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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..... : GO1502130201E

Product Name..... : LED Panel Light

Model No : GL-PL0606-V2-CW

Sample No..... : 15021302-1

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

Test Date : March 9, 2015 to March 31, 2015

Issue Date..... : April 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 :

Alex Sung

Project Engineer

Donald Chang

Team Leader

Great One Global Certification Co., Ltd.

Product: GL-PL0606-V2-CW
Manufacturer: GlacialTech Inc.
Sample No.: 15021302-1
Tested By: Alex Sung

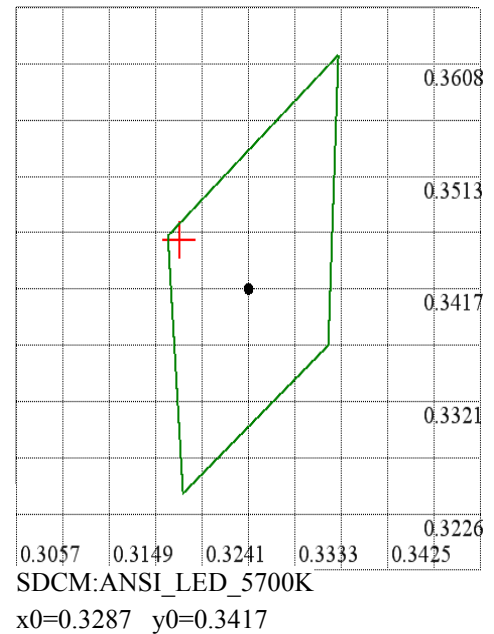
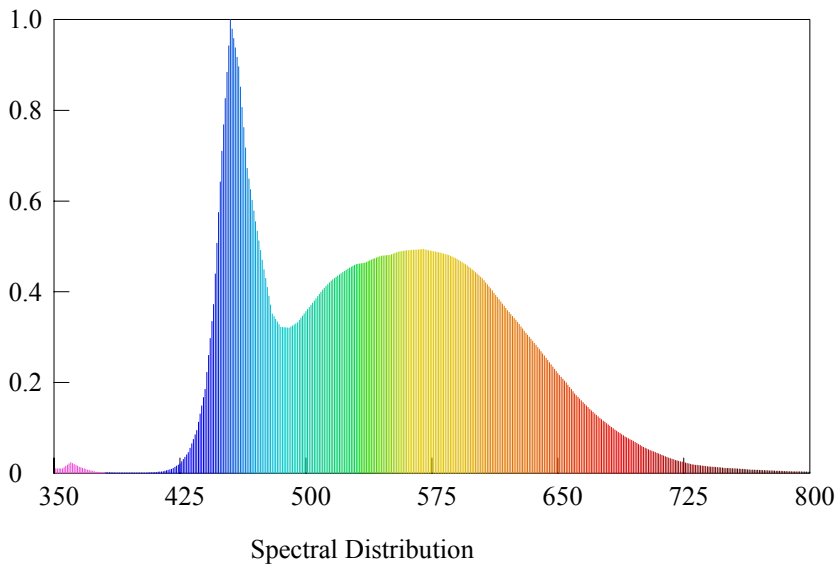
Date: 3-9-2015
Reviewed By: Donald Chang

Test Condition

Temperature: 25.5°C
Spectrum Range: 350-800 nm

RH: 60.0%
Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3218$ $y=0.3459$ $u'=0.1978$ $v'=0.4784$

Correlated Color Temperature: 5968 K

Dominant Wavelength: 506.0 nm(E)

Chromaticity Difference: +0.00729Duv

Purity: 0.0359

Color Ratio: $K_r=30.9\%$ $K_g=55.5\%$ $K_b=13.5\%$

Peak Wavelength: 456.2 nm

Bandwidth: 25nm

Color Tolerance: 0.0 SDCM

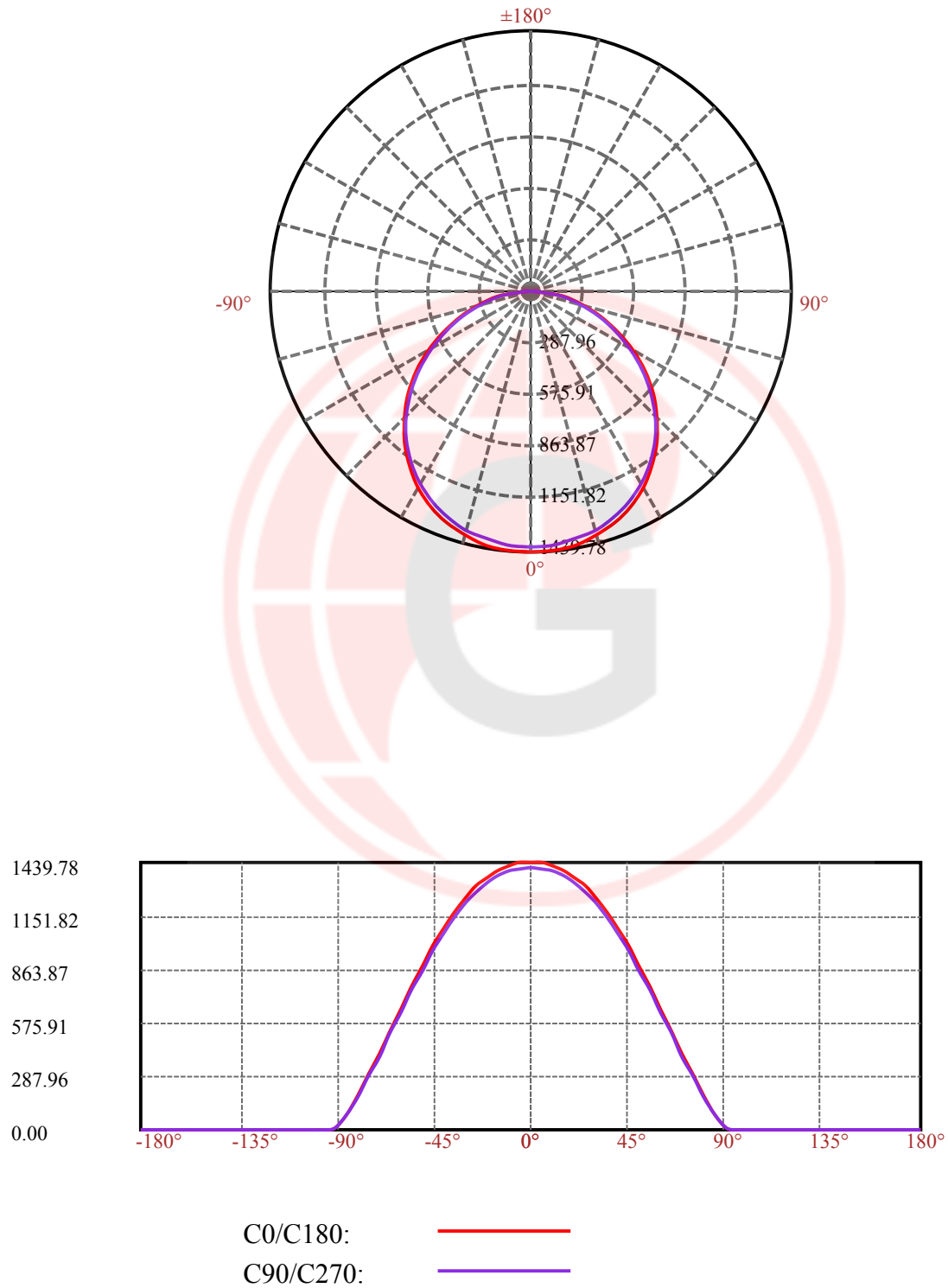
Rendering Index: $R_a=84.0$

Radiant Flux: 10.739 W

R1=83 R2=93 R3=94 R4=78 R5=82 R6=88 R7=85 R8=68

R9=14 R10=83 R11=77 R12=57 R13=87 R14=97 R15=77

Light Distribution Curve [Unit: cd]

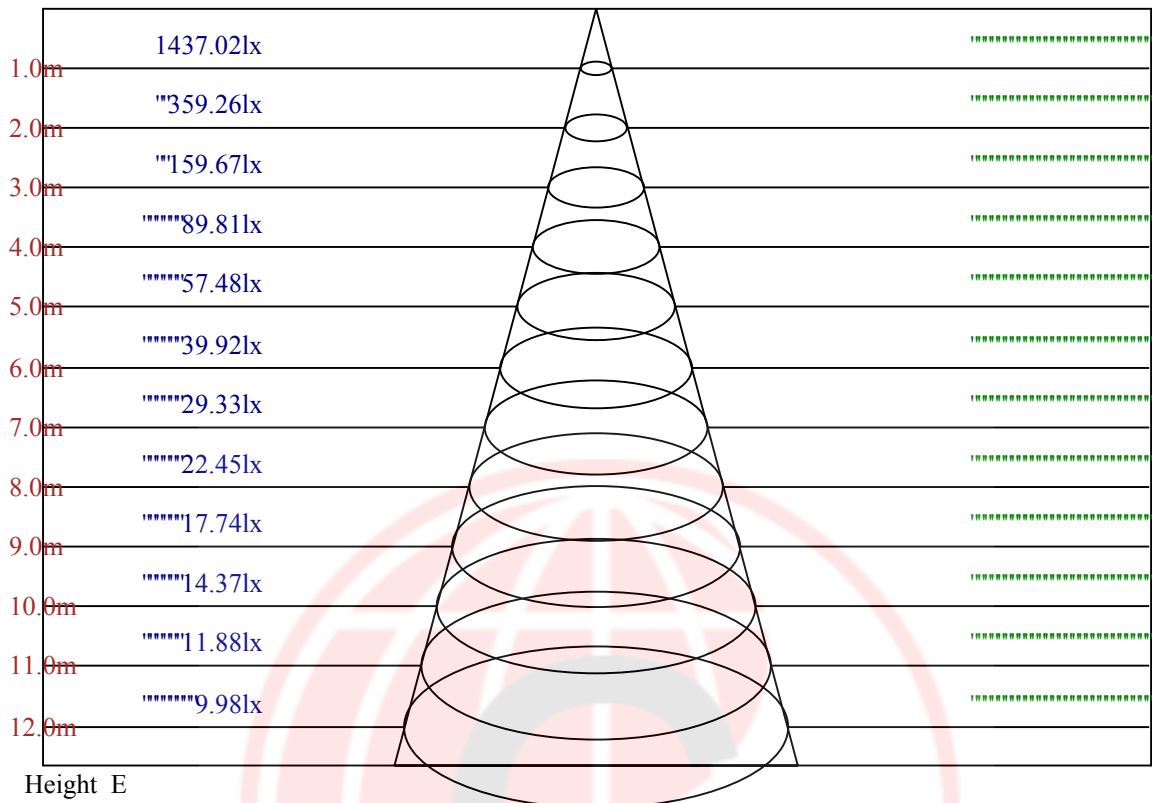


Equipment: HW-1015
Temperature(°C): 25.5

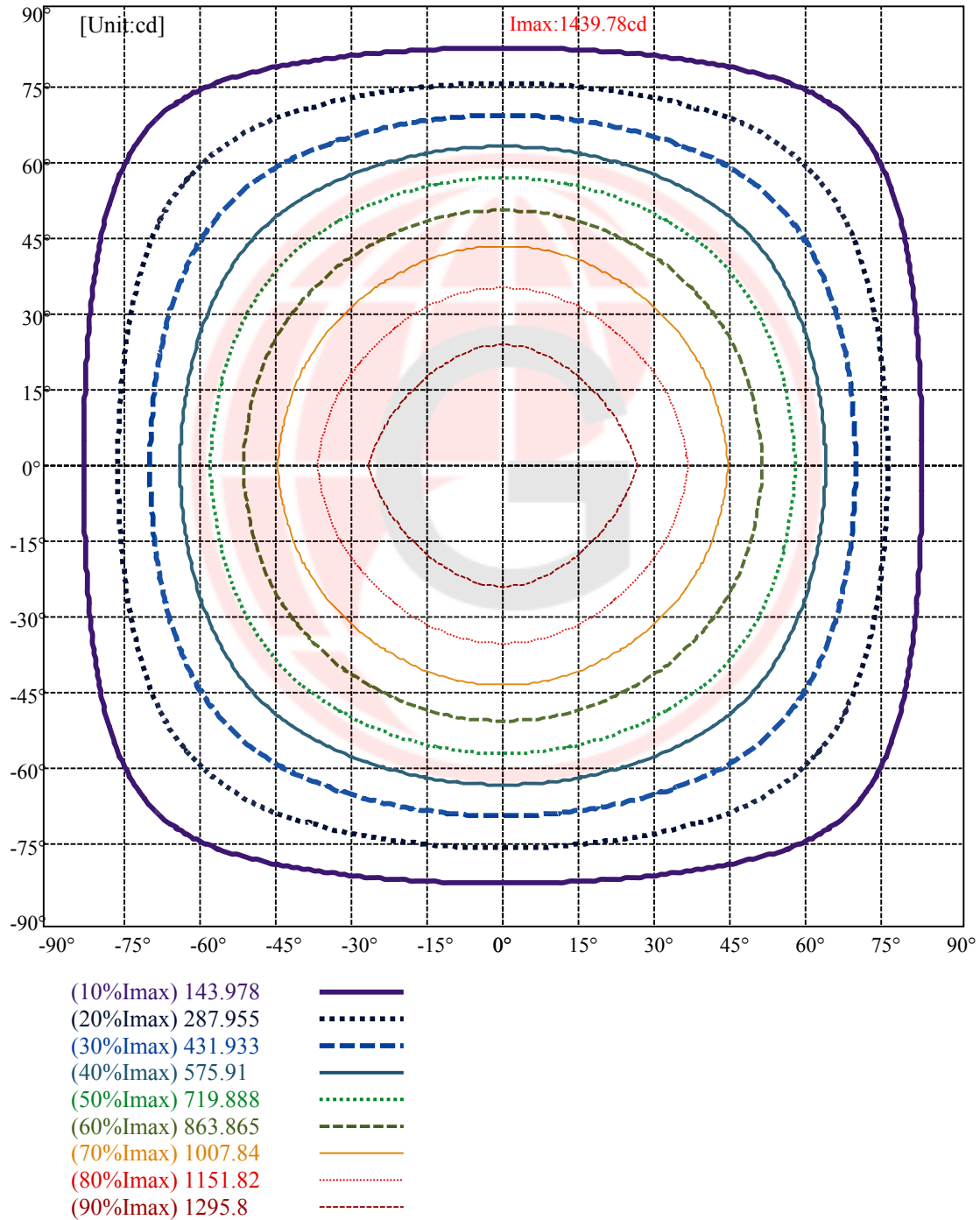
Date: 2015/3/31
Humidity(%): 60.0%

Operator: Crgz'Uwpi
Distance(m): 9.00

Lux distance Curve



ISO-Intensity(V-H)

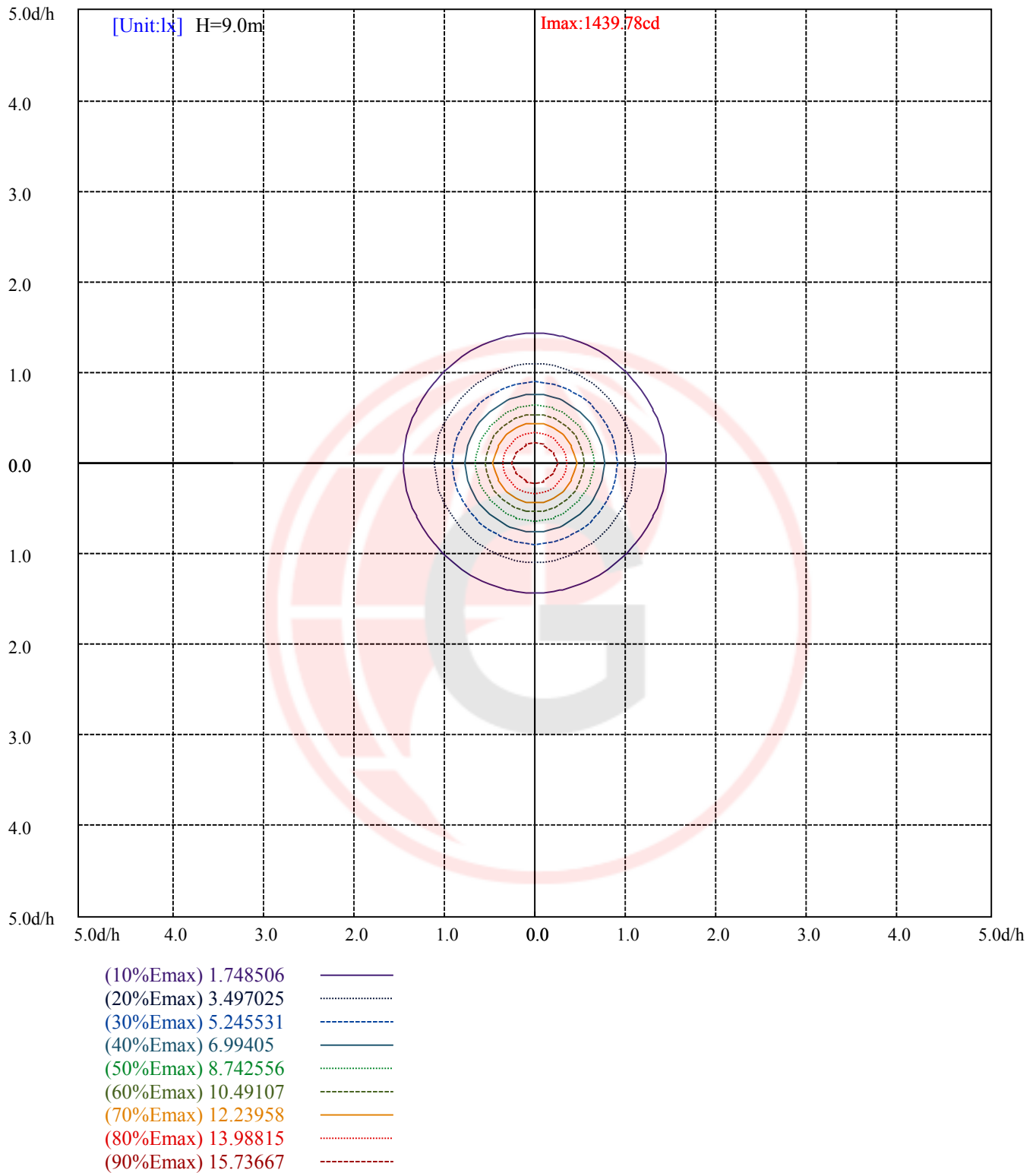


Equipment: HW-1015
Temperature(°C): 25.5

Date: 2015/3/31
Humidity(%): 60.0%

Operator: Crgz"Uwpi
Distance(m): 9.00

ISO illuminance diagram



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

Date: 2015/3/31
Humidity(%): 60.0%

Operator: Matt Hsieh
Distance(m): 9.00

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	1437.02	1439.78	1424.47	1397.86	1360.52	1311.15	1248.25	1173.69	1087.67
10.0	1417.99	1425.30	1410.41	1384.13	1346.12	1295.70	1234.22	1159.43	1074.30
20.0	1406.97	1414.56	1399.15	1372.95	1335.18	1285.67	1225.79	1149.41	1063.67
30.0	1402.35	1407.11	1391.92	1364.93	1327.59	1278.12	1214.90	1138.03	1052.03
40.0	1404.05	1405.94	1389.96	1362.89	1323.64	1272.02	1207.51	1130.54	1044.82
50.0	1404.22	1403.65	1387.81	1361.21	1322.71	1271.62	1208.26	1131.00	1043.71
60.0	1406.32	1400.59	1385.49	1359.61	1323.07	1274.23	1212.69	1136.73	1047.84
70.0	1413.86	1403.49	1388.24	1362.34	1326.01	1276.92	1217.09	1142.63	1056.75
80.0	1417.82	1407.58	1392.45	1366.67	1330.71	1282.01	1221.12	1148.03	1063.00
90.0	1411.83	1406.89	1391.46	1366.43	1330.51	1282.59	1221.32	1148.62	1063.25
100.0	1407.29	1407.58	1392.45	1366.67	1330.71	1282.01	1221.12	1148.03	1063.00
110.0	1402.92	1403.49	1388.24	1362.34	1326.01	1276.92	1217.09	1142.63	1056.75
120.0	1405.11	1400.59	1385.49	1359.61	1323.07	1274.23	1212.69	1136.73	1047.84
130.0	1413.13	1403.65	1387.81	1361.21	1322.71	1271.62	1208.26	1131.00	1043.71
140.0	1418.39	1405.94	1389.96	1362.89	1323.64	1272.02	1207.51	1130.54	1044.82
150.0	1422.12	1407.11	1391.92	1364.93	1327.59	1278.12	1214.90	1138.03	1052.03
160.0	1432.16	1414.56	1399.15	1372.95	1335.18	1285.67	1225.79	1149.41	1063.67
170.0	1443.42	1425.30	1410.41	1384.13	1346.12	1295.70	1234.22	1159.43	1074.30
180.0	1437.02	1439.78	1424.47	1397.86	1360.52	1311.15	1248.25	1173.69	1087.67
190.0	1417.99	1425.30	1410.41	1384.13	1346.12	1295.70	1234.22	1159.43	1074.30
200.0	1406.97	1414.56	1399.15	1372.95	1335.18	1285.67	1225.79	1149.41	1063.67
210.0	1402.35	1407.11	1391.92	1364.93	1327.59	1278.12	1214.90	1138.03	1052.03
220.0	1404.05	1405.94	1389.96	1362.89	1323.64	1272.02	1207.51	1130.54	1044.82
230.0	1404.22	1403.65	1387.81	1361.21	1322.71	1271.62	1208.26	1131.00	1043.71
240.0	1406.32	1400.59	1385.49	1359.61	1323.07	1274.23	1212.69	1136.73	1047.84
250.0	1413.86	1403.49	1388.24	1362.34	1326.01	1276.92	1217.09	1142.63	1056.75
260.0	1417.82	1407.58	1392.45	1366.67	1330.71	1282.01	1221.12	1148.03	1063.00
270.0	1411.83	1406.89	1391.46	1366.43	1330.51	1282.59	1221.32	1148.62	1063.25
280.0	1407.29	1407.58	1392.45	1366.67	1330.71	1282.01	1221.12	1148.03	1063.00
290.0	1402.92	1403.49	1388.24	1362.34	1326.01	1276.92	1217.09	1142.63	1056.75
300.0	1405.11	1400.59	1385.49	1359.61	1323.07	1274.23	1212.69	1136.73	1047.84
310.0	1413.13	1403.65	1387.81	1361.21	1322.71	1271.62	1208.26	1131.00	1043.71
320.0	1418.39	1405.94	1389.96	1362.89	1323.64	1272.02	1207.51	1130.54	1044.82
330.0	1422.12	1407.11	1391.92	1364.93	1327.59	1278.12	1214.90	1138.03	1052.03
340.0	1432.16	1414.56	1399.15	1372.95	1335.18	1285.67	1225.79	1149.41	1063.67
350.0	1443.42	1425.30	1410.41	1384.13	1346.12	1295.70	1234.22	1159.43	1074.30
360.0	1437.02	1439.78	1424.47	1397.86	1360.52	1311.15	1248.25	1173.69	1087.67

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	989.50	882.09	773.10	653.55	531.72	408.56	295.04	184.76	84.85
10.0	977.63	870.14	758.30	641.46	521.70	402.10	288.72	180.67	83.51
20.0	964.22	858.46	747.67	629.86	511.70	394.83	283.18	176.92	82.48
30.0	953.43	846.71	737.61	621.23	505.62	389.06	278.07	175.91	81.45
40.0	946.36	840.25	730.68	615.68	499.85	385.01	275.81	170.79	79.10
50.0	946.06	840.01	728.15	614.10	498.15	382.54	272.61	169.27	77.82
60.0	949.75	842.99	732.89	616.41	499.67	385.26	275.36	171.38	79.12
70.0	959.97	853.34	740.58	622.83	506.51	389.75	277.63	173.16	80.53
80.0	967.30	861.70	749.76	633.10	512.77	395.50	281.96	175.73	80.31
90.0	967.06	862.53	751.88	634.27	514.51	397.22	283.82	177.47	81.65
100.0	967.30	861.70	749.76	633.10	512.77	395.50	281.96	175.73	80.31
110.0	959.97	853.34	740.58	622.83	506.51	389.75	277.63	173.16	80.53
120.0	949.75	842.99	732.89	616.41	499.67	385.26	275.36	171.38	79.12
130.0	946.06	840.01	728.15	614.10	498.15	382.54	272.61	169.27	77.82
140.0	946.36	840.25	730.68	615.68	499.85	385.01	275.81	170.79	79.10
150.0	953.43	846.71	737.61	621.23	505.62	389.06	278.07	175.91	81.45
160.0	964.22	858.46	747.67	629.86	511.70	394.83	283.18	176.92	82.48
170.0	977.63	870.14	758.30	641.46	521.70	402.10	288.72	180.67	83.51
180.0	989.50	882.09	773.10	653.55	531.72	408.56	295.04	184.76	84.85
190.0	977.63	870.14	758.30	641.46	521.70	402.10	288.72	180.67	83.51
200.0	964.22	858.46	747.67	629.86	511.70	394.83	283.18	176.92	82.48
210.0	953.43	846.71	737.61	621.23	505.62	389.06	278.07	175.91	81.45
220.0	946.36	840.25	730.68	615.68	499.85	385.01	275.81	170.79	79.10
230.0	946.06	840.01	728.15	614.10	498.15	382.54	272.61	169.27	77.82
240.0	949.75	842.99	732.89	616.41	499.67	385.26	275.36	171.38	79.12
250.0	959.97	853.34	740.58	622.83	506.51	389.75	277.63	173.16	80.53
260.0	967.30	861.70	749.76	633.10	512.77	395.50	281.96	175.73	80.31
270.0	967.06	862.53	751.88	634.27	514.51	397.22	283.82	177.47	81.65
280.0	967.30	861.70	749.76	633.10	512.77	395.50	281.96	175.73	80.31
290.0	959.97	853.34	740.58	622.83	506.51	389.75	277.63	173.16	80.53
300.0	949.75	842.99	732.89	616.41	499.67	385.26	275.36	171.38	79.12
310.0	946.06	840.01	728.15	614.10	498.15	382.54	272.61	169.27	77.82
320.0	946.36	840.25	730.68	615.68	499.85	385.01	275.81	170.79	79.10
330.0	953.43	846.71	737.61	621.23	505.62	389.06	278.07	175.91	81.45
340.0	964.22	858.46	747.67	629.86	511.70	394.83	283.18	176.92	82.48
350.0	977.63	870.14	758.30	641.46	521.70	402.10	288.72	180.67	83.51
360.0	989.50	882.09	773.10	653.55	531.72	408.56	295.04	184.76	84.85

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

Date: 2015/3/31
Humidity(%): 60.0%

Operator: Crgz"Uwpi
Distance(m): 9.00

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	9.92	1.62	1.13	0.89	0.93	0.85	0.89	0.81	0.81
10.0	8.69	1.48	1.03	0.85	0.81	0.77	0.79	0.75	0.73
20.0	9.52	1.58	0.97	0.85	0.83	0.77	0.79	0.79	0.77
30.0	9.56	1.62	1.07	0.85	0.83	0.83	0.79	0.75	0.77
40.0	9.44	1.58	1.13	0.93	0.85	0.83	0.81	0.75	0.81
50.0	9.48	1.58	1.22	0.97	0.89	0.85	0.81	0.81	0.83
60.0	9.70	1.60	1.22	1.05	0.95	0.91	0.89	0.83	0.81
70.0	9.78	1.38	1.15	0.93	0.91	0.87	0.79	0.85	0.79
80.0	9.76	1.15	1.01	0.95	0.87	0.85	0.85	0.83	0.87
90.0	9.11	1.05	0.97	0.93	0.85	0.81	0.85	0.81	0.81
100.0	9.76	1.15	1.01	0.95	0.87	0.85	0.85	0.83	0.87
110.0	9.78	1.38	1.15	0.93	0.91	0.87	0.79	0.85	0.79
120.0	9.70	1.60	1.22	1.05	0.95	0.91	0.89	0.83	0.81
130.0	9.48	1.58	1.22	0.97	0.89	0.85	0.81	0.81	0.83
140.0	9.44	1.58	1.13	0.93	0.85	0.83	0.81	0.75	0.81
150.0	9.56	1.62	1.07	0.85	0.83	0.83	0.79	0.75	0.77
160.0	9.52	1.58	0.97	0.85	0.83	0.77	0.79	0.79	0.77
170.0	8.69	1.48	1.03	0.85	0.81	0.77	0.79	0.75	0.73
180.0	9.92	1.62	1.13	0.89	0.93	0.85	0.89	0.81	0.81
190.0	8.69	1.48	1.03	0.85	0.81	0.77	0.79	0.75	0.73
200.0	9.52	1.58	0.97	0.85	0.83	0.77	0.79	0.79	0.77
210.0	9.56	1.62	1.07	0.85	0.83	0.83	0.79	0.75	0.77
220.0	9.44	1.58	1.13	0.93	0.85	0.83	0.81	0.75	0.81
230.0	9.48	1.58	1.22	0.97	0.89	0.85	0.81	0.81	0.83
240.0	9.70	1.60	1.22	1.05	0.95	0.91	0.89	0.83	0.81
250.0	9.78	1.38	1.15	0.93	0.91	0.87	0.79	0.85	0.79
260.0	9.76	1.15	1.01	0.95	0.87	0.85	0.85	0.83	0.87
270.0	9.11	1.05	0.97	0.93	0.85	0.81	0.85	0.81	0.81
280.0	9.76	1.15	1.01	0.95	0.87	0.85	0.85	0.83	0.87
290.0	9.78	1.38	1.15	0.93	0.91	0.87	0.79	0.85	0.79
300.0	9.70	1.60	1.22	1.05	0.95	0.91	0.89	0.83	0.81
310.0	9.48	1.58	1.22	0.97	0.89	0.85	0.81	0.81	0.83
320.0	9.44	1.58	1.13	0.93	0.85	0.83	0.81	0.75	0.81
330.0	9.56	1.62	1.07	0.85	0.83	0.83	0.79	0.75	0.77
340.0	9.52	1.58	0.97	0.85	0.83	0.77	0.79	0.79	0.77
350.0	8.69	1.48	1.03	0.85	0.81	0.77	0.79	0.75	0.73
360.0	9.92	1.62	1.13	0.89	0.93	0.85	0.89	0.81	0.81

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

Date: 2015/3/31
Humidity(%): 60.0%

Operator: Crgz"Uwpi
Distance(m): 9.00

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	0.81	0.81	0.85	0.93	0.85	0.89	0.85	0.85	0.81
10.0	0.79	0.79	0.83	0.81	0.81	0.83	0.83	0.87	0.87
20.0	0.83	0.75	0.79	0.81	0.81	0.85	0.87	0.87	0.85
30.0	0.77	0.83	0.77	0.81	0.85	0.85	0.83	0.85	0.79
40.0	0.77	0.83	0.85	0.73	0.83	0.79	0.83	0.83	0.89
50.0	0.83	0.81	0.81	0.85	0.85	0.83	0.83	0.85	0.87
60.0	0.75	0.83	0.89	0.81	0.81	0.83	0.79	0.83	0.87
70.0	0.77	0.83	0.77	0.75	0.77	0.87	0.81	0.85	0.89
80.0	0.83	0.77	0.85	0.83	0.89	0.85	0.81	0.83	0.89
90.0	0.77	0.65	0.81	0.81	0.85	0.85	0.85	0.89	0.89
100.0	0.83	0.77	0.85	0.83	0.89	0.85	0.81	0.83	0.89
110.0	0.77	0.83	0.77	0.75	0.77	0.87	0.81	0.85	0.89
120.0	0.75	0.83	0.89	0.81	0.81	0.83	0.79	0.83	0.87
130.0	0.83	0.81	0.81	0.85	0.85	0.83	0.83	0.85	0.87
140.0	0.77	0.83	0.85	0.73	0.83	0.79	0.83	0.83	0.89
150.0	0.77	0.83	0.77	0.81	0.85	0.85	0.83	0.85	0.79
160.0	0.83	0.75	0.79	0.81	0.81	0.85	0.87	0.87	0.85
170.0	0.79	0.79	0.83	0.81	0.81	0.83	0.83	0.87	0.87
180.0	0.81	0.81	0.85	0.93	0.85	0.89	0.85	0.85	0.81
190.0	0.79	0.79	0.83	0.81	0.81	0.83	0.83	0.87	0.87
200.0	0.83	0.75	0.79	0.81	0.81	0.85	0.87	0.87	0.85
210.0	0.77	0.83	0.77	0.81	0.85	0.85	0.83	0.85	0.79
220.0	0.77	0.83	0.85	0.73	0.83	0.79	0.83	0.83	0.89
230.0	0.83	0.81	0.81	0.85	0.85	0.83	0.83	0.85	0.87
240.0	0.75	0.83	0.89	0.81	0.81	0.83	0.79	0.83	0.87
250.0	0.77	0.83	0.77	0.75	0.77	0.87	0.81	0.85	0.89
260.0	0.83	0.77	0.85	0.83	0.89	0.85	0.81	0.83	0.89
270.0	0.77	0.65	0.81	0.81	0.85	0.85	0.85	0.89	0.89
280.0	0.83	0.77	0.85	0.83	0.89	0.85	0.81	0.83	0.89
290.0	0.77	0.83	0.77	0.75	0.77	0.87	0.81	0.85	0.89
300.0	0.75	0.83	0.89	0.81	0.81	0.83	0.79	0.83	0.87
310.0	0.83	0.81	0.81	0.85	0.85	0.83	0.83	0.85	0.87
320.0	0.77	0.83	0.85	0.73	0.83	0.79	0.83	0.83	0.89
330.0	0.77	0.83	0.77	0.81	0.85	0.85	0.83	0.85	0.79
340.0	0.83	0.75	0.79	0.81	0.81	0.85	0.87	0.87	0.85
350.0	0.79	0.79	0.83	0.81	0.81	0.83	0.83	0.87	0.87
360.0	0.81	0.81	0.85	0.93	0.85	0.89	0.85	0.85	0.81

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

Date: 2015/3/31
Humidity(%): 60.0%

Operator: Crgz"Uwpi
Distance(m): 9.00

Intensity data(cd)

C/γ(°)	180.0
0.0	0.89
10.0	0.89
20.0	0.85
30.0	0.81
40.0	0.89
50.0	0.85
60.0	0.85
70.0	0.93
80.0	0.81
90.0	0.89
100.0	0.81
110.0	0.93
120.0	0.85
130.0	0.85
140.0	0.89
150.0	0.81
160.0	0.85
170.0	0.89
180.0	0.89
190.0	0.89
200.0	0.85
210.0	0.81
220.0	0.89
230.0	0.85
240.0	0.85
250.0	0.93
260.0	0.81
270.0	0.89
280.0	0.81
290.0	0.93
300.0	0.85
310.0	0.85
320.0	0.89
330.0	0.81
340.0	0.85
350.0	0.89
360.0	0.89





Great One Global Certification Co., Ltd.

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FAX : +886-2-2248-0811

1. Luminaire Specification :

- (1) Input Voltage/Frequency : 240.00 Vac / 50 Hz
- (2) Input Watt : 43.64 W
- (3) Input Current : 0.198 A
- (4) Total Luminous Flux Output : 4134.61 lm
- (5) Luminaire Efficacy : 94.74 lm/W
- (6) Central Intensity (cd) : 1437.021 cd
- (7) Maximum Intensity(cd) : 1439.775 cd
- (8) PF : 0.919
- (9) Beam angle: (C0-C180) : 114.6°, (C90-C270) : 114.0°

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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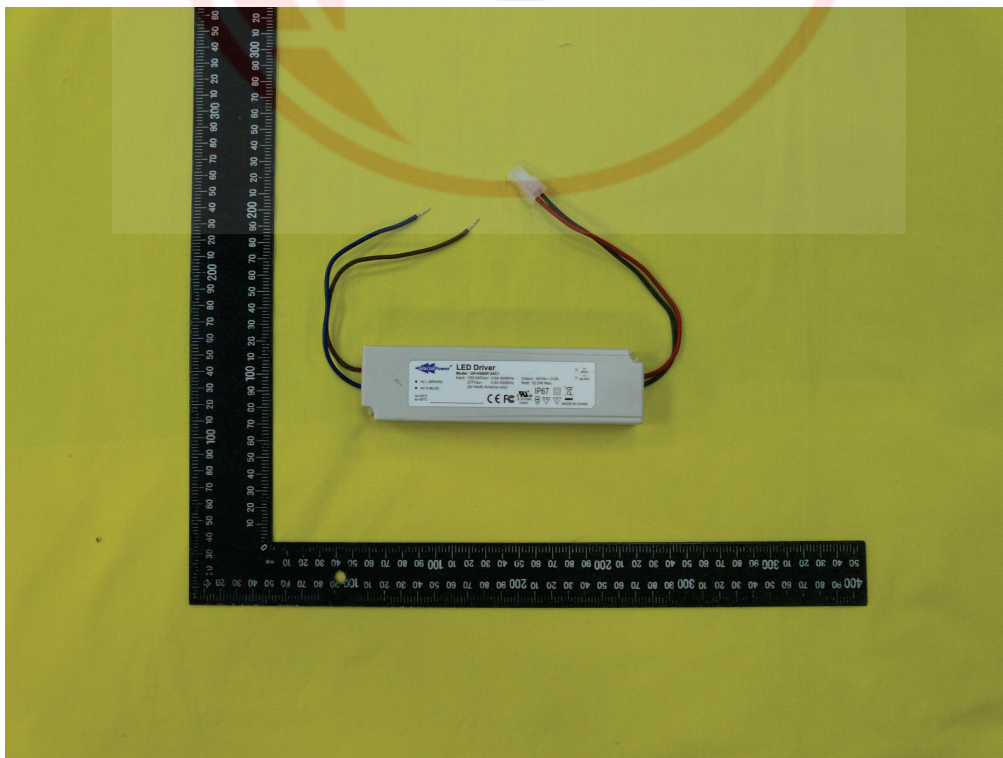
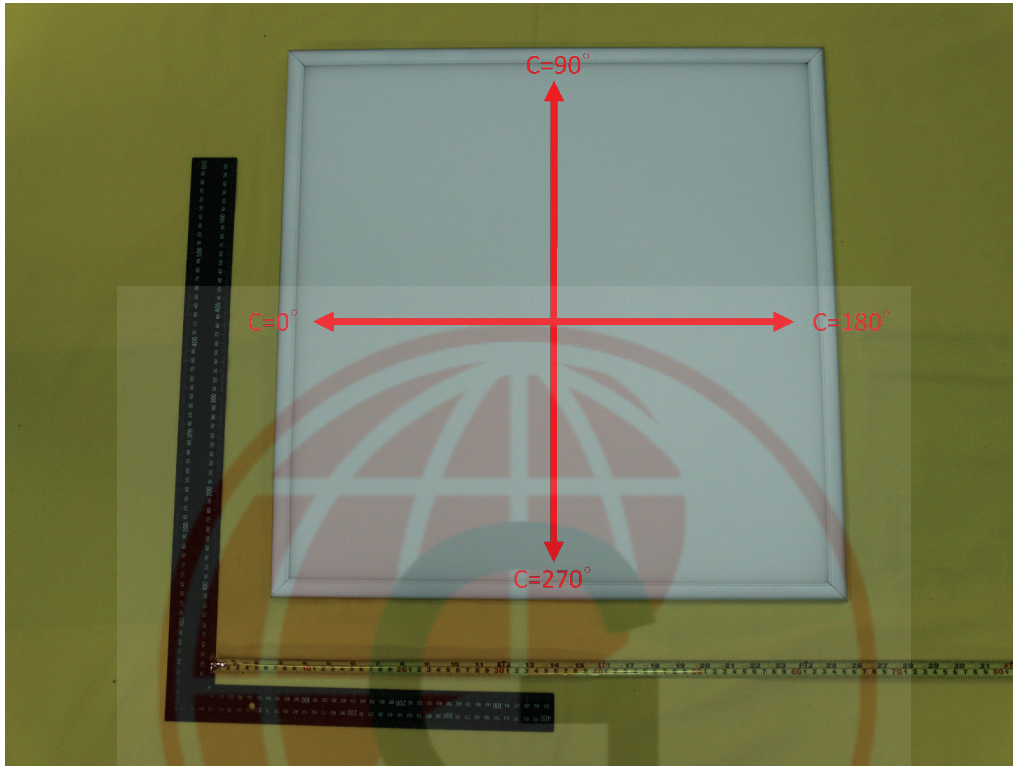
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3. Photograph of EUT :

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	