

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: STREETWORKS

Report Number: P363912

Luminaire Tested: NVN-SA2D-750-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P363912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA2D-750-U-SLL-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11829 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

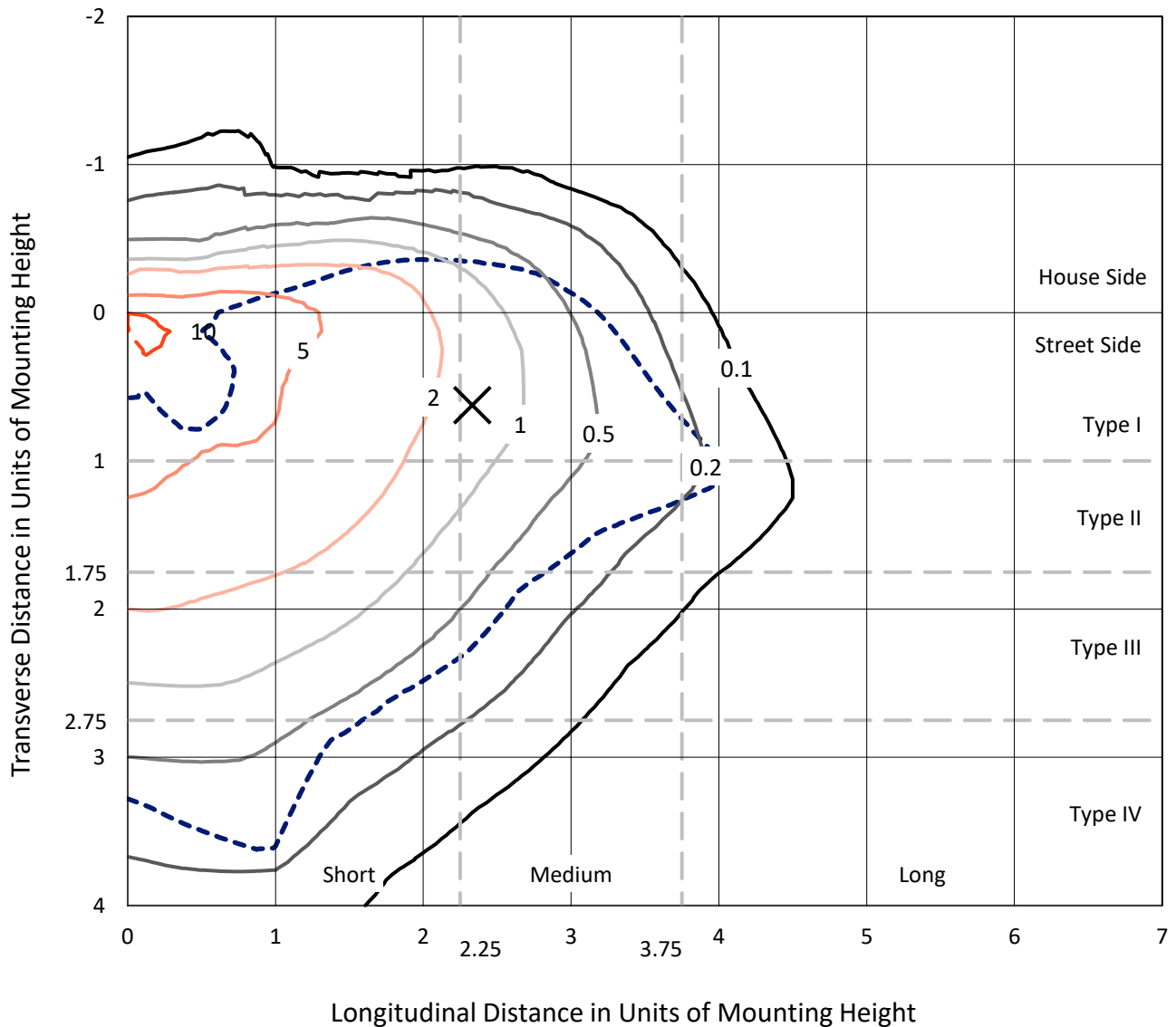
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

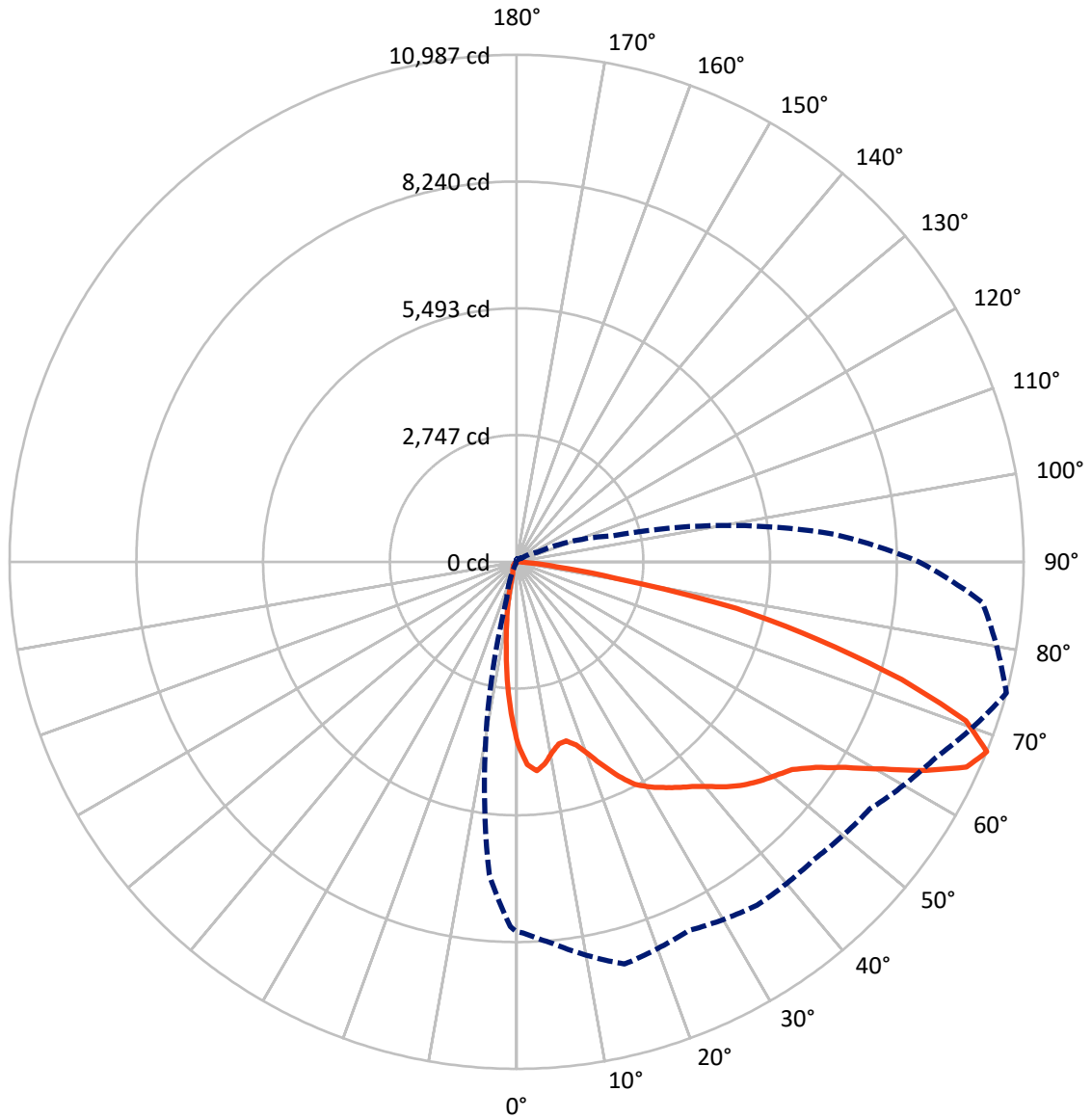
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P363912
CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

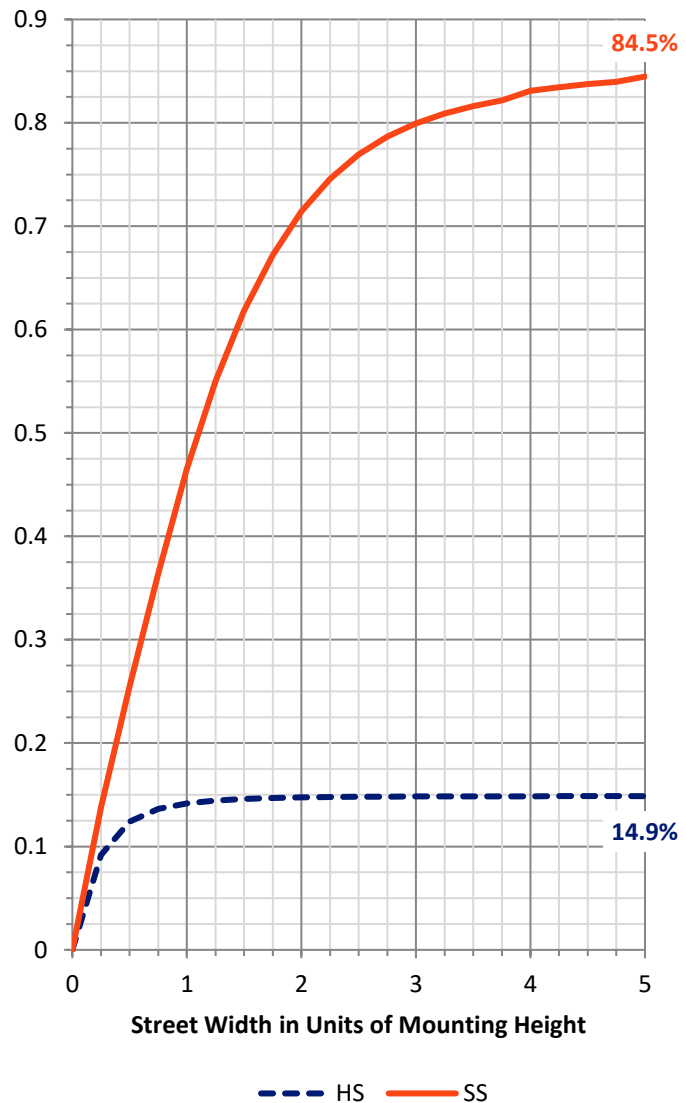
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1775.1 | 0.0 | 1775.1 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 10053.9 | 0.0 | 10053.9 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 11829.0 | 0.0 | 11829.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 301.0 | 2.5 |
| 10°-20° | 592.7 | 5.0 |
| 20°-30° | 838.5 | 7.1 |
| 30°-40° | 1232.9 | 10.4 |
| 40°-50° | 1772.0 | 15.0 |
| 50°-60° | 2494.6 | 21.1 |
| 60°-70° | 2913.4 | 24.6 |
| 70°-80° | 1486.3 | 12.6 |
| 80°-90° | 197.4 | 1.7 |
| 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° | 11829.0 | 100.0 |
| 0°-180° | 11829.0 | 100.0 |

Coefficient of Utilization

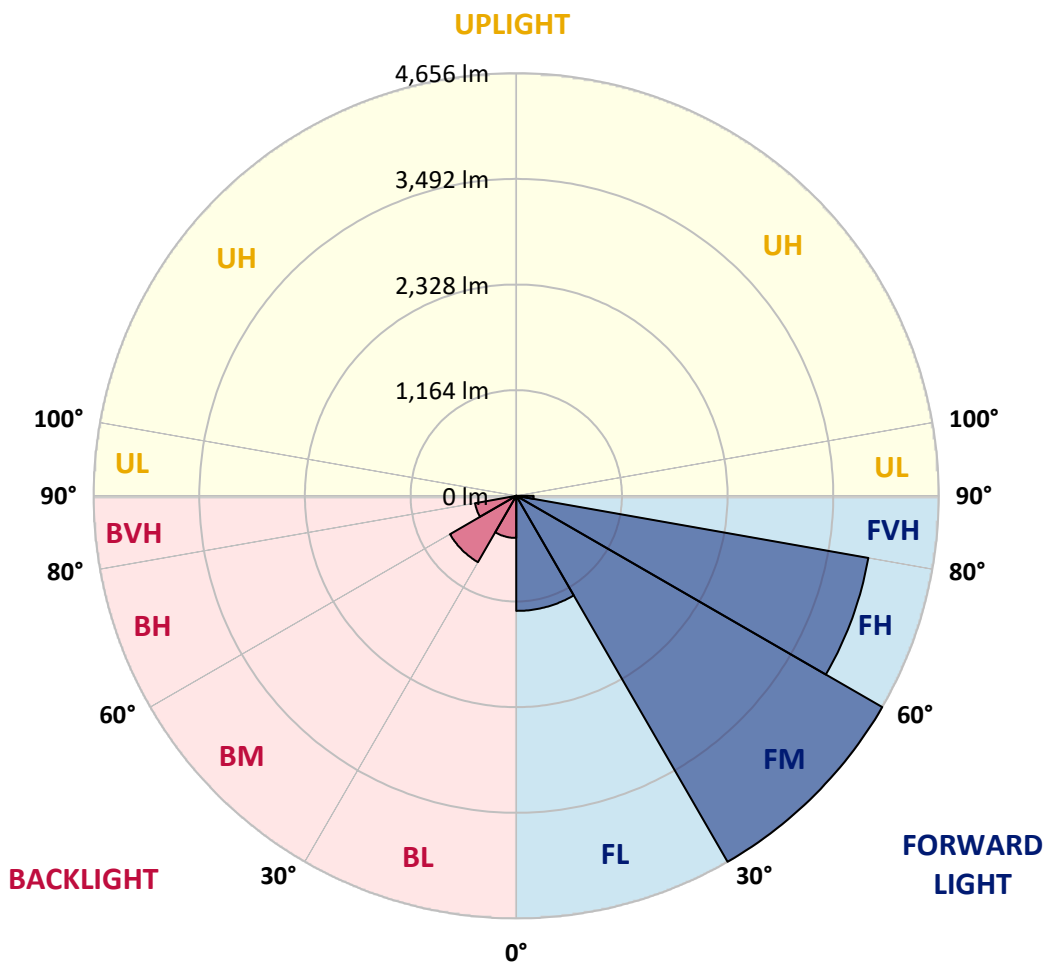


REPORT NUMBER: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1268.1 | 10.7 | | | |
| FM (30°-60°) | 4655.7 | 39.4 | | | |
| FH (60°-80°) | 3938.7 | 33.3 | | | G2/5000 |
| FVH (80°-90°) | 191.5 | 1.6 | | | G2/225 |
| BL (0°-30°) | 464.2 | 3.9 | B1/500 | | |
| BM (30°-60°) | 843.8 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 461.1 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 |
| 2.5° | 4301.8 | 4308.6 | 4343.3 | 4424.0 | 4512.0 | 4518.7 | 4578.1 | 4517.0 | 4496.3 | 4397.7 | 4295.7 |
| 5° | 4334.3 | 4360.1 | 4479.5 | 4716.5 | 4922.1 | 4988.3 | 5035.3 | 4915.4 | 4789.3 | 4548.4 | 4291.2 |
| 7.5° | 4072.7 | 4115.8 | 4303.5 | 4748.4 | 5116.0 | 5278.5 | 5309.4 | 5121.6 | 4812.9 | 4416.2 | 4029.5 |
| 10° | 3737.6 | 3786.9 | 4013.3 | 4560.2 | 5065.0 | 5343.5 | 5386.1 | 5140.1 | 4696.3 | 4202.1 | 3746.5 |
| 12.5° | 3466.3 | 3524.1 | 3755.5 | 4348.3 | 4889.6 | 5197.8 | 5281.9 | 5077.9 | 4595.5 | 4050.2 | 3553.2 |
| 15° | 3341.4 | 3407.5 | 3650.7 | 4211.6 | 4695.2 | 4937.8 | 5007.3 | 4919.3 | 4539.4 | 4026.1 | 3508.4 |
| 17.5° | 3413.1 | 3484.8 | 3735.9 | 4223.4 | 4512.5 | 4616.2 | 4672.2 | 4708.1 | 4539.4 | 4171.3 | 3639.5 |
| 20° | 3707.3 | 3784.6 | 4050.2 | 4342.7 | 4361.2 | 4322.6 | 4382.5 | 4508.6 | 4592.1 | 4447.0 | 3954.4 |
| 22.5° | 4114.1 | 4204.9 | 4504.7 | 4547.3 | 4287.3 | 4141.0 | 4148.9 | 4346.7 | 4687.9 | 4796.6 | 4391.5 |
| 25° | 4610.0 | 4721.0 | 5025.8 | 4852.1 | 4318.1 | 4032.9 | 4030.1 | 4213.3 | 4781.5 | 5146.9 | 4878.4 |
| 27.5° | 5102.6 | 5224.7 | 5492.6 | 5224.2 | 4445.3 | 4013.3 | 4007.7 | 4173.0 | 4872.8 | 5458.4 | 5410.2 |
| 30° | 5515.6 | 5634.4 | 5865.2 | 5493.7 | 4582.6 | 4059.2 | 4032.3 | 4216.1 | 4927.2 | 5660.7 | 5798.0 |
| 32.5° | 5851.8 | 5947.0 | 6133.6 | 5679.2 | 4729.4 | 4148.3 | 4090.0 | 4331.5 | 5019.7 | 5831.6 | 6154.4 |
| 35° | 6221.6 | 6321.9 | 6396.4 | 5855.7 | 4894.1 | 4276.6 | 4193.1 | 4514.8 | 5162.0 | 6005.3 | 6544.9 |
| 37.5° | 6643.6 | 6743.3 | 6734.3 | 6017.1 | 5103.1 | 4489.0 | 4435.8 | 4805.0 | 5383.3 | 6177.3 | 6980.9 |
| 40° | 7056.5 | 7158.5 | 7085.7 | 6193.6 | 5348.6 | 4839.2 | 4800.0 | 5241.0 | 5679.7 | 6397.6 | 7491.9 |
| 42.5° | 7443.2 | 7553.6 | 7397.8 | 6360.6 | 5641.1 | 5280.8 | 5348.0 | 5802.5 | 6050.7 | 6668.8 | 7932.4 |
| 45° | 7754.7 | 7867.4 | 7659.5 | 6523.1 | 5949.3 | 5816.5 | 6018.8 | 6424.5 | 6496.7 | 6898.0 | 8229.9 |
| 47.5° | 7981.1 | 8087.6 | 7841.0 | 6685.6 | 6343.8 | 6471.5 | 6824.0 | 7076.7 | 6899.6 | 7096.9 | 8441.2 |
| 50° | 8125.7 | 8208.6 | 7894.3 | 6889.0 | 6861.5 | 7235.9 | 7662.8 | 7786.1 | 7279.0 | 7276.2 | 8697.8 |
| 52.5° | 8217.6 | 8255.1 | 7933.5 | 7101.4 | 7401.7 | 8068.0 | 8484.3 | 8523.0 | 7669.6 | 7473.4 | 9043.6 |
| 55° | 8534.2 | 8564.5 | 8211.4 | 7358.6 | 7848.3 | 8797.0 | 9227.3 | 9191.5 | 8111.7 | 7859.5 | 9451.5 |
| 57.5° | 9074.4 | 9106.3 | 8785.8 | 7728.4 | 8209.7 | 9247.5 | 9765.8 | 9830.3 | 8630.0 | 8401.9 | 9888.6 |
| 60° | 9345.6 | 9405.0 | 9290.7 | 8196.9 | 8560.0 | 9535.5 | 10132.9 | 10338.5 | 9277.8 | 9117.0 | 10312.2 |
| 62.5° | 9099.6 | 9185.9 | 9351.7 | 8716.3 | 8907.9 | 9694.1 | 10247.2 | 10520.6 | 9941.2 | 9950.2 | 10573.3 |
| 65° | 8608.7 | 8677.6 | 8958.9 | 9001.0 | 9109.7 | 9674.5 | 9964.8 | 10266.2 | 10347.5 | 10715.6 | 10559.3 |
| 67.5° | 8015.9 | 8041.6 | 8280.4 | 9023.4 | 8817.2 | 9085.0 | 9116.4 | 9339.4 | 10026.4 | 10986.9 | 10135.1 |
| 70° | 7162.4 | 7176.5 | 7384.9 | 8273.1 | 7577.1 | 7635.9 | 7589.4 | 7634.8 | 8619.9 | 10326.2 | 9064.3 |
| 72.5° | 5764.4 | 5799.7 | 6096.1 | 6870.5 | 5520.0 | 5350.3 | 5715.6 | 5695.4 | 6638.5 | 8724.2 | 6732.1 |
| 75° | 4244.1 | 4305.2 | 4752.9 | 5534.1 | 3874.3 | 3504.5 | 3771.2 | 3842.3 | 4719.3 | 6748.3 | 4209.9 |
| 77.5° | 2971.6 | 3016.9 | 3450.7 | 4068.2 | 2804.0 | 2505.9 | 2409.5 | 2494.1 | 3115.0 | 4881.8 | 2120.9 |
| 80° | 1711.9 | 1728.7 | 2005.5 | 2349.0 | 1889.5 | 2161.8 | 1958.4 | 2016.7 | 1866.5 | 2171.9 | 912.3 |
| 82.5° | 1120.1 | 1122.9 | 1231.1 | 1398.1 | 1176.7 | 1367.3 | 1012.0 | 1293.9 | 1148.2 | 872.5 | 297.0 |
| 85° | 605.2 | 608.5 | 713.9 | 992.4 | 666.3 | 376.6 | 221.3 | 454.4 | 710.0 | 200.0 | 81.3 |
| 87.5° | 66.7 | 61.1 | 215.2 | 360.9 | 184.9 | 34.2 | 11.8 | 51.0 | 113.8 | 12.9 | 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: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 |
| 2.5° | 4243.6 | 4197.1 | 4081.1 | 3958.3 | 3859.7 | 3767.3 | 3674.2 | 3560.5 | 3472.5 | 3454.6 | 3425.4 |
| 5° | 4152.8 | 4005.4 | 3762.2 | 3517.9 | 3321.2 | 3073.0 | 2915.5 | 2792.8 | 2672.9 | 2665.6 | 2641.5 |
| 7.5° | 3835.6 | 3641.7 | 3299.4 | 2961.5 | 2684.7 | 2448.2 | 2209.5 | 2049.8 | 1924.3 | 1880.0 | 1853.7 |
| 10° | 3530.8 | 3312.8 | 2885.3 | 2499.7 | 2252.6 | 2043.6 | 1875.5 | 1708.5 | 1557.2 | 1453.0 | 1405.9 |
| 12.5° | 3317.9 | 3076.9 | 2605.6 | 2273.4 | 2096.3 | 1897.9 | 1692.8 | 1484.4 | 1310.1 | 1184.6 | 1107.8 |
| 15° | 3235.5 | 2978.3 | 2512.1 | 2183.7 | 1965.2 | 1714.1 | 1451.9 | 1213.7 | 1020.4 | 906.7 | 837.7 |
| 17.5° | 3333.5 | 3034.3 | 2504.8 | 2074.4 | 1769.0 | 1456.9 | 1167.2 | 885.9 | 703.8 | 617.5 | 573.2 |
| 20° | 3582.3 | 3212.5 | 2502.0 | 1940.5 | 1535.9 | 1152.1 | 790.7 | 582.8 | 472.4 | 424.2 | 403.5 |
| 22.5° | 3934.2 | 3440.0 | 2524.4 | 1808.3 | 1293.3 | 823.2 | 545.8 | 428.1 | 371.5 | 345.7 | 334.0 |
| 25° | 4387.0 | 3759.4 | 2587.7 | 1688.3 | 1065.2 | 614.1 | 425.3 | 358.6 | 318.8 | 298.7 | 290.3 |
| 27.5° | 4869.5 | 4127.0 | 2686.3 | 1584.1 | 879.8 | 489.7 | 364.2 | 307.1 | 278.5 | 264.5 | 256.6 |
| 30° | 5267.3 | 4552.9 | 2786.1 | 1468.1 | 745.3 | 427.0 | 333.4 | 280.2 | 247.1 | 238.2 | 230.9 |
| 32.5° | 5615.3 | 4875.1 | 2856.7 | 1363.3 | 657.3 | 379.4 | 301.5 | 250.5 | 228.1 | 210.7 | 202.8 |
| 35° | 5975.6 | 5143.5 | 2854.4 | 1289.9 | 596.8 | 343.5 | 274.6 | 224.1 | 197.2 | 177.1 | 170.9 |
| 37.5° | 6365.6 | 5446.6 | 2805.7 | 1227.2 | 570.4 | 314.9 | 259.4 | 210.1 | 183.2 | 163.1 | 155.2 |
| 40° | 6822.3 | 5764.9 | 2755.8 | 1168.3 | 563.2 | 291.9 | 248.8 | 198.9 | 170.3 | 150.7 | 142.9 |
| 42.5° | 7267.2 | 6051.8 | 2712.1 | 1124.6 | 531.8 | 291.4 | 239.3 | 190.5 | 160.3 | 141.2 | 132.2 |
| 45° | 7623.1 | 6319.1 | 2703.7 | 1098.3 | 498.7 | 301.5 | 234.2 | 184.9 | 152.4 | 133.4 | 125.0 |
| 47.5° | 7918.9 | 6609.4 | 2757.5 | 1079.8 | 467.3 | 275.1 | 246.6 | 181.0 | 145.1 | 126.6 | 117.1 |
| 50° | 8270.8 | 6965.8 | 2884.1 | 1049.5 | 434.3 | 247.7 | 282.4 | 182.1 | 139.0 | 119.9 | 109.8 |
| 52.5° | 8761.7 | 7458.9 | 3070.2 | 998.6 | 388.9 | 222.5 | 277.9 | 183.2 | 132.2 | 112.6 | 102.5 |
| 55° | 9312.0 | 8074.7 | 3270.2 | 913.9 | 325.6 | 189.4 | 238.2 | 175.4 | 119.4 | 104.8 | 95.3 |
| 57.5° | 9890.2 | 8633.4 | 3389.0 | 813.1 | 258.9 | 163.6 | 190.5 | 159.7 | 105.3 | 94.1 | 88.0 |
| 60° | 9981.0 | 8845.7 | 3334.7 | 689.2 | 205.6 | 142.3 | 141.2 | 162.5 | 94.1 | 82.9 | 78.4 |
| 62.5° | 9755.2 | 8579.0 | 3071.9 | 578.8 | 172.0 | 125.0 | 116.0 | 141.8 | 85.2 | 74.0 | 69.5 |
| 65° | 9320.9 | 7857.8 | 2646.0 | 521.7 | 159.7 | 107.0 | 96.4 | 99.7 | 74.5 | 64.4 | 60.5 |
| 67.5° | 8716.9 | 6895.2 | 2172.5 | 489.2 | 158.0 | 91.9 | 82.4 | 75.6 | 64.4 | 56.0 | 52.7 |
| 70° | 7481.8 | 5744.2 | 1733.2 | 471.3 | 153.5 | 77.3 | 69.5 | 61.6 | 53.8 | 47.6 | 44.8 |
| 72.5° | 5506.6 | 4070.4 | 1348.2 | 451.6 | 154.7 | 61.6 | 60.5 | 51.0 | 43.1 | 37.0 | 35.9 |
| 75° | 3181.7 | 2325.5 | 884.2 | 365.9 | 147.4 | 47.6 | 50.4 | 35.9 | 30.3 | 25.8 | 25.8 |
| 77.5° | 1695.6 | 1418.3 | 336.8 | 152.4 | 53.8 | 30.3 | 28.6 | 21.3 | 19.1 | 15.7 | 15.1 |
| 80° | 739.1 | 624.2 | 101.4 | 42.6 | 29.7 | 16.3 | 10.6 | 9.5 | 8.4 | 6.7 | 6.2 |
| 82.5° | 261.7 | 225.8 | 33.1 | 20.7 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 59.4 | 42.6 | 0.0 | 5.0 | 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: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 |
| 2.5° | 3366.0 | 3353.7 | 3280.9 | 3283.7 | 3296.6 | 3315.1 | 3271.3 | 3291.5 | 3345.9 | 3398.0 | 3417.6 |
| 5° | 2602.8 | 2605.6 | 2561.4 | 2588.8 | 2613.5 | 2630.3 | 2559.7 | 2560.8 | 2604.0 | 2662.8 | 2693.6 |
| 7.5° | 1834.0 | 1829.6 | 1831.8 | 1897.4 | 1943.9 | 1910.2 | 1936.6 | 1845.2 | 1850.8 | 1892.9 | 1861.5 |
| 10° | 1363.3 | 1301.7 | 1267.0 | 1316.3 | 1367.3 | 1348.8 | 1303.4 | 1273.7 | 1294.4 | 1340.9 | 1337.6 |
| 12.5° | 1071.4 | 982.9 | 930.7 | 895.4 | 937.5 | 902.7 | 901.6 | 875.8 | 847.8 | 852.9 | 927.4 |
| 15° | 805.8 | 741.3 | 679.7 | 623.1 | 622.0 | 610.2 | 550.3 | 483.0 | 477.4 | 480.8 | 519.4 |
| 17.5° | 554.2 | 532.3 | 507.1 | 458.4 | 445.5 | 396.2 | 337.9 | 311.0 | 297.5 | 303.7 | 316.6 |
| 20° | 389.4 | 381.0 | 383.8 | 357.5 | 339.0 | 291.9 | 257.8 | 247.1 | 244.9 | 251.0 | 257.2 |
| 22.5° | 322.8 | 307.6 | 306.0 | 294.2 | 275.7 | 241.5 | 223.0 | 216.9 | 214.1 | 219.7 | 224.1 |
| 25° | 282.4 | 267.3 | 261.1 | 253.8 | 234.2 | 210.7 | 199.5 | 193.9 | 191.1 | 194.4 | 197.2 |
| 27.5° | 248.8 | 234.8 | 229.2 | 224.1 | 205.1 | 188.3 | 179.3 | 174.3 | 172.0 | 173.1 | 176.0 |
| 30° | 223.6 | 211.3 | 204.0 | 197.8 | 181.6 | 169.8 | 161.9 | 156.9 | 154.7 | 154.7 | 157.5 |
| 32.5° | 197.2 | 190.5 | 183.8 | 176.0 | 160.8 | 153.0 | 145.1 | 139.5 | 137.3 | 137.8 | 140.1 |
| 35° | 164.2 | 161.9 | 163.6 | 156.3 | 143.5 | 136.7 | 128.9 | 122.7 | 121.0 | 121.6 | 123.8 |
| 37.5° | 145.7 | 135.6 | 141.8 | 137.8 | 130.6 | 121.6 | 111.5 | 105.9 | 103.1 | 104.8 | 105.9 |
| 40° | 133.9 | 121.6 | 117.1 | 121.0 | 119.9 | 105.3 | 96.4 | 90.8 | 88.5 | 89.1 | 90.2 |
| 42.5° | 123.8 | 109.3 | 99.2 | 98.6 | 105.3 | 91.9 | 82.4 | 77.3 | 74.5 | 74.5 | 75.6 |
| 45° | 114.3 | 98.6 | 86.3 | 76.8 | 88.5 | 77.9 | 68.9 | 64.4 | 61.1 | 61.1 | 61.6 |
| 47.5° | 107.0 | 89.7 | 75.1 | 62.8 | 66.7 | 63.9 | 56.6 | 52.1 | 48.8 | 48.8 | 49.3 |
| 50° | 100.3 | 80.7 | 65.0 | 52.7 | 49.9 | 52.7 | 45.9 | 40.9 | 38.7 | 38.1 | 39.2 |
| 52.5° | 93.0 | 71.7 | 55.5 | 44.8 | 39.2 | 39.8 | 35.9 | 32.5 | 29.7 | 29.7 | 30.8 |
| 55° | 85.7 | 64.4 | 48.2 | 38.1 | 32.5 | 29.7 | 28.6 | 26.3 | 24.1 | 24.1 | 25.2 |
| 57.5° | 78.4 | 56.6 | 40.9 | 31.4 | 25.8 | 23.5 | 23.5 | 21.9 | 20.2 | 20.2 | 21.3 |
| 60° | 71.7 | 48.8 | 33.6 | 25.8 | 20.2 | 19.6 | 20.2 | 18.5 | 17.4 | 17.4 | 18.5 |
| 62.5° | 63.9 | 41.5 | 27.5 | 21.3 | 16.3 | 15.7 | 17.4 | 16.3 | 15.1 | 15.1 | 16.3 |
| 65° | 54.4 | 35.3 | 21.9 | 16.3 | 12.3 | 12.3 | 14.6 | 13.4 | 12.3 | 12.3 | 13.4 |
| 67.5° | 45.9 | 29.7 | 16.8 | 11.8 | 9.0 | 9.5 | 12.3 | 11.2 | 10.6 | 10.6 | 11.8 |
| 70° | 38.1 | 23.0 | 11.8 | 7.3 | 5.0 | 7.3 | 9.5 | 9.5 | 9.5 | 9.5 | 10.6 |
| 72.5° | 28.6 | 15.7 | 6.7 | 2.8 | 2.2 | 5.0 | 7.8 | 9.0 | 8.4 | 8.4 | 10.1 |
| 75° | 18.5 | 9.0 | 2.2 | 0.0 | 0.0 | 2.8 | 6.2 | 7.3 | 7.3 | 6.7 | 8.4 |
| 77.5° | 10.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 3.4 | 2.8 | 2.2 | 3.9 |
| 80° | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P363912
 CATALOG NUMBER: NVN-SA2D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 | 3968.4 |
| 2.5° | 3496.6 | 3562.7 | 3655.7 | 3754.4 | 3906.2 | 4026.7 | 4144.9 | 4246.4 | 4285.6 | 4301.8 |
| 5° | 2767.6 | 2864.5 | 3000.7 | 3175.5 | 3449.5 | 3696.1 | 3946.0 | 4197.6 | 4306.9 | 4334.3 |
| 7.5° | 1985.9 | 2109.7 | 2282.9 | 2502.0 | 2823.1 | 3142.5 | 3491.6 | 3860.8 | 4030.1 | 4072.7 |
| 10° | 1469.8 | 1621.1 | 1819.5 | 2050.3 | 2356.8 | 2685.2 | 3065.7 | 3487.6 | 3681.0 | 3737.6 |
| 12.5° | 1042.8 | 1247.3 | 1513.0 | 1793.7 | 2059.3 | 2352.4 | 2737.3 | 3202.4 | 3405.3 | 3466.3 |
| 15° | 612.5 | 810.3 | 1124.6 | 1500.6 | 1840.8 | 2137.8 | 2528.9 | 3056.2 | 3279.8 | 3341.4 |
| 17.5° | 351.3 | 450.0 | 687.6 | 1106.7 | 1568.4 | 1979.7 | 2463.3 | 3092.6 | 3356.0 | 3413.1 |
| 20° | 268.4 | 299.8 | 396.2 | 712.8 | 1250.1 | 1824.5 | 2463.3 | 3298.8 | 3623.2 | 3707.3 |
| 22.5° | 234.8 | 257.8 | 297.0 | 425.3 | 920.1 | 1658.1 | 2491.9 | 3596.9 | 4021.1 | 4114.1 |
| 25° | 208.5 | 229.2 | 262.8 | 320.0 | 627.6 | 1460.3 | 2559.7 | 3962.8 | 4489.6 | 4610.0 |
| 27.5° | 186.6 | 206.2 | 236.5 | 280.2 | 429.2 | 1221.6 | 2651.0 | 4392.1 | 5006.2 | 5102.6 |
| 30° | 167.0 | 185.5 | 212.9 | 243.8 | 331.2 | 950.9 | 2728.9 | 4796.6 | 5411.9 | 5515.6 |
| 32.5° | 148.5 | 165.3 | 190.0 | 212.9 | 271.2 | 703.2 | 2737.3 | 5117.2 | 5748.7 | 5851.8 |
| 35° | 131.1 | 146.3 | 168.7 | 186.6 | 224.7 | 555.3 | 2606.8 | 5395.1 | 6085.4 | 6221.6 |
| 37.5° | 114.3 | 128.9 | 148.5 | 161.9 | 197.8 | 452.8 | 2407.3 | 5705.0 | 6517.5 | 6643.6 |
| 40° | 98.6 | 111.5 | 131.7 | 140.6 | 187.2 | 348.0 | 2190.4 | 6030.0 | 6941.1 | 7056.5 |
| 42.5° | 84.1 | 96.4 | 116.0 | 133.4 | 164.2 | 260.0 | 1956.2 | 6334.8 | 7322.1 | 7443.2 |
| 45° | 70.0 | 82.9 | 102.5 | 141.2 | 136.2 | 194.4 | 1705.7 | 6537.1 | 7623.1 | 7754.7 |
| 47.5° | 56.6 | 71.2 | 98.1 | 134.5 | 108.7 | 142.9 | 1507.4 | 6728.7 | 7851.1 | 7981.1 |
| 50° | 45.4 | 60.0 | 110.4 | 119.9 | 89.1 | 109.3 | 1424.4 | 6900.2 | 8000.7 | 8125.7 |
| 52.5° | 37.0 | 50.4 | 104.2 | 91.9 | 74.5 | 90.2 | 1469.2 | 7178.1 | 8139.1 | 8217.6 |
| 55° | 30.8 | 39.8 | 62.8 | 63.9 | 63.3 | 76.8 | 1524.7 | 7577.1 | 8497.2 | 8534.2 |
| 57.5° | 26.9 | 31.9 | 43.7 | 49.3 | 53.2 | 68.4 | 1525.8 | 8149.8 | 9051.4 | 9074.4 |
| 60° | 23.0 | 28.0 | 36.4 | 39.8 | 45.9 | 61.1 | 1470.4 | 8349.8 | 9269.4 | 9345.6 |
| 62.5° | 20.2 | 24.7 | 30.3 | 33.1 | 38.7 | 54.9 | 1340.4 | 8060.1 | 8970.1 | 9099.6 |
| 65° | 17.9 | 22.4 | 25.2 | 28.0 | 34.2 | 49.3 | 1126.3 | 7480.7 | 8473.7 | 8608.7 |
| 67.5° | 15.7 | 19.6 | 22.4 | 25.2 | 30.8 | 43.7 | 829.3 | 6807.7 | 7903.8 | 8015.9 |
| 70° | 14.0 | 17.4 | 20.2 | 22.4 | 26.9 | 37.0 | 503.2 | 5776.7 | 7115.9 | 7162.4 |
| 72.5° | 13.4 | 15.7 | 18.5 | 20.2 | 23.5 | 32.5 | 255.0 | 4245.2 | 5688.7 | 5764.4 |
| 75° | 11.8 | 14.0 | 16.8 | 17.9 | 20.7 | 28.0 | 103.7 | 2788.3 | 4122.5 | 4244.1 |
| 77.5° | 9.5 | 12.9 | 15.1 | 16.3 | 17.9 | 23.0 | 52.7 | 1781.9 | 2893.1 | 2971.6 |
| 80° | 3.4 | 9.5 | 12.9 | 13.4 | 15.1 | 16.8 | 34.7 | 975.6 | 1678.3 | 1711.9 |
| 82.5° | 0.0 | 6.2 | 10.1 | 9.5 | 10.6 | 12.9 | 22.4 | 464.0 | 1107.8 | 1120.1 |
| 85° | 0.0 | 2.8 | 7.8 | 6.2 | 4.5 | 9.0 | 7.8 | 101.4 | 581.1 | 605.2 |
| 87.5° | 0.0 | 0.0 | 0.6 | 2.8 | 2.2 | 3.4 | 1.1 | 0.6 | 52.7 | 66.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-750-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 4884 | CRI (Ra): | 73.5 | R9: | -28.4 |
| CIE u': | 0.2101 | R1: | 70.5 | R10: | 48.6 |
| CIE v': | 0.4904 | R2: | 77.7 | R11: | 73.2 |
| Duv: | 0.0037 | R3: | 84.6 | R12: | 50.7 |
| CIE x: | 0.3493 | R4: | 74.7 | R13: | 71.2 |
| CIE y: | 0.3624 | R5: | 71.9 | R14: | 91.4 |
| CIE z: | 0.2884 | R6: | 70.7 | | |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |
| Rf: | 74.9 | | | | |
| Rg: | 96.3 | | | | |



Test Conditions

Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-4-R4

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-4-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-4-R4

Photopic Flux vs. Wavelength

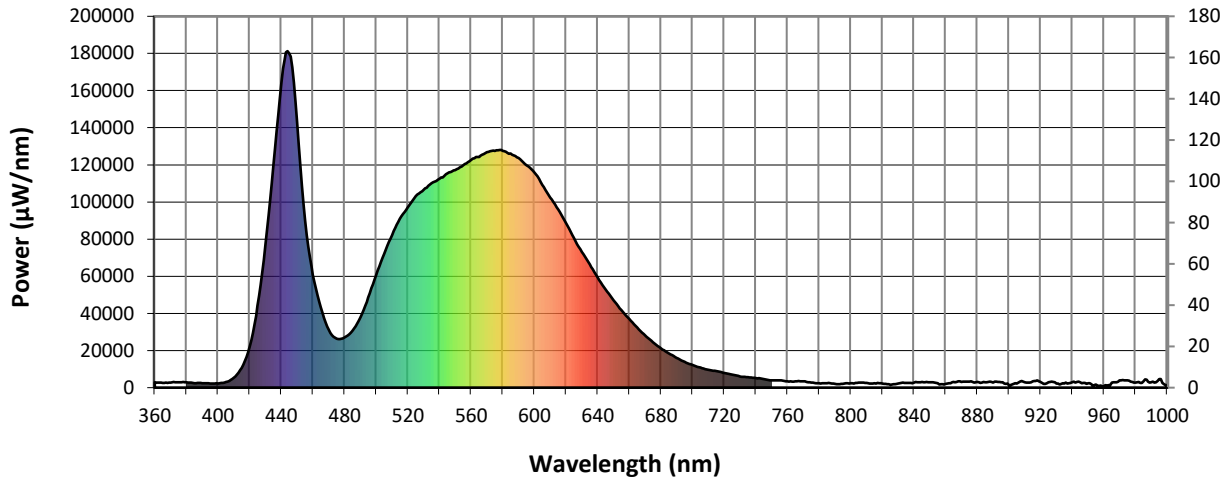


#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13493.5 S/P: 1.77

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5378.9 M/P: 0.71

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

Summary

$R_f = 74.9$
 $R_g = 96.3$
 CIE $R_a = 73.5$
 $R_g = -28.4$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |



REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

Measure Comparisons



(END OF REPORT)