

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1386438

Luminaire Tested: **VAL-T-SB6D-722-U-T2R**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been  
influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
 Report Number: P1386438  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 02/18/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: VAL-T-SB6D-722-U-T2R  
 Description: GALLEON II WALL SLIM HIGH DENSITY LED ARRAYS 6SQUARE 350W 70CRI  
 2200K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC  
 Light Source: (156) 2200K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER  
 Luminaire Equipment:

| <u>Sample No.</u> | <u>Condition</u> | <u>Description</u> |
|-------------------|------------------|--------------------|
| a                 | good             | reflector          |
| b                 | good             | lens               |
| c                 | good             | housing            |
| d                 | good             | cord               |

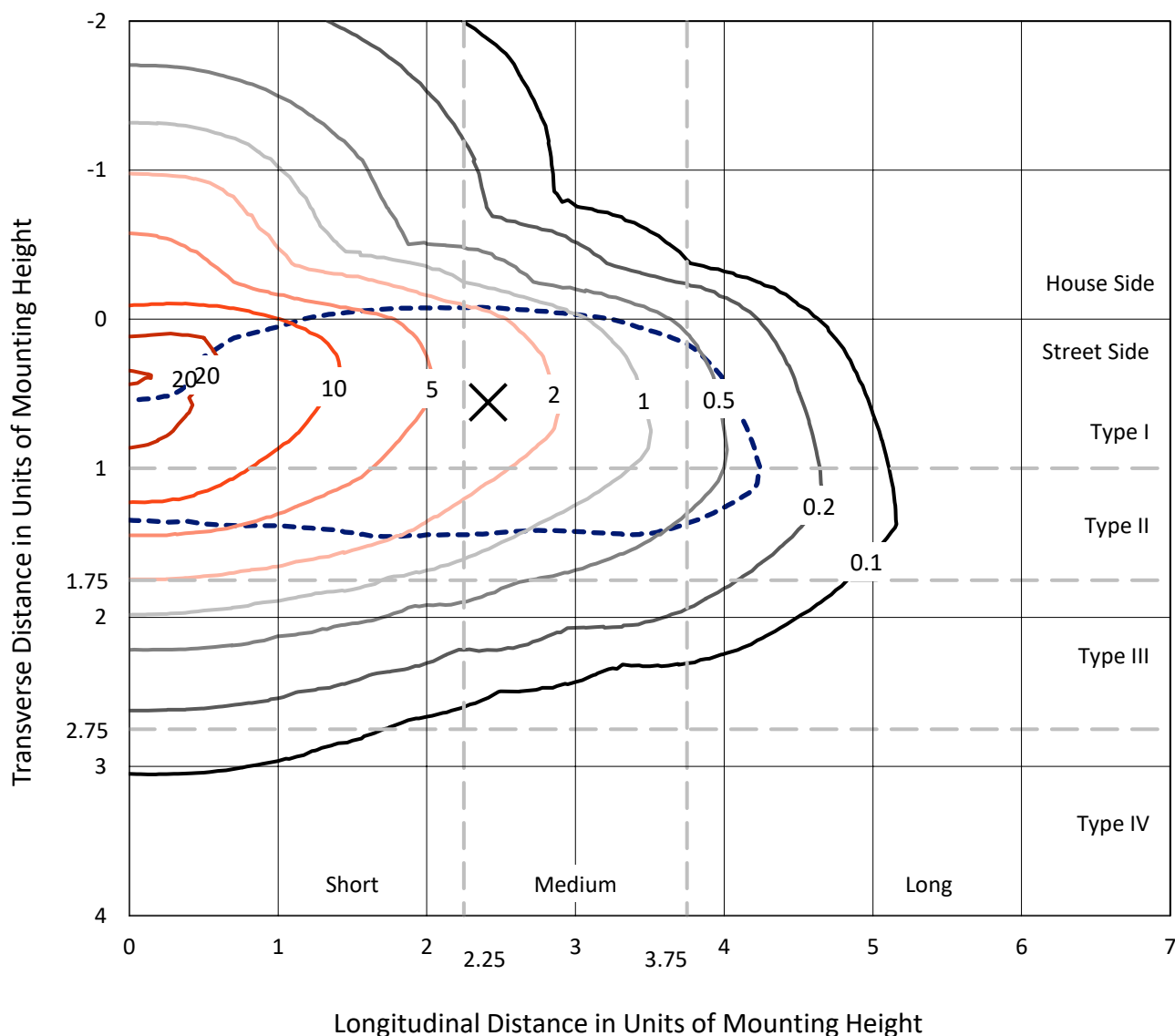
**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 39849.8 lumens  
 Efficiency: N/A  
 Efficacy: 113.9 lumens/watt  
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
 IES Classification: Type II - Medium  
 BUG Rating: B3 - U0 - G4  
  
 Input Watts (W): 350  
 Input Voltage (V): 120  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: 0.98  
 Total Harmonic Distortion (THDi): --  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

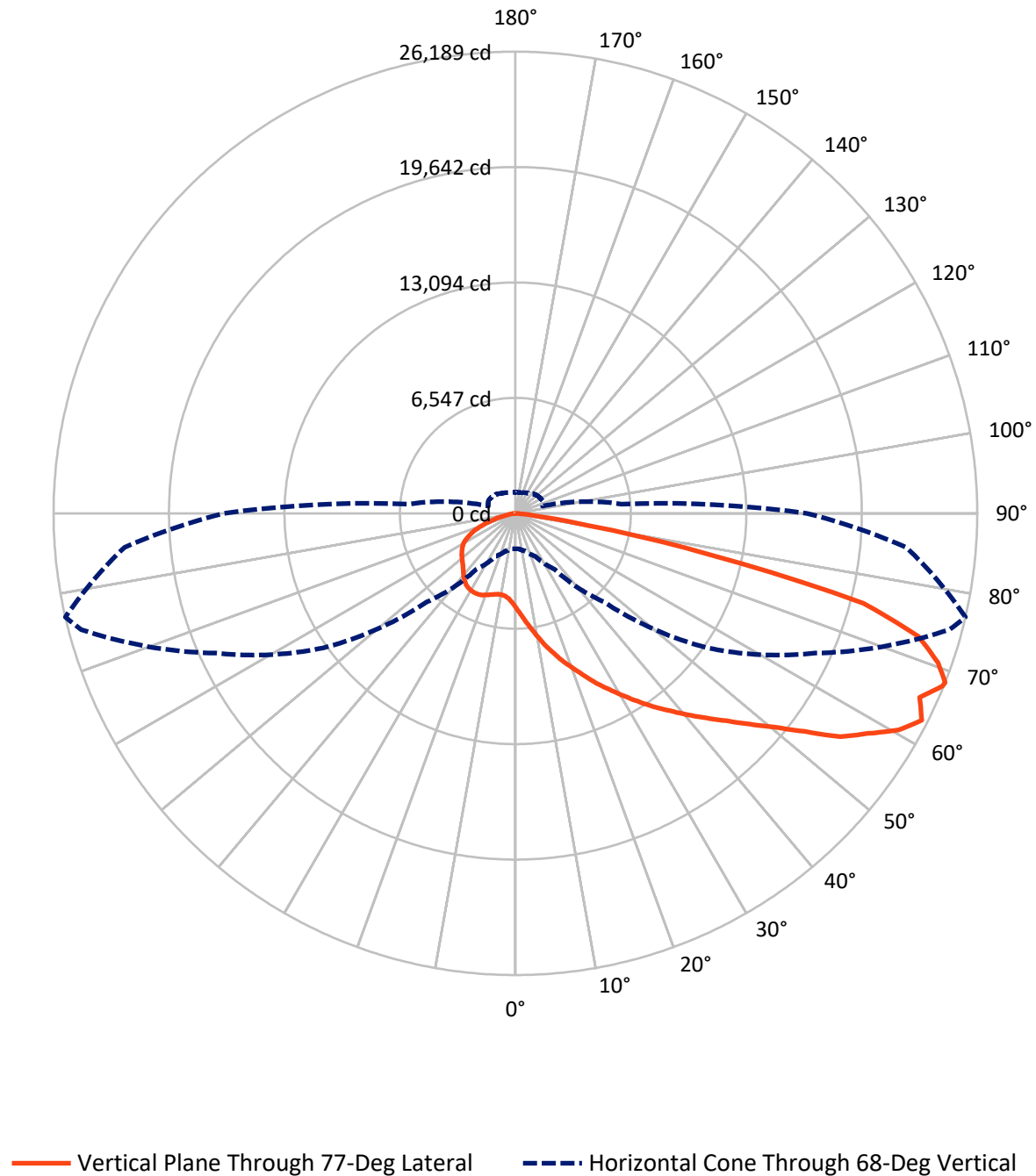
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.3 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: VAL-T-SB6D-722-U-T2R

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7522.5   | 0.0    | 7522.5  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 32327.2  | 0.0    | 32327.2 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 39849.8  | 0.0    | 39849.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 550.0   | 1.4       |
| 10°-20°   | 1931.5  | 4.8       |
| 20°-30°   | 3530.6  | 8.9       |
| 30°-40°   | 5720.9  | 14.4      |
| 40°-50°   | 7868.7  | 19.7      |
| 50°-60°   | 8822.6  | 22.1      |
| 60°-70°   | 7435.7  | 18.7      |
| 70°-80°   | 3685.3  | 9.2       |
| 80°-90°   | 304.4   | 0.8       |
| 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°    | 39849.8 | 100.0     |
| 0°-180°   | 39849.8 | 100.0     |

**Coefficient of Utilization**



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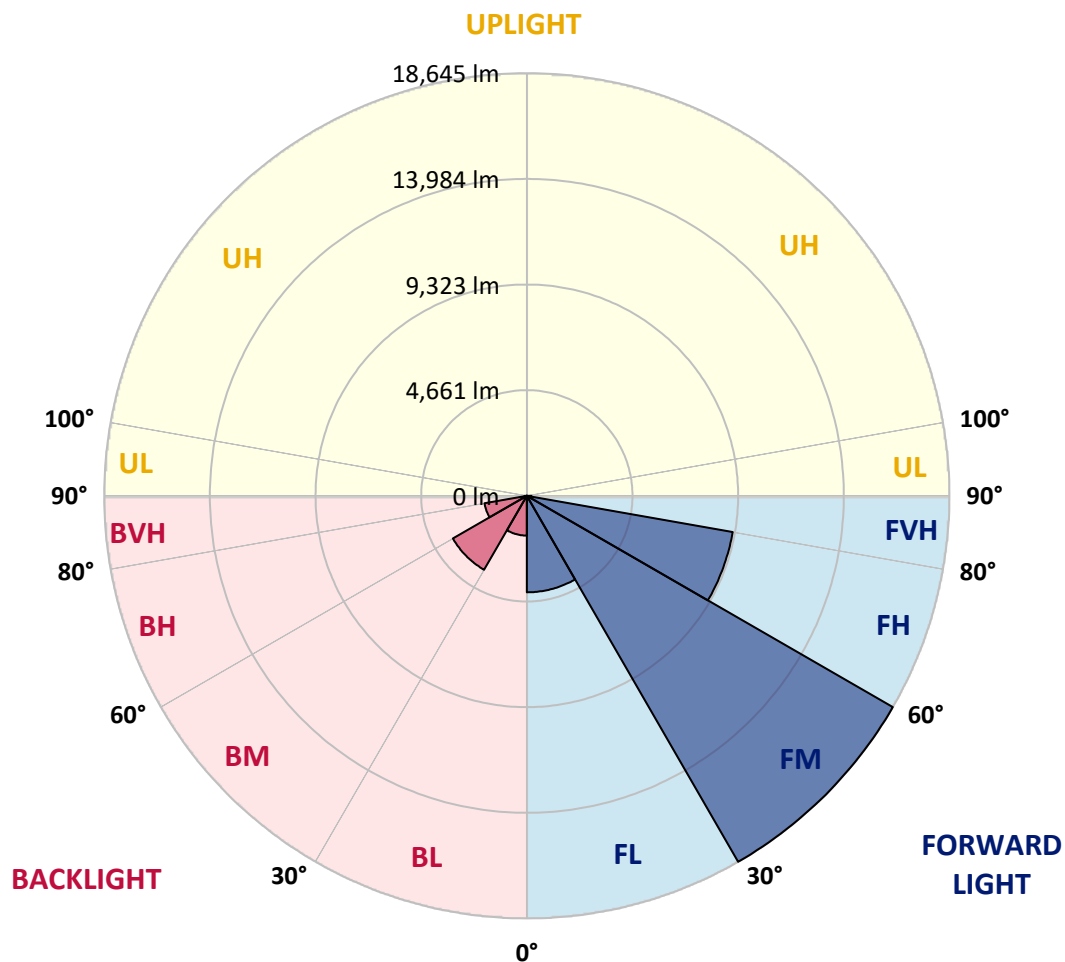
CATALOG NUMBER: VAL-T-SB6D-722-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4258.2  | 10.7      |                         |      |          |
| FM   | (30°-60°)   | 18645.4 | 46.8      |                         |      |          |
| FH   | (60°-80°)   | 9223.6  | 23.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 200.1   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1753.9  | 4.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3766.8  | 9.5       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1897.5  | 4.8       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 104.3   | 0.3       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  | 5361.2  |
| 2.5°  | 6687.7  | 6650.8  | 6623.2  | 6531.1  | 6475.8  | 6328.4  | 6208.7  | 6006.0  | 5748.1  | 5729.7  | 5527.0  |
| 5°    | 7710.2  | 7664.1  | 7627.3  | 7498.3  | 7443.0  | 7185.1  | 6954.8  | 6595.6  | 6227.1  | 6162.6  | 5757.3  |
| 7.5°  | 8539.2  | 8483.9  | 8447.1  | 8327.3  | 8216.8  | 8014.2  | 7719.4  | 7286.4  | 6752.2  | 6632.4  | 6098.1  |
| 10°   | 9119.6  | 9119.6  | 9110.3  | 9036.6  | 8972.2  | 8778.7  | 8437.9  | 7931.2  | 7295.6  | 7157.5  | 6457.4  |
| 12.5° | 9570.9  | 9543.3  | 9580.1  | 9626.2  | 9635.4  | 9524.9  | 9211.7  | 8640.5  | 7876.0  | 7737.8  | 6835.1  |
| 15°   | 9607.8  | 9617.0  | 9755.2  | 9939.4  | 10169.7 | 10206.5 | 9948.6  | 9349.8  | 8437.9  | 8253.7  | 7277.2  |
| 17.5° | 9423.5  | 9469.6  | 9663.0  | 9967.0  | 10409.2 | 10676.3 | 10621.1 | 10086.8 | 9045.9  | 8852.4  | 7682.5  |
| 20°   | 9368.3  | 9423.5  | 9617.0  | 9994.7  | 10519.7 | 10961.9 | 11127.7 | 10740.8 | 9653.8  | 9386.7  | 8124.7  |
| 22.5° | 9699.9  | 9718.3  | 9856.5  | 10169.7 | 10676.3 | 11183.0 | 11551.4 | 11367.2 | 10298.6 | 10003.9 | 8631.3  |
| 25°   | 10602.6 | 10584.2 | 10575.0 | 10648.7 | 11026.4 | 11468.5 | 11919.9 | 11956.7 | 10971.1 | 10676.3 | 9110.3  |
| 27.5° | 12104.1 | 12177.8 | 11966.0 | 11560.6 | 11597.5 | 11938.3 | 12288.4 | 12481.8 | 11625.1 | 11302.7 | 9589.3  |
| 30°   | 13974.1 | 13964.9 | 13587.2 | 12933.2 | 12435.8 | 12555.5 | 12749.0 | 12979.2 | 12279.2 | 11984.4 | 10123.6 |
| 32.5° | 15567.7 | 15530.9 | 15125.6 | 14370.2 | 13587.2 | 13329.3 | 13403.0 | 13449.0 | 13034.5 | 12702.9 | 10667.1 |
| 35°   | 16590.2 | 16599.4 | 16212.5 | 15558.5 | 14683.4 | 14259.7 | 14075.4 | 13964.9 | 13789.9 | 13467.5 | 11311.9 |
| 37.5° | 17612.7 | 17557.4 | 17069.2 | 16295.4 | 15567.7 | 15217.7 | 15005.8 | 14536.0 | 14490.0 | 14204.4 | 11883.1 |
| 40°   | 18377.3 | 18322.0 | 17824.6 | 16940.3 | 16277.0 | 15991.5 | 15908.6 | 15199.3 | 15272.9 | 15024.2 | 12518.7 |
| 42.5° | 18727.3 | 18736.5 | 18285.2 | 17483.8 | 16802.1 | 16663.9 | 16829.7 | 15963.8 | 16102.0 | 15871.7 | 13209.5 |
| 45°   | 18736.5 | 18690.5 | 18377.3 | 17741.7 | 17225.8 | 17115.3 | 17566.7 | 16829.7 | 17004.7 | 16792.9 | 14011.0 |
| 47.5° | 18229.9 | 18229.9 | 18100.9 | 17723.3 | 17446.9 | 17456.1 | 18183.8 | 17704.8 | 18018.0 | 17861.4 | 14941.3 |
| 50°   | 17124.5 | 17216.6 | 17271.9 | 17345.6 | 17336.4 | 17695.6 | 18681.3 | 18616.8 | 19105.0 | 19058.9 | 15982.2 |
| 52.5° | 13753.0 | 14139.9 | 15530.9 | 16424.4 | 16995.5 | 17668.0 | 19224.8 | 19556.4 | 20477.5 | 20560.4 | 17483.8 |
| 55°   | 10971.1 | 11063.2 | 12233.1 | 14536.0 | 16231.0 | 17437.7 | 19418.2 | 20615.7 | 22237.0 | 22365.9 | 18856.3 |
| 57.5° | 8907.7  | 9128.8  | 9838.1  | 12039.7 | 14563.7 | 16921.8 | 19547.2 | 21186.8 | 23351.6 | 23563.5 | 19989.3 |
| 60°   | 6586.3  | 6715.3  | 7397.0  | 9220.9  | 12196.3 | 15715.1 | 19620.9 | 21711.9 | 24650.4 | 24954.4 | 21463.2 |
| 62.5° | 4845.3  | 4854.6  | 5287.5  | 6439.0  | 9626.2  | 13734.6 | 19049.7 | 22135.6 | 25507.1 | 25857.2 | 21933.0 |
| 65°   | 3132.0  | 3168.8  | 3601.8  | 4596.6  | 6503.4  | 11256.7 | 17732.5 | 20477.5 | 24668.9 | 25184.7 | 21647.4 |
| 67.5° | 2109.5  | 2174.0  | 2431.9  | 2929.3  | 4357.1  | 8032.6  | 13835.9 | 18957.6 | 25442.6 | 26124.3 | 22338.3 |
| 68°   | 2008.1  | 2017.4  | 2220.0  | 2699.0  | 3878.1  | 7111.4  | 13301.7 | 18764.2 | 25479.5 | 26188.8 | 22255.4 |
| 70°   | 1593.6  | 1612.0  | 1741.0  | 1998.9  | 2634.5  | 4357.1  | 10740.8 | 17142.9 | 24797.8 | 25424.2 | 21048.7 |
| 72.5° | 1215.9  | 1243.6  | 1326.5  | 1427.8  | 1713.4  | 2671.4  | 6282.4  | 13964.9 | 23001.5 | 23895.1 | 19058.9 |
| 75°   | 1031.7  | 1040.9  | 1105.4  | 1142.2  | 1123.8  | 1621.3  | 3528.1  | 10925.0 | 19565.6 | 20385.4 | 15650.6 |
| 77.5° | 810.6   | 838.3   | 930.4   | 948.8   | 856.7   | 1123.8  | 1851.5  | 6236.3  | 11487.0 | 11219.8 | 7535.1  |
| 80°   | 580.3   | 598.8   | 672.5   | 635.6   | 672.5   | 773.8   | 875.1   | 2238.4  | 4780.9  | 4172.9  | 1768.6  |
| 82.5° | 202.7   | 230.3   | 460.6   | 442.2   | 442.2   | 350.0   | 396.1   | 976.4   | 1243.6  | 1087.0  | 442.2   |
| 85°   | 36.8    | 46.1    | 129.0   | 184.2   | 165.8   | 129.0   | 165.8   | 304.0   | 248.7   | 211.9   | 129.0   |
| 87.5° | 9.2     | 9.2     | 18.4    | 18.4    | 18.4    | 27.6    | 46.1    | 64.5    | 73.7    | 73.7    | 73.7    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5361.2  | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 | 5361.2 |
| 2.5°  | 5416.5  | 5278.3 | 5011.1 | 4771.6 | 4578.2 | 4394.0 | 4246.6 | 4145.3 | 4071.6 | 4034.7 | 4034.7 |
| 5°    | 5536.2  | 5241.4 | 4753.2 | 4320.3 | 3988.7 | 3767.6 | 3629.4 | 3546.5 | 3537.3 | 3528.1 | 3528.1 |
| 7.5°  | 5720.4  | 5305.9 | 4578.2 | 4034.7 | 3749.1 | 3629.4 | 3592.6 | 3583.3 | 3583.3 | 3601.8 | 3601.8 |
| 10°   | 5969.2  | 5416.5 | 4504.5 | 3933.4 | 3776.8 | 3739.9 | 3721.5 | 3749.1 | 3758.4 | 3767.6 | 3776.8 |
| 12.5° | 6263.9  | 5554.6 | 4467.7 | 3979.4 | 3887.3 | 3868.9 | 3878.1 | 3868.9 | 3896.5 | 3915.0 | 3905.7 |
| 15°   | 6549.5  | 5729.7 | 4504.5 | 4071.6 | 3997.9 | 3988.7 | 3961.0 | 3979.4 | 3970.2 | 3961.0 | 3961.0 |
| 17.5° | 6871.9  | 5932.3 | 4541.4 | 4145.3 | 4071.6 | 4034.7 | 3997.9 | 3979.4 | 3942.6 | 3933.4 | 3924.2 |
| 20°   | 7221.9  | 6135.0 | 4605.8 | 4209.7 | 4090.0 | 4007.1 | 3942.6 | 3868.9 | 3813.6 | 3786.0 | 3786.0 |
| 22.5° | 7581.2  | 6346.8 | 4661.1 | 4218.9 | 4053.1 | 3905.7 | 3795.2 | 3703.1 | 3620.2 | 3564.9 | 3537.3 |
| 25°   | 7949.7  | 6558.7 | 4679.5 | 4182.1 | 3942.6 | 3767.6 | 3620.2 | 3509.6 | 3399.1 | 3343.8 | 3325.4 |
| 27.5° | 8327.3  | 6742.9 | 4651.9 | 4090.0 | 3795.2 | 3601.8 | 3436.0 | 3316.2 | 3224.1 | 3159.6 | 3159.6 |
| 30°   | 8695.8  | 6918.0 | 4578.2 | 3961.0 | 3638.6 | 3445.2 | 3279.4 | 3168.8 | 3085.9 | 3030.6 | 3021.4 |
| 32.5° | 9119.6  | 7093.0 | 4486.1 | 3795.2 | 3482.0 | 3307.0 | 3141.2 | 3039.9 | 2966.2 | 2938.5 | 2947.7 |
| 35°   | 9543.3  | 7249.6 | 4338.7 | 3638.6 | 3316.2 | 3168.8 | 3012.2 | 2929.3 | 2901.7 | 2883.3 | 2874.0 |
| 37.5° | 9957.8  | 7360.1 | 4145.3 | 3445.2 | 3178.0 | 3003.0 | 2929.3 | 2846.4 | 2772.7 | 2680.6 | 2671.4 |
| 40°   | 10381.6 | 7452.2 | 3896.5 | 3251.7 | 3021.4 | 2883.3 | 2846.4 | 2735.9 | 2560.8 | 2404.2 | 2404.2 |
| 42.5° | 10869.8 | 7544.4 | 3629.4 | 3067.5 | 2828.0 | 2763.5 | 2754.3 | 2579.3 | 2321.3 | 2210.8 | 2201.6 |
| 45°   | 11450.1 | 7608.8 | 3389.9 | 2892.5 | 2625.3 | 2597.7 | 2671.4 | 2441.1 | 2229.2 | 2137.1 | 2146.3 |
| 47.5° | 12122.6 | 7756.2 | 3178.0 | 2699.0 | 2431.9 | 2477.9 | 2487.2 | 2312.1 | 2146.3 | 2035.8 | 2035.8 |
| 50°   | 12988.5 | 8014.2 | 2956.9 | 2450.3 | 2293.7 | 2395.0 | 2312.1 | 2183.2 | 2008.1 | 1943.7 | 1934.5 |
| 52.5° | 14139.9 | 8226.0 | 2772.7 | 2247.6 | 2201.6 | 2302.9 | 2192.4 | 2054.2 | 1906.8 | 1814.7 | 1805.5 |
| 55°   | 15015.0 | 8235.2 | 2597.7 | 2091.0 | 2137.1 | 2118.7 | 2072.6 | 1925.2 | 1814.7 | 1704.2 | 1704.2 |
| 57.5° | 15954.6 | 8180.0 | 2441.1 | 1998.9 | 2072.6 | 1989.7 | 1952.9 | 1796.3 | 1685.7 | 1602.8 | 1584.4 |
| 60°   | 16967.9 | 8078.6 | 2275.3 | 1934.5 | 2017.4 | 1897.6 | 1814.7 | 1685.7 | 1593.6 | 1529.1 | 1529.1 |
| 62.5° | 17142.9 | 7590.4 | 2072.6 | 1916.0 | 1952.9 | 1805.5 | 1676.5 | 1575.2 | 1483.1 | 1446.2 | 1446.2 |
| 65°   | 16820.5 | 7074.6 | 1842.3 | 1823.9 | 1851.5 | 1694.9 | 1547.6 | 1455.4 | 1381.8 | 1344.9 | 1335.7 |
| 67.5° | 16829.7 | 6236.3 | 1658.1 | 1713.4 | 1667.3 | 1566.0 | 1418.6 | 1335.7 | 1243.6 | 1215.9 | 1215.9 |
| 68°   | 16534.9 | 6033.6 | 1593.6 | 1694.9 | 1630.5 | 1529.1 | 1381.8 | 1289.6 | 1206.7 | 1197.5 | 1197.5 |
| 70°   | 15153.2 | 4891.4 | 1363.3 | 1566.0 | 1519.9 | 1400.2 | 1215.9 | 1169.9 | 1114.6 | 1105.4 | 1114.6 |
| 72.5° | 13237.2 | 3611.0 | 1096.2 | 1317.3 | 1354.1 | 1087.0 | 1068.6 | 1050.1 | 985.6  | 985.6  | 976.4  |
| 75°   | 10353.9 | 2634.5 | 829.1  | 1040.9 | 1004.1 | 994.9  | 912.0  | 902.7  | 847.5  | 838.3  | 819.8  |
| 77.5° | 4698.0  | 1344.9 | 561.9  | 690.9  | 801.4  | 884.3  | 764.6  | 736.9  | 700.1  | 700.1  | 690.9  |
| 80°   | 1317.3  | 690.9  | 377.7  | 396.1  | 488.2  | 718.5  | 598.8  | 543.5  | 571.1  | 552.7  | 479.0  |
| 82.5° | 405.3   | 285.6  | 230.3  | 248.7  | 230.3  | 414.5  | 442.2  | 340.8  | 304.0  | 322.4  | 340.8  |
| 85°   | 138.2   | 129.0  | 110.5  | 119.8  | 101.3  | 165.8  | 193.4  | 129.0  | 138.2  | 138.2  | 119.8  |
| 87.5° | 73.7    | 73.7   | 55.3   | 46.1   | 36.8   | 27.6   | 18.4   | 18.4   | 9.2    | 9.2    | 9.2    |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-2  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-722-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2200K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2160     | CRI (Ra): | 71.9 |      |       |
| CIE u':                   | 0.2927   | R1:       | 68.7 | R9:  | -17.8 |
| CIE v':                   | 0.5388   | R2:       | 82.6 | R10: | 60.5  |
| Duv:                      | 0.0015   | R3:       | 95.5 | R11: | 60.2  |
| CIE x:                    | 0.5130   | R4:       | 66.4 | R12: | 48.2  |
| CIE y:                    | 0.4197   | R5:       | 65.4 | R13: | 70.7  |
| CIE z:                    | 0.0674   | R6:       | 75.9 | R14: | 96.8  |
| Peak Wavelength (nm):     | 609      | R7:       | 77.2 | R15: | 61.8  |
| Dominant Wavelength (nm): | 587      | R8:       | 43.5 |      |       |
| Purity:                   | 79.96089 |           |      |      |       |
| Rf:                       | 70.6     |           |      |      |       |
| Rg:                       | 97.6     |           |      |      |       |



### Test Conditions

Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

| 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: SP1-2407-184-2

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 27                                   | NR                             | 620               | 966                                  | NR                             | 750               | 46                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 42                                   | NR                             | 625               | 930                                  | NR                             | 755               | 39                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 67                                   | NR                             | 630               | 888                                  | NR                             | 760               | 34                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 101                                  | NR                             | 635               | 835                                  | NR                             | 765               | 30                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 139                                  | NR                             | 640               | 778                                  | NR                             | 770               | 26                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 183                                  | NR                             | 645               | 717                                  | NR                             | 775               | 22                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 224                                  | NR                             | 650               | 656                                  | NR                             | 780               | 19                                   | NR                             | 910               | 1                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 262                                  | NR                             | 655               | 595                                  | NR                             | 785               | 17                                   | NR                             | 915               | 1                                    | NR                             |
| 400               | 1                                    | NR                             | 530               | 299                                  | NR                             | 660               | 536                                  | NR                             | 790               | 15                                   | NR                             | 920               | 1                                    | NR                             |
| 405               | 3                                    | NR                             | 535               | 332                                  | NR                             | 665               | 480                                  | NR                             | 795               | 13                                   | NR                             | 925               | 1                                    | NR                             |
| 410               | 7                                    | NR                             | 540               | 365                                  | NR                             | 670               | 425                                  | NR                             | 800               | 11                                   | NR                             | 930               | 1                                    | NR                             |
| 415               | 17                                   | NR                             | 545               | 400                                  | NR                             | 675               | 376                                  | NR                             | 805               | 10                                   | NR                             | 935               | 0                                    | NR                             |
| 420               | 36                                   | NR                             | 550               | 437                                  | NR                             | 680               | 332                                  | NR                             | 810               | 8                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 67                                   | NR                             | 555               | 479                                  | NR                             | 685               | 291                                  | NR                             | 815               | 8                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 105                                  | NR                             | 560               | 525                                  | NR                             | 690               | 255                                  | NR                             | 820               | 7                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 141                                  | NR                             | 565               | 579                                  | NR                             | 695               | 221                                  | NR                             | 825               | 6                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 169                                  | NR                             | 570               | 639                                  | NR                             | 700               | 192                                  | NR                             | 830               | 5                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 173                                  | NR                             | 575               | 703                                  | NR                             | 705               | 167                                  | NR                             | 835               | 4                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 136                                  | NR                             | 580               | 769                                  | NR                             | 710               | 144                                  | NR                             | 840               | 4                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 80                                   | NR                             | 585               | 832                                  | NR                             | 715               | 125                                  | NR                             | 845               | 3                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 45                                   | NR                             | 590               | 890                                  | NR                             | 720               | 109                                  | NR                             | 850               | 3                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 32                                   | NR                             | 595               | 937                                  | NR                             | 725               | 94                                   | NR                             | 855               | 3                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 972                                  | NR                             | 730               | 81                                   | NR                             | 860               | 2                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 18                                   | NR                             | 605               | 992                                  | NR                             | 735               | 70                                   | NR                             | 865               | 2                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 18                                   | NR                             | 610               | 998                                  | NR                             | 740               | 61                                   | NR                             | 870               | 2                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 20                                   | NR                             | 615               | 990                                  | NR                             | 745               | 53                                   | NR                             | 875               | 2                                    | NR                             |                   |                                      |                                |

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### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 27                          | NR               | 620       | 966                         | NR               | 750       | 46                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 42                          | NR               | 625       | 930                         | NR               | 755       | 39                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 67                          | NR               | 630       | 888                         | NR               | 760       | 34                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 101                         | NR               | 635       | 835                         | NR               | 765       | 30                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 139                         | NR               | 640       | 778                         | NR               | 770       | 26                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 183                         | NR               | 645       | 717                         | NR               | 775       | 22                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 224                         | NR               | 650       | 656                         | NR               | 780       | 19                          | NR               | 910       | 1                           | NR               |
| 395       | 0                           | NR               | 525       | 262                         | NR               | 655       | 595                         | NR               | 785       | 17                          | NR               | 915       | 1                           | NR               |
| 400       | 1                           | NR               | 530       | 299                         | NR               | 660       | 536                         | NR               | 790       | 15                          | NR               | 920       | 1                           | NR               |
| 405       | 3                           | NR               | 535       | 332                         | NR               | 665       | 480                         | NR               | 795       | 13                          | NR               | 925       | 1                           | NR               |
| 410       | 7                           | NR               | 540       | 365                         | NR               | 670       | 425                         | NR               | 800       | 11                          | NR               | 930       | 1                           | NR               |
| 415       | 17                          | NR               | 545       | 400                         | NR               | 675       | 376                         | NR               | 805       | 10                          | NR               | 935       | 0                           | NR               |
| 420       | 36                          | NR               | 550       | 437                         | NR               | 680       | 332                         | NR               | 810       | 8                           | NR               | 940       | 0                           | NR               |
| 425       | 67                          | NR               | 555       | 479                         | NR               | 685       | 291                         | NR               | 815       | 8                           | NR               | 945       | 0                           | NR               |
| 430       | 105                         | NR               | 560       | 525                         | NR               | 690       | 255                         | NR               | 820       | 7                           | NR               | 950       | 0                           | NR               |
| 435       | 141                         | NR               | 565       | 579                         | NR               | 695       | 221                         | NR               | 825       | 6                           | NR               | 955       | 0                           | NR               |
| 440       | 169                         | NR               | 570       | 639                         | NR               | 700       | 192                         | NR               | 830       | 5                           | NR               | 960       | 0                           | NR               |
| 445       | 173                         | NR               | 575       | 703                         | NR               | 705       | 167                         | NR               | 835       | 4                           | NR               | 965       | 0                           | NR               |
| 450       | 136                         | NR               | 580       | 769                         | NR               | 710       | 144                         | NR               | 840       | 4                           | NR               | 970       | 0                           | NR               |
| 455       | 80                          | NR               | 585       | 832                         | NR               | 715       | 125                         | NR               | 845       | 3                           | NR               | 975       | 0                           | NR               |
| 460       | 45                          | NR               | 590       | 890                         | NR               | 720       | 109                         | NR               | 850       | 3                           | NR               | 980       | 0                           | NR               |
| 465       | 32                          | NR               | 595       | 937                         | NR               | 725       | 94                          | NR               | 855       | 3                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 972                         | NR               | 730       | 81                          | NR               | 860       | 2                           | NR               | 990       | 0                           | NR               |
| 475       | 18                          | NR               | 605       | 992                         | NR               | 735       | 70                          | NR               | 865       | 2                           | NR               | 995       | 0                           | NR               |
| 480       | 18                          | NR               | 610       | 998                         | NR               | 740       | 61                          | NR               | 870       | 2                           | NR               | 1000      | 0                           | NR               |
| 485       | 20                          | NR               | 615       | 990                         | NR               | 745       | 53                          | NR               | 875       | 2                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 27                                     | NR                             | 620               | 966                                    | NR                             | 750               | 46                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 42                                     | NR                             | 625               | 930                                    | NR                             | 755               | 39                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 67                                     | NR                             | 630               | 888                                    | NR                             | 760               | 34                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 101                                    | NR                             | 635               | 835                                    | NR                             | 765               | 30                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 139                                    | NR                             | 640               | 778                                    | NR                             | 770               | 26                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 183                                    | NR                             | 645               | 717                                    | NR                             | 775               | 22                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 224                                    | NR                             | 650               | 656                                    | NR                             | 780               | 19                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 262                                    | NR                             | 655               | 595                                    | NR                             | 785               | 17                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 1                                      | NR                             | 530               | 299                                    | NR                             | 660               | 536                                    | NR                             | 790               | 15                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 3                                      | NR                             | 535               | 332                                    | NR                             | 665               | 480                                    | NR                             | 795               | 13                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 7                                      | NR                             | 540               | 365                                    | NR                             | 670               | 425                                    | NR                             | 800               | 11                                     | NR                             | 930               | 1                                      | NR                             |
| 415               | 17                                     | NR                             | 545               | 400                                    | NR                             | 675               | 376                                    | NR                             | 805               | 10                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 36                                     | NR                             | 550               | 437                                    | NR                             | 680               | 332                                    | NR                             | 810               | 8                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 67                                     | NR                             | 555               | 479                                    | NR                             | 685               | 291                                    | NR                             | 815               | 8                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 105                                    | NR                             | 560               | 525                                    | NR                             | 690               | 255                                    | NR                             | 820               | 7                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 141                                    | NR                             | 565               | 579                                    | NR                             | 695               | 221                                    | NR                             | 825               | 6                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 169                                    | NR                             | 570               | 639                                    | NR                             | 700               | 192                                    | NR                             | 830               | 5                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 173                                    | NR                             | 575               | 703                                    | NR                             | 705               | 167                                    | NR                             | 835               | 4                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 136                                    | NR                             | 580               | 769                                    | NR                             | 710               | 144                                    | NR                             | 840               | 4                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 80                                     | NR                             | 585               | 832                                    | NR                             | 715               | 125                                    | NR                             | 845               | 3                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 45                                     | NR                             | 590               | 890                                    | NR                             | 720               | 109                                    | NR                             | 850               | 3                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 32                                     | NR                             | 595               | 937                                    | NR                             | 725               | 94                                     | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 23                                     | NR                             | 600               | 972                                    | NR                             | 730               | 81                                     | NR                             | 860               | 2                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 18                                     | NR                             | 605               | 992                                    | NR                             | 735               | 70                                     | NR                             | 865               | 2                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 18                                     | NR                             | 610               | 998                                    | NR                             | 740               | 61                                     | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 20                                     | NR                             | 615               | 990                                    | NR                             | 745               | 53                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

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TM-30-18

### Summary

$R_f = 70.6$   
 $R_g = 97.6$   
 $CIE R_a = 71.9$   
 $R_g = -17.8$



### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)