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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..... : GO1503090301E

Product Name..... : LED Track Spot Light

Model No : GL-TSL30-CW

Sample No..... : 15030903-3

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

Test Date : June 4, 2015 to June 5, 2015

Issue Date..... : June 5, 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-TSL30-CW

Manufacturer: GlacialTech Inc.

Sample No.: 15030903-3

Tested By: Alex Sung

Date:6-5-2015

Reviewed By: Donald Chang

Test Condition

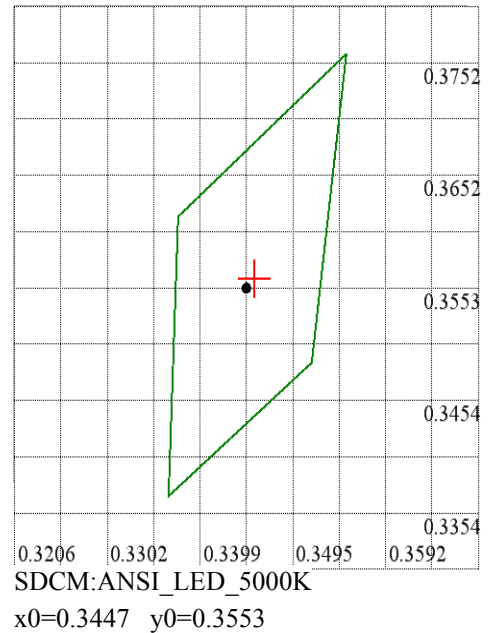
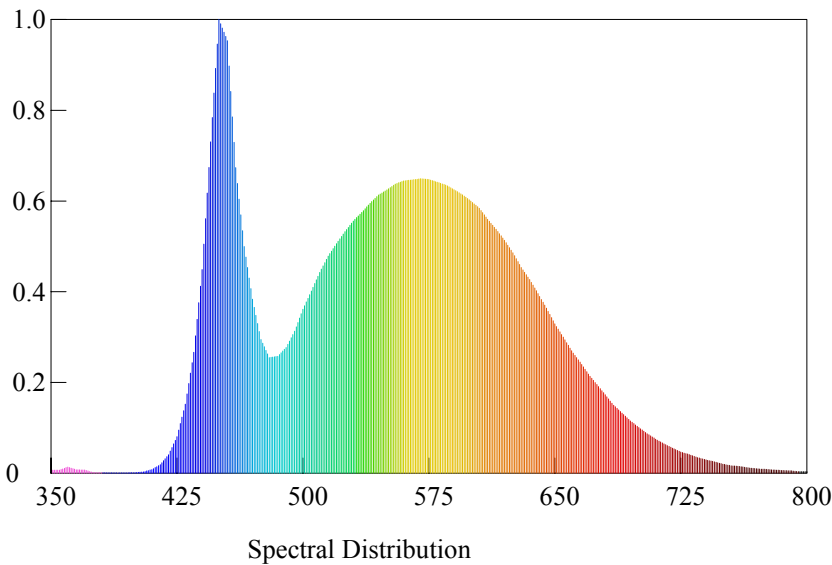
Temperature: 25.5°C

Spectrum Range: 350-800 nm

RH: 60.0%

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.3455$ $y=0.3561$ $u'=0.2099$ $v'=0.4869$

Correlated Color Temperature: 5002 K

Chromaticity Difference: +0.00209Duv

Color Ratio: $K_r=33.4\%$ $K_g=55.9\%$ $K_b=10.7\%$

Bandwidth:23.9nm

Rendering Index: $R_a=82.1$

Dominant Wavelength: 569.0 nm(E)

Purity:0.1044

Peak Wavelength: 451.8 nm

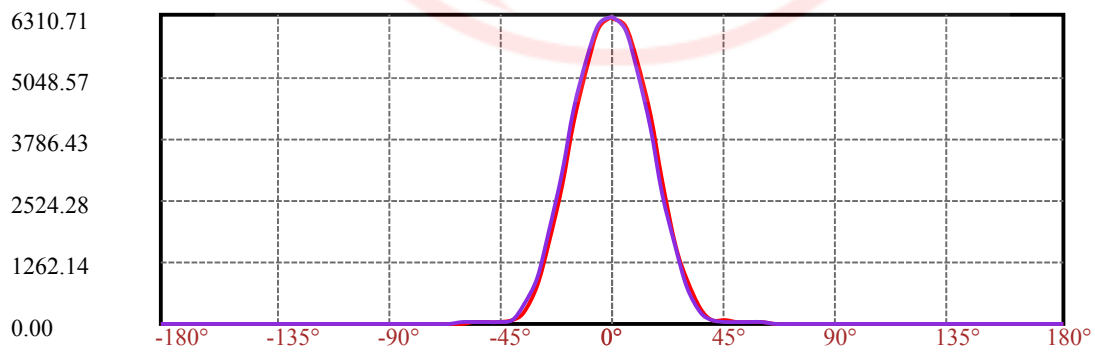
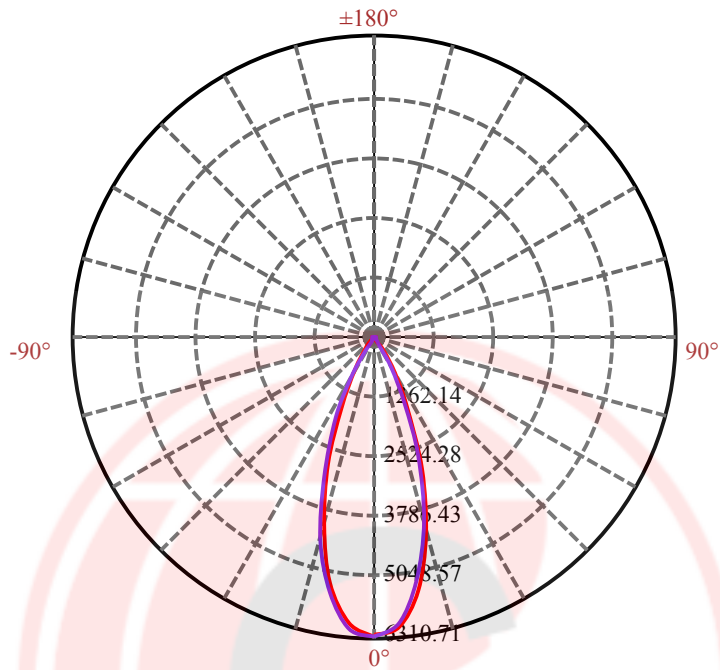
Color Tolerance: 0.0 SDCM

Radiant Flux: 7.817 W

R1=80 R2=87 R3=91 R4=81 R5=80 R6=81 R7=87 R8=69

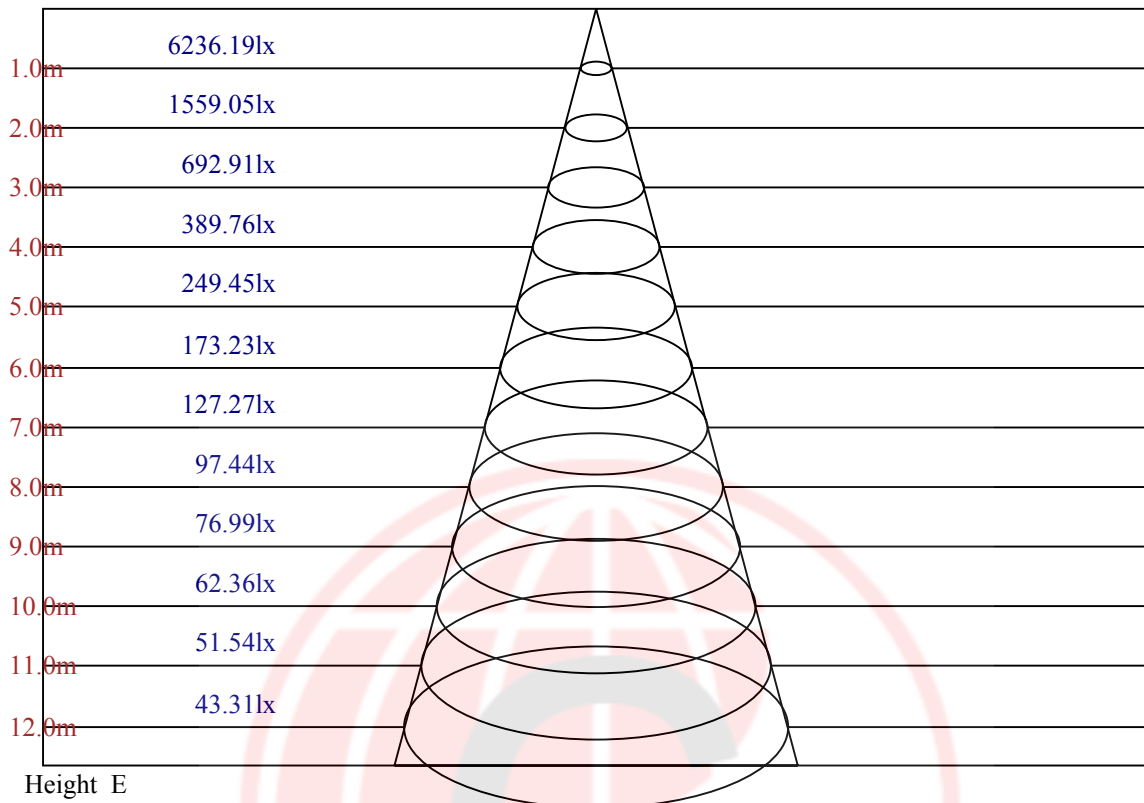
R9=13 R10=68 R11=79 R12=58 R13=82 R14=95 R15=77

Light Distribution Curve [Unit: cd]

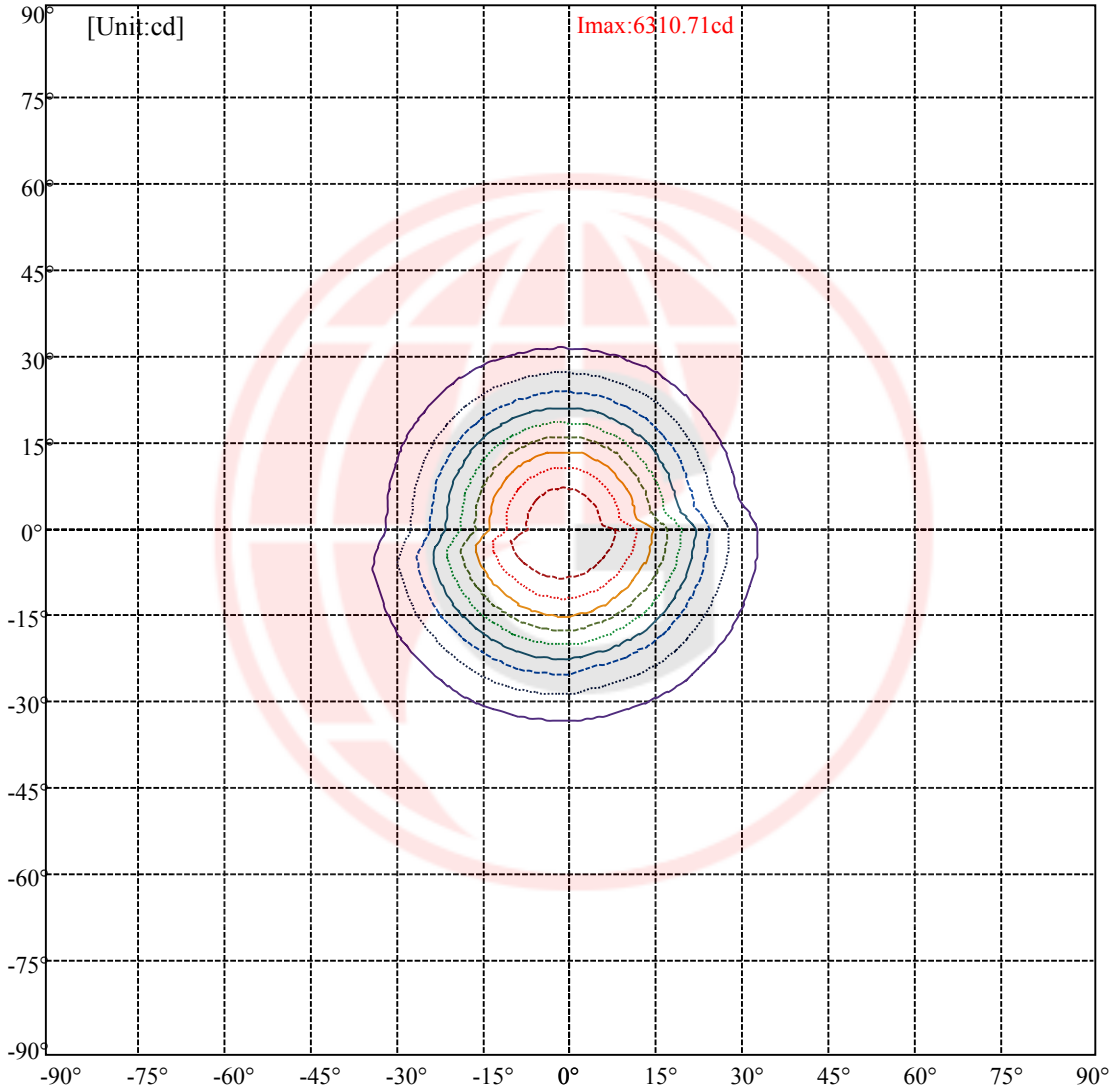


C0/C180: ————
C90/C270: ————

Lux distance Curve



ISO-Intensity(V-H)



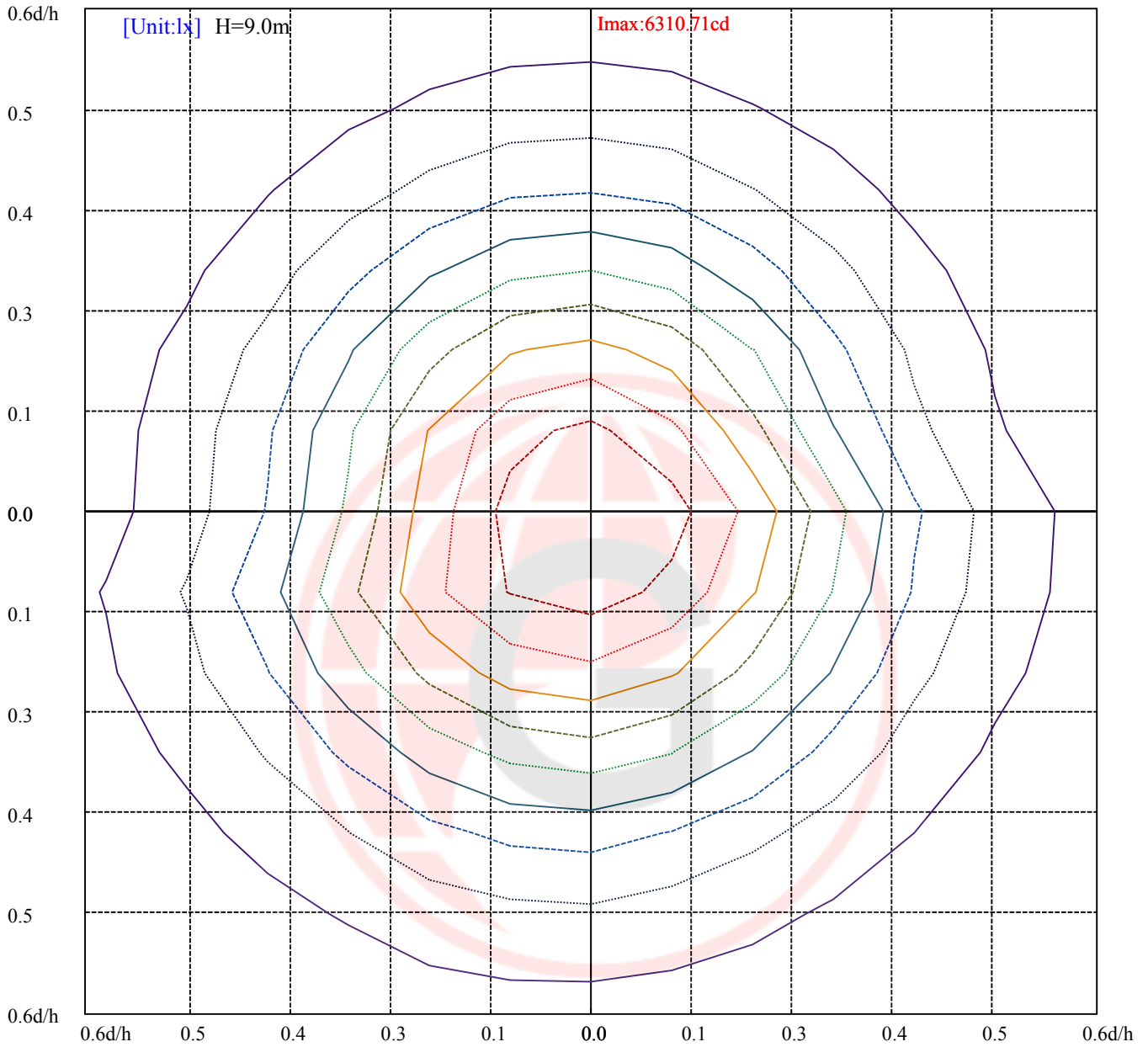
| | |
|-------------------|-----------|
| (10%Imax) 628.884 | ——— |
| (20%Imax) 1257.77 | |
| (30%Imax) 1886.65 | - - - - - |
| (40%Imax) 2515.54 | ——— |
| (50%Imax) 3144.42 | |
| (60%Imax) 3773.3 | - - - - - |
| (70%Imax) 4402.19 | ——— |
| (80%Imax) 5031.07 | |
| (90%Imax) 5659.96 | - - - - - |

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

Date: 2015/6/4
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 9.00

ISO illuminance diagram



| | |
|--------------------|-----------|
| (10%Emax) 7.727987 | ——— |
| (20%Emax) 15.45593 | |
| (30%Emax) 23.18395 | - - - - - |
| (40%Emax) 30.91198 | ——— |
| (50%Emax) 38.64 | |
| (60%Emax) 46.3679 | - - - - - |
| (70%Emax) 54.09592 | ——— |
| (80%Emax) 61.82395 | |
| (90%Emax) 69.55197 | - - - - - |

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

Date: 2015/6/4
Humidity(%): 60.0%

Operator: Alex Sung
Distance(m): 9.00

GlacialTech Inc. GL-TSL30-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 | 6236.19 | 6092.01 | 5380.83 | 4267.08 | 2949.21 | 1600.72 | 899.75 | 326.75 | 89.83 |
| 10.0 | 6234.57 | 5754.24 | 4822.74 | 3571.29 | 2264.76 | 1243.35 | 541.08 | 136.97 | 68.36 |
| 20.0 | 6237.81 | 5790.69 | 4839.75 | 3602.07 | 2290.68 | 1267.65 | 571.86 | 141.35 | 68.20 |
| 30.0 | 6247.53 | 5811.75 | 4906.17 | 3682.26 | 2363.58 | 1318.68 | 587.25 | 147.02 | 69.01 |
| 40.0 | 6252.39 | 5829.57 | 4902.93 | 3717.09 | 2403.27 | 1344.60 | 602.64 | 163.54 | 68.85 |
| 50.0 | 6266.97 | 5878.17 | 4976.64 | 3759.21 | 2481.84 | 1400.49 | 638.28 | 171.64 | 69.34 |
| 60.0 | 6262.92 | 5898.42 | 5042.25 | 3888.81 | 2557.98 | 1457.19 | 673.11 | 199.58 | 69.90 |
| 70.0 | 6276.69 | 5943.78 | 5077.89 | 3883.14 | 2598.48 | 1483.92 | 690.12 | 198.77 | 69.42 |
| 80.0 | 6282.36 | 5966.46 | 5145.12 | 4001.40 | 2672.19 | 1538.19 | 725.76 | 220.08 | 69.90 |
| 90.0 | 6288.84 | 6001.29 | 5168.61 | 3994.11 | 2663.28 | 1563.30 | 740.34 | 228.83 | 68.45 |
| 100.0 | 6294.51 | 6022.35 | 5197.77 | 4024.08 | 2775.87 | 1598.94 | 762.21 | 241.30 | 69.26 |
| 110.0 | 6302.61 | 6040.98 | 5231.79 | 4105.89 | 2778.30 | 1615.14 | 772.74 | 259.77 | 69.90 |
| 120.0 | 6305.85 | 6062.04 | 5272.29 | 4119.66 | 2834.19 | 1654.02 | 794.61 | 261.63 | 69.82 |
| 130.0 | 6308.28 | 6067.71 | 5307.93 | 4160.16 | 2839.86 | 1654.83 | 814.86 | 272.97 | 69.50 |
| 140.0 | 6309.09 | 6086.34 | 5305.50 | 4199.04 | 2877.93 | 1685.61 | 810.00 | 281.07 | 69.58 |
| 150.0 | 6310.71 | 6085.53 | 5322.51 | 4185.27 | 2860.11 | 1671.84 | 822.15 | 274.51 | 67.88 |
| 160.0 | 6300.18 | 6052.32 | 5323.32 | 4192.56 | 2869.02 | 1709.91 | 828.63 | 278.80 | 67.55 |
| 170.0 | 6294.51 | 6062.04 | 5284.44 | 4150.44 | 2828.52 | 1643.49 | 805.95 | 268.11 | 66.66 |
| 180.0 | 6290.46 | 6032.07 | 5239.89 | 4097.79 | 2815.56 | 1637.82 | 784.08 | 252.40 | 65.12 |
| 190.0 | 6234.57 | 6230.52 | 5722.65 | 4779.81 | 3538.08 | 2230.74 | 1266.68 | 542.38 | 123.12 |
| 200.0 | 6237.81 | 6214.32 | 5727.51 | 4752.27 | 3551.04 | 2245.32 | 1222.78 | 516.05 | 116.24 |
| 210.0 | 6247.53 | 6202.98 | 5709.69 | 4723.11 | 3476.52 | 2178.09 | 1203.34 | 502.93 | 104.17 |
| 220.0 | 6252.39 | 6190.02 | 5631.93 | 4623.48 | 3399.57 | 2109.24 | 1129.71 | 457.49 | 95.01 |
| 230.0 | 6266.97 | 6171.39 | 5603.58 | 4580.55 | 3316.14 | 2038.77 | 1106.06 | 447.53 | 96.96 |
| 240.0 | 6262.92 | 6168.15 | 5570.37 | 4545.72 | 3272.40 | 2000.70 | 1082.65 | 436.35 | 87.16 |
| 250.0 | 6276.69 | 6131.70 | 5518.53 | 4472.82 | 3190.59 | 2001.51 | 1057.37 | 423.14 | 86.43 |
| 260.0 | 6282.36 | 6138.18 | 5490.99 | 4437.18 | 3146.85 | 1896.21 | 1006.34 | 394.47 | 83.51 |
| 270.0 | 6288.84 | 6117.93 | 5438.34 | 4405.59 | 3105.54 | 1863.81 | 959.12 | 383.29 | 83.27 |
| 280.0 | 6294.51 | 6113.07 | 5424.57 | 4335.93 | 3031.83 | 1600.40 | 942.35 | 361.18 | 82.22 |
| 290.0 | 6302.61 | 6098.49 | 5380.83 | 4284.09 | 2969.46 | 1610.28 | 904.61 | 339.71 | 82.86 |
| 300.0 | 6305.85 | 6072.57 | 5361.39 | 4246.02 | 2930.58 | 1612.87 | 874.40 | 333.96 | 85.05 |
| 310.0 | 6308.28 | 6076.62 | 5328.99 | 4204.71 | 2924.10 | 1609.39 | 882.66 | 338.90 | 86.67 |
| 320.0 | 6309.09 | 6074.19 | 5342.76 | 4212.00 | 2887.65 | 1588.17 | 866.13 | 311.45 | 85.54 |
| 330.0 | 6310.71 | 6072.57 | 5326.56 | 4190.13 | 2907.09 | 1600.72 | 873.91 | 327.89 | 85.54 |
| 340.0 | 6300.18 | 6083.10 | 5375.97 | 4256.55 | 2941.92 | 1591.73 | 890.84 | 321.57 | 84.89 |
| 350.0 | 6294.51 | 6070.95 | 5348.43 | 4215.24 | 2935.44 | 1592.70 | 915.06 | 334.21 | 86.83 |
| 360.0 | 6236.19 | 6092.01 | 5380.83 | 4267.08 | 2949.21 | 1600.72 | 899.75 | 326.75 | 89.83 |

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

Date: 2015/6/4
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

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 | 58.81 | 41.88 | 31.19 | 22.92 | 16.28 | 11.99 | 9.40 | 7.21 | 5.59 |
| 10.0 | 47.55 | 34.99 | 26.00 | 18.47 | 13.37 | 10.37 | 8.10 | 6.08 | 1.70 |
| 20.0 | 47.63 | 35.48 | 26.08 | 18.55 | 13.77 | 10.45 | 8.02 | 6.08 | 2.35 |
| 30.0 | 48.11 | 35.64 | 26.41 | 19.28 | 14.01 | 10.53 | 8.02 | 5.99 | 2.35 |
| 40.0 | 49.17 | 36.53 | 27.14 | 19.52 | 14.26 | 10.69 | 7.94 | 5.83 | 2.92 |
| 50.0 | 48.60 | 36.29 | 26.97 | 19.60 | 14.42 | 10.69 | 7.94 | 5.59 | 3.56 |
| 60.0 | 49.17 | 36.77 | 27.62 | 19.93 | 14.66 | 10.69 | 7.61 | 5.27 | 3.08 |
| 70.0 | 49.01 | 36.77 | 27.62 | 20.25 | 14.82 | 10.69 | 7.61 | 5.10 | 3.08 |
| 80.0 | 49.01 | 36.94 | 27.62 | 20.33 | 14.74 | 10.61 | 7.53 | 4.94 | 2.92 |
| 90.0 | 48.68 | 36.77 | 27.62 | 20.25 | 14.58 | 10.37 | 7.45 | 4.94 | 2.84 |
| 100.0 | 48.36 | 36.21 | 27.70 | 20.17 | 14.26 | 10.21 | 7.13 | 4.78 | 2.84 |
| 110.0 | 48.52 | 36.37 | 27.54 | 20.01 | 14.09 | 10.04 | 7.05 | 4.70 | 2.75 |
| 120.0 | 48.36 | 35.80 | 27.05 | 19.60 | 14.18 | 10.04 | 7.13 | 4.86 | 2.84 |
| 130.0 | 48.68 | 35.88 | 27.30 | 19.85 | 14.09 | 10.04 | 7.13 | 4.78 | 2.51 |
| 140.0 | 48.28 | 35.88 | 27.38 | 20.01 | 14.09 | 10.13 | 7.29 | 4.86 | 2.92 |
| 150.0 | 47.30 | 36.05 | 27.62 | 20.01 | 14.18 | 10.13 | 7.13 | 4.70 | 2.92 |
| 160.0 | 46.58 | 36.13 | 27.70 | 20.01 | 13.85 | 9.72 | 6.89 | 4.54 | 2.84 |
| 170.0 | 45.60 | 35.56 | 27.70 | 19.85 | 13.85 | 9.80 | 6.97 | 4.62 | 2.92 |
| 180.0 | 45.44 | 35.48 | 27.05 | 19.36 | 13.69 | 9.56 | 6.97 | 4.62 | 2.92 |
| 190.0 | 55.57 | 40.99 | 32.00 | 23.90 | 16.85 | 11.75 | 8.34 | 5.75 | 3.73 |
| 200.0 | 54.68 | 40.58 | 31.51 | 23.81 | 16.69 | 11.58 | 8.10 | 5.75 | 3.65 |
| 210.0 | 53.87 | 40.10 | 31.43 | 23.57 | 16.61 | 11.50 | 8.18 | 5.67 | 3.65 |
| 220.0 | 53.46 | 39.85 | 31.51 | 23.65 | 16.77 | 11.83 | 8.42 | 5.91 | 3.89 |
| 230.0 | 54.35 | 40.34 | 31.27 | 23.49 | 16.77 | 12.07 | 8.67 | 6.08 | 4.05 |
| 240.0 | 54.19 | 40.50 | 31.10 | 23.41 | 16.77 | 11.91 | 8.83 | 6.32 | 4.37 |
| 250.0 | 54.43 | 40.99 | 31.27 | 23.57 | 16.93 | 12.31 | 9.07 | 6.80 | 4.94 |
| 260.0 | 54.43 | 40.82 | 31.02 | 23.33 | 16.85 | 12.31 | 9.40 | 7.13 | 5.35 |
| 270.0 | 54.35 | 40.58 | 30.70 | 23.17 | 16.69 | 12.23 | 9.40 | 7.29 | 5.51 |
| 280.0 | 54.43 | 40.42 | 30.54 | 22.68 | 16.28 | 11.83 | 9.15 | 7.13 | 5.35 |
| 290.0 | 55.16 | 40.58 | 30.38 | 22.19 | 15.88 | 11.75 | 9.07 | 6.97 | 5.27 |
| 300.0 | 55.40 | 40.66 | 30.54 | 22.19 | 15.96 | 11.58 | 9.23 | 7.05 | 5.27 |
| 310.0 | 56.54 | 41.23 | 30.54 | 22.19 | 16.12 | 11.83 | 9.40 | 7.13 | 5.35 |
| 320.0 | 57.19 | 41.31 | 30.86 | 22.44 | 16.28 | 11.91 | 9.48 | 7.13 | 5.43 |
| 330.0 | 57.11 | 41.47 | 31.10 | 22.52 | 16.04 | 11.66 | 9.23 | 6.89 | 5.35 |
| 340.0 | 57.83 | 41.88 | 30.86 | 22.36 | 15.80 | 11.66 | 9.15 | 6.89 | 5.27 |
| 350.0 | 58.00 | 41.80 | 31.10 | 22.60 | 15.96 | 11.75 | 9.32 | 7.05 | 5.43 |
| 360.0 | 58.81 | 41.88 | 31.19 | 22.92 | 16.28 | 11.99 | 9.40 | 7.21 | 5.59 |

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

GlacialTech Inc. GL-TSL30-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 | 0.16 | 0.32 | 0.49 | 0.65 | 0.89 | 1.22 | 1.30 | 1.38 | 1.38 |
| 10.0 | 0.32 | 0.49 | 0.73 | 1.05 | 1.30 | 1.46 | 1.62 | 1.46 | 1.54 |
| 20.0 | 0.24 | 0.49 | 0.73 | 1.05 | 1.30 | 1.46 | 1.54 | 1.54 | 1.46 |
| 30.0 | 0.32 | 0.41 | 0.65 | 1.05 | 1.30 | 1.46 | 1.46 | 1.54 | 1.46 |
| 40.0 | 0.24 | 0.41 | 0.65 | 0.97 | 1.22 | 1.46 | 1.46 | 1.46 | 1.46 |
| 50.0 | 0.24 | 0.49 | 0.65 | 0.97 | 1.30 | 1.38 | 1.46 | 1.46 | 1.38 |
| 60.0 | 0.32 | 0.41 | 0.65 | 0.89 | 1.22 | 1.46 | 1.46 | 1.46 | 1.38 |
| 70.0 | 0.24 | 0.41 | 0.65 | 0.97 | 1.30 | 1.38 | 1.46 | 1.46 | 1.38 |
| 80.0 | 0.24 | 0.41 | 0.73 | 0.89 | 1.22 | 1.30 | 1.46 | 1.38 | 1.38 |
| 90.0 | 0.24 | 0.41 | 0.65 | 0.89 | 1.22 | 1.38 | 1.38 | 1.46 | 1.38 |
| 100.0 | 0.24 | 0.32 | 0.65 | 0.89 | 1.22 | 1.38 | 1.46 | 1.46 | 1.38 |
| 110.0 | 0.24 | 0.41 | 0.65 | 0.81 | 1.13 | 1.38 | 1.46 | 1.46 | 1.46 |
| 120.0 | 0.24 | 0.41 | 0.57 | 0.89 | 1.22 | 1.38 | 1.46 | 1.46 | 1.46 |
| 130.0 | 0.24 | 0.32 | 0.65 | 0.89 | 1.13 | 1.38 | 1.54 | 1.54 | 1.46 |
| 140.0 | 0.24 | 0.41 | 0.65 | 0.89 | 1.22 | 1.38 | 1.46 | 1.54 | 1.54 |
| 150.0 | 0.24 | 0.41 | 0.57 | 0.89 | 1.13 | 1.46 | 1.54 | 1.54 | 1.54 |
| 160.0 | 0.24 | 0.41 | 0.57 | 0.89 | 1.22 | 1.46 | 1.62 | 1.62 | 1.46 |
| 170.0 | 0.24 | 0.41 | 0.65 | 0.89 | 1.30 | 1.54 | 1.70 | 1.62 | 1.54 |
| 180.0 | 0.24 | 0.41 | 0.65 | 0.97 | 1.22 | 1.54 | 1.62 | 1.62 | 1.54 |
| 190.0 | 0.08 | 0.24 | 0.32 | 0.49 | 0.73 | 0.97 | 1.22 | 1.30 | 1.30 |
| 200.0 | 0.08 | 0.24 | 0.32 | 0.57 | 0.81 | 0.97 | 1.22 | 1.22 | 1.30 |
| 210.0 | 0.16 | 0.16 | 0.32 | 0.57 | 0.73 | 0.97 | 1.13 | 1.22 | 1.30 |
| 220.0 | 0.16 | 0.24 | 0.32 | 0.57 | 0.65 | 0.97 | 1.13 | 1.22 | 1.30 |
| 230.0 | 0.08 | 0.24 | 0.32 | 0.49 | 0.65 | 0.97 | 1.13 | 1.22 | 1.22 |
| 240.0 | 0.16 | 0.16 | 0.32 | 0.57 | 0.73 | 0.97 | 1.13 | 1.13 | 1.30 |
| 250.0 | 0.16 | 0.24 | 0.32 | 0.49 | 0.73 | 0.97 | 1.13 | 1.13 | 1.22 |
| 260.0 | 0.16 | 0.24 | 0.32 | 0.49 | 0.81 | 0.89 | 1.13 | 1.13 | 1.30 |
| 270.0 | 0.16 | 0.24 | 0.41 | 0.57 | 0.73 | 0.97 | 1.22 | 1.13 | 1.30 |
| 280.0 | 0.16 | 0.24 | 0.41 | 0.57 | 0.81 | 1.05 | 1.22 | 1.22 | 1.22 |
| 290.0 | 0.16 | 0.16 | 0.41 | 0.57 | 0.73 | 0.97 | 1.13 | 1.30 | 1.30 |
| 300.0 | 0.16 | 0.24 | 0.41 | 0.57 | 0.81 | 1.05 | 1.22 | 1.30 | 1.30 |
| 310.0 | 0.16 | 0.24 | 0.41 | 0.65 | 0.81 | 1.05 | 1.22 | 1.22 | 1.30 |
| 320.0 | 0.16 | 0.16 | 0.41 | 0.65 | 0.81 | 1.05 | 1.22 | 1.22 | 1.38 |
| 330.0 | 0.16 | 0.24 | 0.41 | 0.65 | 0.81 | 1.05 | 1.22 | 1.30 | 1.30 |
| 340.0 | 0.16 | 0.24 | 0.41 | 0.57 | 0.89 | 1.05 | 1.22 | 1.30 | 1.30 |
| 350.0 | 0.16 | 0.24 | 0.32 | 0.65 | 0.81 | 1.05 | 1.30 | 1.30 | 1.30 |
| 360.0 | 0.16 | 0.32 | 0.49 | 0.65 | 0.89 | 1.22 | 1.30 | 1.38 | 1.38 |

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

Date: 2015/6/4
 Humidity(%): 60.0%

Operator: Alex Sung
 Distance(m): 9.00

Intensity data(cd)

| C/γ(°) | 180.0 |
|--------|-------|
| 0.0 | 1.46 |
| 10.0 | 1.38 |
| 20.0 | 1.38 |
| 30.0 | 1.38 |
| 40.0 | 1.38 |
| 50.0 | 1.30 |
| 60.0 | 1.30 |
| 70.0 | 1.38 |
| 80.0 | 1.30 |
| 90.0 | 1.38 |
| 100.0 | 1.38 |
| 110.0 | 1.38 |
| 120.0 | 1.38 |
| 130.0 | 1.38 |
| 140.0 | 1.46 |
| 150.0 | 1.46 |
| 160.0 | 1.46 |
| 170.0 | 1.46 |
| 180.0 | 1.46 |
| 190.0 | 1.38 |
| 200.0 | 1.38 |
| 210.0 | 1.38 |
| 220.0 | 1.38 |
| 230.0 | 1.30 |
| 240.0 | 1.30 |
| 250.0 | 1.38 |
| 260.0 | 1.30 |
| 270.0 | 1.38 |
| 280.0 | 1.38 |
| 290.0 | 1.38 |
| 300.0 | 1.38 |
| 310.0 | 1.38 |
| 320.0 | 1.46 |
| 330.0 | 1.46 |
| 340.0 | 1.46 |
| 350.0 | 1.46 |
| 360.0 | 1.46 |





Great One Global Certification Co., Ltd.

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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 : 29.48 W
- (3) Input Current : 0.132 A
- (4) Total Luminous Flux Output : 2838.70 lm
- (5) Luminaire Efficacy : 96.28 lm/W
- (6) Central Intensity (cd) : 6236.190 cd
- (7) Maximum Intensity(cd) : 6310.710 cd
- (8) PF : 0.943
- (9) Beam angle: (C0-C180) : 38.2°, (C90-C270) : 38.1°

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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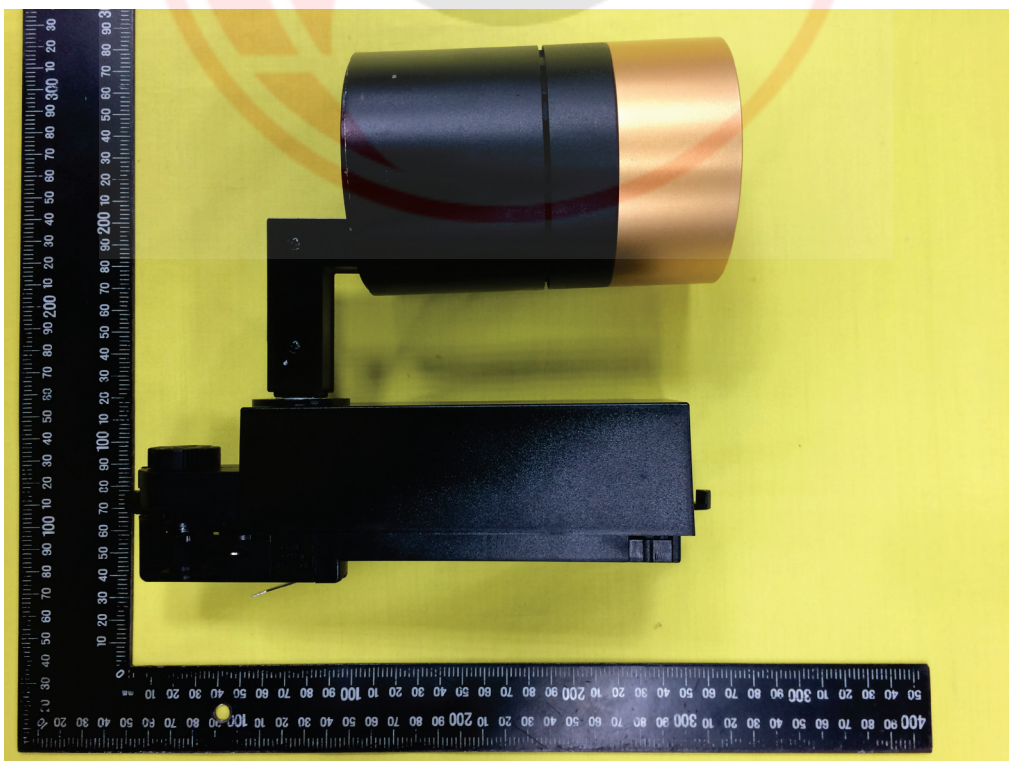
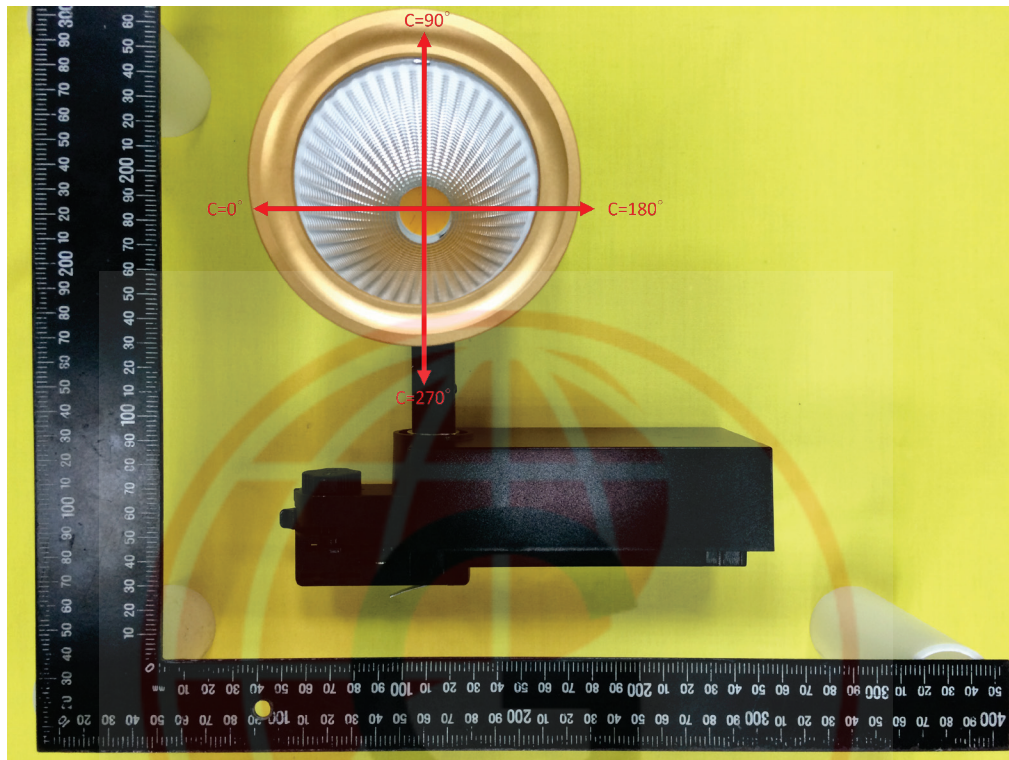
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3. Photograph of EUT :

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 | 2014/11/13 | 2015/11/12 | |
| L242 | DC Standard Light | 2014/10/14 | 2015/10/13 | |

~ End of Report ~