	DC Standard Light	2015/10/14	2016/10/13	