

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: P641949

Luminaire Tested: GWS-SA6B-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-830-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13159.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 138.9
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



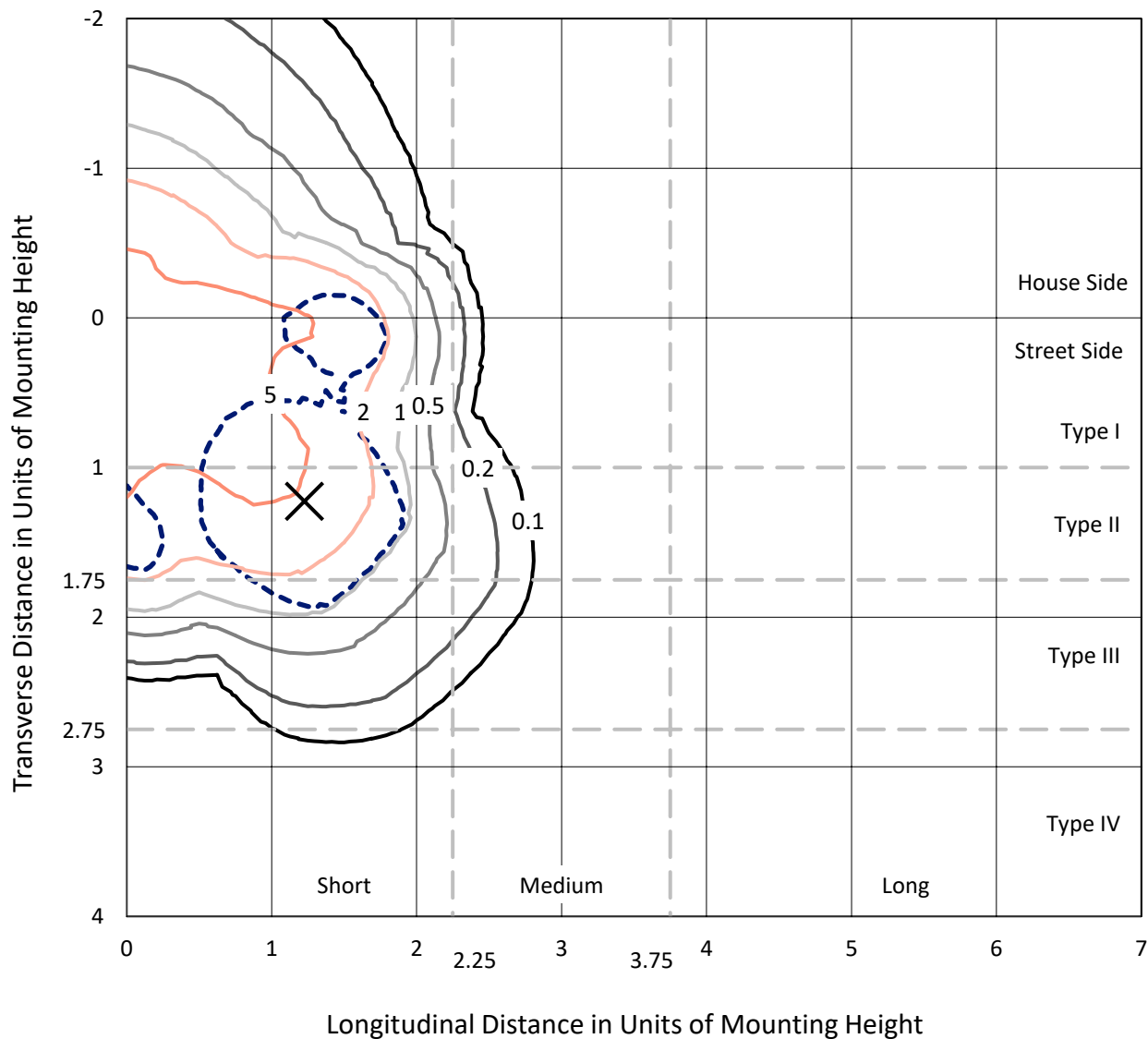
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

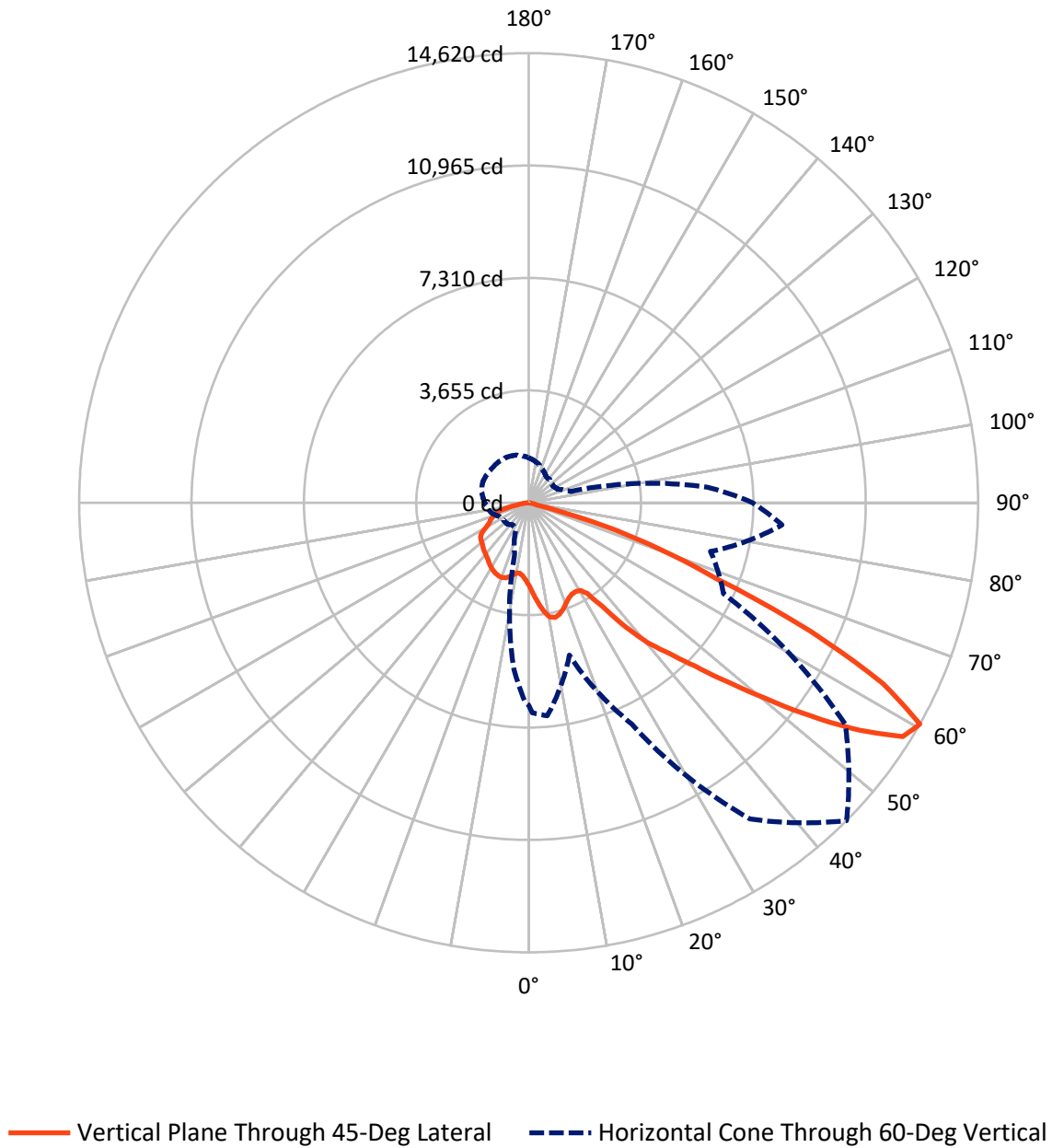


Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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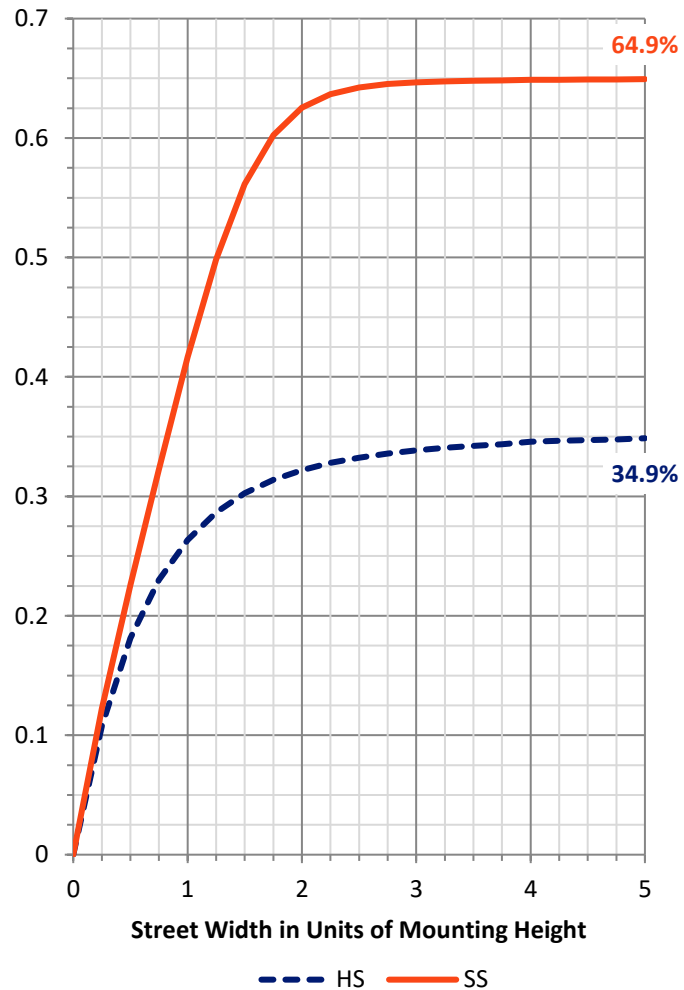
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4612.8	0.0	4612.8
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	8546.5	0.0	8546.5
	% Fixture	64.9	0.0	64.9
Total	Lumens	13159.3	0.0	13159.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	2.0
10°-20°	833.5	6.3
20°-30°	1353.9	10.3
30°-40°	1909.3	14.5
40°-50°	2638.7	20.1
50°-60°	3396.7	25.8
60°-70°	2152.2	16.4
70°-80°	552.3	4.2
80°-90°	59.1	0.4
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°	13159.3	100.0
0°-180°	13159.3	100.0

Coefficient of Utilization



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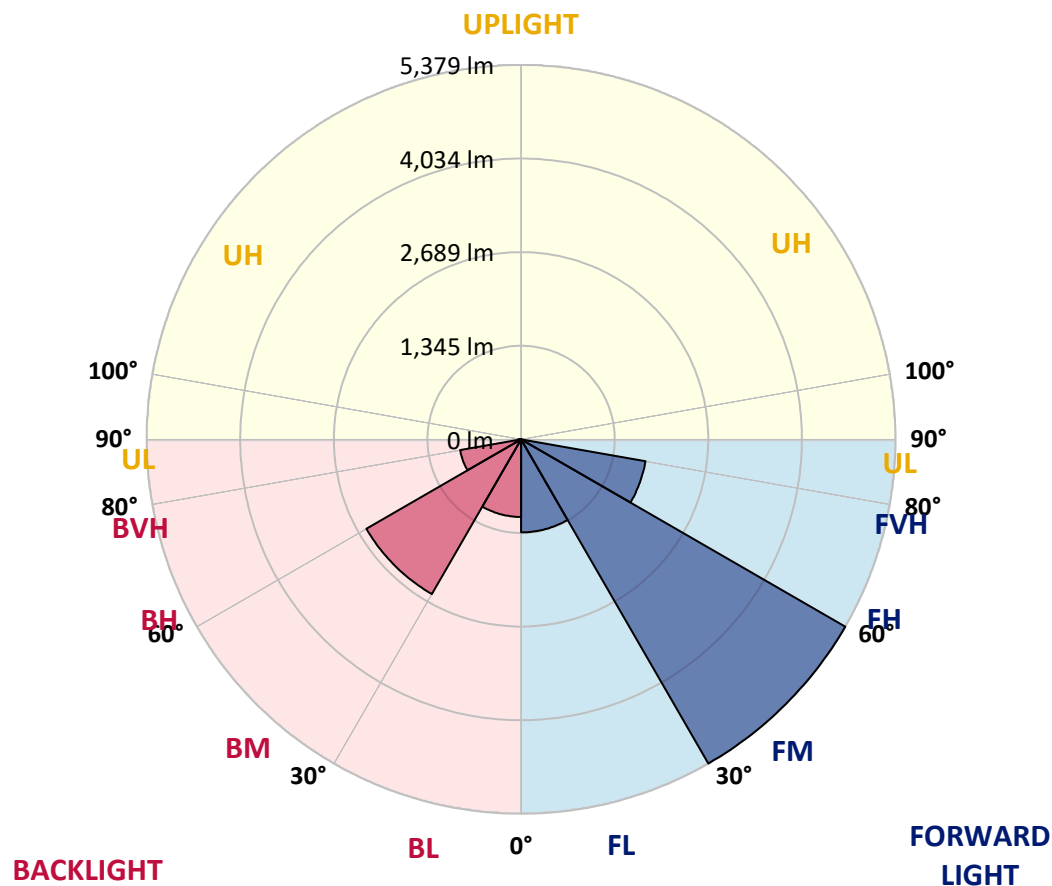
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.2	10.2			
FM	(30°-60°)	5378.8	40.9			
FH	(60°-80°)	1815.5	13.8			G2/5000
FVH	(80°-90°)	16.0	0.1			G1/100
BL	(0°-30°)	1114.9	8.5	B3/2500		
BM	(30°-60°)	2566.0	19.5	B3/5000		
BH	(60°-80°)	888.9	6.8	B2/1000		G2/1000
BVH	(80°-90°)	43.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3
2.5°	2827.5	2846.8	2858.8	2881.8	2922.8	2945.7	2971.0	2943.3	2950.5	2946.9	2902.3
5°	2995.1	3018.0	3049.4	3116.9	3192.8	3235.0	3274.8	3268.8	3231.4	3168.7	3124.1
7.5°	3151.8	3178.4	3232.6	3342.4	3454.5	3519.6	3567.8	3536.5	3505.1	3406.3	3294.1
10°	3274.8	3290.5	3364.1	3511.2	3641.4	3714.9	3774.0	3766.8	3723.4	3612.4	3461.7
12.5°	3390.6	3401.4	3481.0	3628.1	3745.1	3777.6	3825.9	3841.5	3827.1	3743.9	3595.6
15°	3514.8	3535.3	3608.8	3721.0	3774.0	3740.3	3757.1	3800.5	3841.5	3841.5	3705.3
17.5°	3630.5	3648.6	3723.4	3771.6	3721.0	3631.7	3636.6	3692.0	3789.7	3892.2	3805.4
20°	3733.0	3749.9	3823.5	3777.6	3617.3	3487.0	3483.4	3551.0	3708.9	3924.7	3912.7
22.5°	3845.2	3869.3	3930.8	3782.5	3520.8	3355.6	3354.4	3424.3	3637.8	3957.3	4035.7
25°	4004.3	4041.7	4073.0	3824.7	3469.0	3270.0	3285.7	3352.0	3614.9	4010.3	4217.7
27.5°	4240.6	4270.8	4268.4	3912.7	3466.5	3235.0	3267.6	3344.8	3655.9	4104.4	4409.5
30°	4496.3	4511.9	4486.6	4035.7	3522.0	3256.7	3305.0	3396.6	3759.5	4259.9	4691.6
32.5°	4779.6	4798.9	4750.7	4220.1	3651.0	3417.1	3523.2	3567.8	3905.4	4484.2	4990.6
35°	5105.2	5142.6	5042.5	4463.7	4030.8	4001.9	4156.2	4098.4	4215.3	4749.5	5310.2
37.5°	5447.6	5448.8	5305.3	4824.2	4776.0	4825.4	5134.1	4953.2	4872.5	5044.9	5635.7
40°	5738.2	5731.0	5510.3	5310.2	5424.7	5621.2	5993.8	5716.5	5504.3	5441.6	5905.8
42.5°	6028.8	6002.3	5779.2	5618.8	5872.0	6276.0	6696.8	6356.7	5909.4	5802.1	6172.3
45°	6400.2	6391.7	6122.8	5741.8	6276.0	7009.1	7567.3	7016.3	6149.4	6011.9	6616.0
47.5°	6999.4	6958.4	6458.0	5732.2	6654.6	7985.7	8691.1	7847.1	6317.0	6016.7	7332.2
50°	7585.4	7534.8	6858.3	5731.0	7045.2	8998.6	10017.4	8856.3	6488.2	6045.7	8060.5
52.5°	8177.4	8177.4	7515.5	5867.2	7455.2	10129.6	11549.9	10113.9	6780.0	6424.3	8956.4
55°	8529.5	8623.6	8254.6	6097.5	7935.1	11460.7	13065.6	11471.6	7230.9	7107.9	9783.5
57.5°	8082.2	8258.2	8205.2	5937.1	8218.4	12438.6	14350.9	12501.3	7454.0	7188.7	9659.3
60°	6585.8	6830.6	6952.4	5126.9	7938.7	12551.9	14619.8	12568.8	6993.4	6121.6	8273.9
62.5°	4378.1	4579.5	4765.1	3663.1	6872.8	11291.9	12930.5	11295.5	5840.7	4568.6	5732.2
65°	2147.5	2297.0	2497.1	2165.5	5369.2	9435.0	10081.3	9127.6	4225.0	2557.4	2924.0
67.5°	561.9	604.1	631.8	840.4	3846.4	6778.8	6575.0	6676.3	2714.2	835.6	764.4
70°	291.8	294.2	293.0	347.3	2599.6	4308.2	4531.2	4192.4	1894.2	349.7	301.4
72.5°	208.6	209.8	206.2	233.9	1255.2	2468.2	2557.4	2529.7	992.3	207.4	206.2
75°	136.3	137.5	135.0	137.5	189.3	280.9	259.2	272.5	165.2	131.4	131.4
77.5°	80.8	82.0	80.8	83.2	80.8	80.8	74.8	74.8	71.1	71.1	72.3
80°	54.3	54.3	53.1	55.5	50.6	50.6	48.2	47.0	43.4	42.2	42.2
82.5°	32.6	33.8	32.6	32.6	30.1	30.1	27.7	26.5	22.9	22.9	21.7
85°	16.9	16.9	15.7	15.7	13.3	12.1	9.6	9.6	7.2	6.0	6.0
87.5°	2.4	2.4	1.2	1.2	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3
2.5°	2890.2	2866.1	2829.9	2794.9	2762.4	2728.6	2690.0	2650.3	2616.5	2581.5	2563.4
5°	3065.0	3015.6	2921.5	2838.4	2763.6	2702.1	2635.8	2579.1	2526.1	2482.7	2460.9
7.5°	3223.0	3145.8	3003.5	2872.1	2770.8	2686.4	2594.8	2510.4	2439.2	2386.2	2365.7
10°	3368.9	3277.2	3090.4	2924.0	2805.8	2711.7	2599.6	2485.1	2391.0	2321.1	2304.2
12.5°	3487.0	3382.1	3159.1	2966.2	2826.3	2725.0	2626.1	2527.3	2434.4	2344.0	2329.5
15°	3591.9	3467.8	3210.9	2992.7	2819.1	2690.0	2606.8	2594.8	2594.8	2492.3	2463.4
17.5°	3682.4	3546.1	3253.1	3004.7	2773.2	2586.3	2535.7	2640.6	2758.8	2685.2	2620.1
20°	3786.1	3620.9	3288.1	3004.7	2688.8	2454.9	2450.1	2628.5	2803.4	2804.6	2735.9
22.5°	3891.0	3707.7	3329.1	2993.9	2573.1	2303.0	2392.2	2580.3	2735.9	2802.2	2755.2
25°	4061.0	3828.3	3394.2	2985.5	2438.0	2199.3	2340.4	2516.4	2647.8	2717.8	2687.6
27.5°	4276.8	3987.4	3493.1	2998.7	2304.2	2137.8	2284.9	2433.2	2552.6	2614.1	2592.4
30°	4518.0	4170.7	3599.2	3021.6	2207.7	2106.5	2218.6	2338.0	2444.1	2505.6	2495.9
32.5°	4825.4	4369.7	3690.8	2990.3	2153.5	2090.8	2148.7	2234.3	2336.8	2375.3	2383.8
35°	5193.2	4589.1	3760.8	2867.3	2104.0	2073.9	2072.7	2125.7	2198.1	2259.6	2265.6
37.5°	5532.0	4845.9	3837.9	2656.3	2014.8	2031.7	1983.5	2014.8	2086.0	2147.5	2171.6
40°	5867.2	5106.4	3945.2	2387.4	1897.9	1937.7	1881.0	1902.7	1959.4	2040.1	2078.7
42.5°	6192.8	5341.5	4058.6	2112.5	1780.9	1806.2	1764.0	1785.7	1844.8	1946.1	1989.5
45°	6547.3	5659.8	4146.6	1853.2	1679.6	1668.8	1635.0	1666.4	1755.6	1866.5	1918.4
47.5°	7217.7	6161.4	4204.5	1680.8	1625.4	1547.0	1508.4	1575.9	1677.2	1789.3	1852.0
50°	8036.4	6887.3	4187.6	1571.1	1578.3	1421.6	1408.3	1497.5	1606.1	1723.0	1791.8
52.5°	8685.1	7599.9	3995.9	1466.2	1486.7	1342.0	1303.4	1433.6	1537.3	1656.7	1727.8
55°	9180.6	7839.8	3407.5	1342.0	1337.2	1284.1	1203.3	1367.3	1468.6	1579.5	1656.7
57.5°	8776.7	7305.7	2526.1	1170.8	1141.9	1169.6	1091.2	1255.2	1384.2	1493.9	1562.7
60°	7284.0	5825.0	1407.1	1037.0	955.0	1022.5	1010.4	1137.0	1292.6	1408.3	1467.4
62.5°	4944.8	3878.9	834.4	819.9	774.1	870.6	934.5	1017.7	1170.8	1264.8	1320.3
65°	2464.6	1884.6	554.6	613.7	619.8	716.2	836.8	928.4	1056.2	1152.7	1208.2
67.5°	715.0	586.0	422.0	469.0	534.2	611.3	707.8	816.3	940.5	1055.0	1120.1
70°	308.7	312.3	335.2	390.7	454.6	534.2	630.6	736.7	841.6	929.6	979.1
72.5°	218.2	226.7	252.0	308.7	369.0	444.9	541.4	643.9	719.8	809.1	860.9
75°	139.9	145.9	166.4	209.8	254.4	328.0	419.6	513.7	592.0	655.9	705.4
77.5°	77.2	78.4	95.3	120.6	150.7	197.7	265.3	338.8	396.7	432.9	477.5
80°	44.6	44.6	53.1	68.7	86.8	115.8	153.1	189.3	224.3	247.2	268.9
82.5°	24.1	24.1	27.7	37.4	47.0	63.9	85.6	103.7	125.4	137.5	151.9
85°	7.2	7.2	9.6	13.3	16.9	24.1	33.8	43.4	53.1	61.5	69.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3
2.5°	2559.8	2542.9	2533.3	2521.2	2524.9	2514.0	2508.0	2511.6	2489.9	2511.6	2533.3
5°	2452.5	2428.4	2409.1	2393.4	2386.2	2371.7	2363.3	2363.3	2350.0	2371.7	2398.2
7.5°	2358.5	2339.2	2329.5	2319.9	2309.0	2295.8	2281.3	2276.5	2268.0	2290.9	2313.8
10°	2295.8	2298.2	2304.2	2317.5	2315.1	2306.6	2284.9	2272.9	2272.9	2299.4	2334.3
12.5°	2324.7	2350.0	2364.5	2388.6	2393.4	2386.2	2364.5	2354.8	2379.0	2418.7	2476.6
15°	2436.8	2453.7	2465.8	2485.1	2483.9	2477.8	2460.9	2468.2	2547.8	2624.9	2676.8
17.5°	2558.6	2539.3	2536.9	2549.0	2552.6	2545.4	2535.7	2568.3	2699.7	2772.0	2798.6
20°	2646.6	2580.3	2565.8	2570.7	2580.3	2576.7	2576.7	2629.8	2766.0	2799.8	2766.0
22.5°	2673.2	2579.1	2557.4	2558.6	2571.9	2573.1	2579.1	2634.6	2714.2	2715.4	2663.5
25°	2631.0	2540.5	2524.9	2527.3	2542.9	2541.7	2544.1	2575.5	2610.5	2596.0	2557.4
27.5°	2551.4	2473.0	2468.2	2481.4	2501.9	2491.1	2483.9	2492.3	2509.2	2491.1	2457.3
30°	2460.9	2394.6	2397.0	2422.4	2444.1	2426.0	2407.9	2412.7	2413.9	2394.6	2356.0
32.5°	2365.7	2316.3	2324.7	2351.2	2376.5	2357.3	2338.0	2335.6	2312.6	2289.7	2252.4
35°	2270.4	2251.1	2262.0	2283.7	2305.4	2289.7	2277.7	2270.4	2221.0	2187.2	2155.9
37.5°	2183.6	2198.1	2217.4	2230.6	2237.9	2236.7	2229.4	2212.6	2147.5	2107.7	2066.7
40°	2106.5	2151.1	2171.6	2177.6	2188.4	2186.0	2184.8	2160.7	2075.1	2032.9	1985.9
42.5°	2036.5	2099.2	2134.2	2140.2	2146.2	2147.5	2143.8	2108.9	2011.2	1961.8	1917.2
45°	1969.0	2051.0	2095.6	2089.6	2098.0	2098.0	2101.6	2055.8	1948.5	1897.9	1850.8
47.5°	1909.9	2006.4	2047.4	2040.1	2045.0	2048.6	2052.2	1999.1	1879.8	1831.5	1783.3
50°	1855.7	1958.1	1993.1	1995.5	1995.5	2004.0	2002.8	1950.9	1821.9	1770.1	1721.8
52.5°	1797.8	1908.7	1946.1	1961.8	1966.6	1970.2	1953.3	1893.0	1762.8	1700.1	1655.5
55°	1730.3	1858.1	1891.8	1912.3	1922.0	1919.6	1896.7	1835.2	1702.5	1639.8	1589.2
57.5°	1627.8	1749.6	1797.8	1807.4	1823.1	1813.5	1786.9	1735.1	1606.1	1543.4	1491.5
60°	1515.6	1603.7	1642.2	1650.7	1638.6	1642.2	1638.6	1589.2	1477.1	1427.6	1374.6
62.5°	1368.5	1446.9	1487.9	1498.8	1478.3	1491.5	1486.7	1425.2	1313.1	1261.2	1214.2
65°	1257.6	1343.2	1391.4	1397.5	1391.4	1397.5	1380.6	1305.8	1199.7	1146.7	1098.4
67.5°	1170.8	1258.8	1309.5	1326.3	1320.3	1319.1	1292.6	1205.8	1096.0	1038.2	976.7
70°	1021.3	1098.4	1163.6	1204.6	1204.6	1181.6	1131.0	1050.2	962.2	912.8	864.5
72.5°	904.3	1002.0	1065.9	1108.1	1116.5	1103.3	1032.1	946.5	845.2	795.8	745.2
75°	745.2	840.4	909.1	964.6	975.5	961.0	879.0	794.6	700.5	652.3	601.7
77.5°	498.0	554.6	610.1	660.8	649.9	659.5	604.1	540.2	482.3	446.1	423.2
80°	280.9	318.3	335.2	362.9	362.9	362.9	326.8	296.6	264.1	243.6	220.7
82.5°	159.2	183.3	190.5	213.4	219.4	220.7	196.5	177.2	156.7	145.9	130.2
85°	73.6	86.8	88.0	101.3	106.1	115.8	104.9	91.6	79.6	74.8	65.1
87.5°	2.4	7.2	9.6	18.1	24.1	27.7	30.1	30.1	25.3	22.9	19.3
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: P641949

CATALOG NUMBER: GWS-SA6B-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3	2703.3
2.5°	2559.8	2588.8	2622.5	2646.6	2690.0	2726.2	2763.6	2804.6	2834.7	2827.5
5°	2430.8	2479.0	2540.5	2597.2	2678.0	2760.0	2850.4	2943.3	2997.5	2995.1
7.5°	2358.5	2427.2	2501.9	2577.9	2673.2	2791.3	2930.0	3074.7	3148.2	3151.8
10°	2397.0	2470.6	2521.2	2585.1	2685.2	2833.5	2999.9	3173.6	3258.0	3274.8
12.5°	2518.8	2512.8	2509.2	2555.0	2675.6	2863.7	3067.4	3274.8	3370.1	3390.6
15°	2634.6	2510.4	2435.6	2467.0	2632.2	2883.0	3133.8	3385.8	3493.1	3514.8
17.5°	2656.3	2468.2	2329.5	2351.2	2563.4	2889.0	3197.7	3494.3	3610.0	3630.5
20°	2596.0	2413.9	2252.4	2222.2	2476.6	2873.3	3237.5	3584.7	3711.3	3733.0
22.5°	2520.0	2365.7	2194.5	2116.1	2370.5	2857.6	3282.1	3680.0	3825.9	3845.2
25°	2440.5	2304.2	2140.2	2020.8	2249.9	2848.0	3356.8	3805.4	3981.4	4004.3
27.5°	2356.0	2229.4	2093.2	1975.0	2139.0	2860.1	3462.9	4007.9	4208.1	4240.6
30°	2265.6	2154.7	2063.0	1959.4	2063.0	2870.9	3579.9	4215.3	4450.4	4496.3
32.5°	2171.6	2086.0	2031.7	1966.6	2016.0	2845.6	3682.4	4448.0	4739.8	4779.6
35°	2077.5	2016.0	1991.9	1979.9	1953.3	2752.7	3765.6	4683.2	5070.2	5105.2
37.5°	1989.5	1943.7	1936.4	1949.7	1856.9	2600.8	3862.0	4982.2	5394.6	5447.6
40°	1907.5	1865.3	1864.1	1861.7	1750.8	2393.4	3992.3	5286.0	5714.1	5738.2
42.5°	1831.5	1778.5	1788.1	1759.2	1663.9	2169.2	4115.2	5545.3	6011.9	6028.8
45°	1764.0	1694.1	1704.9	1668.8	1622.9	1934.0	4223.8	5851.5	6389.3	6400.2
47.5°	1698.9	1624.2	1594.0	1591.6	1615.7	1717.0	4329.9	6441.2	6980.1	6999.4
50°	1638.6	1557.8	1472.2	1525.3	1571.1	1554.2	4462.5	7073.0	7590.2	7585.4
52.5°	1580.7	1474.6	1352.9	1455.3	1455.3	1433.6	4425.1	7456.4	8094.2	8177.4
55°	1514.4	1340.8	1228.7	1338.4	1285.3	1325.1	3763.2	7581.8	8411.4	8529.5
57.5°	1383.0	1175.6	1077.9	1137.0	1057.4	1228.7	2703.3	6959.6	7872.4	8082.2
60°	1256.4	1053.8	989.9	979.1	875.4	1002.0	1752.0	5448.8	6479.7	6585.8
62.5°	1108.1	948.9	894.7	811.5	704.2	729.5	1061.1	3585.9	4354.0	4378.1
65°	996.0	859.7	756.0	657.1	576.4	529.3	627.0	1729.1	2176.4	2147.5
67.5°	854.9	736.7	637.8	566.7	500.4	441.3	417.2	513.7	581.2	561.9
70°	760.8	647.5	552.2	484.7	423.2	364.1	321.9	302.6	296.6	291.8
72.5°	655.9	557.1	458.2	393.1	335.2	280.9	242.4	219.4	213.4	208.6
75°	523.3	430.5	340.0	278.5	227.9	189.3	164.0	144.7	141.1	136.3
77.5°	346.1	276.1	202.6	165.2	135.0	114.5	97.7	85.6	83.2	80.8
80°	190.5	159.2	124.2	100.1	80.8	69.9	63.9	56.7	55.5	54.3
82.5°	113.3	95.3	71.1	56.7	47.0	42.2	38.6	35.0	33.8	32.6
85°	56.7	44.6	31.3	26.5	24.1	21.7	21.7	18.1	16.9	16.9
87.5°	14.5	12.1	7.2	6.0	6.0	6.0	4.8	3.6	3.6	2.4
90°	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: SP1-2408-195-9

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



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

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CIE 1931 Chromaticity Diagram



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



REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

TM-30-18

Summary

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



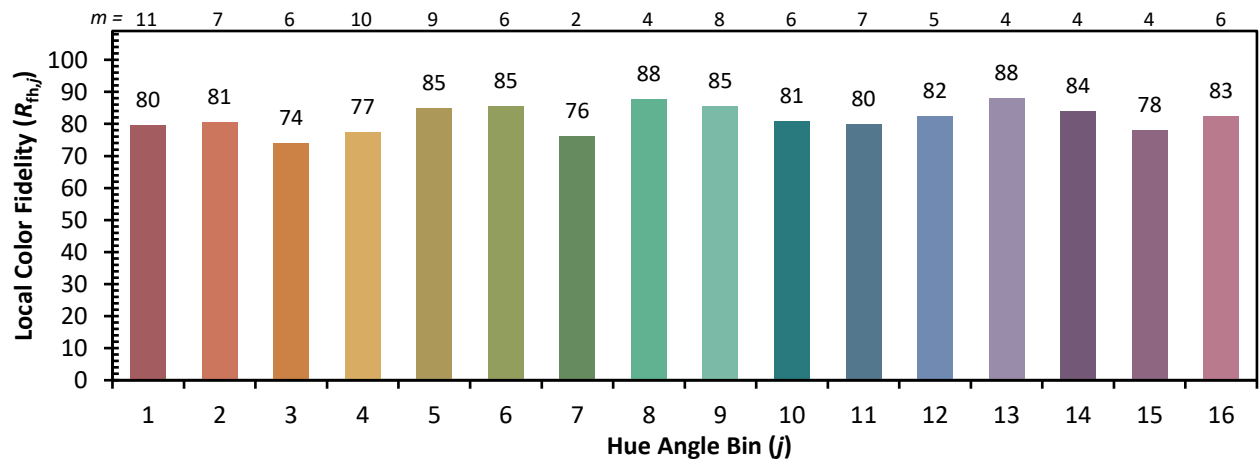
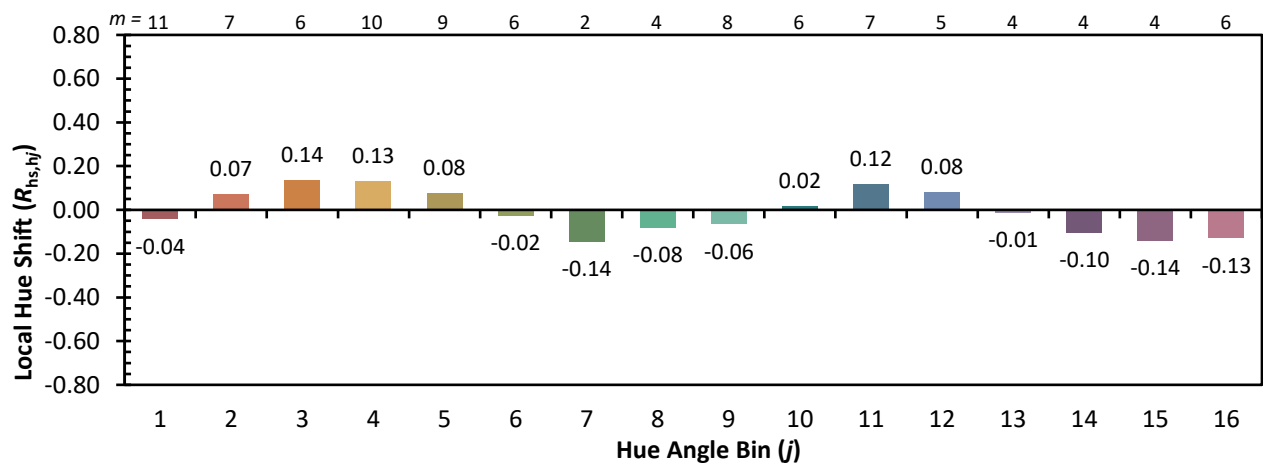
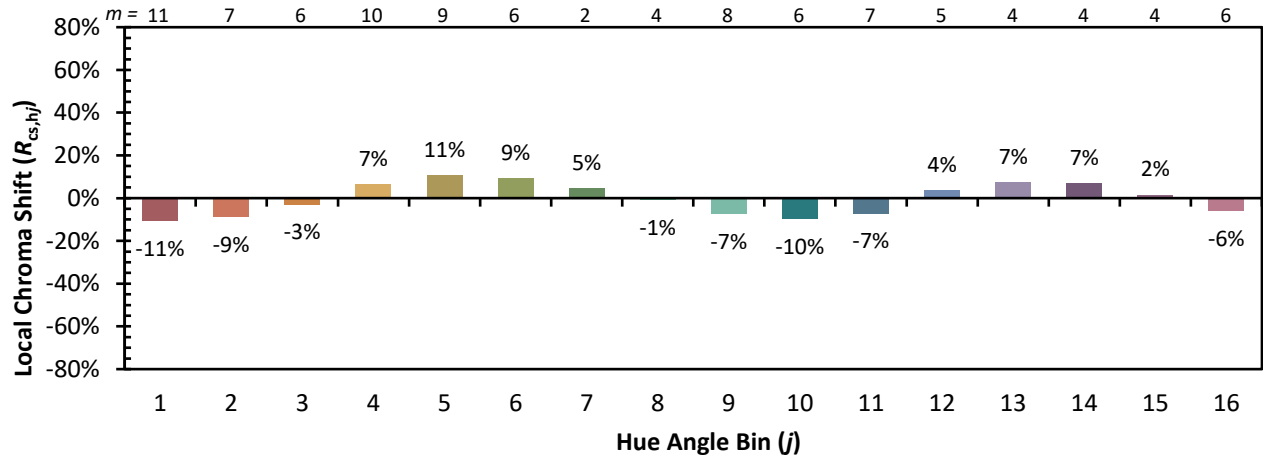
Color Vector Graphics



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)