

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



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

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642446

Luminaire Tested: GWS-SA6C-830-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21357.4 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

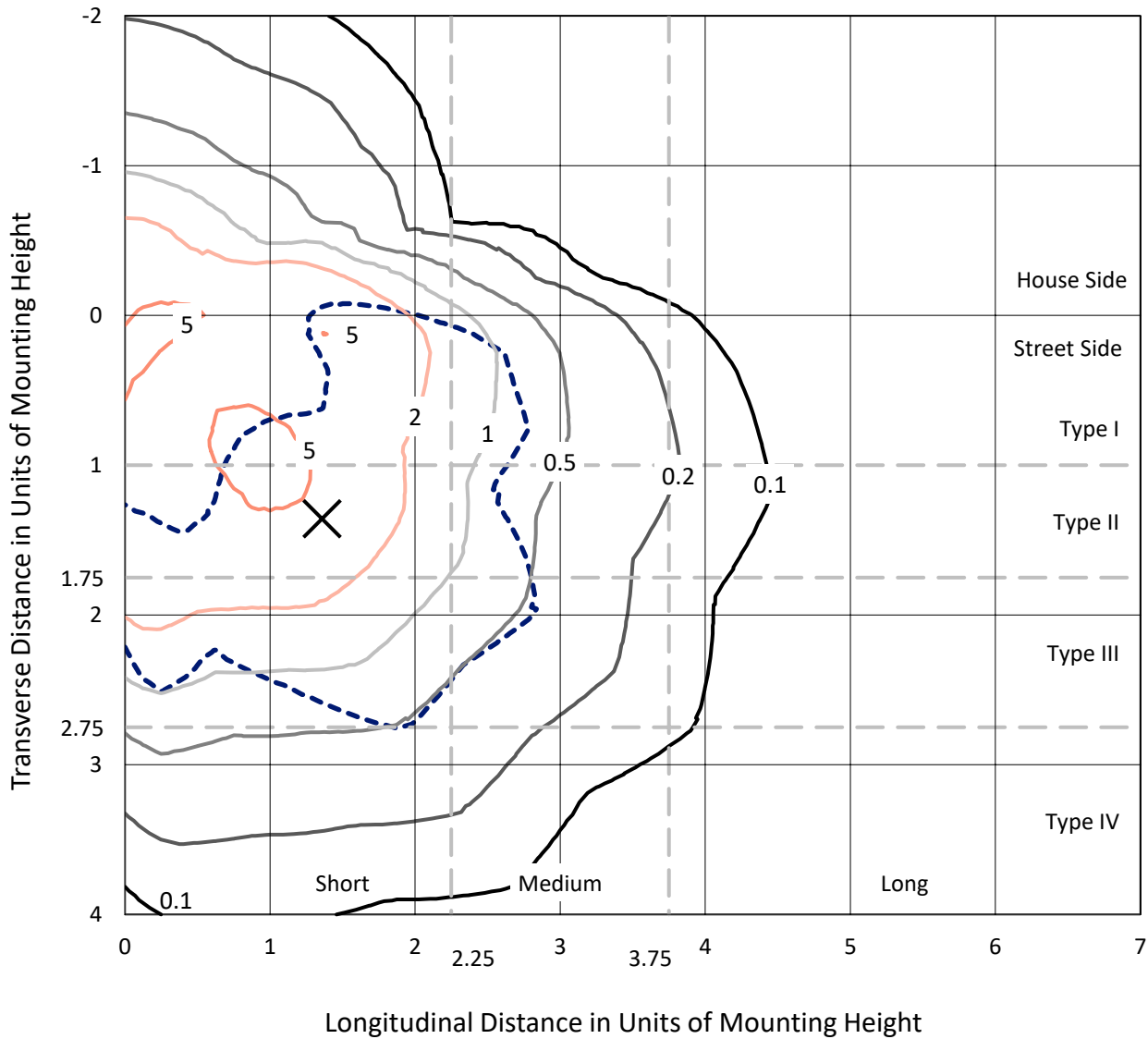
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

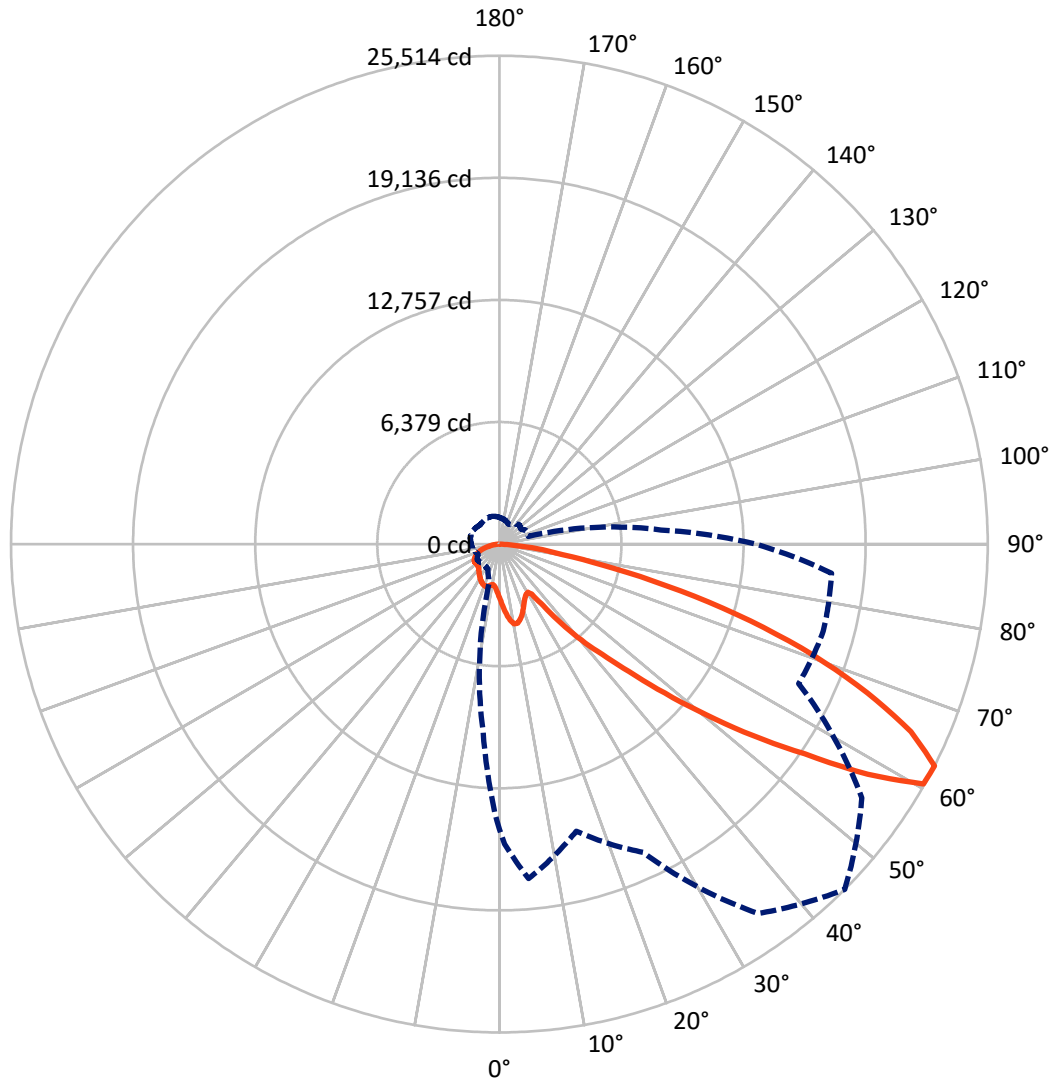
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5096.3	0.0	5096.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	16261.1	0.0	16261.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	21357.4	0.0	21357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.3
10°-20°	867.8	4.1
20°-30°	1347.9	6.3
30°-40°	1830.1	8.6
40°-50°	2900.6	13.6
50°-60°	5116.6	24.0
60°-70°	5693.0	26.7
70°-80°	2887.3	13.5
80°-90°	437.2	2.0
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°	21357.4	100.0
0°-180°	21357.4	100.0

Coefficient of Utilization



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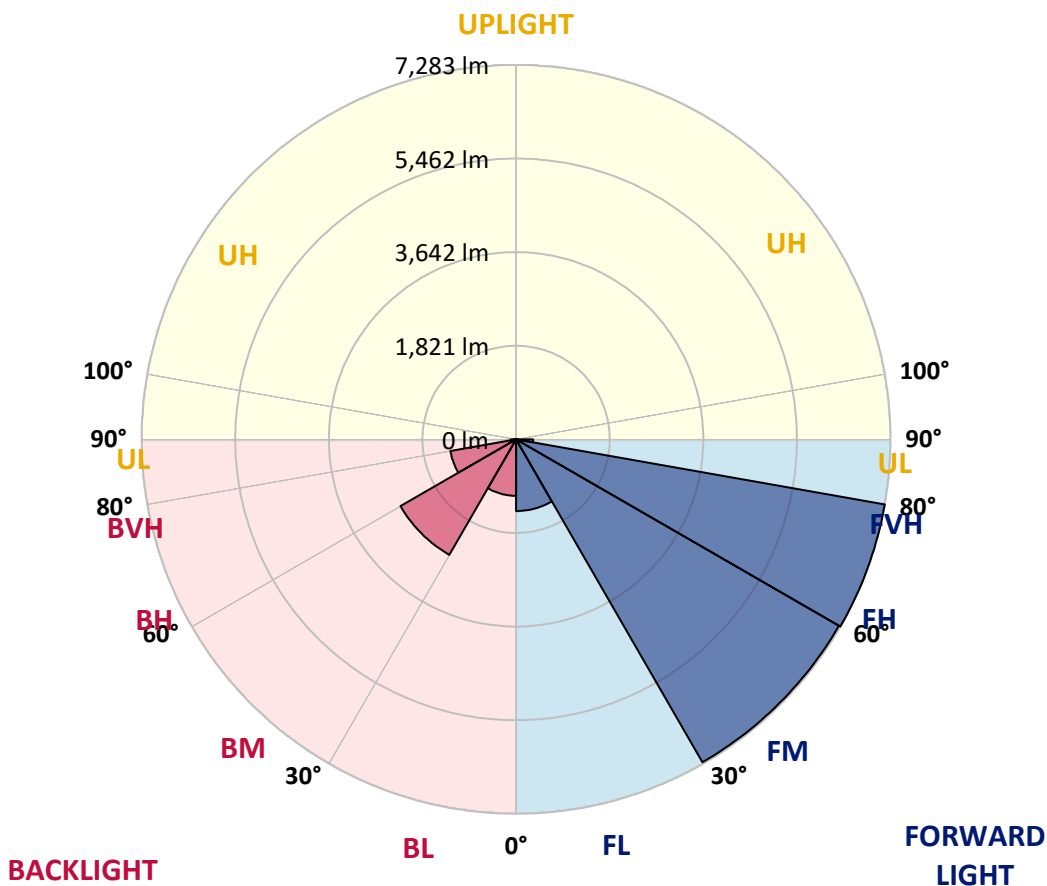
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.5	6.5			
FM	(30°-60°)	7251.8	34.0			
FH	(60°-80°)	7283.1	34.1			G3/7500
FVH	(80°-90°)	331.8	1.6			G3/500
BL	(0°-30°)	1098.1	5.1	B3/2500		
BM	(30°-60°)	2595.6	12.2	B3/5000		
BH	(60°-80°)	1297.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	105.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6
2.5°	3046.4	3044.8	3075.5	3122.4	3166.0	3185.4	3217.8	3214.6	3188.7	3154.7	3143.4
5°	3285.7	3292.2	3345.5	3449.0	3563.8	3612.3	3633.4	3625.3	3578.4	3518.5	3413.4
7.5°	3502.4	3513.7	3596.2	3751.4	3893.7	3958.4	4010.1	4000.4	3932.5	3820.9	3665.7
10°	3660.8	3673.8	3772.4	3955.1	4113.6	4170.2	4236.5	4239.7	4179.9	4029.5	3871.0
12.5°	3819.3	3832.2	3924.4	4091.0	4194.4	4196.1	4234.9	4255.9	4259.1	4189.6	4031.1
15°	3984.2	3995.6	4079.6	4173.4	4168.6	4078.0	4078.0	4118.4	4207.4	4257.5	4147.5
17.5°	4124.9	4139.5	4204.1	4173.4	4029.5	3866.2	3846.8	3898.5	4053.8	4246.2	4234.9
20°	4241.3	4252.7	4288.2	4084.5	3822.5	3609.1	3571.9	3631.7	3841.9	4176.7	4301.2
22.5°	4352.9	4359.4	4340.0	3968.1	3599.4	3355.2	3310.0	3373.0	3599.4	4053.8	4357.8
25°	4485.5	4479.0	4386.9	3846.8	3395.7	3154.7	3107.8	3179.0	3415.1	3890.5	4419.2
27.5°	4639.1	4614.9	4427.3	3715.8	3238.8	3006.0	2973.6	3049.6	3269.5	3740.1	4467.7
30°	4770.1	4723.2	4433.8	3599.4	3158.0	2942.9	2923.5	2994.6	3198.4	3638.2	4529.2
32.5°	4915.6	4850.9	4470.9	3568.7	3203.2	3094.9	3120.8	3125.6	3217.8	3609.1	4621.3
35°	5124.2	5040.1	4572.8	3657.6	3668.9	3851.6	3945.4	3819.3	3510.5	3673.8	4796.0
37.5°	5439.5	5332.8	4779.8	4042.4	4631.0	5040.1	5266.5	4978.7	4399.8	3917.9	5059.5
40°	5822.7	5686.9	5045.0	4753.9	5530.1	6184.9	6587.6	6165.5	5315.0	4527.5	5429.8
42.5°	6358.0	6215.7	5559.2	5452.5	6362.8	7337.8	7863.4	7234.4	6121.9	5315.0	6023.2
45°	7291.0	7153.5	6501.9	6152.6	7337.8	8757.6	9494.9	8620.1	6941.7	6105.7	7132.5
47.5°	9014.7	8853.0	7902.2	6928.8	8450.3	10600.9	11632.5	10358.4	7793.8	7011.2	8995.3
50°	11084.4	10929.2	9659.8	7847.2	9679.2	12572.0	14006.3	12400.6	8775.3	8112.4	11221.8
52.5°	13574.5	13545.4	12167.8	9008.2	10958.3	14674.1	16640.3	14662.8	9850.6	9595.1	13744.3
55°	15818.9	16103.5	15353.2	10778.8	12610.8	17314.6	19348.8	17130.3	11309.1	12046.5	16698.5
57.5°	17028.4	17793.2	18946.1	14391.1	15013.6	20470.9	22691.1	20142.7	13815.5	16127.7	19437.7
60°	16229.6	17096.3	19185.4	17110.9	17397.1	22999.9	25449.6	22674.9	16276.5	18960.7	19282.5
62.5°	14900.5	15678.2	17536.1	15523.0	17765.7	23556.1	25514.3	23116.3	17254.8	17523.2	17418.1
65°	13323.9	14108.1	16076.0	13550.3	16593.4	22235.1	23632.1	21817.9	15497.1	15831.8	15870.6
67.5°	11229.9	11954.3	13957.8	12048.1	15125.2	20296.3	20742.6	19968.1	14271.5	14805.1	14247.2
70°	8390.5	9043.8	10812.7	9790.8	12749.9	17770.6	17410.0	17524.8	12895.4	13425.8	11901.0
72.5°	5733.8	6225.4	7742.1	7693.6	9763.3	14226.2	13723.3	14811.5	10770.7	11474.1	9072.9
75°	4010.1	4393.3	5596.4	6078.2	7379.9	10544.3	9773.0	11086.0	8411.5	9415.7	6619.9
77.5°	2461.0	2714.9	3534.7	4503.3	4747.4	7216.6	6070.1	8342.0	5906.8	6867.3	4416.0
80°	1230.5	1353.4	1717.2	2831.3	3148.3	4252.7	3352.0	4842.9	3997.2	4252.7	2443.3
82.5°	371.9	410.7	502.9	1075.3	1631.5	2448.1	1980.8	2813.5	2182.9	1993.7	962.1
85°	98.6	111.6	139.1	318.5	572.4	878.0	669.4	1363.1	1046.2	735.7	362.2
87.5°	8.1	8.1	6.5	6.5	3.2	0.0	0.0	97.0	195.7	111.6	63.1
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°	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6
2.5°	3086.8	3080.3	3014.0	2965.5	2908.9	2854.0	2797.4	2747.2	2690.7	2634.1	2617.9
5°	3335.8	3290.6	3149.9	3031.8	2915.4	2813.5	2724.6	2632.4	2558.1	2485.3	2457.8
7.5°	3555.7	3476.5	3272.8	3093.3	2931.6	2805.5	2674.5	2540.3	2435.2	2331.7	2305.8
10°	3754.6	3649.5	3392.4	3166.0	2986.6	2842.6	2689.0	2509.6	2357.6	2231.4	2197.5
12.5°	3901.8	3787.0	3495.9	3235.6	3031.8	2870.1	2718.1	2559.7	2399.6	2236.3	2199.1
15°	4018.2	3898.5	3581.6	3288.9	3033.5	2824.9	2677.7	2622.7	2572.6	2412.5	2344.6
17.5°	4112.0	3985.9	3656.0	3321.3	2989.8	2687.4	2559.7	2640.5	2768.3	2668.0	2540.3
20°	4197.7	4069.9	3712.6	3343.9	2892.8	2498.2	2427.1	2598.5	2790.9	2787.7	2672.9
22.5°	4291.5	4167.0	3795.0	3356.8	2756.9	2305.8	2347.9	2537.0	2693.9	2740.8	2669.6
25°	4411.1	4301.2	3909.9	3386.0	2603.3	2173.2	2289.6	2457.8	2588.8	2600.1	2558.1
27.5°	4550.2	4467.7	4081.3	3453.9	2454.6	2105.3	2221.7	2346.2	2465.9	2470.7	2420.6
30°	4702.2	4647.2	4239.7	3510.5	2343.0	2084.3	2134.4	2234.7	2310.7	2323.6	2279.9
32.5°	4896.2	4847.7	4380.4	3473.3	2276.7	2079.4	2053.6	2105.3	2168.4	2168.4	2134.4
35°	5163.0	5095.1	4529.2	3331.0	2195.9	2060.0	1967.9	1982.4	2009.9	2014.8	1995.4
37.5°	5541.4	5429.8	4679.5	3049.6	2063.3	1990.5	1869.2	1851.4	1861.1	1874.1	1869.2
40°	6010.3	5827.6	4899.4	2711.7	1904.8	1856.3	1767.4	1733.4	1725.3	1751.2	1760.9
42.5°	6600.5	6320.8	5135.5	2396.4	1760.9	1702.7	1647.7	1618.6	1605.7	1649.3	1675.2
45°	7543.2	7082.4	5361.9	2084.3	1680.0	1571.7	1534.5	1513.5	1520.0	1571.7	1604.0
47.5°	9171.5	8245.0	5577.0	1887.0	1673.6	1477.9	1432.6	1437.5	1455.3	1510.3	1549.1
50°	11231.5	9802.1	5720.9	1804.5	1693.0	1421.3	1361.5	1387.4	1414.9	1468.2	1513.5
52.5°	13328.8	11252.6	5549.5	1759.3	1691.4	1422.9	1295.2	1372.8	1385.8	1439.1	1487.6
55°	14771.1	11414.3	4794.3	1689.7	1665.5	1487.6	1243.5	1366.3	1374.4	1422.9	1466.6
57.5°	15320.9	10861.2	3656.0	1709.1	1587.9	1537.7	1220.8	1321.1	1379.3	1421.3	1466.6
60°	14656.3	9818.3	2221.7	1759.3	1463.4	1534.5	1235.4	1238.6	1338.9	1410.0	1455.3
62.5°	13403.1	8479.4	1560.4	1617.0	1372.8	1448.8	1269.3	1141.6	1267.7	1353.4	1393.8
65°	11967.3	6904.5	1190.1	1392.2	1329.2	1316.2	1280.6	1055.9	1170.7	1254.8	1290.3
67.5°	10471.6	5366.8	967.0	1038.1	1201.4	1190.1	1170.7	979.9	1055.9	1115.7	1156.1
70°	8587.8	3754.6	816.6	779.4	1030.0	1067.2	1023.5	884.5	908.7	970.2	1002.5
72.5°	6282.0	2339.8	671.0	643.6	827.9	933.0	910.4	779.4	790.7	848.9	874.8
75°	4517.8	1338.9	538.5	530.4	632.2	798.8	753.5	671.0	684.0	727.6	745.4
77.5°	2871.8	745.4	415.6	426.9	452.8	596.7	643.6	574.0	574.0	599.9	614.5
80°	1537.7	426.9	304.0	308.8	316.9	456.0	507.7	444.7	444.7	426.9	444.7
82.5°	627.4	245.8	208.6	194.0	211.8	312.1	355.7	283.0	295.9	266.8	273.3
85°	207.0	122.9	103.5	101.9	100.3	137.4	171.4	140.7	168.2	106.7	111.6
87.5°	27.5	22.6	12.9	9.7	11.3	4.9	9.7	11.3	11.3	8.1	8.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6
2.5°	2606.6	2593.6	2546.7	2558.1	2550.0	2537.0	2550.0	2525.7	2545.1	2551.6	2592.0
5°	2436.8	2406.1	2360.8	2338.2	2333.3	2320.4	2322.0	2310.7	2313.9	2341.4	2386.7
7.5°	2284.8	2255.7	2220.1	2203.9	2189.4	2174.8	2173.2	2171.6	2184.5	2208.8	2252.5
10°	2174.8	2158.7	2144.1	2150.6	2144.1	2137.6	2126.3	2126.3	2147.3	2191.0	2244.4
12.5°	2174.8	2171.6	2174.8	2194.2	2192.6	2194.2	2179.7	2187.8	2246.0	2320.4	2396.4
15°	2291.3	2265.4	2265.4	2275.1	2271.9	2271.9	2271.9	2305.8	2438.4	2553.2	2634.1
17.5°	2433.6	2357.6	2325.2	2320.4	2318.7	2318.7	2325.2	2398.0	2605.0	2726.2	2773.1
20°	2532.2	2388.3	2334.9	2313.9	2315.5	2318.7	2338.2	2438.4	2666.4	2727.8	2716.5
22.5°	2550.0	2364.0	2299.3	2268.6	2273.5	2276.7	2305.8	2412.5	2582.3	2592.0	2569.4
25°	2467.5	2296.1	2226.6	2202.3	2208.8	2207.2	2233.0	2310.7	2431.9	2428.7	2415.8
27.5°	2344.6	2187.8	2136.0	2119.9	2131.2	2118.2	2126.3	2186.2	2279.9	2276.7	2271.9
30°	2218.5	2082.7	2035.8	2027.7	2042.2	2022.8	2024.5	2074.6	2139.3	2136.0	2134.4
32.5°	2092.4	1977.6	1935.5	1935.5	1950.1	1929.1	1932.3	1975.9	2019.6	2006.7	2006.7
35°	1972.7	1891.9	1857.9	1851.4	1862.8	1848.2	1854.7	1895.1	1911.3	1893.5	1882.2
37.5°	1867.6	1832.0	1798.1	1775.4	1777.1	1778.7	1798.1	1828.8	1819.1	1793.2	1778.7
40°	1770.6	1770.6	1738.3	1696.2	1691.4	1702.7	1735.0	1769.0	1741.5	1712.4	1694.6
42.5°	1701.1	1715.6	1684.9	1642.9	1633.1	1652.6	1688.1	1712.4	1680.0	1647.7	1623.4
45°	1636.4	1672.0	1650.9	1604.0	1591.1	1613.7	1659.0	1668.7	1625.1	1594.3	1576.6
47.5°	1591.1	1639.6	1625.1	1579.8	1560.4	1592.7	1639.6	1638.0	1583.0	1550.7	1536.1
50°	1558.8	1620.2	1618.6	1579.8	1558.8	1599.2	1641.2	1620.2	1560.4	1526.4	1511.9
52.5°	1532.9	1618.6	1629.9	1607.3	1592.7	1628.3	1654.2	1613.7	1544.2	1508.6	1497.3
55°	1521.6	1625.1	1633.1	1612.1	1599.2	1631.5	1654.2	1626.7	1544.2	1511.9	1502.2
57.5°	1524.8	1617.0	1618.6	1589.5	1566.9	1607.3	1642.9	1634.8	1562.0	1524.8	1513.5
60°	1505.4	1573.3	1576.6	1531.3	1505.4	1553.9	1617.0	1612.1	1553.9	1515.1	1494.1
62.5°	1440.7	1500.6	1502.2	1460.1	1422.9	1492.5	1562.0	1560.4	1507.0	1468.2	1444.0
65°	1332.4	1395.5	1411.6	1371.2	1342.1	1416.5	1489.2	1486.0	1432.6	1397.1	1372.8
67.5°	1198.2	1266.1	1296.8	1269.3	1258.0	1325.9	1393.8	1392.2	1348.6	1314.6	1293.6
70°	1034.9	1091.5	1143.2	1143.2	1135.1	1212.7	1285.5	1279.0	1238.6	1212.7	1196.6
72.5°	899.0	942.7	958.9	975.0	999.3	1080.1	1141.6	1146.4	1117.3	1104.4	1117.3
75°	764.8	792.3	806.9	793.9	836.0	920.1	1000.9	1009.0	978.3	957.3	962.1
77.5°	629.0	659.7	674.3	645.2	641.9	748.7	847.3	865.1	839.2	806.9	816.6
80°	454.4	494.8	519.1	499.6	493.2	540.1	675.9	695.3	671.0	645.2	659.7
82.5°	278.1	300.8	307.2	326.6	367.1	386.5	435.0	499.6	481.9	459.2	499.6
85°	110.0	131.0	145.5	164.9	192.4	228.0	268.4	320.2	291.1	281.4	331.5
87.5°	6.5	1.6	0.0	3.2	27.5	53.4	114.8	158.5	132.6	142.3	171.4
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: P642446
 CATALOG NUMBER: GWS-SA6C-830-U-SLR-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6	2834.6
2.5°	2624.4	2666.4	2723.0	2769.9	2829.7	2886.3	2944.5	3002.7	3033.5	3046.4
5°	2438.4	2516.0	2606.6	2706.8	2823.2	2946.1	3070.6	3198.4	3279.2	3285.7
7.5°	2326.8	2438.4	2562.9	2689.0	2832.9	3002.7	3200.0	3397.3	3479.7	3502.4
10°	2362.4	2486.9	2585.5	2703.6	2862.1	3073.9	3306.7	3537.9	3633.4	3660.8
12.5°	2504.7	2529.0	2559.7	2668.0	2862.1	3135.3	3416.7	3691.6	3793.4	3819.3
15°	2622.7	2506.3	2451.3	2566.1	2823.2	3188.7	3533.1	3837.1	3960.0	3984.2
17.5°	2632.4	2431.9	2312.3	2415.8	2755.3	3225.9	3644.7	3998.8	4102.3	4124.9
20°	2533.8	2352.7	2197.5	2260.5	2663.2	3242.0	3725.5	4116.8	4218.7	4241.3
22.5°	2422.2	2288.0	2119.9	2116.6	2551.6	3259.8	3822.5	4228.4	4338.4	4352.9
25°	2317.1	2199.1	2056.8	2011.5	2422.2	3293.8	3953.5	4396.6	4480.6	4485.5
27.5°	2194.2	2103.7	2006.7	1963.0	2309.0	3358.5	4147.5	4597.1	4647.2	4639.1
30°	2082.7	2014.8	1971.1	1958.2	2237.9	3407.0	4331.9	4794.3	4797.6	4770.1
32.5°	1964.6	1938.8	1938.8	1980.8	2179.7	3395.7	4482.3	4986.8	4956.0	4915.6
35°	1859.5	1864.4	1898.3	1997.0	2082.7	3282.5	4626.2	5227.7	5182.4	5124.2
37.5°	1759.3	1796.5	1845.0	1940.4	1954.9	3114.3	4794.3	5568.9	5512.3	5439.5
40°	1673.6	1730.2	1786.8	1833.7	1819.1	2875.0	5028.8	5969.9	5906.8	5822.7
42.5°	1605.7	1660.6	1723.7	1728.5	1733.4	2626.0	5277.8	6461.4	6450.1	6358.0
45°	1562.0	1597.6	1657.4	1649.3	1728.5	2351.1	5507.4	7211.7	7360.5	7291.0
47.5°	1532.9	1560.4	1566.9	1600.8	1770.6	2105.3	5803.3	8679.9	9093.9	9014.7
50°	1516.7	1544.2	1471.5	1604.0	1777.1	1946.8	6212.4	10523.3	11189.5	11084.4
52.5°	1515.1	1508.6	1398.7	1638.0	1741.5	1849.8	6425.9	11868.6	13346.5	13574.5
55°	1518.3	1437.5	1361.5	1647.7	1670.3	1814.2	5711.2	12515.4	15337.0	15818.9
57.5°	1489.2	1359.9	1382.5	1608.9	1536.1	1909.7	4221.9	12284.2	16132.6	17028.4
60°	1434.3	1285.5	1421.3	1503.8	1398.7	1746.3	2907.3	11252.6	15307.9	16229.6
62.5°	1355.0	1233.8	1416.5	1368.0	1348.6	1429.4	1998.6	9808.6	13999.8	14900.5
65°	1266.1	1191.7	1340.5	1237.0	1248.3	1099.5	1413.2	8178.7	12437.8	13323.9
67.5°	1170.7	1165.8	1228.9	1101.2	1054.3	871.6	1030.0	6555.2	10431.1	11229.9
70°	1062.4	1097.9	1117.3	978.3	855.4	684.0	764.8	4584.1	7695.2	8390.5
72.5°	954.0	957.3	984.7	850.5	640.3	548.2	574.0	2776.4	5227.7	5733.8
75°	844.1	813.3	839.2	692.1	477.0	449.5	443.1	1715.6	3610.7	4010.1
77.5°	726.0	692.1	658.1	520.7	383.2	347.7	339.6	962.1	2215.3	2461.0
80°	590.2	544.9	491.6	381.6	279.7	249.0	247.4	468.9	1104.4	1230.5
82.5°	459.2	373.5	359.0	237.7	173.0	152.0	161.7	179.5	333.1	371.9
85°	321.8	271.7	190.8	95.4	77.6	63.1	61.4	53.4	88.9	98.6
87.5°	179.5	118.0	61.4	11.3	12.9	14.6	11.3	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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



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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

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

Spectral Parameters

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

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



Test Conditions

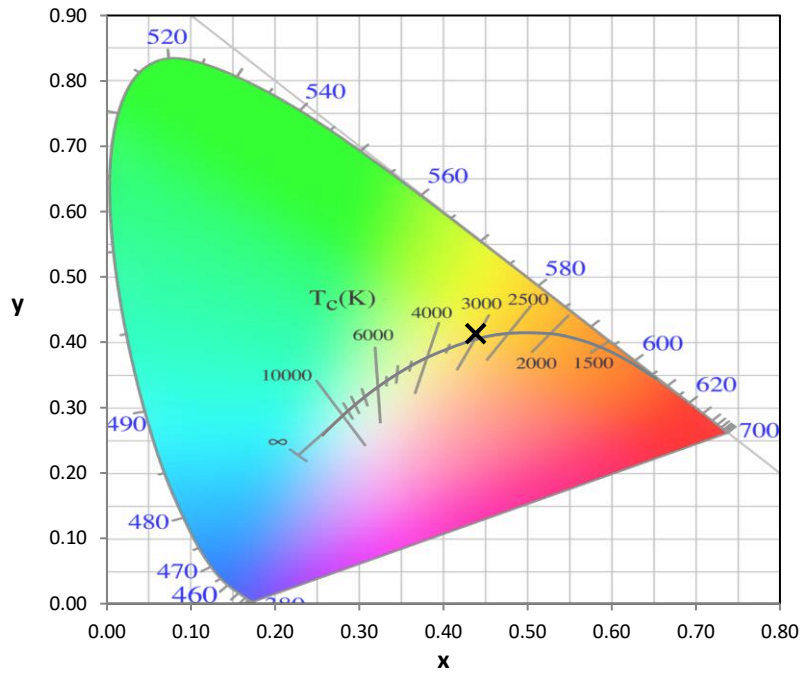
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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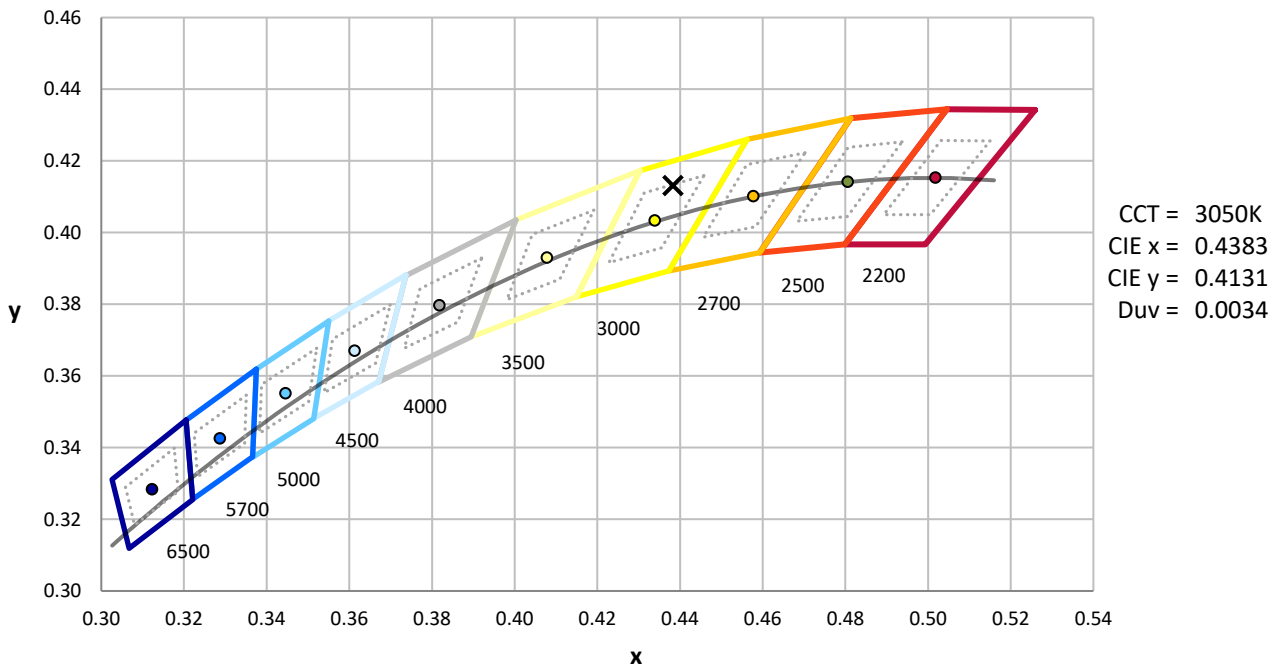
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



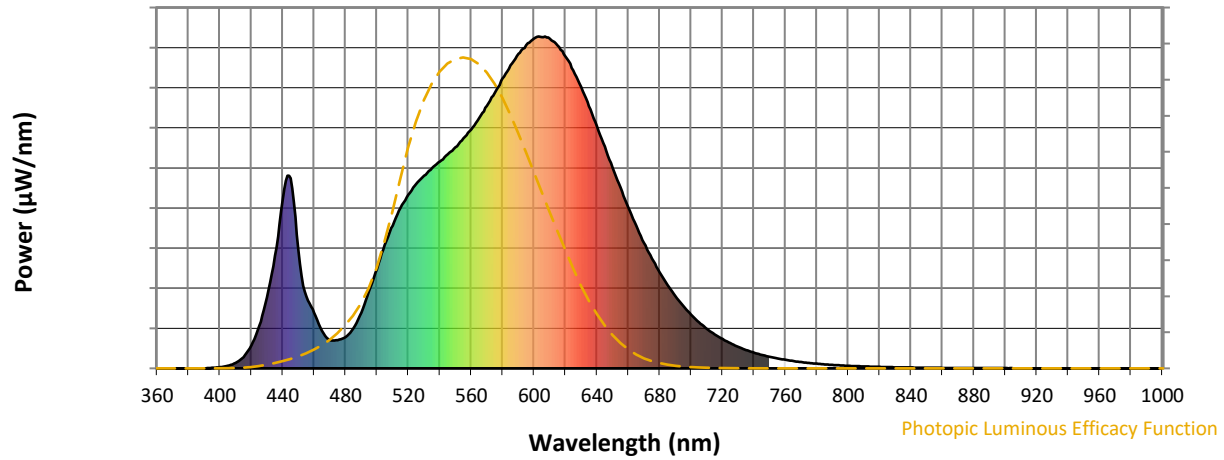
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

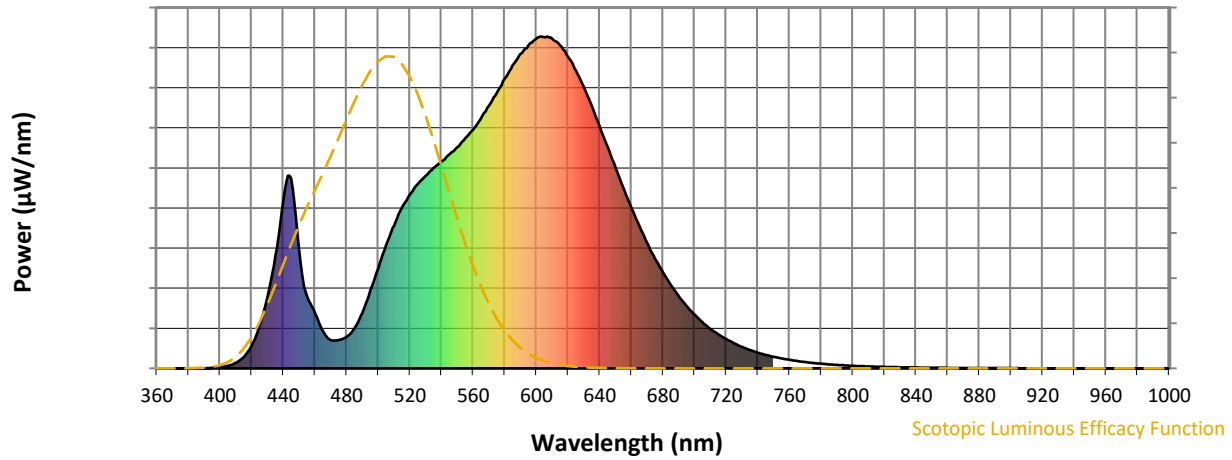


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



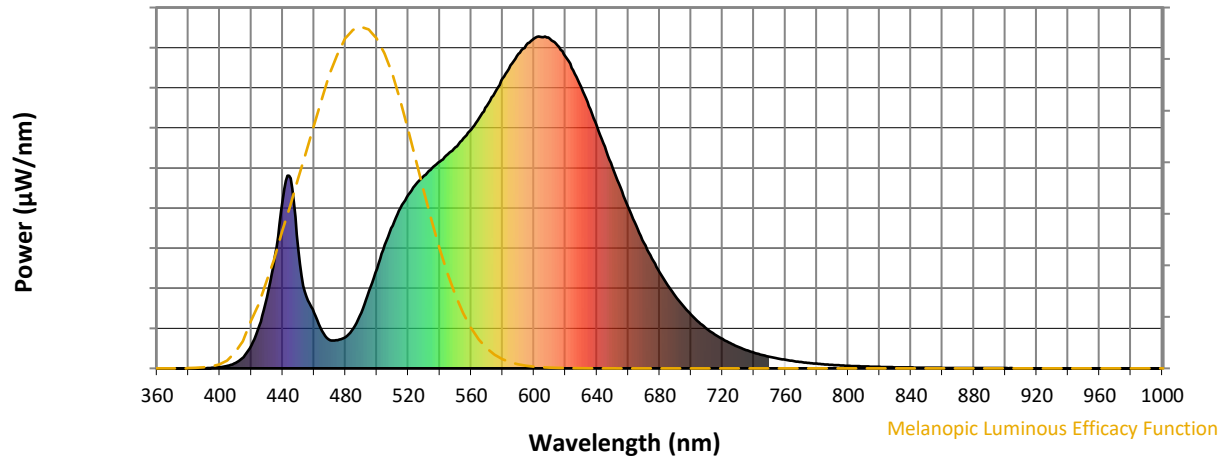
Scotopic Lumens: NR

S/P: 1.27

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

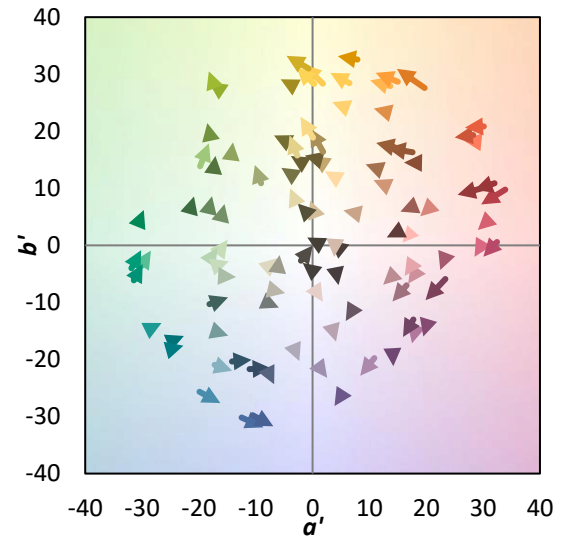
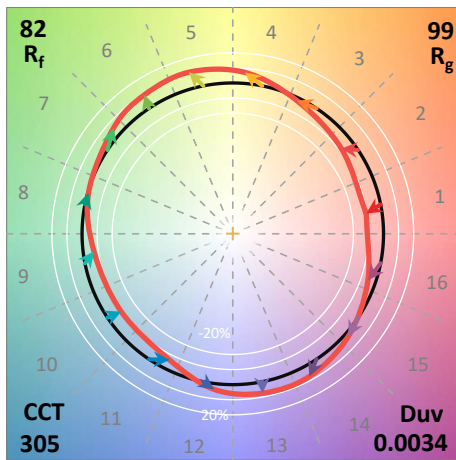
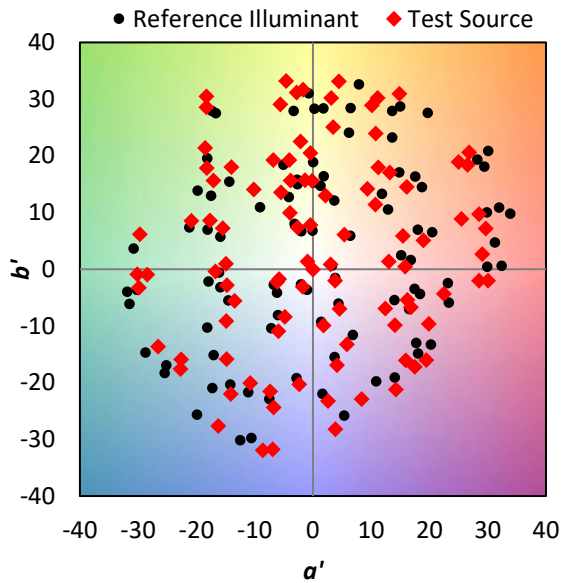
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

Summary

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

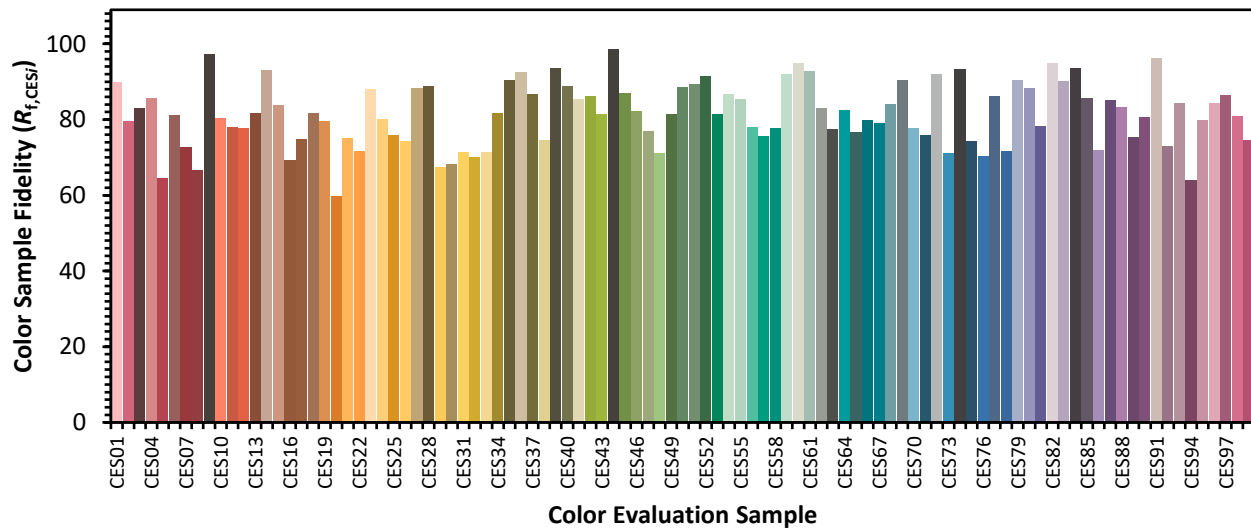


Color Vector Graphics

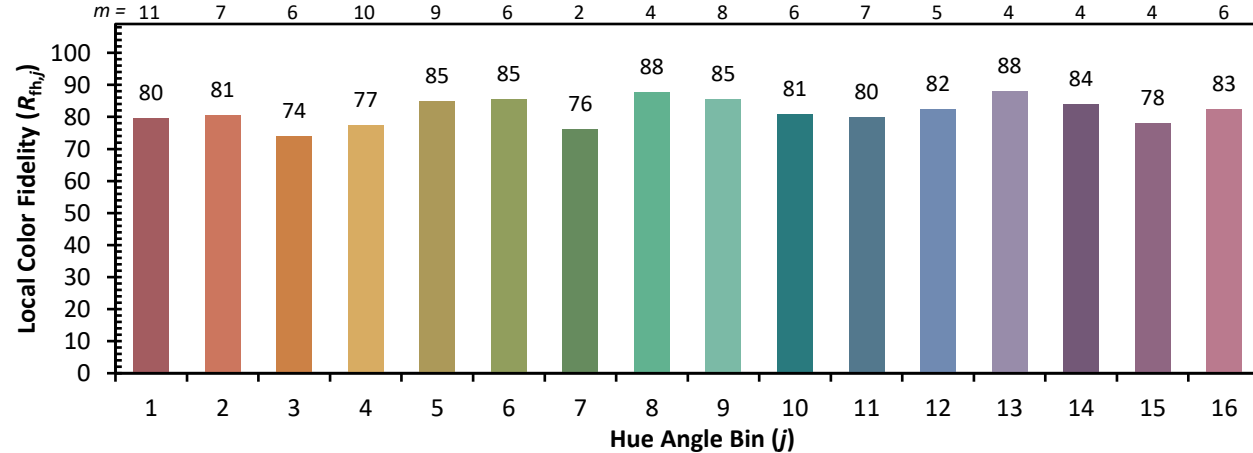
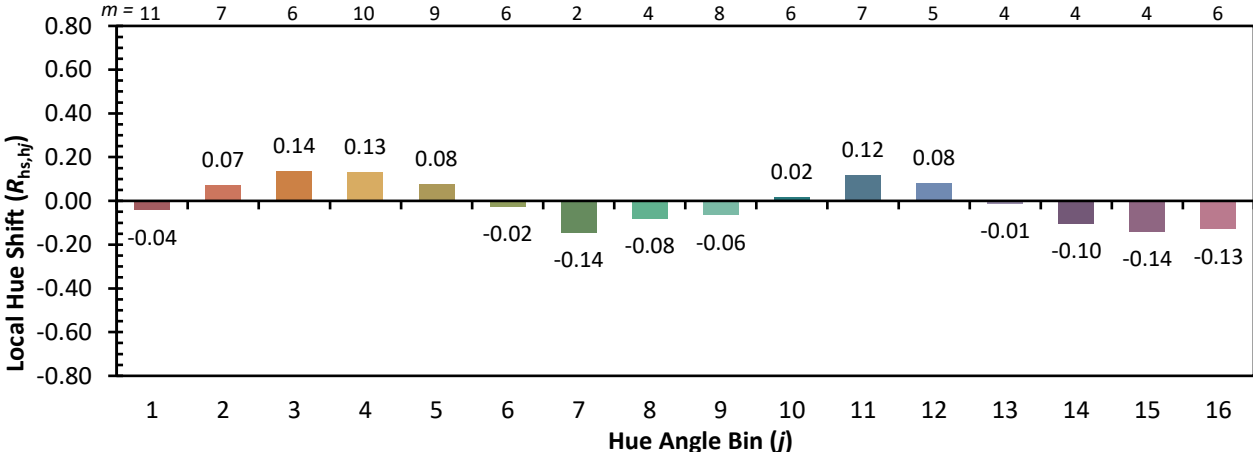
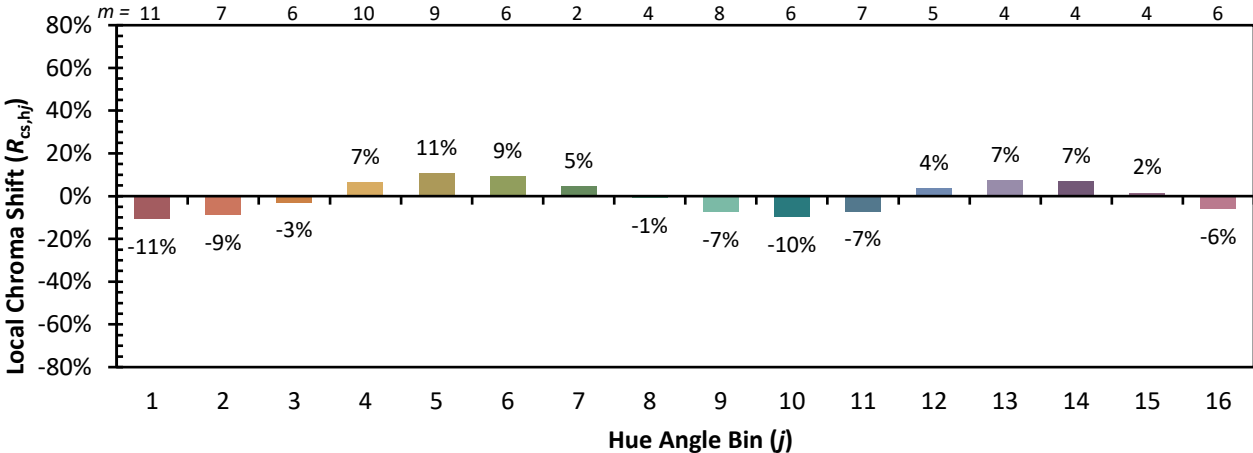


Individual Sample Fidelity Index ($R_{f,i}$)

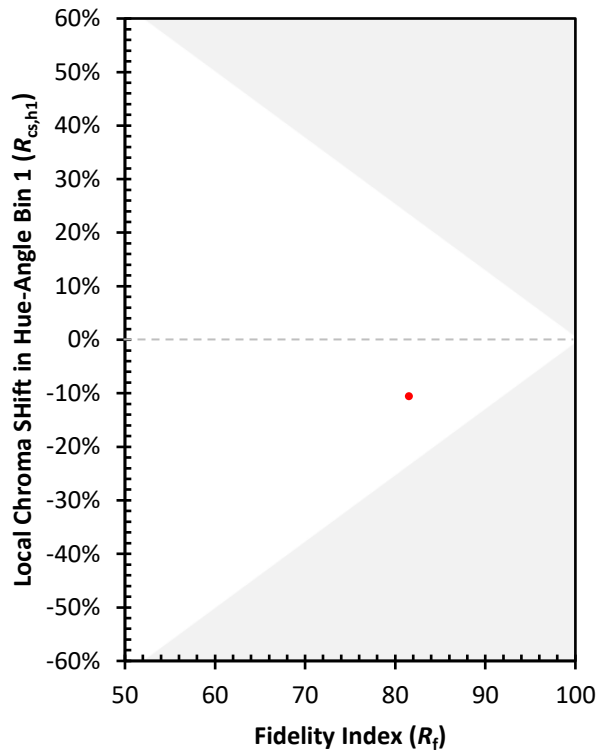
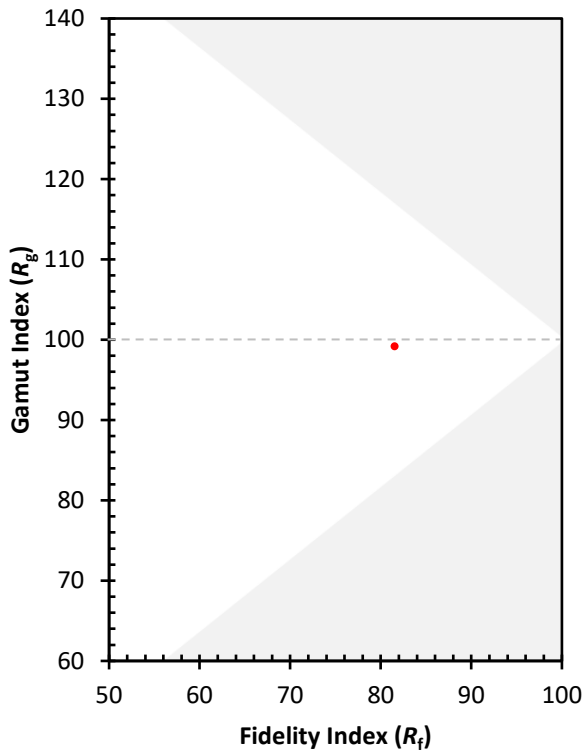
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)