

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: P363913

Luminaire Tested: NVN-SA3D-750-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P363913
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-SA3D-750-U-SLL-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 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: 17592 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

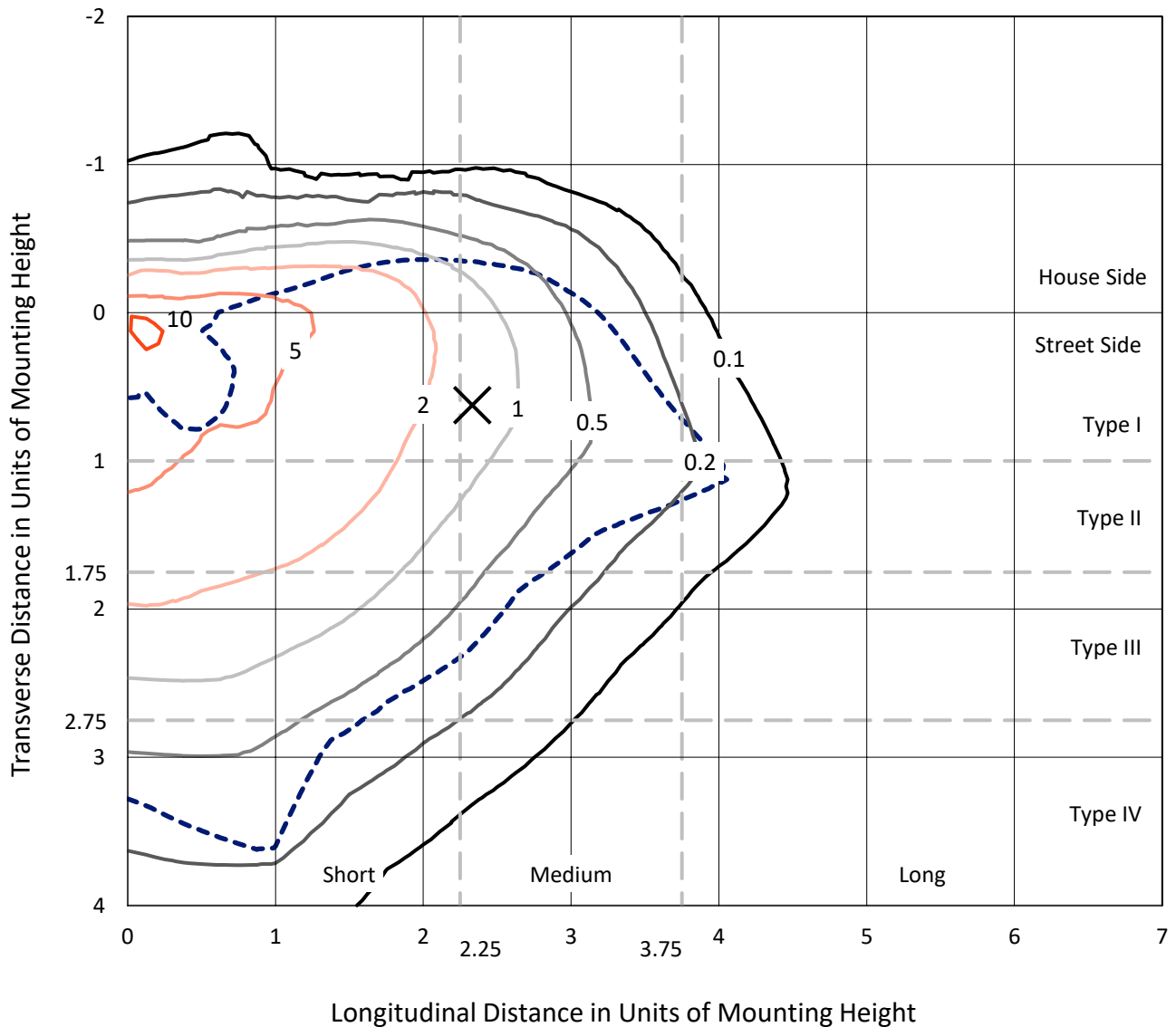
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P363913
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Iso-Footcandle Lines of Horizontal Illumination

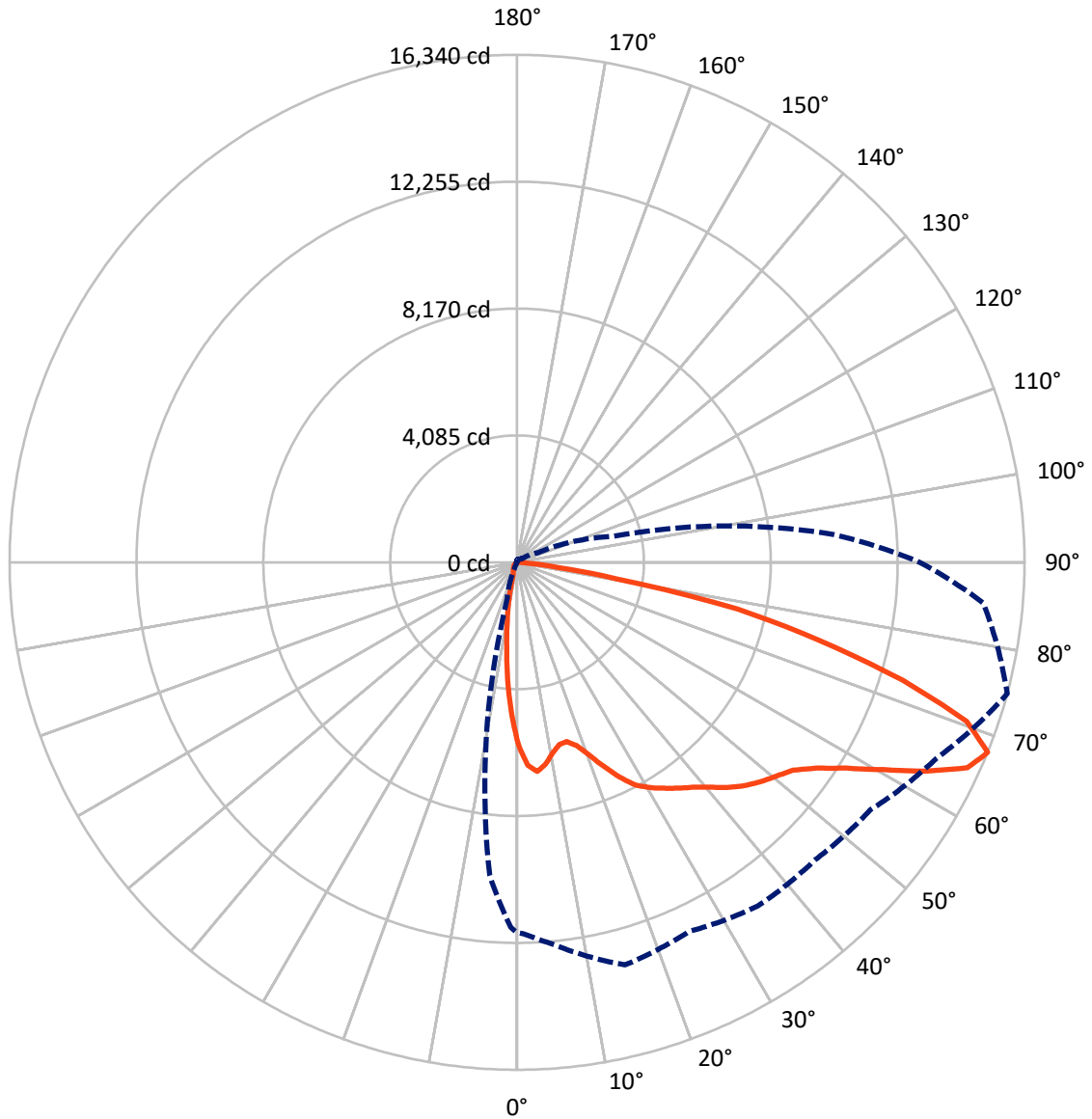
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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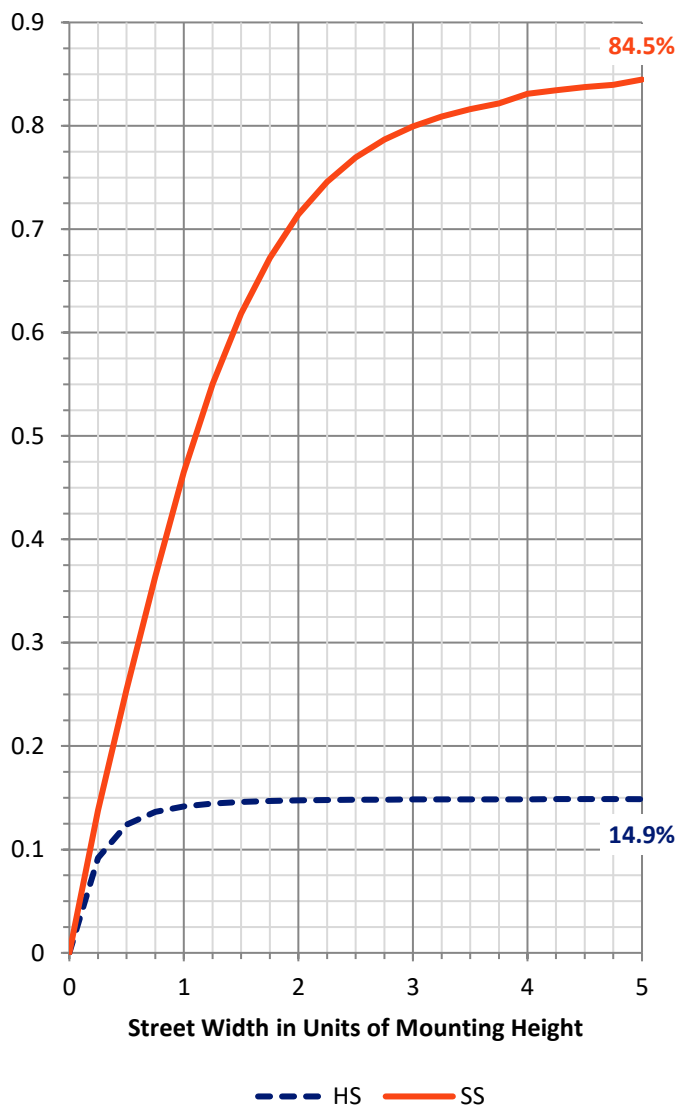
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2639.9 | 0.0 | 2639.9 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 14952.1 | 0.0 | 14952.1 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 17592.0 | 0.0 | 17592.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 447.7 | 2.5 |
| 10°-20° | 881.5 | 5.0 |
| 20°-30° | 1247.1 | 7.1 |
| 30°-40° | 1833.5 | 10.4 |
| 40°-50° | 2635.4 | 15.0 |
| 50°-60° | 3709.9 | 21.1 |
| 60°-70° | 4332.8 | 24.6 |
| 70°-80° | 2210.5 | 12.6 |
| 80°-90° | 293.6 | 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° | 17592.0 | 100.0 |
| 0°-180° | 17592.0 | 100.0 |

Coefficient of Utilization

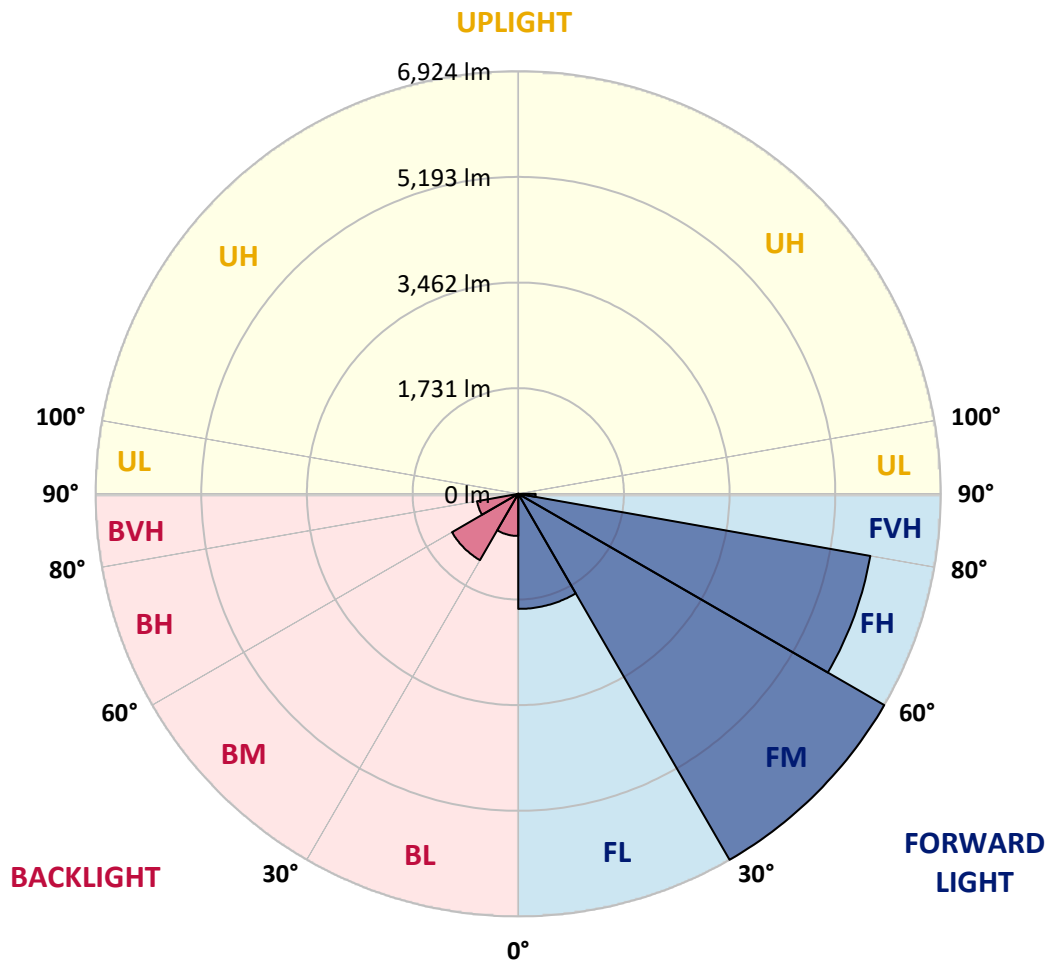


REPORT NUMBER: P363913
 CATALOG NUMBER: NVN-SA3D-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1885.9 | 10.7 | | | |
| FM (30°-60°) | 6923.9 | 39.4 | | | |
| FH (60°-80°) | 5857.6 | 33.3 | | | G3/7500 |
| FVH (80°-90°) | 284.7 | 1.6 | | | G3/500 |
| BL (0°-30°) | 690.4 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1254.9 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 685.7 | 3.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 |
| 2.5° | 6397.7 | 6407.7 | 6459.3 | 6579.3 | 6710.2 | 6720.2 | 6808.5 | 6717.7 | 6686.8 | 6540.2 | 6388.5 |
| 5° | 6446.0 | 6484.3 | 6661.8 | 7014.3 | 7320.2 | 7418.5 | 7488.5 | 7310.2 | 7122.7 | 6764.3 | 6381.8 |
| 7.5° | 6056.8 | 6121.0 | 6400.2 | 7061.8 | 7608.5 | 7850.2 | 7896.0 | 7616.9 | 7157.7 | 6567.7 | 5992.7 |
| 10° | 5558.5 | 5631.8 | 5968.5 | 6781.8 | 7532.7 | 7946.9 | 8010.2 | 7644.4 | 6984.3 | 6249.3 | 5571.8 |
| 12.5° | 5155.1 | 5241.0 | 5585.1 | 6466.8 | 7271.8 | 7730.2 | 7855.2 | 7551.9 | 6834.3 | 6023.5 | 5284.3 |
| 15° | 4969.3 | 5067.6 | 5429.3 | 6263.5 | 6982.7 | 7343.5 | 7446.9 | 7316.0 | 6751.0 | 5987.7 | 5217.6 |
| 17.5° | 5076.0 | 5182.6 | 5556.0 | 6281.0 | 6711.0 | 6865.2 | 6948.5 | 7001.8 | 6751.0 | 6203.5 | 5412.6 |
| 20° | 5513.5 | 5628.5 | 6023.5 | 6458.5 | 6486.0 | 6428.5 | 6517.7 | 6705.2 | 6829.3 | 6613.5 | 5881.0 |
| 22.5° | 6118.5 | 6253.5 | 6699.3 | 6762.7 | 6376.0 | 6158.5 | 6170.2 | 6464.3 | 6971.8 | 7133.5 | 6531.0 |
| 25° | 6856.0 | 7021.0 | 7474.4 | 7216.0 | 6421.8 | 5997.7 | 5993.5 | 6266.0 | 7111.0 | 7654.4 | 7255.2 |
| 27.5° | 7588.5 | 7770.2 | 8168.5 | 7769.4 | 6611.0 | 5968.5 | 5960.1 | 6206.0 | 7246.8 | 8117.7 | 8046.0 |
| 30° | 8202.7 | 8379.4 | 8722.7 | 8170.2 | 6815.2 | 6036.8 | 5996.8 | 6270.2 | 7327.7 | 8418.5 | 8622.7 |
| 32.5° | 8702.7 | 8844.4 | 9121.9 | 8446.0 | 7033.5 | 6169.3 | 6082.7 | 6441.8 | 7465.2 | 8672.7 | 9152.7 |
| 35° | 9252.7 | 9401.9 | 9512.7 | 8708.6 | 7278.5 | 6360.2 | 6236.0 | 6714.3 | 7676.9 | 8931.1 | 9733.6 |
| 37.5° | 9880.2 | 10028.6 | 10015.3 | 8948.6 | 7589.4 | 6676.0 | 6596.8 | 7146.0 | 8006.0 | 9186.9 | 10381.9 |
| 40° | 10494.4 | 10646.1 | 10537.8 | 9211.1 | 7954.4 | 7196.8 | 7138.5 | 7794.4 | 8446.9 | 9514.4 | 11141.9 |
| 42.5° | 11069.4 | 11233.6 | 11001.9 | 9459.4 | 8389.4 | 7853.5 | 7953.5 | 8629.4 | 8998.6 | 9917.7 | 11797.0 |
| 45° | 11532.8 | 11700.3 | 11391.1 | 9701.1 | 8847.7 | 8650.2 | 8951.1 | 9554.4 | 9661.9 | 10258.6 | 12239.5 |
| 47.5° | 11869.5 | 12027.8 | 11661.1 | 9942.8 | 9434.4 | 9624.4 | 10148.6 | 10524.4 | 10261.1 | 10554.4 | 12553.6 |
| 50° | 12084.5 | 12207.8 | 11740.3 | 10245.3 | 10204.4 | 10761.1 | 11396.1 | 11579.5 | 10825.3 | 10821.1 | 12935.3 |
| 52.5° | 12221.1 | 12277.0 | 11798.6 | 10561.1 | 11007.8 | 11998.6 | 12617.8 | 12675.3 | 11406.1 | 11114.4 | 13449.5 |
| 55° | 12692.0 | 12737.0 | 12212.0 | 10943.6 | 11672.0 | 13082.8 | 13722.8 | 13669.5 | 12063.6 | 11688.6 | 14056.2 |
| 57.5° | 13495.3 | 13542.8 | 13066.2 | 11493.6 | 12209.5 | 13752.8 | 14523.7 | 14619.5 | 12834.5 | 12495.3 | 14706.2 |
| 60° | 13898.7 | 13987.0 | 13817.0 | 12190.3 | 12730.3 | 14181.2 | 15069.5 | 15375.4 | 13797.8 | 13558.7 | 15336.2 |
| 62.5° | 13532.8 | 13661.2 | 13907.8 | 12962.8 | 13247.8 | 14417.0 | 15239.6 | 15646.2 | 14784.5 | 14797.9 | 15724.6 |
| 65° | 12802.8 | 12905.3 | 13323.7 | 13386.2 | 13547.8 | 14387.9 | 14819.5 | 15267.9 | 15388.7 | 15936.2 | 15703.7 |
| 67.5° | 11921.1 | 11959.5 | 12314.5 | 13419.5 | 13112.8 | 13511.2 | 13557.8 | 13889.5 | 14911.2 | 16339.6 | 15072.9 |
| 70° | 10651.9 | 10672.8 | 10982.8 | 12303.6 | 11268.6 | 11356.1 | 11287.0 | 11354.5 | 12819.5 | 15357.1 | 13480.3 |
| 72.5° | 8572.7 | 8625.2 | 9066.1 | 10217.8 | 8209.4 | 7956.9 | 8500.2 | 8470.2 | 9872.7 | 12974.5 | 10011.9 |
| 75° | 6311.8 | 6402.7 | 7068.5 | 8230.2 | 5761.8 | 5211.8 | 5608.5 | 5714.3 | 7018.5 | 10036.1 | 6261.0 |
| 77.5° | 4419.3 | 4486.8 | 5131.8 | 6050.2 | 4170.1 | 3726.8 | 3583.4 | 3709.3 | 4632.6 | 7260.2 | 3154.2 |
| 80° | 2545.9 | 2570.9 | 2982.6 | 3493.4 | 2810.1 | 3215.1 | 2912.6 | 2999.2 | 2775.9 | 3230.1 | 1356.7 |
| 82.5° | 1665.9 | 1670.0 | 1830.9 | 2079.2 | 1750.0 | 2033.4 | 1505.0 | 1924.2 | 1707.5 | 1297.5 | 441.7 |
| 85° | 900.0 | 905.0 | 1061.7 | 1475.9 | 990.9 | 560.0 | 329.2 | 675.9 | 1055.9 | 297.5 | 120.8 |
| 87.5° | 99.2 | 90.8 | 320.0 | 536.7 | 275.0 | 50.8 | 17.5 | 75.8 | 169.2 | 19.2 | 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 |



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 CATALOG NUMBER: NVN-SA3D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 |
| 2.5° | 6311.0 | 6241.8 | 6069.3 | 5886.8 | 5740.1 | 5602.6 | 5464.3 | 5295.1 | 5164.3 | 5137.6 | 5094.3 |
| 5° | 6176.0 | 5956.8 | 5595.1 | 5231.8 | 4939.3 | 4570.1 | 4335.9 | 4153.4 | 3975.1 | 3964.3 | 3928.4 |
| 7.5° | 5704.3 | 5416.0 | 4906.8 | 4404.3 | 3992.6 | 3640.9 | 3285.9 | 3048.4 | 2861.7 | 2795.9 | 2756.7 |
| 10° | 5251.0 | 4926.8 | 4290.9 | 3717.6 | 3350.1 | 3039.2 | 2789.2 | 2540.9 | 2315.9 | 2160.9 | 2090.9 |
| 12.5° | 4934.3 | 4575.9 | 3875.1 | 3380.9 | 3117.6 | 2822.6 | 2517.6 | 2207.6 | 1948.4 | 1761.7 | 1647.5 |
| 15° | 4811.8 | 4429.3 | 3735.9 | 3247.6 | 2922.6 | 2549.2 | 2159.2 | 1805.0 | 1517.5 | 1348.4 | 1245.9 |
| 17.5° | 4957.6 | 4512.6 | 3725.1 | 3085.1 | 2630.9 | 2166.7 | 1735.9 | 1317.5 | 1046.7 | 918.4 | 852.5 |
| 20° | 5327.6 | 4777.6 | 3720.9 | 2885.9 | 2284.2 | 1713.4 | 1175.9 | 866.7 | 702.5 | 630.8 | 600.0 |
| 22.5° | 5851.0 | 5116.0 | 3754.3 | 2689.2 | 1923.4 | 1224.2 | 811.7 | 636.7 | 552.5 | 514.2 | 496.7 |
| 25° | 6524.3 | 5591.0 | 3848.4 | 2510.9 | 1584.2 | 913.4 | 632.5 | 533.3 | 474.2 | 444.2 | 431.7 |
| 27.5° | 7241.8 | 6137.7 | 3995.1 | 2355.9 | 1308.4 | 728.4 | 541.7 | 456.7 | 414.2 | 393.3 | 381.7 |
| 30° | 7833.5 | 6771.0 | 4143.4 | 2183.4 | 1108.4 | 635.0 | 495.8 | 416.7 | 367.5 | 354.2 | 343.3 |
| 32.5° | 8351.0 | 7250.2 | 4248.4 | 2027.6 | 977.5 | 564.2 | 448.3 | 372.5 | 339.2 | 313.3 | 301.7 |
| 35° | 8886.9 | 7649.4 | 4245.1 | 1918.4 | 887.5 | 510.8 | 408.3 | 333.3 | 293.3 | 263.3 | 254.2 |
| 37.5° | 9466.9 | 8100.2 | 4172.6 | 1825.0 | 848.4 | 468.3 | 385.8 | 312.5 | 272.5 | 242.5 | 230.8 |
| 40° | 10146.1 | 8573.5 | 4098.4 | 1737.5 | 837.5 | 434.2 | 370.0 | 295.8 | 253.3 | 224.2 | 212.5 |
| 42.5° | 10807.8 | 9000.2 | 4033.4 | 1672.5 | 790.9 | 433.3 | 355.8 | 283.3 | 238.3 | 210.0 | 196.7 |
| 45° | 11337.0 | 9397.7 | 4020.9 | 1633.4 | 741.7 | 448.3 | 348.3 | 275.0 | 226.7 | 198.3 | 185.8 |
| 47.5° | 11777.0 | 9829.4 | 4100.9 | 1605.9 | 695.0 | 409.2 | 366.7 | 269.2 | 215.8 | 188.3 | 174.2 |
| 50° | 12300.3 | 10359.4 | 4289.3 | 1560.9 | 645.8 | 368.3 | 420.0 | 270.8 | 206.7 | 178.3 | 163.3 |
| 52.5° | 13030.3 | 11092.8 | 4565.9 | 1485.0 | 578.3 | 330.8 | 413.3 | 272.5 | 196.7 | 167.5 | 152.5 |
| 55° | 13848.7 | 12008.6 | 4863.5 | 1359.2 | 484.2 | 281.7 | 354.2 | 260.8 | 177.5 | 155.8 | 141.7 |
| 57.5° | 14708.7 | 12839.5 | 5040.1 | 1209.2 | 385.0 | 243.3 | 283.3 | 237.5 | 156.7 | 140.0 | 130.8 |
| 60° | 14843.7 | 13155.3 | 4959.3 | 1025.0 | 305.8 | 211.7 | 210.0 | 241.7 | 140.0 | 123.3 | 116.7 |
| 62.5° | 14507.9 | 12758.7 | 4568.4 | 860.9 | 255.8 | 185.8 | 172.5 | 210.8 | 126.7 | 110.0 | 103.3 |
| 65° | 13862.0 | 11686.1 | 3935.1 | 775.9 | 237.5 | 159.2 | 143.3 | 148.3 | 110.8 | 95.8 | 90.0 |
| 67.5° | 12963.7 | 10254.4 | 3230.9 | 727.5 | 235.0 | 136.7 | 122.5 | 112.5 | 95.8 | 83.3 | 78.3 |
| 70° | 11126.9 | 8542.7 | 2577.6 | 700.9 | 228.3 | 115.0 | 103.3 | 91.7 | 80.0 | 70.8 | 66.7 |
| 72.5° | 8189.4 | 6053.5 | 2005.1 | 671.7 | 230.0 | 91.7 | 90.0 | 75.8 | 64.2 | 55.0 | 53.3 |
| 75° | 4731.8 | 3458.4 | 1315.0 | 544.2 | 219.2 | 70.8 | 75.0 | 53.3 | 45.0 | 38.3 | 38.3 |
| 77.5° | 2521.7 | 2109.2 | 500.8 | 226.7 | 80.0 | 45.0 | 42.5 | 31.7 | 28.3 | 23.3 | 22.5 |
| 80° | 1099.2 | 928.4 | 150.8 | 63.3 | 44.2 | 24.2 | 15.8 | 14.2 | 12.5 | 10.0 | 9.2 |
| 82.5° | 389.2 | 335.8 | 49.2 | 30.8 | 19.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 88.3 | 63.3 | 0.0 | 7.5 | 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 |



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 CATALOG NUMBER: NVN-SA3D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 |
| 2.5° | 5006.0 | 4987.6 | 4879.3 | 4883.5 | 4902.6 | 4930.1 | 4865.1 | 4895.1 | 4976.0 | 5053.5 | 5082.6 |
| 5° | 3870.9 | 3875.1 | 3809.3 | 3850.1 | 3886.8 | 3911.8 | 3806.8 | 3808.4 | 3872.6 | 3960.1 | 4005.9 |
| 7.5° | 2727.6 | 2720.9 | 2724.2 | 2821.7 | 2890.9 | 2840.9 | 2880.1 | 2744.2 | 2752.6 | 2815.1 | 2768.4 |
| 10° | 2027.6 | 1935.9 | 1884.2 | 1957.5 | 2033.4 | 2005.9 | 1938.4 | 1894.2 | 1925.0 | 1994.2 | 1989.2 |
| 12.5° | 1593.4 | 1461.7 | 1384.2 | 1331.7 | 1394.2 | 1342.5 | 1340.9 | 1302.5 | 1260.9 | 1268.4 | 1379.2 |
| 15° | 1198.4 | 1102.5 | 1010.9 | 926.7 | 925.0 | 907.5 | 818.4 | 718.4 | 710.0 | 715.0 | 772.5 |
| 17.5° | 824.2 | 791.7 | 754.2 | 681.7 | 662.5 | 589.2 | 502.5 | 462.5 | 442.5 | 451.7 | 470.8 |
| 20° | 579.2 | 566.7 | 570.8 | 531.7 | 504.2 | 434.2 | 383.3 | 367.5 | 364.2 | 373.3 | 382.5 |
| 22.5° | 480.0 | 457.5 | 455.0 | 437.5 | 410.0 | 359.2 | 331.7 | 322.5 | 318.3 | 326.7 | 333.3 |
| 25° | 420.0 | 397.5 | 388.3 | 377.5 | 348.3 | 313.3 | 296.7 | 288.3 | 284.2 | 289.2 | 293.3 |
| 27.5° | 370.0 | 349.2 | 340.8 | 333.3 | 305.0 | 280.0 | 266.7 | 259.2 | 255.8 | 257.5 | 261.7 |
| 30° | 332.5 | 314.2 | 303.3 | 294.2 | 270.0 | 252.5 | 240.8 | 233.3 | 230.0 | 230.0 | 234.2 |
| 32.5° | 293.3 | 283.3 | 273.3 | 261.7 | 239.2 | 227.5 | 215.8 | 207.5 | 204.2 | 205.0 | 208.3 |
| 35° | 244.2 | 240.8 | 243.3 | 232.5 | 213.3 | 203.3 | 191.7 | 182.5 | 180.0 | 180.8 | 184.2 |
| 37.5° | 216.7 | 201.7 | 210.8 | 205.0 | 194.2 | 180.8 | 165.8 | 157.5 | 153.3 | 155.8 | 157.5 |
| 40° | 199.2 | 180.8 | 174.2 | 180.0 | 178.3 | 156.7 | 143.3 | 135.0 | 131.7 | 132.5 | 134.2 |
| 42.5° | 184.2 | 162.5 | 147.5 | 146.7 | 156.7 | 136.7 | 122.5 | 115.0 | 110.8 | 110.8 | 112.5 |
| 45° | 170.0 | 146.7 | 128.3 | 114.2 | 131.7 | 115.8 | 102.5 | 95.8 | 90.8 | 90.8 | 91.7 |
| 47.5° | 159.2 | 133.3 | 111.7 | 93.3 | 99.2 | 95.0 | 84.2 | 77.5 | 72.5 | 72.5 | 73.3 |
| 50° | 149.2 | 120.0 | 96.7 | 78.3 | 74.2 | 78.3 | 68.3 | 60.8 | 57.5 | 56.7 | 58.3 |
| 52.5° | 138.3 | 106.7 | 82.5 | 66.7 | 58.3 | 59.2 | 53.3 | 48.3 | 44.2 | 44.2 | 45.8 |
| 55° | 127.5 | 95.8 | 71.7 | 56.7 | 48.3 | 44.2 | 42.5 | 39.2 | 35.8 | 35.8 | 37.5 |
| 57.5° | 116.7 | 84.2 | 60.8 | 46.7 | 38.3 | 35.0 | 35.0 | 32.5 | 30.0 | 30.0 | 31.7 |
| 60° | 106.7 | 72.5 | 50.0 | 38.3 | 30.0 | 29.2 | 30.0 | 27.5 | 25.8 | 25.8 | 27.5 |
| 62.5° | 95.0 | 61.7 | 40.8 | 31.7 | 24.2 | 23.3 | 25.8 | 24.2 | 22.5 | 22.5 | 24.2 |
| 65° | 80.8 | 52.5 | 32.5 | 24.2 | 18.3 | 18.3 | 21.7 | 20.0 | 18.3 | 18.3 | 20.0 |
| 67.5° | 68.3 | 44.2 | 25.0 | 17.5 | 13.3 | 14.2 | 18.3 | 16.7 | 15.8 | 15.8 | 17.5 |
| 70° | 56.7 | 34.2 | 17.5 | 10.8 | 7.5 | 10.8 | 14.2 | 14.2 | 14.2 | 14.2 | 15.8 |
| 72.5° | 42.5 | 23.3 | 10.0 | 4.2 | 3.3 | 7.5 | 11.7 | 13.3 | 12.5 | 12.5 | 15.0 |
| 75° | 27.5 | 13.3 | 3.3 | 0.0 | 0.0 | 4.2 | 9.2 | 10.8 | 10.8 | 10.0 | 12.5 |
| 77.5° | 15.8 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 5.0 | 4.2 | 3.3 | 5.8 |
| 80° | 4.2 | 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: P363913
 CATALOG NUMBER: NVN-SA3D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 | 5901.8 |
| 2.5° | 5200.1 | 5298.5 | 5436.8 | 5583.5 | 5809.3 | 5988.5 | 6164.3 | 6315.2 | 6373.5 | 6397.7 |
| 5° | 4115.9 | 4260.1 | 4462.6 | 4722.6 | 5130.1 | 5496.8 | 5868.5 | 6242.7 | 6405.2 | 6446.0 |
| 7.5° | 2953.4 | 3137.6 | 3395.1 | 3720.9 | 4198.4 | 4673.5 | 5192.6 | 5741.8 | 5993.5 | 6056.8 |
| 10° | 2185.9 | 2410.9 | 2705.9 | 3049.2 | 3505.1 | 3993.4 | 4559.3 | 5186.8 | 5474.3 | 5558.5 |
| 12.5° | 1550.9 | 1855.0 | 2250.1 | 2667.6 | 3062.6 | 3498.4 | 4070.9 | 4762.6 | 5064.3 | 5155.1 |
| 15° | 910.9 | 1205.0 | 1672.5 | 2231.7 | 2737.6 | 3179.2 | 3760.9 | 4545.1 | 4877.6 | 4969.3 |
| 17.5° | 522.5 | 669.2 | 1022.5 | 1645.9 | 2332.6 | 2944.2 | 3663.4 | 4599.3 | 4991.0 | 5076.0 |
| 20° | 399.2 | 445.8 | 589.2 | 1060.0 | 1859.2 | 2713.4 | 3663.4 | 4906.0 | 5388.5 | 5513.5 |
| 22.5° | 349.2 | 383.3 | 441.7 | 632.5 | 1368.4 | 2465.9 | 3705.9 | 5349.3 | 5980.2 | 6118.5 |
| 25° | 310.0 | 340.8 | 390.8 | 475.8 | 933.4 | 2171.7 | 3806.8 | 5893.5 | 6676.8 | 6856.0 |
| 27.5° | 277.5 | 306.7 | 351.7 | 416.7 | 638.3 | 1816.7 | 3942.6 | 6531.8 | 7445.2 | 7588.5 |
| 30° | 248.3 | 275.8 | 316.7 | 362.5 | 492.5 | 1414.2 | 4058.4 | 7133.5 | 8048.5 | 8202.7 |
| 32.5° | 220.8 | 245.8 | 282.5 | 316.7 | 403.3 | 1045.9 | 4070.9 | 7610.2 | 8549.4 | 8702.7 |
| 35° | 195.0 | 217.5 | 250.8 | 277.5 | 334.2 | 825.9 | 3876.8 | 8023.5 | 9050.2 | 9252.7 |
| 37.5° | 170.0 | 191.7 | 220.8 | 240.8 | 294.2 | 673.4 | 3580.1 | 8484.4 | 9692.7 | 9880.2 |
| 40° | 146.7 | 165.8 | 195.8 | 209.2 | 278.3 | 517.5 | 3257.6 | 8967.7 | 10322.8 | 10494.4 |
| 42.5° | 125.0 | 143.3 | 172.5 | 198.3 | 244.2 | 386.7 | 2909.2 | 9421.1 | 10889.4 | 11069.4 |
| 45° | 104.2 | 123.3 | 152.5 | 210.0 | 202.5 | 289.2 | 2536.7 | 9721.9 | 11337.0 | 11532.8 |
| 47.5° | 84.2 | 105.8 | 145.8 | 200.0 | 161.7 | 212.5 | 2241.7 | 10006.9 | 11676.1 | 11869.5 |
| 50° | 67.5 | 89.2 | 164.2 | 178.3 | 132.5 | 162.5 | 2118.4 | 10261.9 | 11898.6 | 12084.5 |
| 52.5° | 55.0 | 75.0 | 155.0 | 136.7 | 110.8 | 134.2 | 2185.1 | 10675.3 | 12104.5 | 12221.1 |
| 55° | 45.8 | 59.2 | 93.3 | 95.0 | 94.2 | 114.2 | 2267.6 | 11268.6 | 12637.0 | 12692.0 |
| 57.5° | 40.0 | 47.5 | 65.0 | 73.3 | 79.2 | 101.7 | 2269.2 | 12120.3 | 13461.2 | 13495.3 |
| 60° | 34.2 | 41.7 | 54.2 | 59.2 | 68.3 | 90.8 | 2186.7 | 12417.8 | 13785.3 | 13898.7 |
| 62.5° | 30.0 | 36.7 | 45.0 | 49.2 | 57.5 | 81.7 | 1993.4 | 11987.0 | 13340.3 | 13532.8 |
| 65° | 26.7 | 33.3 | 37.5 | 41.7 | 50.8 | 73.3 | 1675.0 | 11125.3 | 12602.0 | 12802.8 |
| 67.5° | 23.3 | 29.2 | 33.3 | 37.5 | 45.8 | 65.0 | 1233.4 | 10124.4 | 11754.5 | 11921.1 |
| 70° | 20.8 | 25.8 | 30.0 | 33.3 | 40.0 | 55.0 | 748.4 | 8591.0 | 10582.8 | 10651.9 |
| 72.5° | 20.0 | 23.3 | 27.5 | 30.0 | 35.0 | 48.3 | 379.2 | 6313.5 | 8460.2 | 8572.7 |
| 75° | 17.5 | 20.8 | 25.0 | 26.7 | 30.8 | 41.7 | 154.2 | 4146.8 | 6131.0 | 6311.8 |
| 77.5° | 14.2 | 19.2 | 22.5 | 24.2 | 26.7 | 34.2 | 78.3 | 2650.1 | 4302.6 | 4419.3 |
| 80° | 5.0 | 14.2 | 19.2 | 20.0 | 22.5 | 25.0 | 51.7 | 1450.9 | 2495.9 | 2545.9 |
| 82.5° | 0.0 | 9.2 | 15.0 | 14.2 | 15.8 | 19.2 | 33.3 | 690.0 | 1647.5 | 1665.9 |
| 85° | 0.0 | 4.2 | 11.7 | 9.2 | 6.7 | 13.3 | 11.7 | 150.8 | 864.2 | 900.0 |
| 87.5° | 0.0 | 0.0 | 0.8 | 4.2 | 3.3 | 5.0 | 1.7 | 0.8 | 78.3 | 99.2 |
| 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 ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | 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 ($R_{f,i}$)

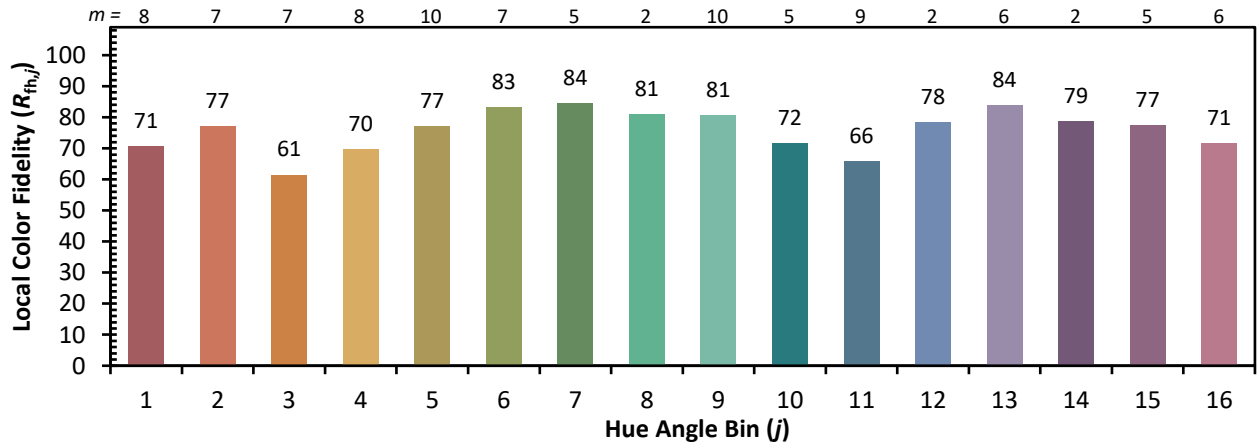
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 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 | |



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Measure Comparisons



(END OF REPORT)