

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639966

Luminaire Tested: GWS-SA5C-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11453.3 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

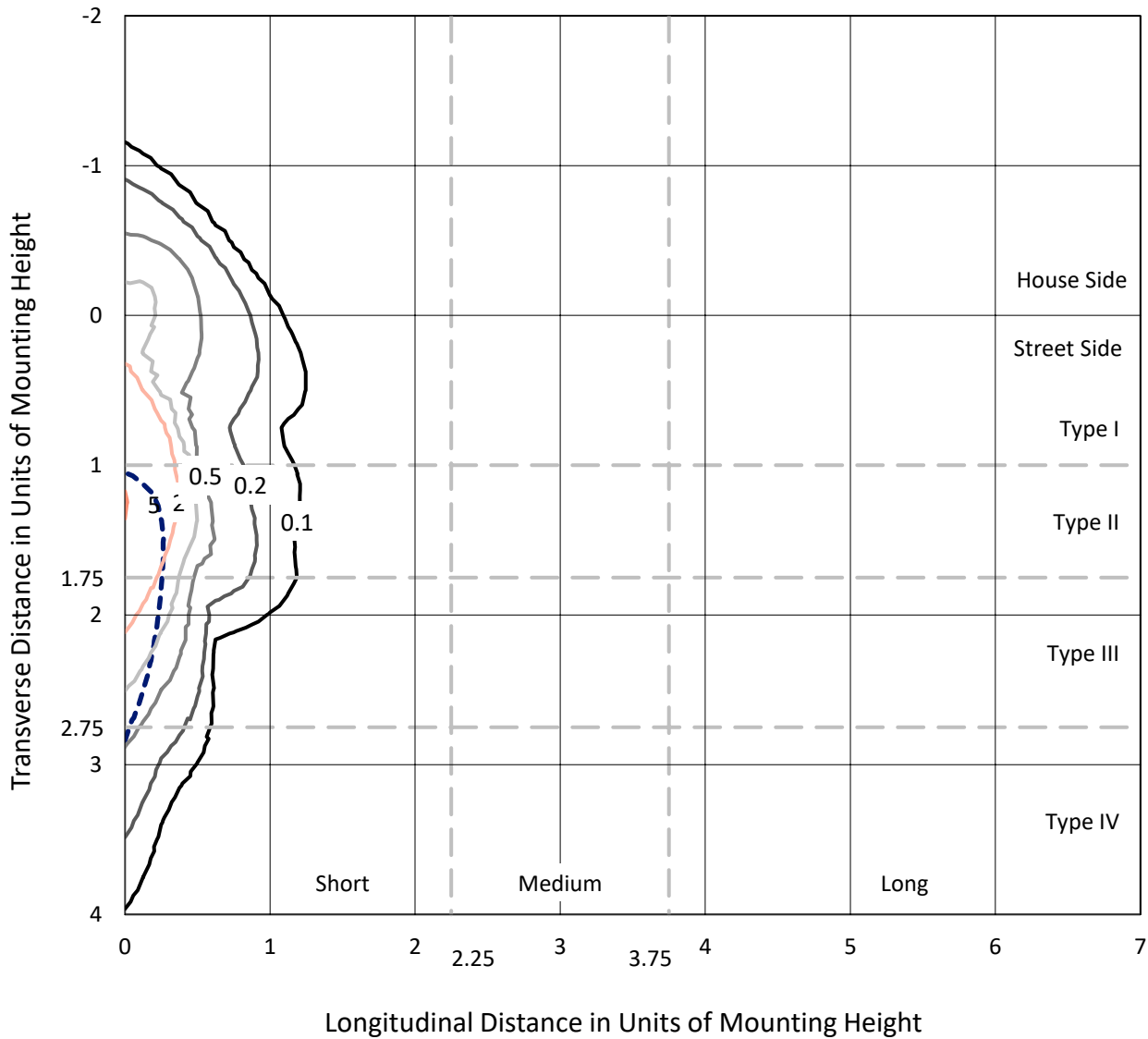
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639966
 CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

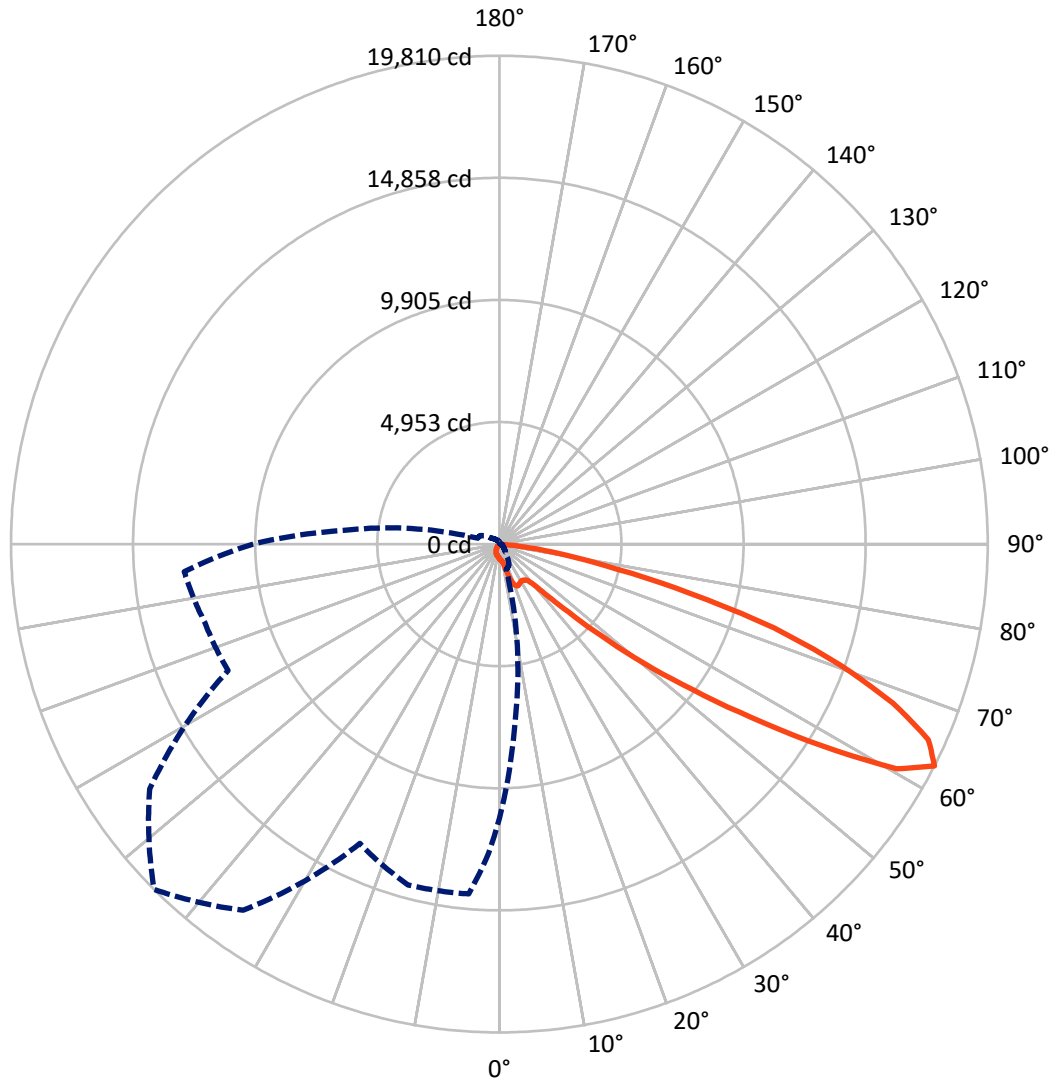
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P639966
CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P639966
 CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

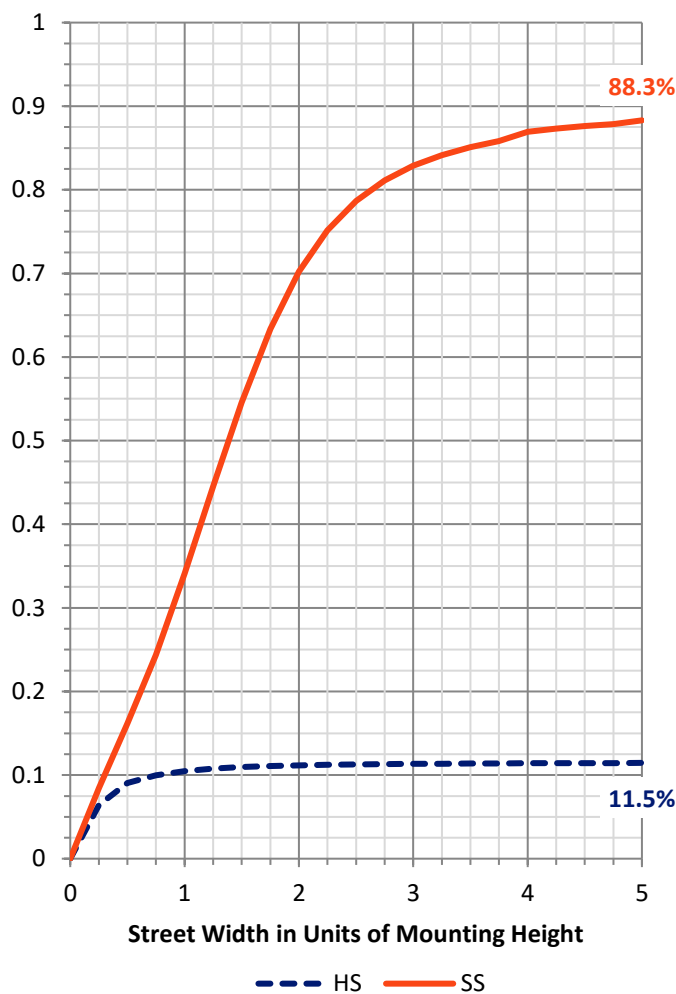
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1330.7 | 0.0 | 1330.7 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 10122.6 | 0.0 | 10122.6 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 11453.3 | 0.0 | 11453.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 51.3 | 0.4 |
| 10°-20° | 175.8 | 1.5 |
| 20°-30° | 397.2 | 3.5 |
| 30°-40° | 684.2 | 6.0 |
| 40°-50° | 1290.7 | 11.3 |
| 50°-60° | 2881.7 | 25.2 |
| 60°-70° | 3854.3 | 33.7 |
| 70°-80° | 1932.8 | 16.9 |
| 80°-90° | 185.3 | 1.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 11453.3 | 100.0 |
| 0°-180° | 11453.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P639966

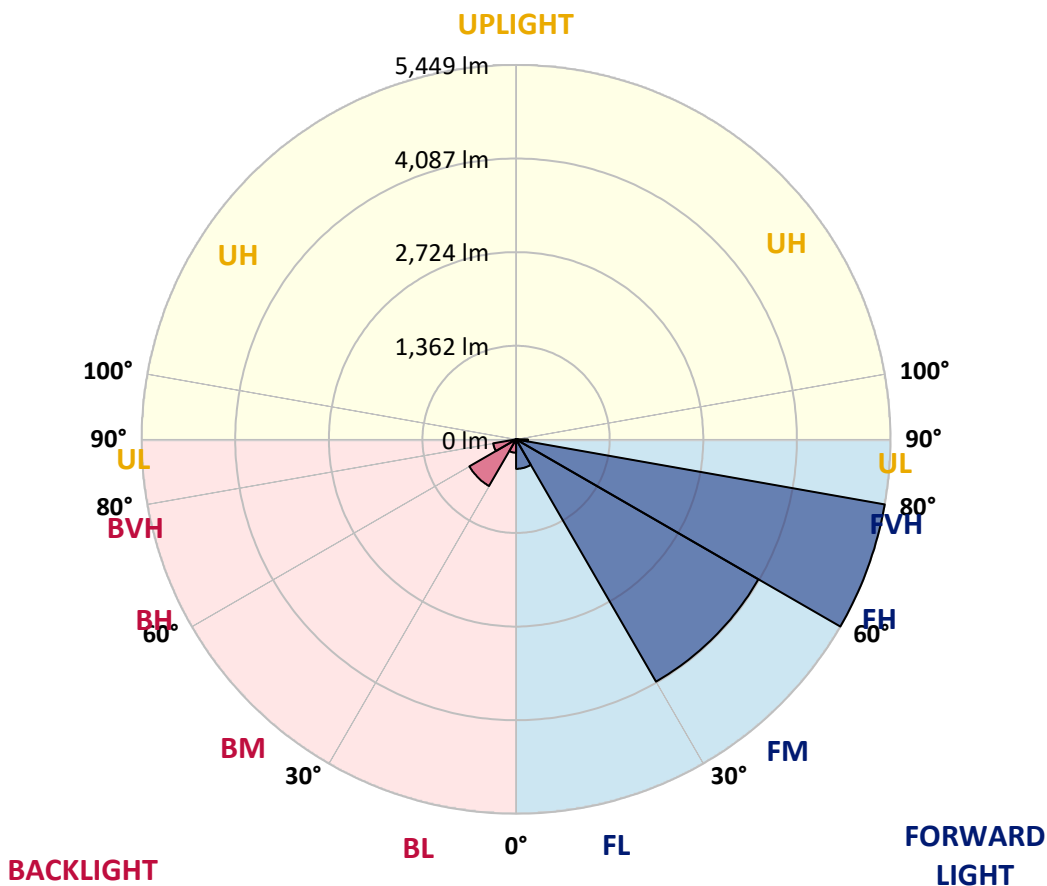
CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 428.9 | 3.7 | | | |
| FM (30°-60°) | 4072.0 | 35.6 | | | |
| FH (60°-80°) | 5448.7 | 47.6 | | | G3/7500 |
| FVH (80°-90°) | 172.9 | 1.5 | | | G2/225 |
| BL (0°-30°) | 195.3 | 1.7 | B1/500 | | |
| BM (30°-60°) | 784.7 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 338.4 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 |
| 2.5° | 587.2 | 585.8 | 583.1 | 575.0 | 568.2 | 564.1 | 556.0 | 556.0 | 554.7 | 551.9 | 546.5 |
| 5° | 568.2 | 562.8 | 557.4 | 542.5 | 526.2 | 516.7 | 505.8 | 504.5 | 504.5 | 501.8 | 500.4 |
| 7.5° | 538.4 | 533.0 | 526.2 | 501.8 | 486.9 | 477.4 | 467.9 | 466.5 | 462.4 | 462.4 | 462.4 |
| 10° | 522.1 | 514.0 | 503.1 | 476.0 | 461.1 | 452.9 | 446.2 | 442.1 | 439.4 | 435.3 | 434.0 |
| 12.5° | 557.4 | 542.5 | 519.4 | 470.6 | 450.2 | 439.4 | 431.2 | 428.5 | 420.4 | 415.0 | 410.9 |
| 15° | 667.2 | 630.6 | 584.5 | 482.8 | 446.2 | 429.9 | 419.0 | 413.6 | 406.8 | 397.3 | 390.6 |
| 17.5° | 847.6 | 794.7 | 717.4 | 522.1 | 442.1 | 421.8 | 408.2 | 398.7 | 389.2 | 378.4 | 370.2 |
| 20° | 1097.1 | 1018.5 | 926.2 | 594.0 | 442.1 | 412.3 | 396.0 | 383.8 | 370.2 | 358.0 | 348.5 |
| 22.5° | 1414.4 | 1335.8 | 1178.5 | 716.0 | 447.5 | 400.1 | 381.1 | 364.8 | 348.5 | 337.7 | 326.8 |
| 25° | 1769.7 | 1658.5 | 1512.1 | 863.9 | 462.4 | 383.8 | 363.4 | 347.2 | 332.3 | 318.7 | 306.5 |
| 27.5° | 2165.7 | 2045.0 | 1849.8 | 1074.1 | 495.0 | 367.5 | 344.5 | 329.5 | 316.0 | 302.4 | 286.1 |
| 30° | 2530.5 | 2458.7 | 2259.3 | 1326.3 | 547.9 | 356.7 | 329.5 | 316.0 | 302.4 | 284.8 | 269.9 |
| 32.5° | 2968.6 | 2841.1 | 2677.0 | 1613.8 | 618.4 | 345.8 | 317.3 | 298.3 | 287.5 | 271.2 | 255.0 |
| 35° | 3409.3 | 3300.8 | 3085.2 | 1967.7 | 697.1 | 335.0 | 302.4 | 284.8 | 275.3 | 256.3 | 238.7 |
| 37.5° | 3863.6 | 3839.2 | 3626.3 | 2359.7 | 774.3 | 322.8 | 284.8 | 273.9 | 264.4 | 242.7 | 222.4 |
| 40° | 4311.1 | 4266.4 | 4069.7 | 2807.2 | 821.8 | 309.2 | 269.9 | 263.1 | 252.2 | 227.8 | 204.8 |
| 42.5° | 4739.7 | 4705.8 | 4514.6 | 3235.7 | 815.0 | 297.0 | 255.0 | 246.8 | 238.7 | 214.3 | 185.8 |
| 45° | 5265.8 | 5210.2 | 4968.9 | 3553.1 | 745.9 | 310.6 | 240.0 | 226.5 | 225.1 | 202.1 | 166.8 |
| 47.5° | 6250.4 | 6067.3 | 5657.8 | 3797.2 | 676.7 | 345.8 | 223.8 | 207.5 | 217.0 | 189.9 | 147.8 |
| 50° | 7629.6 | 7414.0 | 6821.3 | 3987.0 | 675.4 | 391.9 | 221.0 | 189.9 | 210.2 | 180.4 | 131.5 |
| 52.5° | 9015.5 | 8635.8 | 7915.7 | 4088.7 | 725.5 | 425.8 | 245.5 | 172.2 | 202.1 | 170.9 | 119.3 |
| 55° | 10343.2 | 9555.3 | 8374.1 | 3752.4 | 764.9 | 462.4 | 290.2 | 162.7 | 187.1 | 160.0 | 112.6 |
| 57.5° | 11608.5 | 10294.4 | 8573.4 | 2968.6 | 896.4 | 477.4 | 317.3 | 166.8 | 165.4 | 146.5 | 107.1 |
| 60° | 11782.1 | 10259.1 | 8170.7 | 1726.4 | 988.6 | 451.6 | 306.5 | 185.8 | 145.1 | 130.2 | 97.6 |
| 62.5° | 11125.7 | 9577.0 | 7252.6 | 1076.8 | 918.1 | 442.1 | 272.6 | 211.6 | 131.5 | 115.3 | 85.4 |
| 65° | 10128.9 | 8507.0 | 6047.0 | 694.3 | 695.7 | 490.9 | 238.7 | 207.5 | 123.4 | 101.7 | 73.2 |
| 67.5° | 8570.7 | 7119.7 | 4764.1 | 465.2 | 393.3 | 419.0 | 208.8 | 142.4 | 120.7 | 86.8 | 57.0 |
| 70° | 6255.8 | 5067.9 | 3101.5 | 310.6 | 234.6 | 335.0 | 174.9 | 101.7 | 113.9 | 71.9 | 40.7 |
| 72.5° | 4572.9 | 3405.2 | 1731.8 | 203.4 | 132.9 | 195.3 | 128.8 | 73.2 | 88.1 | 52.9 | 28.5 |
| 75° | 3291.3 | 2343.4 | 988.6 | 130.2 | 88.1 | 107.1 | 84.1 | 50.2 | 57.0 | 42.0 | 25.8 |
| 77.5° | 1584.0 | 1141.9 | 448.9 | 71.9 | 59.7 | 54.2 | 44.8 | 31.2 | 35.3 | 38.0 | 23.1 |
| 80° | 59.7 | 44.8 | 33.9 | 35.3 | 38.0 | 24.4 | 20.3 | 16.3 | 20.3 | 25.8 | 12.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 4.1 | 5.4 | 6.8 | 8.1 | 6.8 | 8.1 | 9.5 | 1.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 |
| 2.5° | 550.6 | 547.9 | 550.6 | 553.3 | 556.0 | 558.7 | 554.7 | 557.4 | 560.1 | 553.3 | 556.0 |
| 5° | 507.2 | 505.8 | 514.0 | 518.0 | 523.5 | 526.2 | 523.5 | 523.5 | 522.1 | 514.0 | 514.0 |
| 7.5° | 469.2 | 470.6 | 477.4 | 486.9 | 493.6 | 497.7 | 495.0 | 493.6 | 489.6 | 477.4 | 477.4 |
| 10° | 440.7 | 440.7 | 451.6 | 459.7 | 469.2 | 473.3 | 470.6 | 466.5 | 462.4 | 450.2 | 448.9 |
| 12.5° | 417.7 | 417.7 | 425.8 | 439.4 | 450.2 | 455.7 | 454.3 | 448.9 | 442.1 | 429.9 | 428.5 |
| 15° | 396.0 | 394.6 | 406.8 | 419.0 | 434.0 | 440.7 | 438.0 | 434.0 | 421.8 | 410.9 | 408.2 |
| 17.5° | 374.3 | 372.9 | 383.8 | 400.1 | 416.3 | 425.8 | 424.5 | 415.0 | 404.1 | 390.6 | 387.9 |
| 20° | 352.6 | 349.9 | 363.4 | 379.7 | 396.0 | 405.5 | 402.8 | 394.6 | 381.1 | 367.5 | 364.8 |
| 22.5° | 330.9 | 329.5 | 339.0 | 352.6 | 367.5 | 375.6 | 374.3 | 367.5 | 353.9 | 341.7 | 341.7 |
| 25° | 306.5 | 306.5 | 313.3 | 322.8 | 333.6 | 337.7 | 339.0 | 336.3 | 328.2 | 321.4 | 321.4 |
| 27.5° | 286.1 | 282.1 | 284.8 | 287.5 | 292.9 | 299.7 | 299.7 | 302.4 | 303.8 | 301.1 | 302.4 |
| 30° | 269.9 | 263.1 | 259.0 | 253.6 | 250.9 | 253.6 | 256.3 | 265.8 | 275.3 | 280.7 | 283.4 |
| 32.5° | 250.9 | 242.7 | 231.9 | 217.0 | 207.5 | 204.8 | 212.9 | 230.5 | 248.2 | 260.4 | 267.2 |
| 35° | 231.9 | 221.0 | 200.7 | 179.0 | 166.8 | 162.7 | 172.2 | 192.6 | 218.3 | 240.0 | 249.5 |
| 37.5° | 212.9 | 198.0 | 169.5 | 143.7 | 130.2 | 127.5 | 137.0 | 158.7 | 188.5 | 218.3 | 230.5 |
| 40° | 191.2 | 173.6 | 139.7 | 112.6 | 101.7 | 99.0 | 107.1 | 128.8 | 160.0 | 193.9 | 212.9 |
| 42.5° | 169.5 | 147.8 | 112.6 | 89.5 | 78.7 | 78.7 | 89.5 | 105.8 | 134.3 | 170.9 | 193.9 |
| 45° | 147.8 | 124.8 | 92.2 | 71.9 | 65.1 | 66.5 | 73.2 | 89.5 | 112.6 | 150.5 | 172.2 |
| 47.5° | 127.5 | 107.1 | 75.9 | 59.7 | 54.2 | 55.6 | 63.7 | 77.3 | 96.3 | 130.2 | 153.2 |
| 50° | 109.8 | 90.9 | 66.5 | 50.2 | 46.1 | 48.8 | 57.0 | 69.2 | 85.4 | 115.3 | 134.3 |
| 52.5° | 99.0 | 81.4 | 61.0 | 43.4 | 40.7 | 43.4 | 51.5 | 62.4 | 77.3 | 101.7 | 120.7 |
| 55° | 93.6 | 80.0 | 61.0 | 39.3 | 35.3 | 38.0 | 46.1 | 57.0 | 69.2 | 92.2 | 108.5 |
| 57.5° | 92.2 | 82.7 | 65.1 | 35.3 | 29.8 | 32.5 | 40.7 | 51.5 | 63.7 | 84.1 | 97.6 |
| 60° | 86.8 | 78.7 | 63.7 | 28.5 | 23.1 | 27.1 | 33.9 | 44.8 | 58.3 | 78.7 | 90.9 |
| 62.5° | 75.9 | 69.2 | 55.6 | 23.1 | 17.6 | 20.3 | 28.5 | 39.3 | 52.9 | 71.9 | 85.4 |
| 65° | 62.4 | 55.6 | 43.4 | 14.9 | 10.8 | 13.6 | 21.7 | 33.9 | 46.1 | 65.1 | 77.3 |
| 67.5° | 46.1 | 39.3 | 29.8 | 9.5 | 5.4 | 9.5 | 17.6 | 28.5 | 42.0 | 58.3 | 70.5 |
| 70° | 28.5 | 23.1 | 16.3 | 5.4 | 4.1 | 8.1 | 16.3 | 27.1 | 38.0 | 54.2 | 66.5 |
| 72.5° | 16.3 | 10.8 | 6.8 | 2.7 | 4.1 | 8.1 | 16.3 | 27.1 | 36.6 | 51.5 | 62.4 |
| 75° | 12.2 | 6.8 | 2.7 | 1.4 | 2.7 | 6.8 | 14.9 | 24.4 | 35.3 | 48.8 | 59.7 |
| 77.5° | 8.1 | 4.1 | 1.4 | 0.0 | 1.4 | 5.4 | 13.6 | 23.1 | 32.5 | 46.1 | 57.0 |
| 80° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 12.2 | 20.3 | 29.8 | 40.7 | 50.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 9.5 | 17.6 | 25.8 | 33.9 | 40.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 13.6 | 20.3 | 25.8 | 28.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 13.6 | 16.3 | 19.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| 0° | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 |
| 2.5° | 554.7 | 562.8 | 562.8 | 568.2 | 575.0 | 587.2 | 594.0 | 603.5 | 610.3 | 617.0 | 619.8 |
| 5° | 512.6 | 514.0 | 515.3 | 518.0 | 526.2 | 539.7 | 551.9 | 566.9 | 584.5 | 598.1 | 606.2 |
| 7.5° | 477.4 | 477.4 | 477.4 | 481.4 | 489.6 | 499.1 | 511.3 | 531.6 | 551.9 | 568.2 | 581.8 |
| 10° | 447.5 | 451.6 | 452.9 | 459.7 | 469.2 | 481.4 | 495.0 | 512.6 | 535.7 | 557.4 | 581.8 |
| 12.5° | 428.5 | 432.6 | 439.4 | 446.2 | 455.7 | 469.2 | 484.1 | 507.2 | 554.7 | 599.4 | 650.9 |
| 15° | 410.9 | 416.3 | 424.5 | 434.0 | 444.8 | 459.7 | 476.0 | 523.5 | 634.7 | 718.7 | 800.1 |
| 17.5° | 391.9 | 400.1 | 410.9 | 420.4 | 434.0 | 450.2 | 470.6 | 562.8 | 781.1 | 920.8 | 1059.1 |
| 20° | 367.5 | 378.4 | 390.6 | 405.5 | 421.8 | 440.7 | 470.6 | 644.2 | 992.7 | 1193.4 | 1376.5 |
| 22.5° | 344.5 | 355.3 | 370.2 | 389.2 | 408.2 | 427.2 | 477.4 | 767.6 | 1265.3 | 1518.9 | 1750.8 |
| 25° | 325.5 | 339.0 | 353.9 | 370.2 | 391.9 | 413.6 | 493.6 | 941.2 | 1593.5 | 1920.3 | 2084.4 |
| 27.5° | 307.8 | 324.1 | 339.0 | 352.6 | 371.6 | 396.0 | 530.2 | 1173.1 | 1981.3 | 2313.6 | 2442.4 |
| 30° | 290.2 | 309.2 | 324.1 | 337.7 | 356.7 | 382.4 | 585.8 | 1468.7 | 2412.6 | 2735.3 | 2748.9 |
| 32.5° | 275.3 | 292.9 | 310.6 | 324.1 | 341.7 | 371.6 | 663.1 | 1814.5 | 2854.7 | 3166.6 | 3039.1 |
| 35° | 259.0 | 279.4 | 295.6 | 310.6 | 329.5 | 362.1 | 752.7 | 2187.4 | 3300.8 | 3562.6 | 3327.9 |
| 37.5° | 242.7 | 265.8 | 286.1 | 297.0 | 316.0 | 352.6 | 817.7 | 2576.6 | 3756.5 | 3949.0 | 3581.5 |
| 40° | 227.8 | 253.6 | 276.7 | 287.5 | 297.0 | 340.4 | 827.2 | 2975.3 | 4218.9 | 4330.1 | 3820.2 |
| 42.5° | 211.6 | 240.0 | 260.4 | 275.3 | 283.4 | 332.3 | 770.3 | 3311.7 | 4606.8 | 4709.8 | 4132.1 |
| 45° | 193.9 | 227.8 | 244.1 | 255.0 | 271.2 | 337.7 | 697.1 | 3572.0 | 5050.2 | 5227.9 | 4646.1 |
| 47.5° | 176.3 | 214.3 | 227.8 | 236.0 | 257.7 | 370.2 | 669.9 | 3745.6 | 5781.2 | 6150.0 | 5512.7 |
| 50° | 160.0 | 202.1 | 217.0 | 215.6 | 255.0 | 412.3 | 699.8 | 3877.2 | 6879.6 | 7313.6 | 6700.6 |
| 52.5° | 142.4 | 188.5 | 206.1 | 200.7 | 275.3 | 444.8 | 759.4 | 3981.6 | 7724.5 | 8677.9 | 8296.8 |
| 55° | 127.5 | 173.6 | 189.9 | 188.5 | 313.3 | 469.2 | 805.5 | 3431.0 | 8074.4 | 9945.9 | 10095.0 |
| 57.5° | 116.6 | 157.3 | 170.9 | 193.9 | 337.7 | 469.2 | 931.7 | 2435.6 | 8081.2 | 10878.9 | 12481.8 |
| 60° | 107.1 | 142.4 | 151.9 | 212.9 | 328.2 | 444.8 | 922.2 | 1491.7 | 7447.9 | 10815.1 | 13751.2 |
| 62.5° | 99.0 | 128.8 | 141.0 | 218.3 | 290.2 | 440.7 | 832.7 | 924.9 | 6352.1 | 9992.0 | 12830.3 |
| 65° | 92.2 | 118.0 | 135.6 | 200.7 | 263.1 | 471.9 | 561.4 | 664.5 | 5151.9 | 9053.5 | 11773.9 |
| 67.5° | 85.4 | 108.5 | 143.7 | 164.1 | 238.7 | 421.8 | 405.5 | 471.9 | 4044.0 | 8024.2 | 10804.3 |
| 70° | 80.0 | 103.1 | 151.9 | 134.3 | 208.8 | 329.5 | 287.5 | 358.0 | 3096.0 | 6695.2 | 9438.7 |
| 72.5° | 75.9 | 96.3 | 127.5 | 105.8 | 169.5 | 255.0 | 200.7 | 260.4 | 2023.3 | 5226.5 | 7694.7 |
| 75° | 71.9 | 88.1 | 93.6 | 85.4 | 126.1 | 166.8 | 151.9 | 174.9 | 1205.6 | 3820.2 | 5838.1 |
| 77.5° | 70.5 | 82.7 | 75.9 | 69.2 | 85.4 | 99.0 | 115.3 | 118.0 | 588.6 | 1910.8 | 3059.4 |
| 80° | 62.4 | 74.6 | 65.1 | 57.0 | 58.3 | 65.1 | 85.4 | 78.7 | 134.3 | 485.5 | 816.4 |
| 82.5° | 48.8 | 58.3 | 54.2 | 47.5 | 47.5 | 47.5 | 57.0 | 52.9 | 43.4 | 218.3 | 368.9 |
| 85° | 33.9 | 40.7 | 40.7 | 38.0 | 36.6 | 36.6 | 35.3 | 33.9 | 12.2 | 13.6 | 20.3 |
| 87.5° | 23.1 | 28.5 | 29.8 | 28.5 | 24.4 | 21.7 | 19.0 | 16.3 | 5.4 | 0.0 | 2.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P639966

CATALOG NUMBER: GWS-SA5C-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 | 594.0 |
| 2.5° | 629.2 | 633.3 | 633.3 | 627.9 | 623.8 | 613.0 | 602.1 | 591.3 | 588.6 | 587.2 |
| 5° | 629.2 | 645.5 | 653.7 | 652.3 | 642.8 | 625.2 | 602.1 | 577.7 | 570.9 | 568.2 |
| 7.5° | 619.8 | 650.9 | 675.4 | 679.4 | 661.8 | 630.6 | 588.6 | 551.9 | 542.5 | 538.4 |
| 10° | 641.4 | 702.5 | 751.3 | 758.1 | 737.7 | 676.7 | 608.9 | 546.5 | 531.6 | 522.1 |
| 12.5° | 758.1 | 858.4 | 918.1 | 946.6 | 907.3 | 830.0 | 717.4 | 606.2 | 572.3 | 557.4 |
| 15° | 994.0 | 1136.4 | 1250.4 | 1250.4 | 1213.7 | 1076.8 | 934.4 | 754.0 | 707.9 | 667.2 |
| 17.5° | 1296.5 | 1475.5 | 1575.8 | 1565.0 | 1509.4 | 1413.1 | 1242.2 | 983.2 | 889.6 | 847.6 |
| 20° | 1640.9 | 1748.1 | 1771.1 | 1764.3 | 1739.9 | 1684.3 | 1566.3 | 1288.3 | 1162.2 | 1097.1 |
| 22.5° | 1939.3 | 1910.8 | 1876.9 | 1849.8 | 1843.0 | 1859.3 | 1843.0 | 1628.7 | 1529.7 | 1414.4 |
| 25° | 2141.3 | 1979.9 | 1878.2 | 1829.4 | 1852.5 | 1946.0 | 2047.8 | 1967.7 | 1889.1 | 1769.7 |
| 27.5° | 2251.2 | 1971.8 | 1825.3 | 1775.2 | 1814.5 | 1947.4 | 2168.5 | 2304.1 | 2222.7 | 2165.7 |
| 30° | 2310.8 | 1965.0 | 1791.4 | 1742.6 | 1802.3 | 1969.1 | 2252.5 | 2618.7 | 2621.4 | 2530.5 |
| 32.5° | 2396.3 | 2008.4 | 1798.2 | 1753.5 | 1833.5 | 2034.2 | 2358.3 | 2938.7 | 3017.4 | 2968.6 |
| 35° | 2492.6 | 2074.9 | 1829.4 | 1788.7 | 1887.7 | 2121.0 | 2476.3 | 3261.5 | 3425.6 | 3409.3 |
| 37.5° | 2583.4 | 2149.5 | 1902.6 | 1863.3 | 1970.5 | 2195.6 | 2590.2 | 3578.8 | 3806.7 | 3863.6 |
| 40° | 2678.4 | 2253.9 | 2127.8 | 2165.7 | 2225.4 | 2313.6 | 2691.9 | 3854.1 | 4225.7 | 4311.1 |
| 42.5° | 2902.1 | 2616.0 | 2808.5 | 2880.4 | 2888.6 | 2706.8 | 2914.3 | 4206.7 | 4638.0 | 4739.7 |
| 45° | 3401.2 | 3260.1 | 3812.1 | 3913.8 | 3860.9 | 3310.3 | 3450.0 | 4715.3 | 5214.3 | 5265.8 |
| 47.5° | 4031.8 | 4096.9 | 5185.8 | 5537.1 | 5219.7 | 4022.3 | 4099.6 | 5785.2 | 6269.4 | 6250.4 |
| 50° | 4766.8 | 5074.6 | 6745.4 | 7574.0 | 6814.5 | 4947.2 | 4848.2 | 7100.7 | 7687.9 | 7629.6 |
| 52.5° | 5636.1 | 6211.1 | 8619.6 | 9796.7 | 9077.9 | 5987.3 | 5946.6 | 8843.3 | 9201.3 | 9015.5 |
| 55° | 6730.5 | 7308.2 | 10775.8 | 12420.8 | 11398.3 | 7256.6 | 7396.3 | 10864.0 | 10933.1 | 10343.2 |
| 57.5° | 8363.2 | 8738.9 | 13317.2 | 15430.0 | 13820.3 | 8981.6 | 9994.7 | 13553.2 | 12725.9 | 11608.5 |
| 60° | 11327.7 | 10579.2 | 15773.1 | 18508.5 | 16397.0 | 11407.8 | 13421.6 | 15146.6 | 13322.6 | 11782.1 |
| 62.5° | 12359.8 | 12141.4 | 17311.0 | 19810.3 | 18130.1 | 13399.9 | 14312.6 | 14243.4 | 12549.6 | 11125.7 |
| 65° | 10796.1 | 11752.2 | 17035.7 | 19122.8 | 17907.7 | 13071.7 | 12843.9 | 13246.7 | 11679.0 | 10128.9 |
| 67.5° | 9973.0 | 10838.2 | 15992.8 | 17225.6 | 16675.0 | 11958.3 | 11448.4 | 11338.6 | 9804.8 | 8570.7 |
| 70° | 9143.0 | 10000.1 | 14480.7 | 14634.0 | 14377.7 | 10143.8 | 9473.9 | 8737.5 | 7328.5 | 6255.8 |
| 72.5° | 8144.9 | 8616.8 | 12382.8 | 11655.9 | 11365.7 | 7967.3 | 7826.2 | 6579.9 | 5493.7 | 4572.9 |
| 75° | 7103.4 | 6966.4 | 9654.3 | 7999.8 | 8216.8 | 6198.9 | 6609.8 | 4831.9 | 4025.0 | 3291.3 |
| 77.5° | 5166.9 | 5065.1 | 6466.0 | 4859.0 | 5381.1 | 4060.3 | 3648.0 | 1928.4 | 1836.2 | 1584.0 |
| 80° | 2883.1 | 3475.8 | 3492.0 | 2723.1 | 3397.1 | 2647.2 | 912.7 | 63.7 | 40.7 | 59.7 |
| 82.5° | 1339.9 | 1494.5 | 1893.2 | 1262.6 | 1937.9 | 1311.4 | 188.5 | 0.0 | 0.0 | 0.0 |
| 85° | 434.0 | 634.7 | 531.6 | 185.8 | 469.2 | 443.5 | 31.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.8 | 52.9 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 81.0 | | |
| R1: | 79.6 | R9: | 7.1 |
| R2: | 85.6 | R10: | 67.0 |
| R3: | 92.0 | R11: | 82.7 |
| R4: | 82.6 | R12: | 63.2 |
| R5: | 78.9 | R13: | 80.3 |
| R6: | 81.7 | R14: | 95.0 |
| R7: | 85.2 | R15: | 71.7 |
| R8: | 62.0 | | |



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



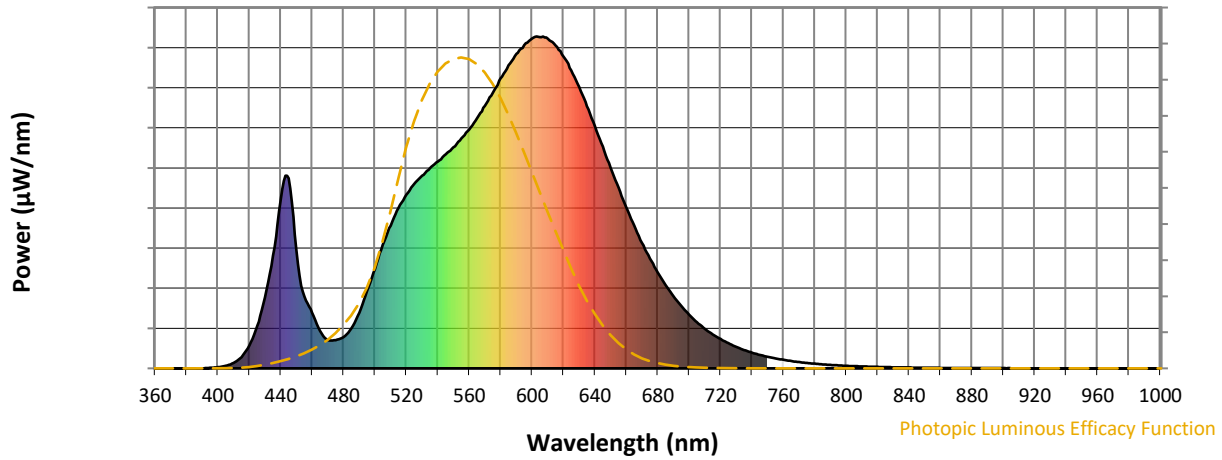
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 92 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 94 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 91 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 78 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)