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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..... : GO1503090401

Product Name..... : LED Flood Light

Model No : GL-FL100-CW

Sample No..... : 15030904-1

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

Test Date : April 20, 2015 to April 21, 2015

Issue Date..... : April 22, 2015

- 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-FL100-CW

Manufacturer: GlacialTech Inc.

Sample No.: 15030904-1

Tested By: Alex Sung

Date:4-21-2015

Reviewed By: Donald Chang

Test Condition

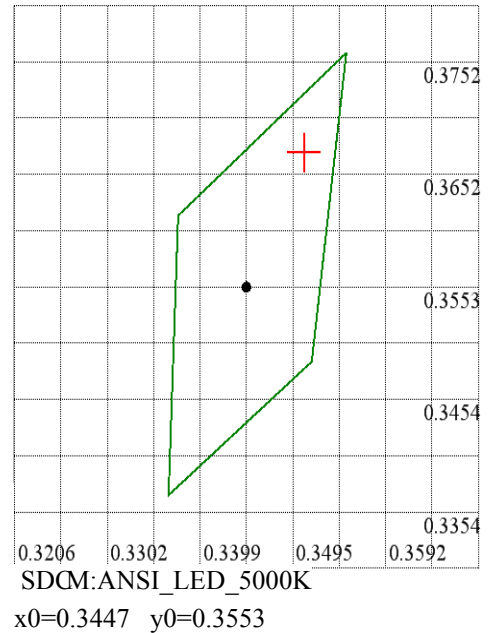
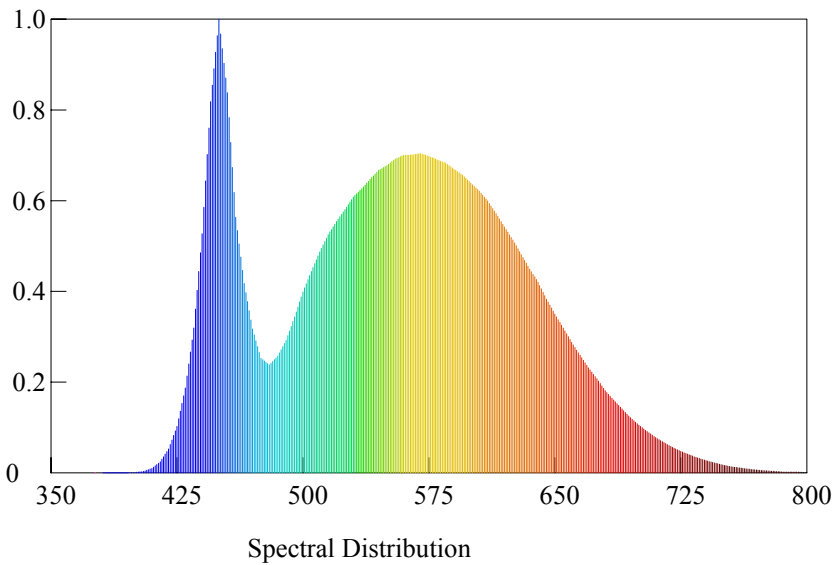
Temperature: 25.6°C

Spectrum Range: 350-800 nm

RH:60.1%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3507$ $y=0.3672$ $u'=0.2092$ $v'=0.4929$

Correlated Color Temperature: 4855 K

Dominant Wavelength: 569.0 nm(E)

Chromaticity Difference: +0.00544Duv

Purity:0.1539

Color Ratio: $K_r=33.1\%$ $K_g=56.5\%$ $K_b=10.4\%$

Peak Wavelength: 450.1 nm

Bandwidth:22.6nm

Color Tolerance: 0.0 SDCM

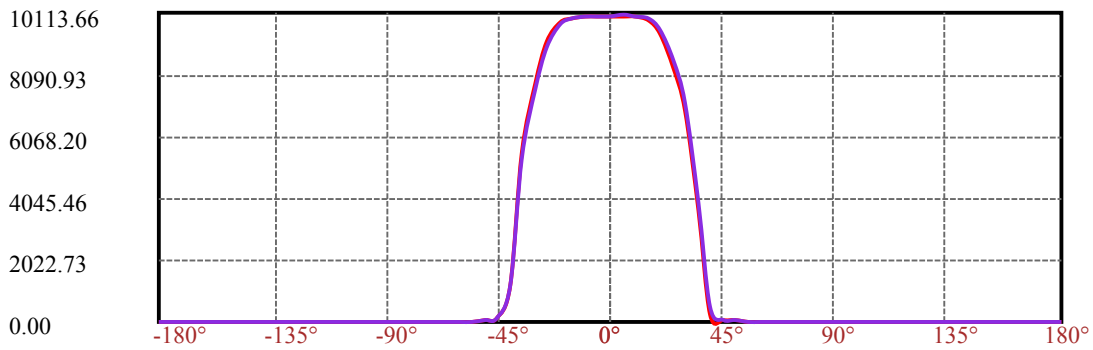
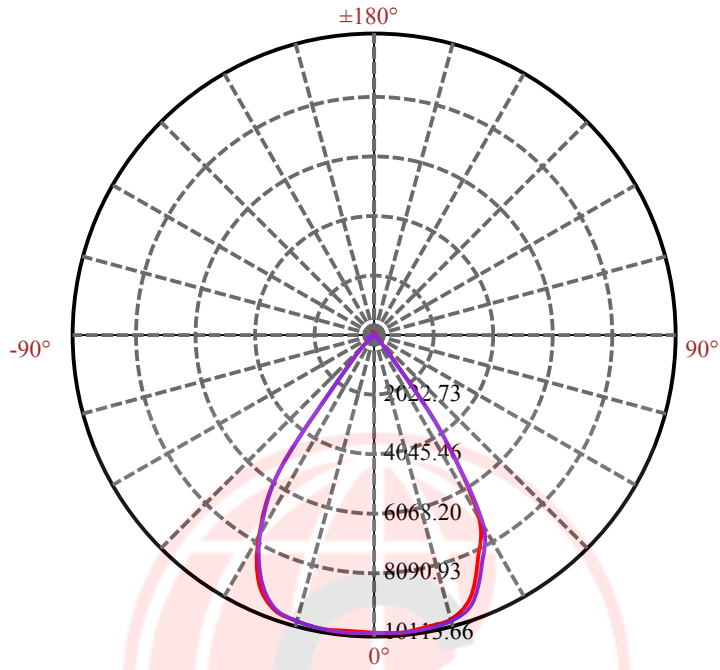
Rendering Index: $R_a=80.1$

Radiant Flux: 26.09 W

R1=77 R2=84 R3=90 R4=79 R5=77 R6=78 R7=88 R8=67

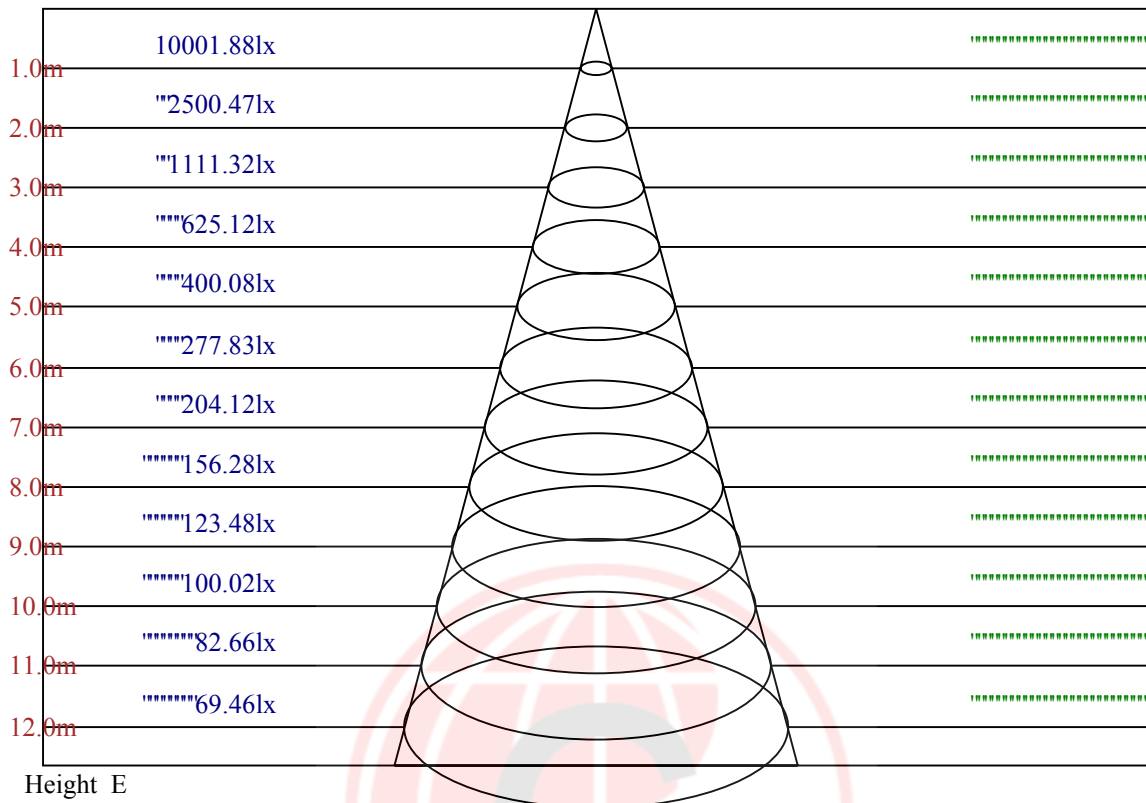
R9=5 R10=63 R11=77 R12=52 R13=79 R14=94 R15=72

Light Distribution Curve [Unit: cd]

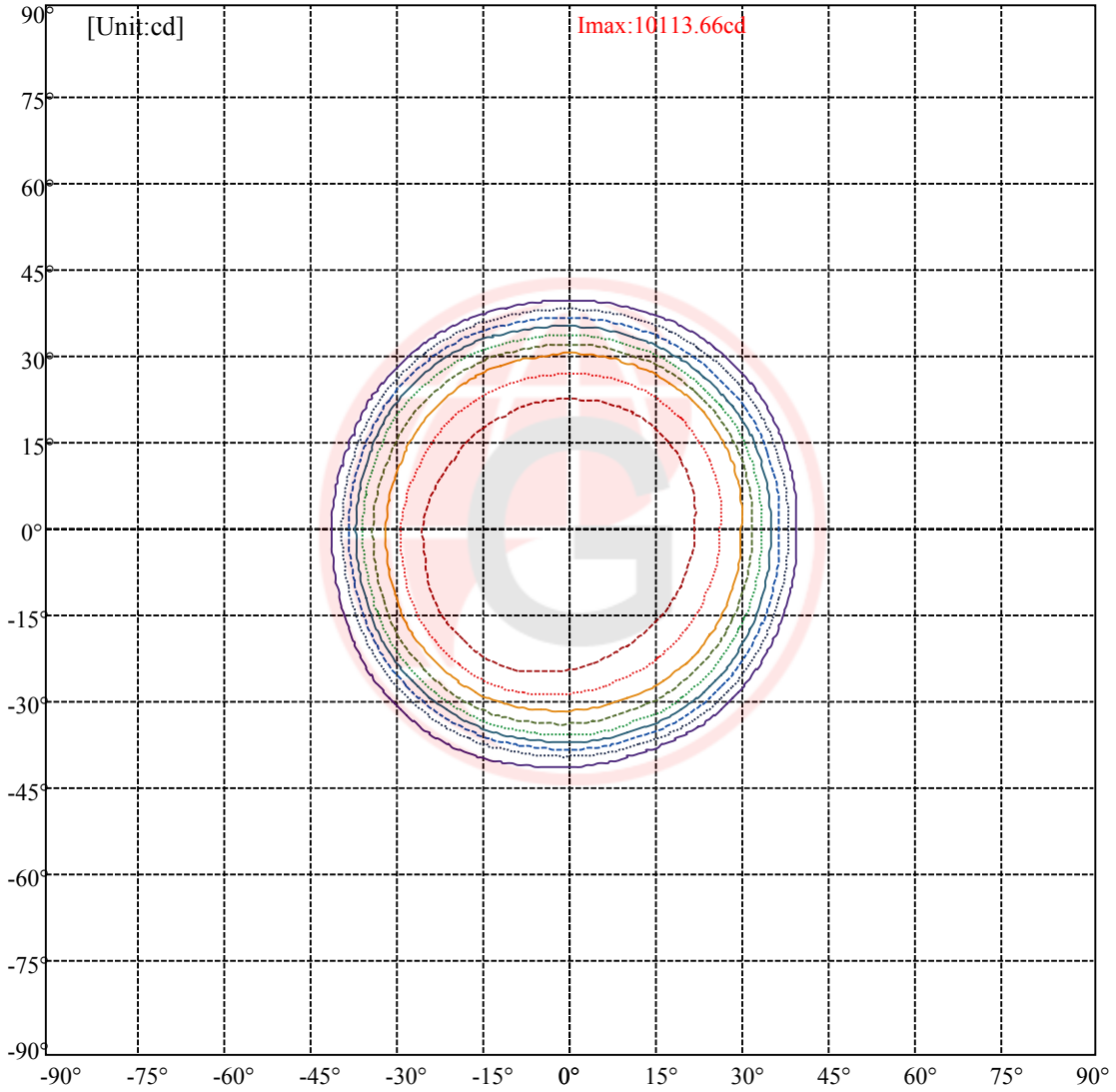


C0/C180: ————
C90/C270: ————

Lux distance Curve



ISO-Intensity(V-H)



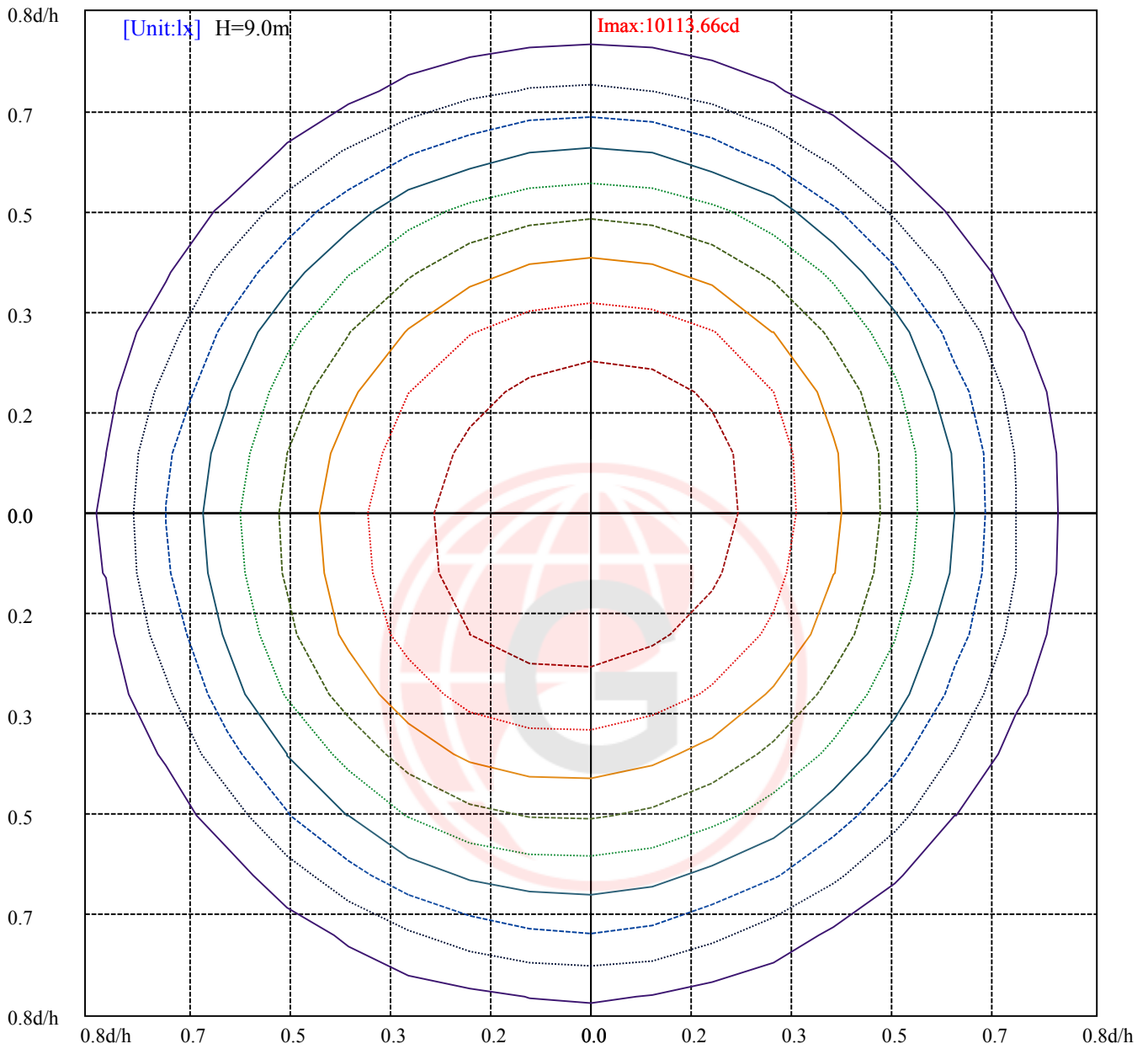
| | |
|-------------------|-------|
| (10%Imax) 1011.12 | — |
| (20%Imax) 2022.23 | ⋯ |
| (30%Imax) 3033.35 | - - - |
| (40%Imax) 4044.47 | — |
| (50%Imax) 5055.59 | ⋯ |
| (60%Imax) 6066.71 | - - - |
| (70%Imax) 7077.82 | — |
| (80%Imax) 8088.94 | ⋯ |
| (90%Imax) 9100.06 | - - - |

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

Date: 2015/4/20
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 9.00

ISO illuminance diagram



| | |
|--------------------|-----------|
| (10%Emax) 12.34852 | ——— |
| (20%Emax) 24.69704 | |
| (30%Emax) 37.04556 | - - - - - |
| (40%Emax) 49.39395 | ——— |
| (50%Emax) 61.74247 | |
| (60%Emax) 74.09099 | - - - - - |
| (70%Emax) 86.43951 | ——— |
| (80%Emax) 98.78802 | |
| (90%Emax) 111.1365 | - - - - - |

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

Date: 2015/4/20
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 9.00

GlacialTech Inc. GL-FL100-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 | 10001.88 | 9996.21 | 9972.72 | 9841.50 | 9396.81 | 8296.83 | 6924.69 | 3666.06 | 281.48 |
| 10.0 | 9998.64 | 10010.79 | 10008.36 | 9911.97 | 9485.10 | 8473.41 | 7089.12 | 3841.83 | 434.97 |
| 20.0 | 10000.26 | 10018.89 | 10033.47 | 9945.18 | 9566.10 | 8533.35 | 7147.44 | 3798.90 | 426.06 |
| 30.0 | 10001.88 | 10029.42 | 10053.72 | 9989.73 | 9601.74 | 8529.30 | 7119.90 | 3763.26 | 430.11 |
| 40.0 | 10001.88 | 10031.85 | 10065.06 | 10012.41 | 9621.99 | 8509.05 | 7191.18 | 3486.24 | 456.84 |
| 50.0 | 10002.69 | 10031.04 | 10069.11 | 10019.70 | 9630.90 | 8538.21 | 7107.75 | 3531.60 | 410.67 |
| 60.0 | 10005.12 | 10031.85 | 10068.30 | 10017.27 | 9669.78 | 8589.24 | 7160.40 | 3606.12 | 495.72 |
| 70.0 | 10006.74 | 10031.85 | 10056.15 | 9997.02 | 9636.57 | 8587.62 | 7136.91 | 3698.46 | 482.76 |
| 80.0 | 10009.98 | 10026.99 | 10039.14 | 9964.62 | 9594.45 | 8548.74 | 7204.14 | 3845.07 | 474.66 |
| 90.0 | 10008.36 | 10025.37 | 10016.46 | 9934.65 | 9566.10 | 8514.72 | 7171.74 | 3873.42 | 478.71 |
| 100.0 | 10009.98 | 10018.89 | 9992.97 | 9901.44 | 9580.68 | 8568.99 | 7134.48 | 4021.65 | 466.56 |
| 110.0 | 10009.98 | 10014.03 | 9975.96 | 9870.66 | 9558.00 | 8614.35 | 7201.71 | 4142.34 | 494.91 |
| 120.0 | 10009.17 | 10005.12 | 9954.90 | 9835.02 | 9543.42 | 8584.38 | 7269.75 | 4480.92 | 629.37 |
| 130.0 | 10011.60 | 10003.50 | 9943.56 | 9823.68 | 9556.38 | 8651.61 | 7311.87 | 4645.35 | 678.78 |
| 140.0 | 10009.17 | 10002.69 | 9942.75 | 9827.73 | 9582.30 | 8748.00 | 7365.33 | 4811.40 | 749.25 |
| 150.0 | 10003.50 | 9998.64 | 9947.61 | 9843.12 | 9601.74 | 8772.30 | 7482.78 | 5109.48 | 941.22 |
| 160.0 | 10004.31 | 9997.83 | 9957.33 | 9865.80 | 9663.30 | 8910.00 | 7524.90 | 5120.82 | 927.45 |
| 170.0 | 9998.64 | 9994.59 | 9975.15 | 9905.49 | 9719.19 | 9053.37 | 7673.13 | 5393.79 | 1126.71 |
| 180.0 | 9992.97 | 9990.54 | 9992.16 | 9950.04 | 9794.52 | 9157.86 | 7785.72 | 5503.95 | 1208.52 |
| 190.0 | 9998.64 | 10000.26 | 10015.65 | 10001.88 | 9840.69 | 9161.91 | 7856.19 | 5493.42 | 1202.45 |
| 200.0 | 10000.26 | 10006.74 | 10034.28 | 10050.48 | 9930.60 | 9349.83 | 7952.58 | 5555.79 | 1232.50 |
| 210.0 | 10001.88 | 10009.98 | 10052.91 | 10091.79 | 9988.92 | 9422.73 | 7993.08 | 5723.46 | 1361.12 |
| 220.0 | 10001.88 | 10014.84 | 10059.39 | 10111.23 | 10031.85 | 9416.25 | 7967.97 | 5597.10 | 1357.16 |
| 230.0 | 10002.69 | 10013.22 | 10061.82 | 10113.66 | 10035.90 | 9421.11 | 7976.07 | 5656.23 | 1442.04 |
| 240.0 | 10005.12 | 10009.98 | 10050.48 | 10086.93 | 9994.59 | 9397.62 | 7974.45 | 5658.66 | 1491.37 |
| 250.0 | 10006.74 | 10009.17 | 10030.23 | 10047.24 | 9913.59 | 9301.23 | 7916.13 | 5624.64 | 1387.94 |
| 260.0 | 10009.98 | 9998.64 | 10005.12 | 9988.11 | 9818.82 | 9082.53 | 7699.86 | 5426.19 | 1250.07 |
| 270.0 | 10008.36 | 9995.40 | 9982.44 | 9926.55 | 9734.58 | 8954.55 | 7581.60 | 5344.38 | 1184.06 |
| 280.0 | 10009.98 | 9984.87 | 9954.90 | 9873.90 | 9650.34 | 8825.76 | 7469.01 | 5239.08 | 1106.46 |
| 290.0 | 10009.98 | 9980.82 | 9928.17 | 9818.82 | 9557.19 | 8662.14 | 7315.92 | 4878.63 | 917.41 |
| 300.0 | 10009.17 | 9980.82 | 9912.78 | 9778.32 | 9485.91 | 8574.66 | 7232.49 | 4889.16 | 824.99 |
| 310.0 | 10011.60 | 9979.20 | 9902.25 | 9752.40 | 9419.49 | 8419.95 | 7139.34 | 4537.62 | 772.66 |
| 320.0 | 10009.17 | 9978.39 | 9902.25 | 9745.92 | 9392.76 | 8365.68 | 7092.36 | 4393.44 | 532.49 |
| 330.0 | 10003.50 | 9980.82 | 9913.59 | 9757.26 | 9386.28 | 8334.90 | 7007.31 | 4095.36 | 475.23 |
| 340.0 | 10004.31 | 9987.30 | 9932.22 | 9781.56 | 9371.70 | 8289.54 | 6979.77 | 3969.00 | 371.79 |
| 350.0 | 9998.64 | 9990.54 | 9949.23 | 9809.10 | 9414.63 | 8341.38 | 6971.67 | 3871.80 | 398.20 |
| 360.0 | 10001.88 | 9996.21 | 9972.72 | 9841.50 | 9396.81 | 8296.83 | 6924.69 | 3666.06 | 281.48 |

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

Date: 2015/4/20
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

GlacialTech Inc. GL-FL100-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 | 69.74 | 34.59 | 25.43 | 25.35 | 22.28 | 5.83 | 5.02 | 2.35 | 0.32 |
| 10.0 | 73.87 | 36.94 | 25.84 | 25.52 | 23.17 | 6.72 | 5.02 | 3.32 | 0.41 |
| 20.0 | 70.96 | 36.21 | 26.16 | 26.08 | 23.25 | 11.02 | 5.18 | 3.81 | 0.49 |
| 30.0 | 69.90 | 35.80 | 26.89 | 26.00 | 22.84 | 14.50 | 5.59 | 4.37 | 0.89 |
| 40.0 | 69.82 | 37.75 | 27.05 | 26.33 | 22.68 | 13.45 | 5.43 | 4.05 | 0.65 |
| 50.0 | 73.31 | 35.56 | 26.81 | 26.65 | 20.74 | 5.43 | 4.37 | 2.84 | 0.24 |
| 60.0 | 73.06 | 34.34 | 26.65 | 25.03 | 7.78 | 5.27 | 3.89 | 2.11 | 0.16 |
| 70.0 | 73.22 | 34.75 | 25.68 | 23.49 | 5.18 | 5.02 | 3.65 | 1.54 | 0.16 |
| 80.0 | 76.14 | 34.59 | 24.87 | 17.82 | 4.54 | 4.21 | 2.35 | 1.05 | 0.08 |
| 90.0 | 79.62 | 34.99 | 24.22 | 15.07 | 4.37 | 3.89 | 2.67 | 1.05 | 0.16 |
| 100.0 | 76.79 | 35.15 | 24.54 | 17.17 | 4.86 | 4.54 | 3.32 | 1.46 | 0.16 |
| 110.0 | 73.71 | 34.91 | 25.27 | 22.44 | 5.18 | 4.94 | 3.73 | 1.94 | 0.16 |
| 120.0 | 74.84 | 33.70 | 25.92 | 23.73 | 10.13 | 5.10 | 3.89 | 2.51 | 0.32 |
| 130.0 | 76.38 | 34.83 | 26.00 | 25.11 | 21.71 | 5.18 | 4.62 | 3.16 | 0.41 |
| 140.0 | 80.60 | 35.72 | 26.41 | 25.03 | 23.41 | 15.39 | 5.18 | 4.21 | 0.97 |
| 150.0 | 83.59 | 36.69 | 26.81 | 24.87 | 23.81 | 16.85 | 5.18 | 4.37 | 1.05 |
| 160.0 | 88.86 | 35.24 | 26.73 | 24.87 | 24.54 | 15.07 | 5.18 | 4.13 | 0.65 |
| 170.0 | 96.71 | 38.07 | 26.57 | 25.11 | 24.95 | 10.85 | 5.10 | 3.73 | 0.57 |
| 180.0 | 102.30 | 40.18 | 27.14 | 25.43 | 25.35 | 9.56 | 5.10 | 3.00 | 0.81 |
| 190.0 | 102.06 | 39.85 | 27.14 | 25.43 | 25.43 | 10.94 | 5.27 | 3.40 | 0.49 |
| 200.0 | 99.06 | 41.15 | 27.70 | 25.43 | 25.43 | 15.55 | 5.51 | 4.37 | 0.73 |
| 210.0 | 98.01 | 44.39 | 28.51 | 25.76 | 25.11 | 17.66 | 5.67 | 4.78 | 1.30 |
| 220.0 | 95.74 | 45.12 | 28.19 | 25.68 | 24.87 | 16.85 | 5.75 | 4.54 | 1.46 |
| 230.0 | 95.42 | 45.77 | 27.05 | 24.79 | 22.68 | 5.75 | 5.35 | 3.81 | 0.57 |
| 240.0 | 95.18 | 45.44 | 26.81 | 23.00 | 14.50 | 5.51 | 4.54 | 3.16 | 0.41 |
| 250.0 | 93.80 | 45.44 | 26.24 | 21.95 | 5.75 | 5.27 | 3.81 | 2.19 | 0.32 |
| 260.0 | 94.85 | 43.82 | 25.43 | 20.01 | 5.02 | 4.62 | 3.00 | 1.13 | 0.32 |
| 270.0 | 96.07 | 44.06 | 25.27 | 18.47 | 4.86 | 4.29 | 2.84 | 1.38 | 0.24 |
| 280.0 | 91.45 | 43.74 | 24.95 | 19.52 | 5.27 | 4.62 | 3.16 | 1.94 | 0.24 |
| 290.0 | 84.00 | 42.36 | 25.35 | 22.11 | 5.51 | 5.02 | 3.40 | 2.27 | 0.32 |
| 300.0 | 80.84 | 42.28 | 25.52 | 23.00 | 11.58 | 5.10 | 3.73 | 2.59 | 0.32 |
| 310.0 | 77.11 | 40.18 | 25.11 | 24.06 | 20.90 | 5.18 | 4.21 | 3.16 | 0.32 |
| 320.0 | 72.41 | 36.13 | 25.19 | 24.38 | 22.68 | 14.90 | 4.94 | 4.13 | 0.81 |
| 330.0 | 70.55 | 35.40 | 25.19 | 24.46 | 22.84 | 15.55 | 5.10 | 4.37 | 0.81 |
| 340.0 | 69.42 | 35.07 | 25.11 | 24.71 | 23.09 | 10.53 | 5.18 | 3.89 | 0.41 |
| 350.0 | 71.20 | 35.48 | 24.95 | 24.71 | 22.68 | 5.99 | 5.10 | 3.16 | 0.41 |
| 360.0 | 69.74 | 34.59 | 25.43 | 25.35 | 22.28 | 5.83 | 5.02 | 2.35 | 0.32 |

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

Date: 2015/4/20
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

GlacialTech Inc. GL-FL100-CW

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 | 0.08 | 0.08 | 0.16 | 0.08 | 0.08 | 0.08 | 0.16 | 0.24 | 0.57 |
| 10.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.41 |
| 20.0 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.49 |
| 30.0 | 0.24 | 0.89 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.57 |
| 40.0 | 0.16 | 0.16 | 0.16 | 0.08 | 0.16 | 0.00 | 0.08 | 0.16 | 0.57 |
| 50.0 | 0.08 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.57 |
| 60.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.49 |
| 70.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.24 | 0.57 |
| 80.0 | 0.08 | 0.08 | 0.08 | 0.16 | 0.00 | 0.08 | 0.08 | 0.24 | 0.49 |
| 90.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.24 | 0.49 |
| 100.0 | 0.08 | 0.00 | 0.08 | 0.00 | 0.08 | 0.16 | 0.08 | 0.24 | 0.49 |
| 110.0 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.08 | 0.08 | 0.24 | 0.41 |
| 120.0 | 0.08 | 0.08 | 0.08 | 0.00 | 0.08 | 0.08 | 0.08 | 0.24 | 0.41 |
| 130.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 140.0 | 0.16 | 0.41 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.49 |
| 150.0 | 0.24 | 0.57 | 0.24 | 0.08 | 0.08 | 0.16 | 0.16 | 0.16 | 0.41 |
| 160.0 | 0.08 | 0.16 | 0.00 | 0.08 | 0.08 | 0.16 | 0.16 | 0.16 | 0.41 |
| 170.0 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.41 |
| 180.0 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 190.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.16 | 0.49 |
| 200.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 210.0 | 0.24 | 0.65 | 0.41 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 220.0 | 0.16 | 0.32 | 0.16 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.41 |
| 230.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 240.0 | 0.08 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 250.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.32 |
| 260.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.00 | 0.08 | 0.08 | 0.16 | 0.41 |
| 270.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.41 |
| 280.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.08 | 0.08 | 0.24 | 0.41 |
| 290.0 | 0.08 | 0.08 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.41 |
| 300.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.24 | 0.49 |
| 310.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.41 |
| 320.0 | 0.08 | 0.16 | 0.16 | 0.08 | 0.08 | 0.16 | 0.08 | 0.16 | 0.41 |
| 330.0 | 0.08 | 0.24 | 0.16 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.49 |
| 340.0 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | 0.16 | 0.49 |
| 350.0 | 0.16 | 0.08 | 0.08 | 0.08 | 0.16 | 0.08 | 0.08 | 0.16 | 0.49 |
| 360.0 | 0.08 | 0.08 | 0.16 | 0.08 | 0.08 | 0.08 | 0.16 | 0.24 | 0.57 |

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

Date: 2015/4/20
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

GlacialTech Inc. GL-FL100-CW

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 | 1.05 | 1.54 | 2.03 | 2.51 | 2.75 | 3.16 | 3.24 | 3.16 | 3.56 |
| 10.0 | 0.89 | 1.38 | 1.94 | 2.19 | 2.59 | 2.75 | 3.00 | 3.24 | 3.40 |
| 20.0 | 0.97 | 1.54 | 1.86 | 2.27 | 2.51 | 2.84 | 2.92 | 3.24 | 3.32 |
| 30.0 | 0.97 | 1.38 | 1.94 | 2.27 | 2.59 | 2.75 | 3.00 | 3.16 | 3.32 |
| 40.0 | 0.89 | 1.46 | 1.86 | 2.19 | 2.51 | 2.75 | 2.84 | 3.08 | 3.40 |
| 50.0 | 0.89 | 1.38 | 1.86 | 2.11 | 2.51 | 2.75 | 2.92 | 3.08 | 3.24 |
| 60.0 | 0.89 | 1.38 | 1.86 | 2.03 | 2.35 | 2.67 | 2.75 | 3.08 | 3.24 |
| 70.0 | 0.97 | 1.30 | 1.78 | 2.03 | 2.35 | 2.67 | 2.75 | 3.00 | 3.24 |
| 80.0 | 0.89 | 1.30 | 1.78 | 1.94 | 2.43 | 2.67 | 2.75 | 3.00 | 3.08 |
| 90.0 | 0.89 | 1.22 | 1.70 | 1.94 | 2.43 | 2.67 | 2.75 | 2.92 | 3.00 |
| 100.0 | 0.89 | 1.22 | 1.70 | 2.03 | 2.35 | 2.67 | 2.75 | 3.00 | 3.08 |
| 110.0 | 0.89 | 1.30 | 1.62 | 1.94 | 2.35 | 2.59 | 2.75 | 3.00 | 3.16 |
| 120.0 | 0.81 | 1.30 | 1.62 | 2.03 | 2.35 | 2.59 | 2.75 | 2.92 | 3.24 |
| 130.0 | 0.89 | 1.22 | 1.70 | 2.03 | 2.35 | 2.51 | 2.75 | 3.00 | 3.24 |
| 140.0 | 0.81 | 1.30 | 1.70 | 2.03 | 2.35 | 2.59 | 2.75 | 3.00 | 3.24 |
| 150.0 | 0.81 | 1.30 | 1.78 | 2.03 | 2.43 | 2.67 | 2.84 | 3.08 | 3.24 |
| 160.0 | 0.73 | 1.30 | 1.78 | 2.03 | 2.43 | 2.67 | 2.84 | 3.16 | 3.32 |
| 170.0 | 0.81 | 1.30 | 1.78 | 2.03 | 2.51 | 2.75 | 2.75 | 3.16 | 3.24 |
| 180.0 | 0.73 | 1.22 | 1.78 | 2.11 | 2.51 | 2.67 | 2.84 | 3.16 | 3.32 |
| 190.0 | 0.73 | 1.30 | 1.86 | 2.35 | 2.67 | 3.00 | 3.16 | 3.00 | 3.48 |
| 200.0 | 0.81 | 1.30 | 1.94 | 2.35 | 2.59 | 2.92 | 3.08 | 3.08 | 3.48 |
| 210.0 | 0.89 | 1.30 | 1.78 | 2.27 | 2.59 | 2.92 | 3.08 | 3.00 | 3.40 |
| 220.0 | 0.81 | 1.30 | 1.78 | 2.19 | 2.51 | 2.84 | 3.00 | 2.92 | 3.40 |
| 230.0 | 0.81 | 1.38 | 1.78 | 2.19 | 2.51 | 2.84 | 3.00 | 2.84 | 3.32 |
| 240.0 | 0.81 | 1.30 | 1.70 | 2.19 | 2.43 | 2.84 | 2.92 | 2.84 | 3.24 |
| 250.0 | 0.81 | 1.22 | 1.70 | 2.11 | 2.43 | 2.75 | 2.84 | 2.84 | 3.24 |
| 260.0 | 0.81 | 1.22 | 1.70 | 2.19 | 2.43 | 2.75 | 3.00 | 2.84 | 3.32 |
| 270.0 | 0.73 | 1.22 | 1.70 | 2.11 | 2.51 | 2.84 | 3.00 | 2.84 | 3.40 |
| 280.0 | 0.81 | 1.22 | 1.70 | 2.19 | 2.51 | 2.84 | 2.92 | 2.84 | 3.24 |
| 290.0 | 0.81 | 1.22 | 1.78 | 2.19 | 2.51 | 2.84 | 3.00 | 2.92 | 3.24 |
| 300.0 | 0.81 | 1.30 | 1.78 | 2.19 | 2.51 | 2.84 | 3.00 | 2.92 | 3.32 |
| 310.0 | 0.89 | 1.30 | 1.78 | 2.27 | 2.59 | 2.92 | 3.00 | 3.00 | 3.40 |
| 320.0 | 0.89 | 1.30 | 1.86 | 2.35 | 2.59 | 2.92 | 3.16 | 3.00 | 3.48 |
| 330.0 | 0.89 | 1.38 | 1.86 | 2.35 | 2.59 | 2.92 | 3.16 | 3.08 | 3.48 |
| 340.0 | 0.89 | 1.46 | 1.94 | 2.43 | 2.59 | 3.00 | 3.16 | 3.08 | 3.48 |
| 350.0 | 0.97 | 1.38 | 1.94 | 2.43 | 2.67 | 3.00 | 3.16 | 3.08 | 3.48 |
| 360.0 | 1.05 | 1.54 | 2.03 | 2.51 | 2.75 | 3.16 | 3.24 | 3.16 | 3.56 |

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

Date: 2015/4/20
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

Intensity data(cd)

| C/γ(°) | 180.0 |
|--------|-------|
| 0.0 | 3.48 |
| 10.0 | 3.56 |
| 20.0 | 3.56 |
| 30.0 | 3.56 |
| 40.0 | 3.40 |
| 50.0 | 3.32 |
| 60.0 | 3.24 |
| 70.0 | 3.32 |
| 80.0 | 3.32 |
| 90.0 | 3.32 |
| 100.0 | 3.24 |
| 110.0 | 3.40 |
| 120.0 | 3.40 |
| 130.0 | 3.48 |
| 140.0 | 3.48 |
| 150.0 | 3.48 |
| 160.0 | 3.48 |
| 170.0 | 3.56 |
| 180.0 | 3.48 |
| 190.0 | 3.56 |
| 200.0 | 3.56 |
| 210.0 | 3.56 |
| 220.0 | 3.40 |
| 230.0 | 3.32 |
| 240.0 | 3.24 |
| 250.0 | 3.32 |
| 260.0 | 3.32 |
| 270.0 | 3.32 |
| 280.0 | 3.24 |
| 290.0 | 3.40 |
| 300.0 | 3.40 |
| 310.0 | 3.48 |
| 320.0 | 3.48 |
| 330.0 | 3.48 |
| 340.0 | 3.48 |
| 350.0 | 3.56 |
| 360.0 | 3.48 |





Great One Global Certification Co., Ltd.

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

Website : www.go-safety.com.tw

TEL : +886-2-2248-0810

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 : 94.40 W
- (3) Input Current : 0.403 A
- (4) Total Luminous Flux Output : 10639.43 lm
- (5) Luminaire Efficacy : 112.71 lm/W
- (6) Central Intensity (cd) : 10001.880 cd
- (7) Maximum Intensity(cd) : 10113.660 cd
- (8) PF : 0.976
- (9) Beam angle: (C0-C180) : 68.6°, (C90-C270) : 68.7°

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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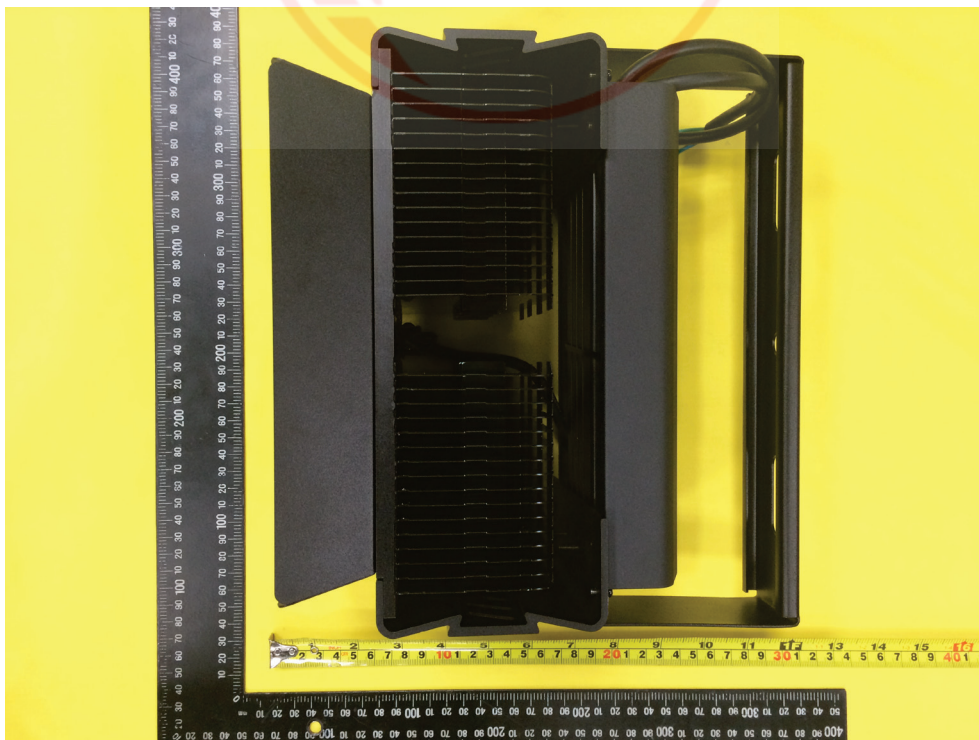
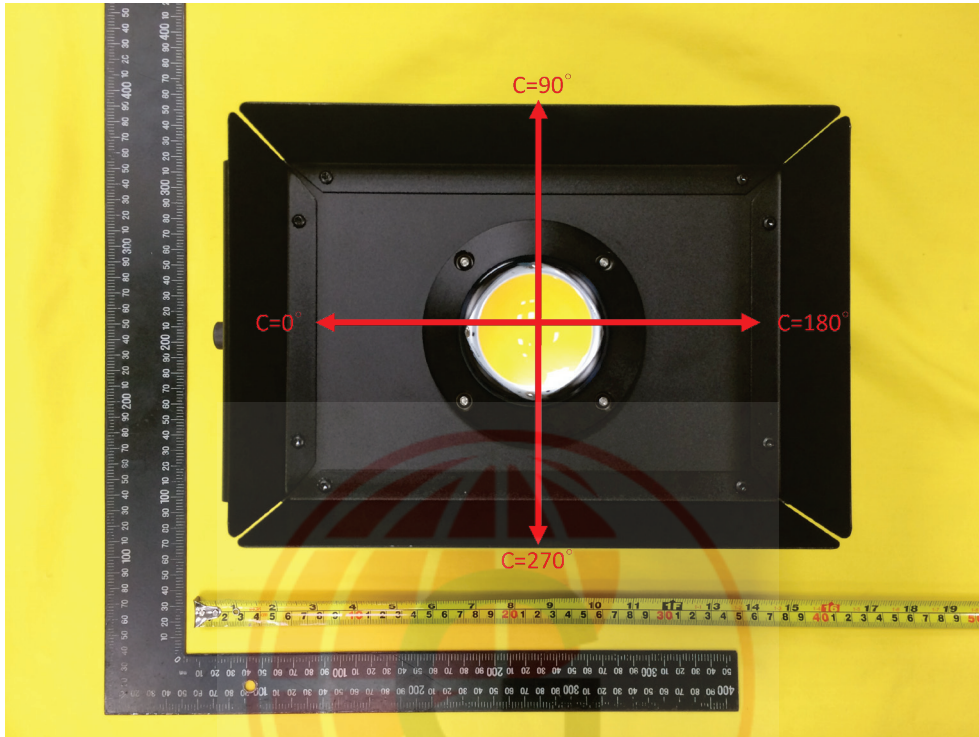
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3. Photograph of EUT :

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) |
| 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 | 2014/08/26 | 2015/08/25 | V : Auto (0~300Vac) A : Auto (0~20A) |
| L221 | Luminous Intensity Lamp | 2013/11/13 | 2023/11/12 | |
| L242 | DC Standard Light Source | 2014/10/14 | 2024/10/13 | |