



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.....: GO1510010201F

Product Name: LED Flood Light

Model No.....: GL-FL150-CW

Sample No: 15100102-1

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

Test Date: November 19, 2015

Issue Date.....: November 24, 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-FL150-CW

Manufacturer: GlacialTech Inc.

Sample No.: 15100102-1

Tested By: Johnson Wang

Date:11-19-2015

Reviewed By: Donald Chang

Test Condition

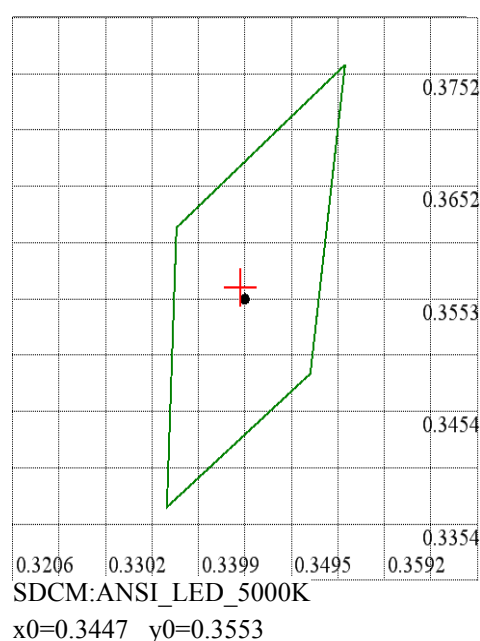
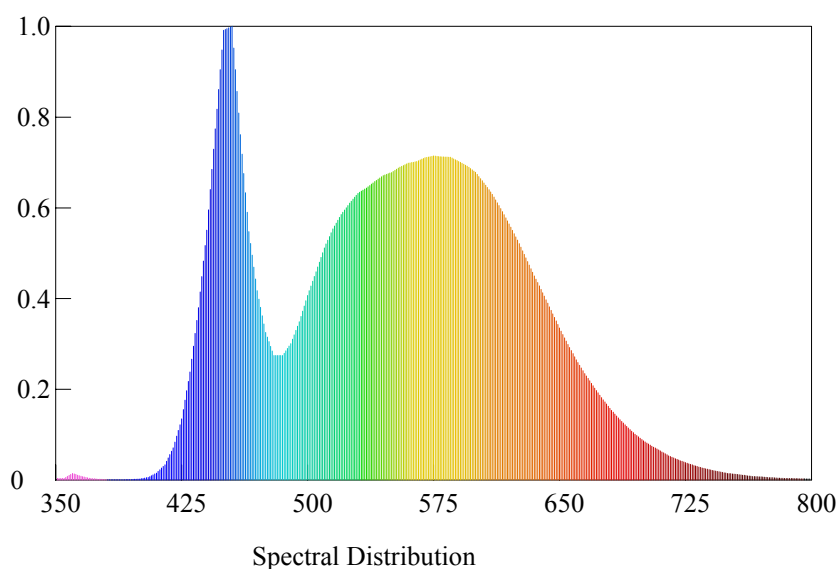
Temperature: 25.6°C

Spectrum Range: 350-800 nm

RH:52%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3442$ $y=0.3563$ $u'=0.209$ $v'=0.4868$

Correlated Color Temperature: 5048 K

Chromaticity Difference: +0.00269Duv

Color Ratio: $K_r=33.4\%$ $K_g=55.7\%$ $K_b=10.9\%$

Bandwidth:27.1nm

Rendering Index: $R_a=81.8$

Dominant Wavelength: 568.0 nm(E)

Purity:0.1015

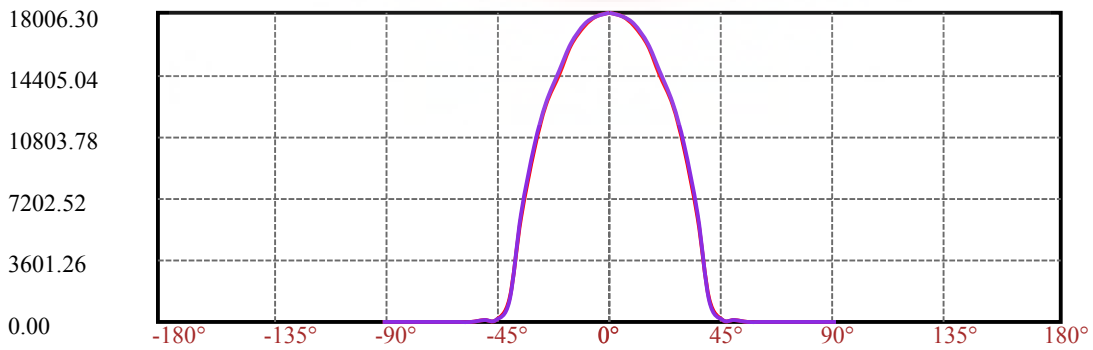
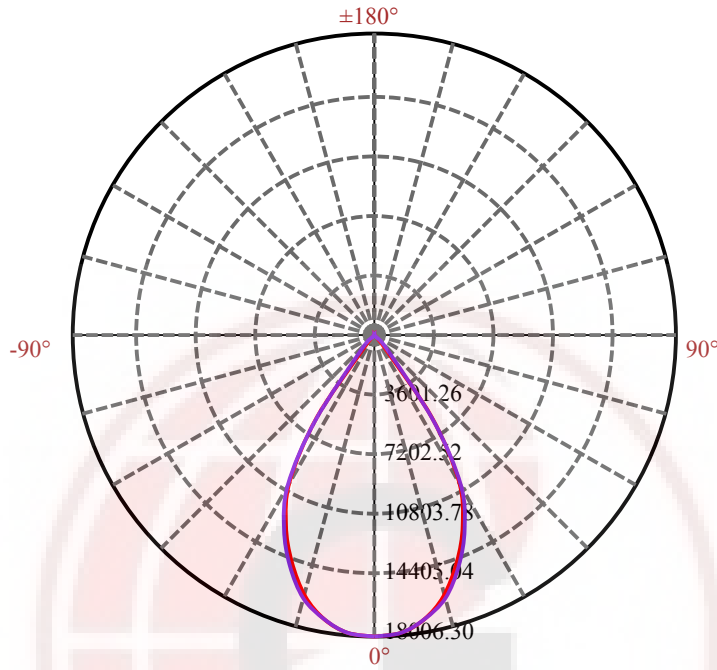
Peak Wavelength: 452.7 nm

Color Tolerance: 0.0 SDCM

Radiant Flux: 39.08 W

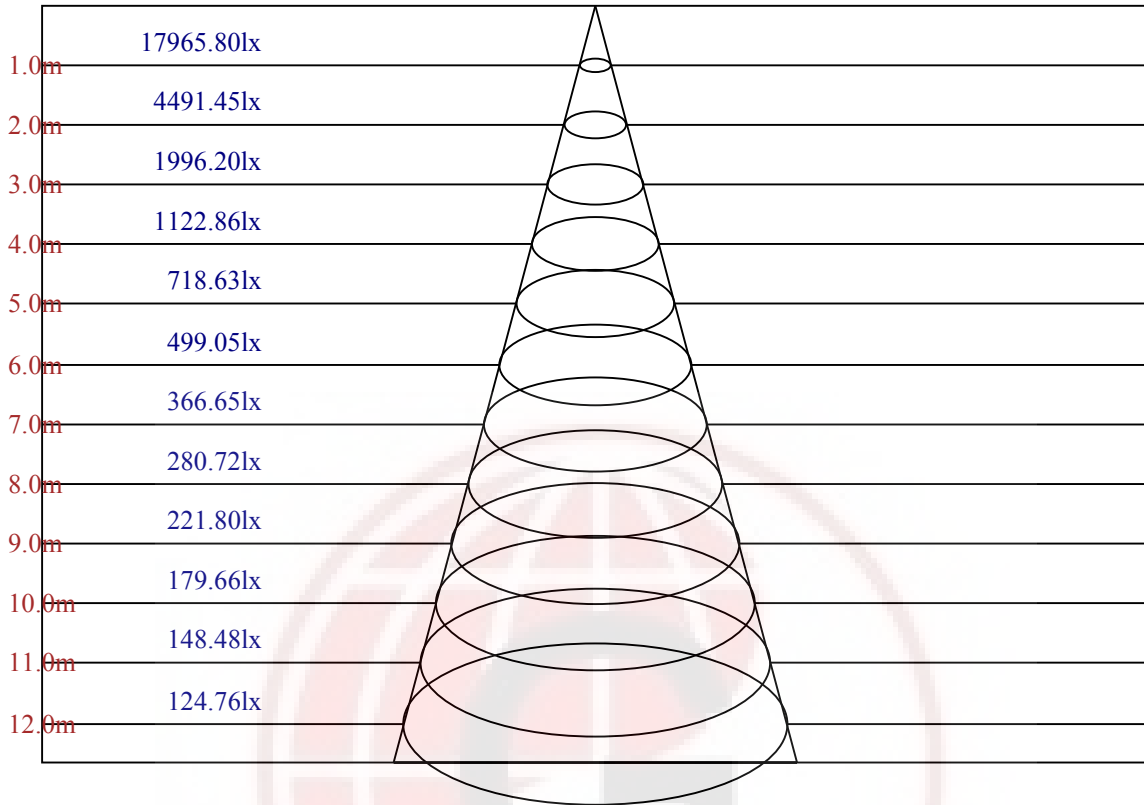
R1=80 R2=87 R3=91 R4=82 R5=80 R6=81 R7=87 R8=67
R9=5 R10=68 R11=80 R12=61 R13=82 R14=95 R15=75

Light Distribution Curve [Unit: cd]

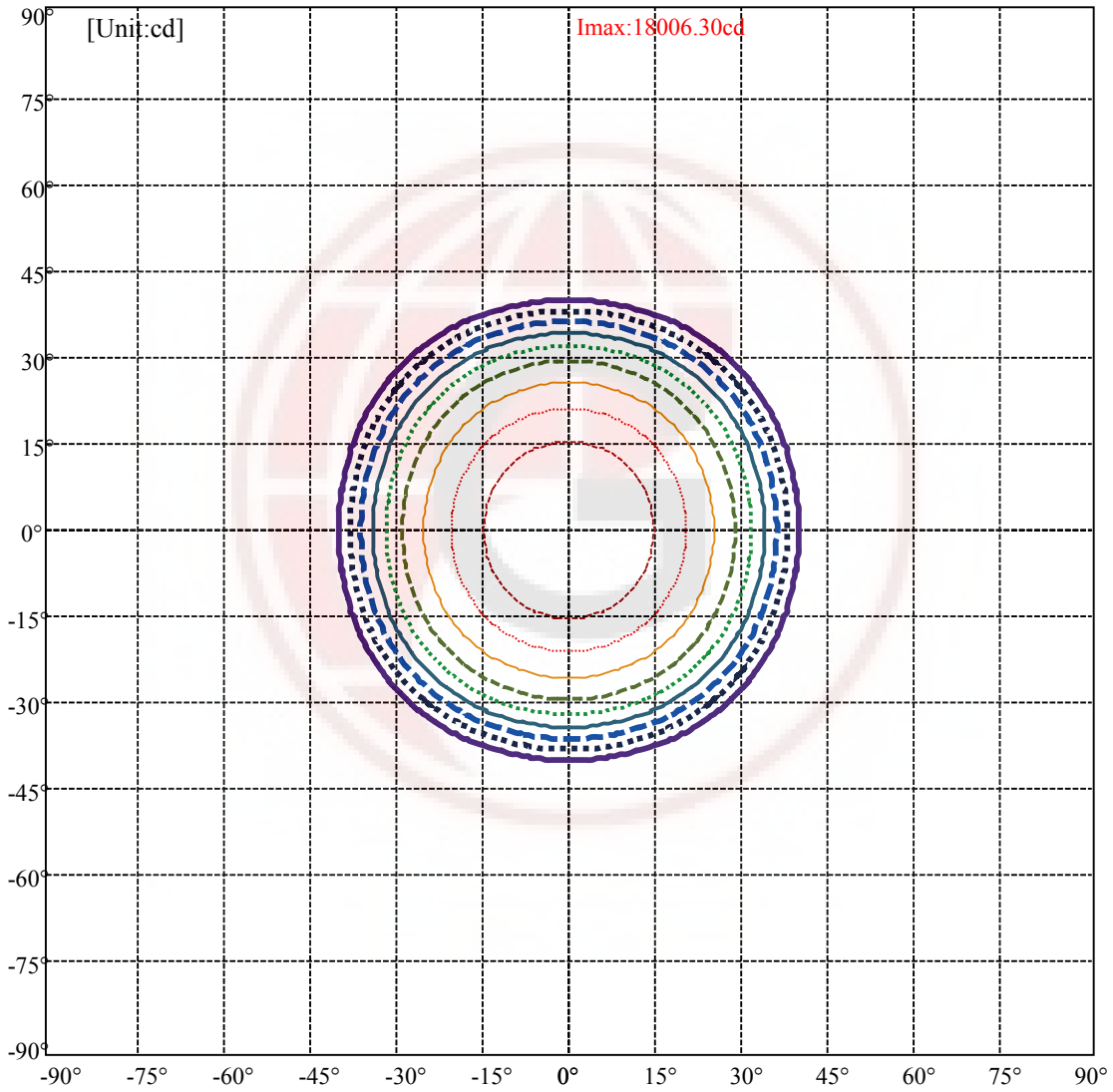


C0/C180: ————
C90/C270: ————

Lux distance Curve



ISO-Intensity(V-H)



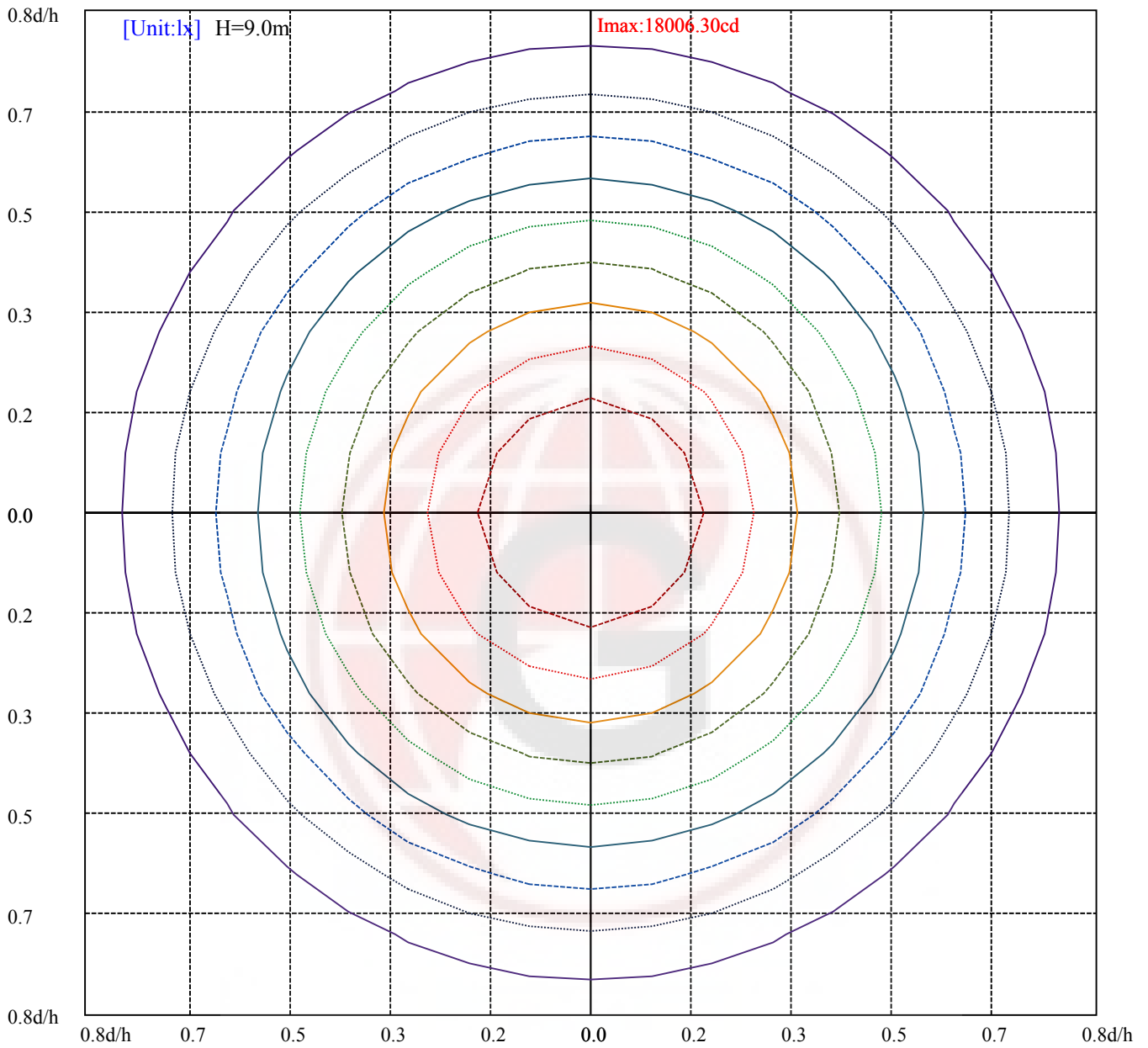
(10%Imax)	1796.58	———
(20%Imax)	3593.16
(30%Imax)	5389.74	- - - - -
(40%Imax)	7186.32	———
(50%Imax)	8982.9
(60%Imax)	10779.5	- - - - -
(70%Imax)	12576.1	———
(80%Imax)	14372.6
(90%Imax)	16169.2	- - - - -

Equipment: GMS1980
Temperature(°C): 25.5

Date: 2015/11/19
Humidity(%): 60.0%

Operator: Johnson Wang
Distance(m): 9.00

ISO illuminance diagram



(10%Emax) 22.16753	———
(20%Emax) 44.33494
(30%Emax) 66.50247	- - - - -
(40%Emax) 88.67	———
(50%Emax) 110.8374
(60%Emax) 133.0049	- - - - -
(70%Emax) 155.1728	———
(80%Emax) 177.3395
(90%Emax) 199.5074	- - - - -

Equipment: GMS1980
 Temperature(°C): 25.5

Date: 2015/11/19
 Humidity(%): 60.0%

Operator: Johnson Wang
 Distance(m): 9.00

GlacialTech Inc. GL-FL150-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	17965.80	17811.90	17244.90	16098.75	14446.35	12583.35	10064.25	6083.10	1310.58
10.0	17945.55	17807.85	17226.68	16088.63	14452.42	12581.33	10076.40	6087.15	1314.23
20.0	17961.75	17803.80	17236.80	16106.85	14472.67	12607.65	10094.63	6105.38	1317.87
30.0	17957.70	17815.95	17228.70	16112.92	14492.92	12613.73	10141.20	6133.73	1310.01
40.0	17957.70	17817.97	17222.63	16141.27	14549.63	12664.35	10181.70	6147.90	1291.95
50.0	17953.65	17805.82	17267.18	16175.70	14606.33	12704.85	10228.28	6176.25	1279.80
60.0	17961.75	17807.85	17259.07	16202.02	14638.73	12735.23	10276.88	6210.68	1267.89
70.0	17961.75	17813.93	17271.22	16214.17	14677.20	12763.58	10311.30	6237.00	1255.50
80.0	17957.70	17815.95	17285.40	16244.55	14681.25	12771.67	10331.55	6251.18	1253.31
90.0	17965.80	17811.90	17285.40	16228.35	14689.35	12765.60	10323.45	6257.25	1254.29
100.0	17941.50	17815.95	17285.40	16244.55	14681.25	12771.67	10331.55	6251.18	1253.31
110.0	17925.30	17813.93	17271.22	16214.17	14677.20	12763.58	10311.30	6237.00	1255.50
120.0	17941.50	17807.85	17259.07	16202.02	14638.73	12735.23	10276.88	6210.68	1267.89
130.0	17933.40	17805.82	17267.18	16175.70	14606.33	12704.85	10228.28	6176.25	1279.80
140.0	17965.80	17817.97	17222.63	16141.27	14549.63	12664.35	10181.70	6147.90	1291.95
150.0	17957.70	17815.95	17228.70	16112.92	14492.92	12613.73	10141.20	6133.73	1310.01
160.0	17973.90	17803.80	17236.80	16106.85	14472.67	12607.65	10094.63	6105.38	1317.87
170.0	17957.70	17807.85	17226.68	16088.63	14452.42	12581.33	10076.40	6087.15	1314.23
180.0	17965.80	17811.90	17244.90	16098.75	14446.35	12583.35	10064.25	6083.10	1310.58
190.0	17945.55	17807.85	17226.68	16088.63	14452.42	12581.33	10076.40	6087.15	1314.23
200.0	17961.75	17803.80	17236.80	16106.85	14472.67	12607.65	10094.63	6105.38	1317.87
210.0	17957.70	17815.95	17228.70	16112.92	14492.92	12613.73	10141.20	6133.73	1310.01
220.0	17957.70	17817.97	17222.63	16141.27	14549.63	12664.35	10181.70	6147.90	1291.95
230.0	17953.65	17805.82	17267.18	16175.70	14606.33	12704.85	10228.28	6176.25	1279.80
240.0	17961.75	17807.85	17259.07	16202.02	14638.73	12735.23	10276.88	6210.68	1267.89
250.0	17961.75	17813.93	17271.22	16214.17	14677.20	12763.58	10311.30	6237.00	1255.50
260.0	17957.70	17815.95	17285.40	16244.55	14681.25	12771.67	10331.55	6251.18	1253.31
270.0	17965.80	17811.90	17285.40	16228.35	14689.35	12765.60	10323.45	6257.25	1254.29
280.0	17998.20	17815.95	17285.40	16244.55	14681.25	12771.67	10331.55	6251.18	1253.31
290.0	18006.30	17813.93	17271.22	16214.17	14677.20	12763.58	10311.30	6237.00	1255.50
300.0	18006.30	17807.85	17259.07	16202.02	14638.73	12735.23	10276.88	6210.68	1267.89
310.0	17982.00	17805.82	17267.18	16175.70	14606.33	12704.85	10228.28	6176.25	1279.80
320.0	17982.00	17817.97	17222.63	16141.27	14549.63	12664.35	10181.70	6147.90	1291.95
330.0	17982.00	17815.95	17228.70	16112.92	14492.92	12613.73	10141.20	6133.73	1310.01
340.0	17982.00	17803.80	17236.80	16106.85	14472.67	12607.65	10094.63	6105.38	1317.87
350.0	17957.70	17807.85	17226.68	16088.63	14452.42	12581.33	10076.40	6087.15	1314.23
360.0	17965.80	17811.90	17244.90	16098.75	14446.35	12583.35	10064.25	6083.10	1310.58

Equipment: GMS1980
 Temperature(°C): 25.5

Date: 2015/11/19
 Humidity(%): 60.0%

Operator: Johnson Wang
 Distance(m): 9.00

GlacialTech Inc. GL-FL150-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	112.83	61.07	46.74	45.93	41.88	18.31	6.16	3.40	0.65
10.0	113.08	60.91	46.98	45.85	43.98	18.06	5.91	3.32	0.65
20.0	113.32	60.26	46.90	45.52	43.58	26.65	7.05	3.40	0.57
30.0	111.70	59.54	47.14	46.17	43.58	30.46	7.45	4.29	0.89
40.0	109.43	58.24	47.39	47.39	45.77	32.72	12.31	5.91	1.70
50.0	107.97	57.27	46.98	46.98	45.44	32.56	11.91	5.75	1.62
60.0	108.14	57.43	46.49	45.44	43.25	30.70	7.29	4.37	0.81
70.0	107.81	57.43	46.41	44.87	43.01	26.81	6.72	3.40	0.57
80.0	106.84	58.00	46.74	45.36	43.82	21.95	6.64	3.32	0.65
90.0	106.03	57.27	46.49	45.44	44.55	19.52	6.89	3.48	0.57
100.0	106.84	58.00	46.74	45.36	43.82	21.95	6.64	3.32	0.65
110.0	107.81	57.43	46.41	44.87	43.01	26.81	6.72	3.40	0.57
120.0	108.14	57.43	46.49	45.44	43.25	30.70	7.29	4.37	0.81
130.0	107.97	57.27	46.98	46.98	45.44	32.56	11.91	5.75	1.62
140.0	109.43	58.24	47.39	47.39	45.77	32.72	12.31	5.91	1.70
150.0	111.70	59.54	47.14	46.17	43.58	30.46	7.45	4.29	0.89
160.0	113.32	60.26	46.90	45.52	43.58	26.65	7.05	3.40	0.57
170.0	113.08	60.91	46.98	45.85	43.98	18.06	5.91	3.32	0.65
180.0	112.83	61.07	46.74	45.93	41.88	18.31	6.16	3.40	0.65
190.0	113.08	60.91	46.98	45.85	43.98	18.06	5.91	3.32	0.65
200.0	113.32	60.26	46.90	45.52	43.58	26.65	7.05	3.40	0.57
210.0	111.70	59.54	47.14	46.17	43.58	30.46	7.45	4.29	0.89
220.0	109.43	58.24	47.39	47.39	45.77	32.72	12.31	5.91	1.70
230.0	107.97	57.27	46.98	46.98	45.44	32.56	11.91	5.75	1.62
240.0	108.14	57.43	46.49	45.44	43.25	30.70	7.29	4.37	0.81
250.0	107.81	57.43	46.41	44.87	43.01	26.81	6.72	3.40	0.57
260.0	106.84	58.00	46.74	45.36	43.82	21.95	6.64	3.32	0.65
270.0	106.03	57.27	46.49	45.44	44.55	19.52	6.89	3.48	0.57
280.0	106.84	58.00	46.74	45.36	43.82	21.95	6.64	3.32	0.65
290.0	107.81	57.43	46.41	44.87	43.01	26.81	6.72	3.40	0.57
300.0	108.14	57.43	46.49	45.44	43.25	30.70	7.29	4.37	0.81
310.0	107.97	57.27	46.98	46.98	45.44	32.56	11.91	5.75	1.62
320.0	109.43	58.24	47.39	47.39	45.77	32.72	12.31	5.91	1.70
330.0	111.70	59.54	47.14	46.17	43.58	30.46	7.45	4.29	0.89
340.0	113.32	60.26	46.90	45.52	43.58	26.65	7.05	3.40	0.57
350.0	113.08	60.91	46.98	45.85	43.98	18.06	5.91	3.32	0.65
360.0	112.83	61.07	46.74	45.93	41.88	18.31	6.16	3.40	0.65

Equipment: GMS1980
 Temperature(°C): 25.5

Date: 2015/11/19
 Humidity(%): 60.0%

Operator: Johnson Wang
 Distance(m): 9.00

Intensity data(cd)

C/γ(°)	90.0
0.0	0.00
10.0	0.00
20.0	0.00
30.0	0.00
40.0	0.16
50.0	0.08
60.0	0.00
70.0	0.00
80.0	0.00
90.0	0.00
100.0	0.00
110.0	0.00
120.0	0.00
130.0	0.08
140.0	0.16
150.0	0.00
160.0	0.00
170.0	0.00
180.0	0.00
190.0	0.00
200.0	0.00
210.0	0.00
220.0	0.16
230.0	0.08
240.0	0.00
250.0	0.00
260.0	0.00
270.0	0.00
280.0	0.00
290.0	0.00
300.0	0.00
310.0	0.08
320.0	0.16
330.0	0.00
340.0	0.00
350.0	0.00
360.0	0.00





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1. Luminaire Specification :

- (1) Input Voltage / Frequency : 240.00 Vac / 50 Hz
- (2) Input Watt : 143.63 W
- (3) Input Current : 0.634 A
- (4) Total Luminous Flux Output : 15995.97 lm
- (5) Luminaire Efficacy : 111.37 lm/W
- (6) Central Intensity : 17965.800 cd
- (7) Maximum Intensity : 18006.300 cd
- (8) PF : 0.943
- (9) Beam Angle : (C0-C180) : 62.8° , (C90-C270) : 63.2°
- (10) Correlated Color Temperature (CCT) : 5048 K
- (11) Duv : +0.00269
- (12) Color Rendering Index (CRI) : 81.8

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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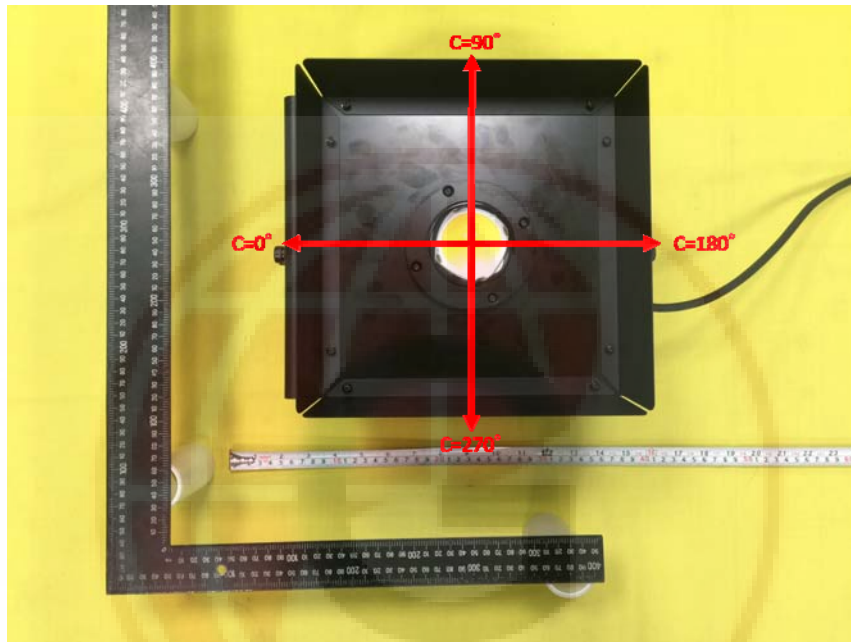
TEL : +886-2-2248-0810

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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	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	2015/11/13	2016/11/11	
L242	DC Standard Light	2015/10/14	2016/10/13	