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Goniophotometer Measurement Report For Luminaires

Applicant : GlacialTech Inc.

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

Report No : GO1409010101

Product Name : LED Bay Light

Model No : GL-BL30-WW

Sample No : 14090101-1

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

Test Date : 2014-9-H

Issue Date : 2014-9-3

- Note: 1. The test results of this report relate only to the tested sample identified in this report.
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Tested By:

Reviewed By:

Alex Sung

Donald Chang

Project Engineer

Team Leader

Great One Global Certification Co., Ltd.

Product: GL-BL30-WW

Manufacturer: GlacialTech Inc.

Sample No.: 362; 2323/3

Tested By: Alex Sung

Date: 9-3-2014

Reviewed By: David Yuan

Test Condition

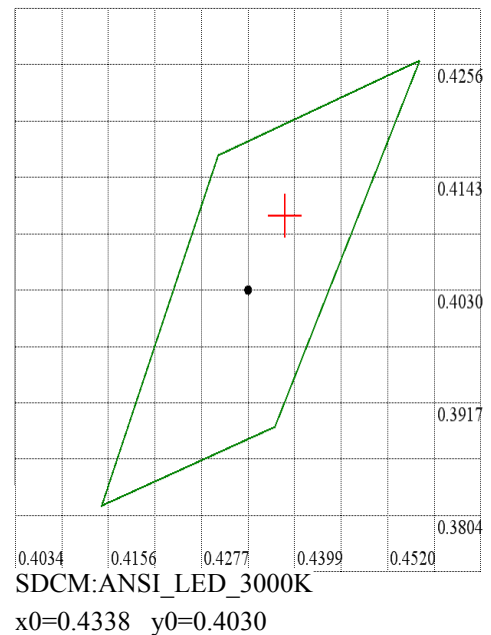
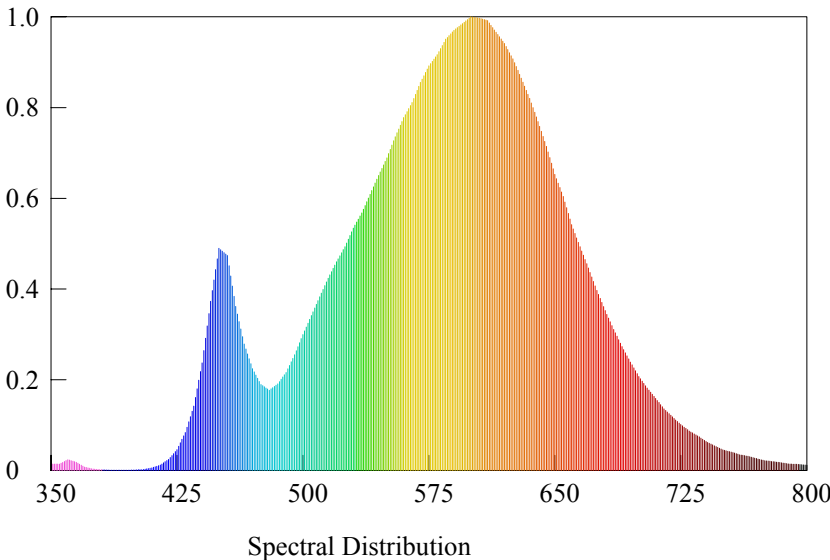
Temperature: 25.5°C

Spectrum Range: 350-800 nm

RH: 60.0%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.4386$ $y=0.4105$ $u'=0.2489$ $v'=0.5241$

Correlated Color Temperature: 3023 K

Dominant Wavelength: 580.0 nm(E)

Chromaticity Difference: 0.0023Duv

Purity: 0.5515

Color Ratio: $K_r=43.7\%$ $K_g=49.7\%$ $K_b=6.6\%$

Peak Wavelength: 601.7 nm

Bandwidth: 138.1nm

Color Tolerance: 0.0 SDCM

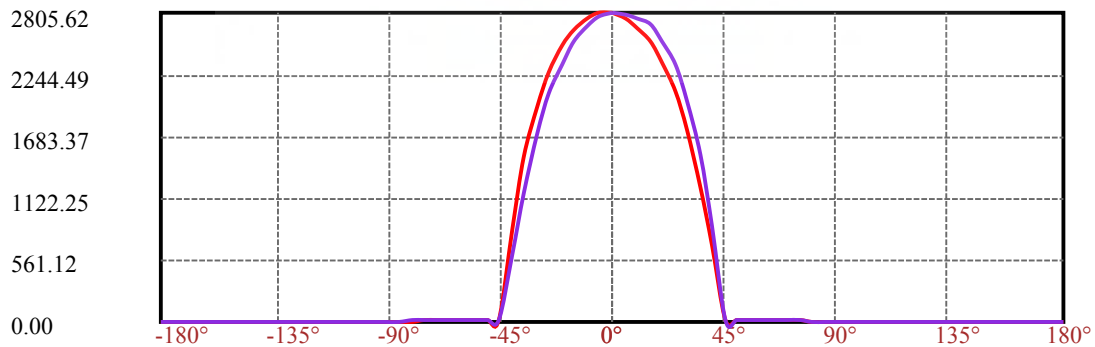
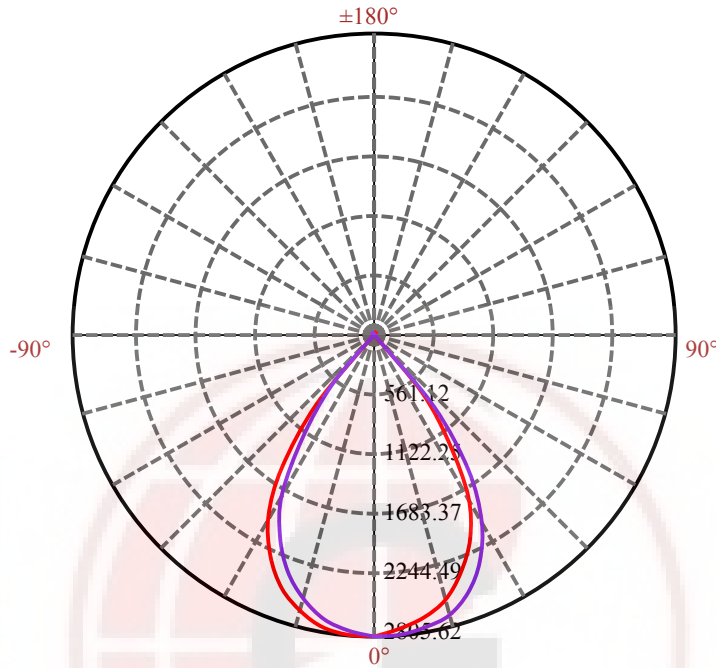
Rendering Index: $R_a=80.6$

Radiant Flux: 8.189 W

R1=78 R2=88 R3=96 R4=78 R5=77 R6=83 R7=85 R8=61

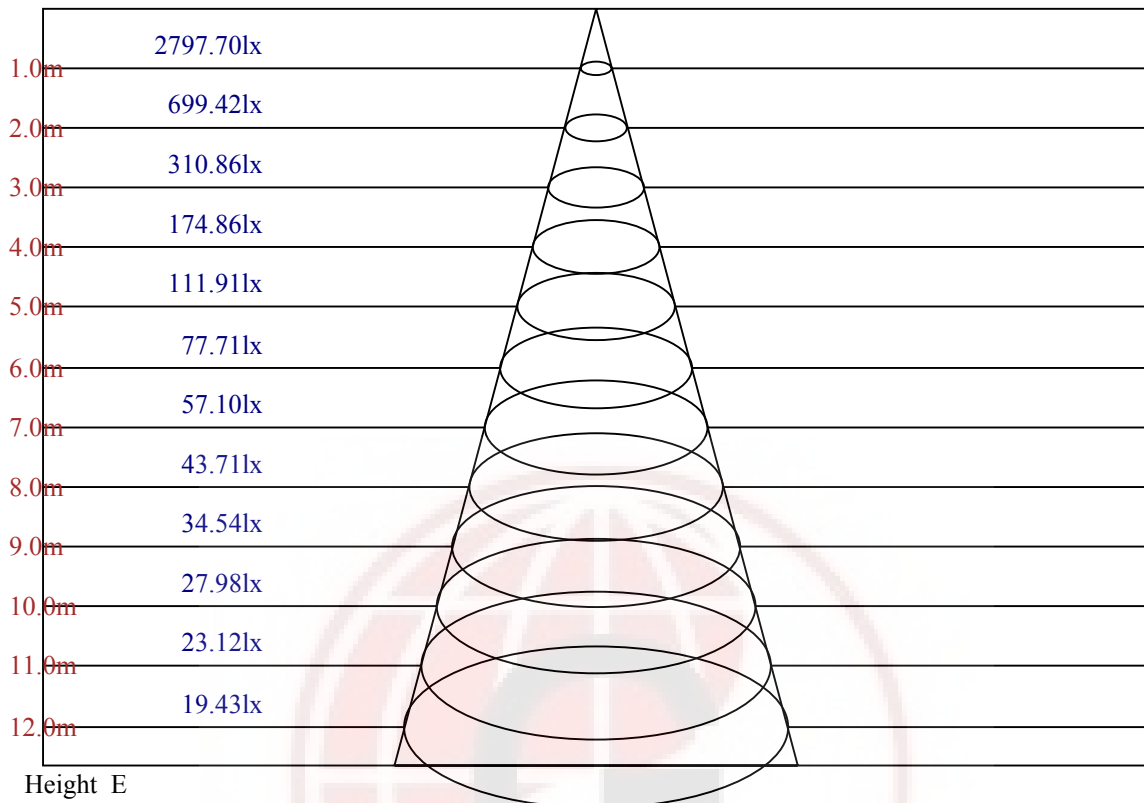
R9=9 R10=71 R11=74 R12=61 R13=80 R14=97 R15=73

Light Distribution Curve [Unit: cd]

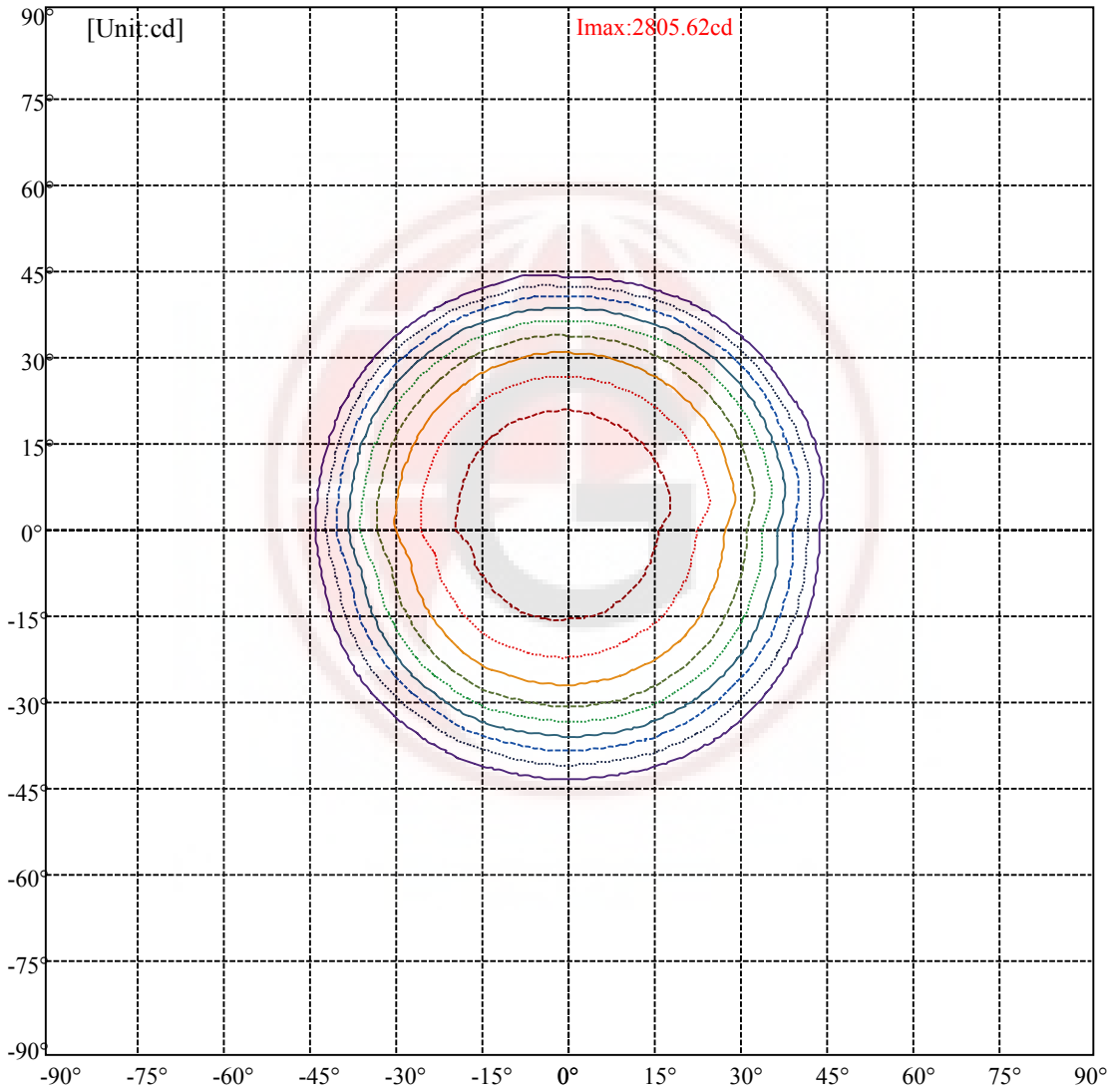


C0/C180: ———
C90/C270: ———

Lux distance Curve



ISO-Intensity(V-H)

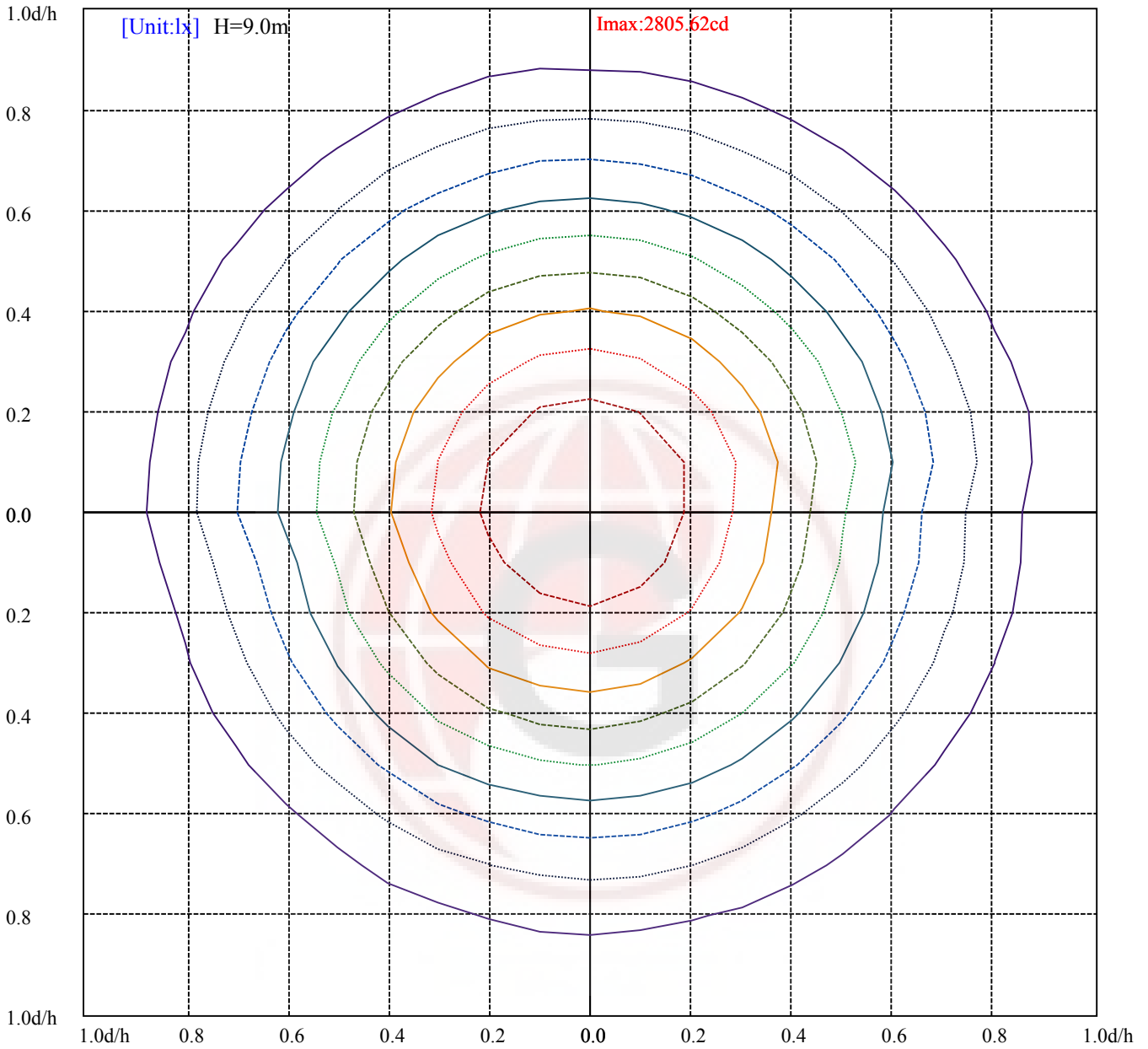


(10%Imax) 280.439	—
(20%Imax) 560.879	⋯
(30%Imax) 841.318	- - -
(40%Imax) 1121.76	—
(50%Imax) 1402.2	⋯
(60%Imax) 1682.64	- - -
(70%Imax) 1963.08	—
(80%Imax) 2243.52	⋯
(90%Imax) 2523.96	- - -

Equipment: HW-1015
Temperature(°C): 25.4

Date: 2014/9/3
Humidity(%): 60.6%

Operator: Alex Sung
Distance(m): 8.90



- (10%Emax) 3.456395 ————
- (20%Emax) 6.912778 ······
- (30%Emax) 10.36917 - - - -
- (40%Emax) 13.82556 ————
- (50%Emax) 17.28197 ······
- (60%Emax) 20.7384 - - - -
- (70%Emax) 24.19469 ————
- (80%Emax) 27.65111 ······
- (90%Emax) 31.10753 - - - -

Equipment: HW-1015
Temperature(°C): 25.4

Date: 2014/9/3
Humidity(%): 60.6%

Operator: Alex Sung
Distance(m): 8.90

GlacialTech Inc.

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	2797.70	2744.63	2668.58	2548.19	2350.95	2095.10	1737.87	1225.70	691.82
10.0	2799.28	2781.86	2720.07	2617.89	2458.68	2232.93	1909.75	1473.31	868.93
20.0	2799.28	2782.65	2721.66	2625.81	2472.94	2238.47	1922.43	1482.02	834.08
30.0	2797.70	2783.44	2727.99	2642.45	2483.23	2266.20	1946.19	1488.36	870.52
40.0	2800.07	2785.82	2731.16	2646.41	2494.32	2277.29	1944.61	1494.69	867.35
50.0	2799.28	2788.98	2736.71	2656.70	2504.62	2270.95	1953.32	1515.29	843.59
60.0	2799.28	2788.98	2746.21	2665.42	2516.50	2296.30	1959.66	1516.87	855.47
70.0	2800.87	2790.57	2751.76	2675.71	2523.63	2302.64	1988.96	1514.50	845.96
80.0	2798.49	2795.32	2757.30	2681.26	2541.85	2324.02	2005.60	1528.75	876.06
90.0	2797.70	2794.53	2759.68	2693.14	2550.56	2327.19	2005.60	1524.00	870.52
100.0	2797.70	2798.49	2766.01	2694.72	2551.35	2338.28	2029.36	1560.44	895.87
110.0	2797.70	2799.28	2769.18	2701.85	2552.15	2338.28	2019.86	1554.10	884.78
120.0	2797.70	2801.66	2771.56	2698.68	2556.90	2346.99	2010.35	1562.02	914.88
130.0	2796.91	2805.62	2766.01	2693.14	2547.39	2324.81	1998.47	1550.93	856.26
140.0	2798.49	2797.70	2766.01	2689.18	2535.51	2331.15	1992.13	1535.09	880.82
150.0	2796.11	2800.87	2766.01	2684.43	2529.97	2323.23	1981.83	1551.72	884.78
160.0	2799.28	2803.24	2763.64	2666.21	2514.92	2305.80	1971.54	1531.13	861.80
170.0	2796.11	2797.70	2755.72	2663.04	2504.62	2284.42	1969.16	1509.74	835.67
180.0	2797.70	2797.70	2754.13	2656.70	2504.62	2268.57	1948.57	1504.99	829.33
190.0	2799.28	2777.89	2716.11	2590.96	2410.36	2147.38	1798.07	1283.36	618.47
200.0	2799.28	2778.69	2714.53	2594.13	2422.24	2170.35	1800.44	1273.70	644.61
210.0	2797.70	2778.69	2710.57	2577.49	2401.65	2141.84	1777.47	1266.65	637.72
220.0	2800.07	2776.31	2703.44	2581.45	2391.35	2131.54	1781.43	1256.83	599.07
230.0	2799.28	2773.14	2699.48	2570.36	2384.22	2133.92	1771.93	1205.97	561.52
240.0	2799.28	2773.14	2697.89	2567.20	2376.30	2115.70	1766.38	1221.42	592.41
250.0	2800.87	2771.56	2685.22	2555.31	2353.33	2098.27	1721.23	1199.08	561.68
260.0	2798.49	2769.18	2681.26	2550.56	2348.58	2083.22	1718.07	1159.87	597.32
270.0	2797.70	2767.60	2678.88	2535.51	2342.24	2080.05	1715.69	1166.37	608.02
280.0	2797.70	2760.47	2671.75	2532.34	2331.15	2060.25	1718.86	1178.65	577.20
290.0	2797.70	2764.43	2672.55	2541.85	2329.57	2063.42	1724.40	1191.79	609.68
300.0	2797.70	2754.92	2660.66	2524.42	2313.72	2053.12	1706.18	1186.65	627.58
310.0	2796.91	2753.34	2662.25	2526.01	2318.48	2070.55	1710.94	1194.80	642.87
320.0	2798.49	2747.79	2663.04	2526.01	2324.02	2080.05	1723.61	1216.75	622.67
330.0	2796.11	2743.83	2662.25	2526.80	2325.61	2080.85	1730.74	1225.22	677.09
340.0	2799.28	2744.63	2670.17	2526.80	2333.53	2083.22	1722.82	1228.63	700.61
350.0	2796.11	2741.46	2666.21	2531.55	2332.73	2078.47	1741.83	1257.38	723.50
360.0	2797.70	2744.63	2668.58	2548.19	2350.95	2095.10	1737.87	1225.70	691.82

Equipment: HW-1015
 Temperature(°C): 25.4

Date: 2014/9/3
 Humidity(%): 60.6%

Operator: Alex Sung
 Distance(m): 8.90

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	25.27	18.93	17.03	15.60	13.70	12.04	10.30	8.48	5.86
10.0	216.48	19.96	17.58	15.68	13.86	11.88	10.22	8.40	5.39
20.0	189.55	19.72	17.43	15.68	13.78	11.88	10.22	8.32	5.70
30.0	29.86	19.41	17.35	15.60	13.70	11.64	9.90	8.16	5.23
40.0	27.72	19.41	17.27	15.45	13.47	11.72	9.82	8.08	5.39
50.0	26.85	19.25	17.11	15.37	13.39	11.41	9.82	8.00	5.15
60.0	26.22	19.17	17.03	15.29	13.23	11.49	9.58	7.92	4.99
70.0	27.41	18.93	16.95	15.21	13.31	11.25	9.43	7.84	5.15
80.0	26.30	18.93	16.95	15.13	13.23	11.17	9.35	7.60	4.59
90.0	25.58	19.01	16.87	15.13	13.15	11.17	9.43	7.68	4.91
100.0	186.54	18.93	16.87	15.05	13.07	11.09	9.35	7.60	4.83
110.0	27.09	18.54	16.87	14.89	13.15	11.01	9.27	7.37	4.67
120.0	25.51	18.77	16.87	14.97	12.99	11.09	9.27	7.45	4.91
130.0	25.03	18.85	16.71	14.89	12.99	11.09	9.19	7.45	4.59
140.0	24.71	18.93	16.79	15.05	12.83	11.01	9.19	7.45	4.75
150.0	25.74	19.17	16.79	14.97	12.99	11.09	9.27	7.60	4.67
160.0	25.74	19.25	16.95	15.13	12.99	11.17	9.19	7.60	4.67
170.0	26.46	19.17	16.95	15.13	12.99	11.09	9.43	7.68	4.75
180.0	25.58	19.25	17.03	15.13	13.07	11.33	9.51	7.76	4.75
190.0	22.10	18.38	16.87	15.13	13.15	11.33	9.58	7.92	4.83
200.0	21.86	18.38	16.95	15.13	13.31	11.64	9.82	8.00	4.83
210.0	21.86	18.46	17.03	15.21	13.39	11.64	10.14	8.24	4.83
220.0	21.86	18.54	17.11	15.53	13.62	11.96	10.22	8.48	5.23
230.0	22.26	18.61	17.35	15.53	13.78	12.12	10.46	8.71	5.39
240.0	23.45	19.09	17.66	15.92	14.18	12.52	10.93	9.11	5.94
250.0	22.10	19.09	17.58	15.92	14.18	12.52	10.85	9.11	5.62
260.0	22.57	19.33	17.66	16.08	14.34	12.75	11.01	9.27	5.94
270.0	23.21	19.17	17.74	16.16	14.42	12.59	11.09	9.35	5.78
280.0	24.00	19.25	17.74	16.32	14.65	12.83	11.17	9.35	6.10
290.0	24.08	19.41	17.74	16.24	14.50	12.67	11.09	9.35	5.94
300.0	25.11	19.49	17.66	16.16	14.50	12.83	11.17	9.19	6.26
310.0	25.51	19.41	17.51	15.92	14.26	12.36	10.85	9.03	5.78
320.0	26.61	19.41	17.58	16.08	14.34	12.59	10.85	9.03	6.02
330.0	26.69	19.49	17.51	16.00	14.02	12.36	10.69	8.95	5.94
340.0	27.72	19.49	17.43	15.92	13.86	12.28	10.53	8.63	5.86
350.0	27.80	19.25	17.35	15.68	13.70	12.12	10.38	8.63	5.47
360.0	25.27	18.93	17.03	15.60	13.70	12.04	10.30	8.48	5.86

GlacialTech Inc.

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	0.40	0.48	0.48	0.40	0.40	0.40	0.40	0.48	0.63
10.0	0.55	0.55	0.55	0.63	0.55	0.55	0.63	0.63	0.71
20.0	0.55	0.63	0.55	0.55	0.55	0.63	0.55	0.55	0.71
30.0	0.55	0.63	0.55	0.55	0.55	0.48	0.48	0.63	0.71
40.0	0.63	0.71	0.48	0.48	0.55	0.55	0.63	0.63	0.71
50.0	0.48	0.55	0.48	0.63	0.55	0.63	0.55	0.55	0.63
60.0	0.63	0.48	0.55	0.55	0.63	0.55	0.55	0.55	0.63
70.0	0.55	0.55	0.55	0.63	0.55	0.48	0.48	0.63	0.63
80.0	0.55	0.63	0.48	0.48	0.55	0.63	0.55	0.63	0.63
90.0	0.55	0.55	0.63	0.48	0.48	0.63	0.63	0.63	0.71
100.0	0.48	0.55	0.55	0.48	0.55	0.55	0.55	0.55	0.63
110.0	0.55	0.48	0.63	0.48	0.55	0.55	0.55	0.63	0.71
120.0	0.55	0.55	0.55	0.55	0.63	0.55	0.55	0.55	0.71
130.0	0.48	0.55	0.55	0.55	0.55	0.63	0.48	0.63	0.79
140.0	0.63	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.63
150.0	0.55	0.55	0.55	0.48	0.63	0.48	0.63	0.63	0.79
160.0	0.48	0.55	0.71	0.55	0.55	0.55	0.55	0.71	0.63
170.0	0.55	0.55	0.55	0.55	0.63	0.48	0.55	0.63	0.63
180.0	0.55	0.55	0.55	0.48	0.63	0.55	0.55	0.71	0.71
190.0	0.55	0.48	0.48	0.63	0.40	0.40	0.55	0.48	0.55
200.0	0.48	0.48	0.48	0.48	0.48	0.48	0.55	0.55	0.48
210.0	0.48	0.48	0.48	0.55	0.48	0.40	0.55	0.55	0.55
220.0	0.48	0.63	0.55	0.48	0.40	0.48	0.40	0.48	0.63
230.0	0.40	0.55	0.48	0.55	0.48	0.48	0.40	0.55	0.63
240.0	0.48	0.48	0.48	0.48	0.40	0.40	0.55	0.48	0.55
250.0	0.48	0.55	0.63	0.48	0.55	0.48	0.55	0.48	0.63
260.0	0.48	0.48	0.48	0.48	0.48	0.55	0.40	0.40	0.55
270.0	0.55	0.55	0.40	0.55	0.55	0.48	0.40	0.48	0.40
280.0	0.48	0.55	0.48	0.55	0.32	0.48	0.48	0.63	0.63
290.0	0.48	0.48	0.48	0.55	0.55	0.48	0.55	0.55	0.48
300.0	0.55	0.55	0.40	0.55	0.55	0.55	0.55	0.48	0.63
310.0	0.55	0.40	0.48	0.55	0.48	0.48	0.40	0.48	0.63
320.0	0.40	0.55	0.55	0.48	0.48	0.48	0.48	0.48	0.63
330.0	0.55	0.48	0.48	0.55	0.40	0.48	0.48	0.48	0.55
340.0	0.55	0.48	0.48	0.55	0.48	0.48	0.48	0.55	0.63
350.0	0.40	0.55	0.48	0.40	0.40	0.48	0.48	0.40	0.55
360.0	0.40	0.48	0.48	0.40	0.40	0.40	0.40	0.48	0.63

Equipment: HW-1015
 Temperature(°C): 25.4

Date: 2014/9/3
 Humidity(%): 60.6%

Operator: Alex Sung
 Distance(m): 8.90

GlacialTech Inc.

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	0.55	0.63	0.63	0.87	0.79	0.87	1.03	1.19	1.19
10.0	0.87	0.87	1.11	1.19	1.27	1.43	1.58	1.50	1.35
20.0	0.79	0.95	1.11	1.27	1.35	1.43	1.50	1.50	1.35
30.0	0.79	0.95	1.03	1.19	1.27	1.50	1.50	1.43	1.58
40.0	0.79	0.95	0.95	1.19	1.27	1.43	1.43	1.43	1.35
50.0	0.79	0.95	1.03	1.19	1.27	1.43	1.50	1.43	1.50
60.0	0.87	0.87	0.95	1.11	1.35	1.43	1.43	1.43	1.35
70.0	0.87	0.95	0.95	1.11	1.35	1.43	1.43	1.50	1.43
80.0	0.79	0.95	1.11	1.11	1.19	1.35	1.43	1.58	1.43
90.0	0.71	0.87	1.03	1.11	1.27	1.43	1.58	1.50	1.50
100.0	0.71	0.95	0.95	1.27	1.27	1.50	1.50	1.50	1.50
110.0	0.71	0.87	1.03	1.19	1.27	1.43	1.50	1.43	1.43
120.0	0.71	0.87	0.95	1.11	1.35	1.58	1.58	1.58	1.50
130.0	0.71	0.87	0.95	1.19	1.35	1.50	1.50	1.50	1.43
140.0	0.79	0.87	1.03	1.27	1.35	1.35	1.58	1.58	1.50
150.0	0.87	0.87	1.19	1.19	1.43	1.50	1.58	1.58	1.43
160.0	0.71	0.87	1.03	1.27	1.43	1.50	1.58	1.58	1.50
170.0	0.79	0.95	1.11	1.27	1.35	1.50	1.50	1.58	1.50
180.0	0.79	0.95	1.11	1.19	1.43	1.58	1.58	1.50	1.43
190.0	0.63	0.71	0.71	0.87	0.87	0.95	1.11	1.11	1.27
200.0	0.63	0.71	0.79	0.79	0.87	0.95	1.03	1.03	1.35
210.0	0.55	0.63	0.71	0.79	0.87	1.03	1.03	1.11	1.27
220.0	0.63	0.79	0.63	0.79	0.87	0.95	1.03	1.11	1.27
230.0	0.71	0.71	0.71	0.87	0.95	0.95	1.03	1.11	1.27
240.0	0.63	0.63	0.71	0.79	0.87	1.03	1.03	1.11	1.19
250.0	0.55	0.55	0.71	0.87	0.87	0.95	0.95	1.03	1.27
260.0	0.63	0.71	0.71	0.79	0.95	1.03	1.03	1.19	1.11
270.0	0.71	0.63	0.79	0.87	0.87	0.95	1.03	1.11	1.19
280.0	0.79	0.71	0.71	0.87	0.87	1.03	1.11	1.03	1.19
290.0	0.63	0.63	0.71	0.79	0.87	1.11	1.11	1.19	1.27
300.0	0.63	0.71	0.79	0.95	0.87	1.03	1.03	1.19	1.35
310.0	0.48	0.79	0.79	0.79	0.87	1.03	1.03	1.19	1.19
320.0	0.63	0.71	0.79	0.87	0.95	1.11	1.03	1.19	1.19
330.0	0.63	0.71	0.79	0.79	0.87	0.95	1.11	1.19	1.35
340.0	0.63	0.79	0.79	0.79	0.95	0.95	1.03	1.11	1.19
350.0	0.71	0.71	0.71	0.87	0.95	1.11	1.11	1.11	1.27
360.0	0.55	0.63	0.63	0.87	0.79	0.87	1.03	1.19	1.19

Equipment: HW-1015
 Temperature(°C): 25.4

Date: 2014/9/3
 Humidity(%): 60.6%

Operator: Alex Sung
 Distance(m): 8.90

Intensity data(cd)

C/γ(°)	180.0
0.0	1.43
10.0	1.43
20.0	1.35
30.0	1.43
40.0	1.19
50.0	1.35
60.0	1.35
70.0	1.35
80.0	1.35
90.0	1.35
100.0	1.35
110.0	1.50
120.0	1.50
130.0	1.35
140.0	1.43
150.0	1.35
160.0	1.43
170.0	1.43
180.0	1.43
190.0	1.43
200.0	1.35
210.0	1.43
220.0	1.19
230.0	1.35
240.0	1.35
250.0	1.35
260.0	1.35
270.0	1.35
280.0	1.35
290.0	1.50
300.0	1.50
310.0	1.35
320.0	1.43
330.0	1.35
340.0	1.43
350.0	1.43
360.0	1.43





廣益全球驗證有限公司
新北市中和區橋和路120號9樓之二
TEL: 886 - 2 - 2248.0810
Fax: 886 - 2 - 2248.0811

Great One Global Certification Co Ltd
9F-2, No.120, Qiaohe Rd., Zhonghe Dist.,
New Taipei City 235, Taiwan (R.O.C.)
Email: sales@go-safety.com.tw

1. Luminaire Specification :

- (1) Input Voltage/Frequency : 240.00 Vac / 50 Hz
- (2) Input Watt : 30.01 W
- (3) Input Current : 0.134 A
- (4) Total Luminous Flux Output : 3030.25 lm
- (5) Luminaire Efficacy : 100.97 lm/W
- (6) Central Intensity (cd) : 2797.697
- (7) Maximum Intensity(cd) : 2805.618
- (8) PF : 0.931
- (9) Beam angle : (C0-C180) 69.1 (C90-C270) 68.9
- (10) Correlated Color Temperature (CCT) : 3023 K
- (11) Color Rendering Index (CRI) : 80.6

2. Description of EUT Setup :

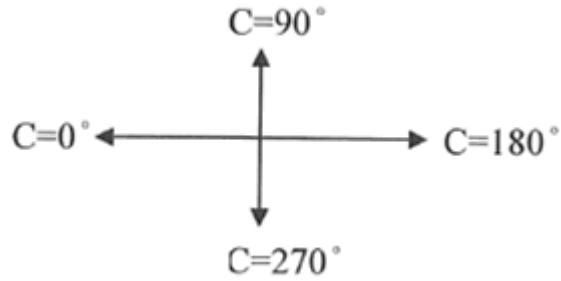
- (1) Operating Orientation : The light source is considered as horizontal
- (2) Light Source : LED
- (3) Stabilization time : 1 Hour
- (4) Environment Condition : Temperature: 25 ± 1 °C , Humidity: $60 \pm 20\%$



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3. Photograph of EUT :





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4. Equipments 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	
L204	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	2014/8/25	2015/8/26	V : Auto (0~300Vac) A : Auto (0~20A)
L221	Luminous Intensity Lamp	2013/11/13	2014/11/12	
L222	Power Meter	2013/10/11	2014/10/10	V : Auto (0~300Vac) A : Auto (0~20A)
L244	Standard Light Source	2014/1/3	2015/1/2	