

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: P633536

Luminaire Tested: GWS-SA2E-830-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633536
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-SA2E-830-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10974.8 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

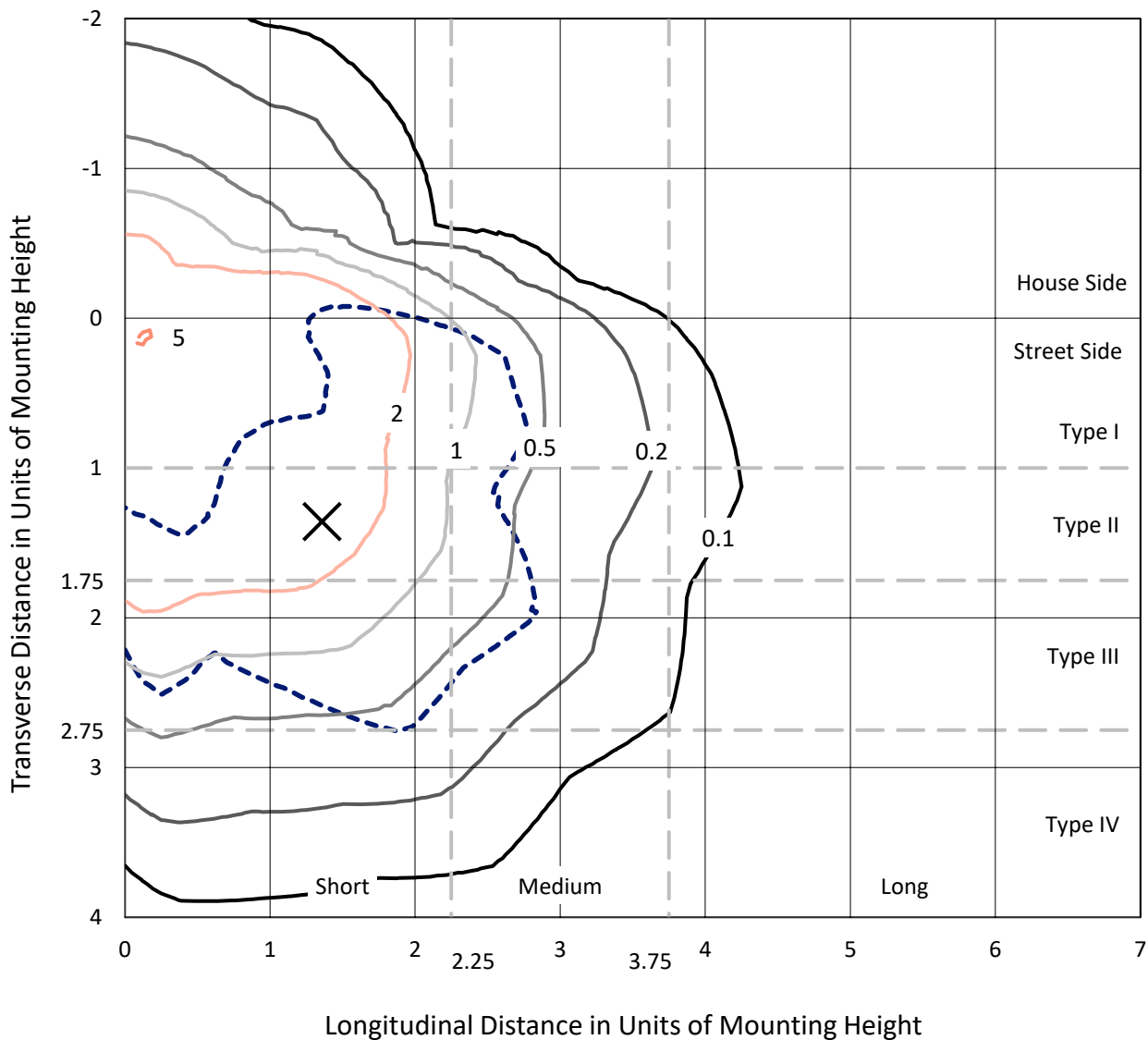
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

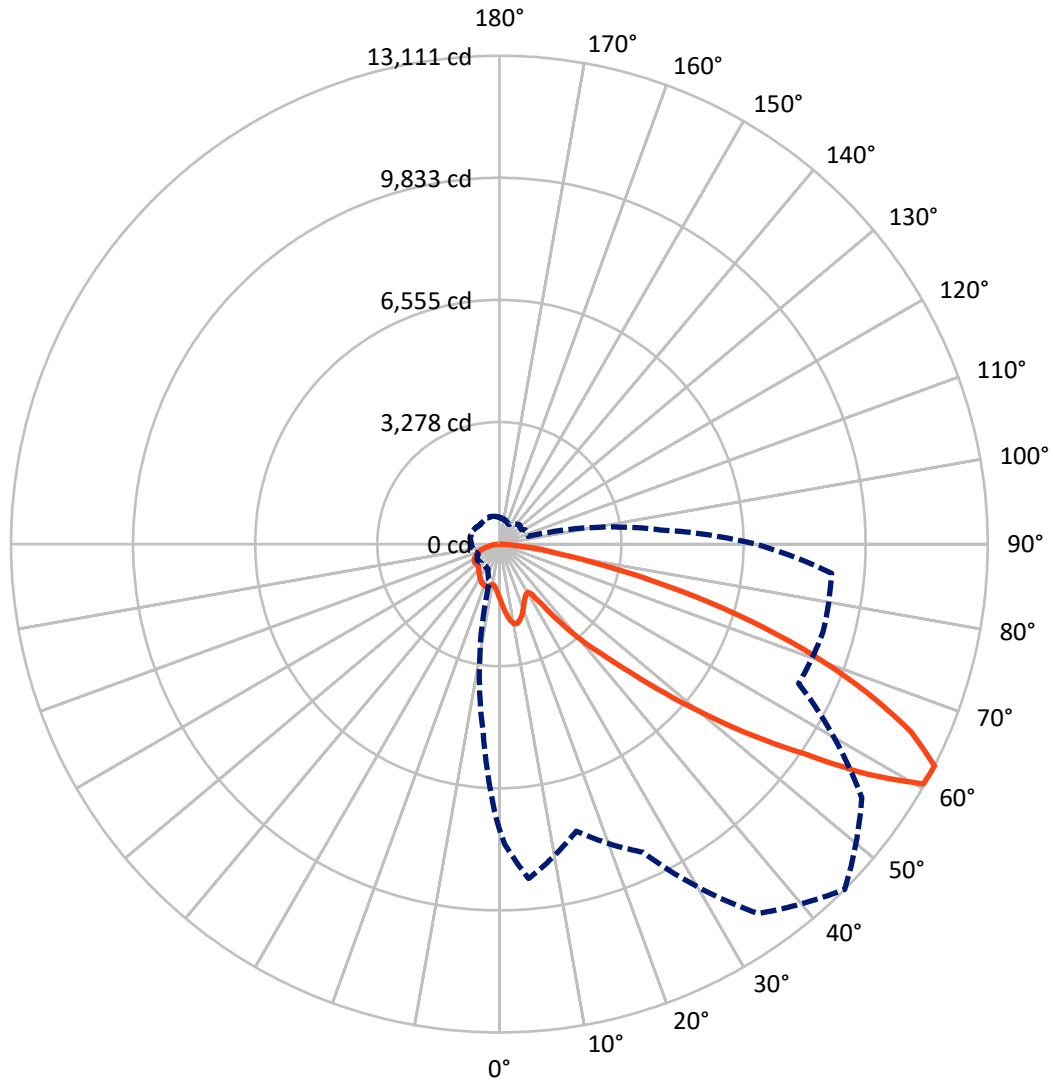
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	2618.8	0.0	2618.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8356.0	0.0	8356.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	10974.8	0.0	10974.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.3
10°-20°	445.9	4.1
20°-30°	692.7	6.3
30°-40°	940.4	8.6
40°-50°	1490.5	13.6
50°-60°	2629.2	24.0
60°-70°	2925.4	26.7
70°-80°	1483.7	13.5
80°-90°	224.7	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°	10974.8	100.0
0°-180°	10974.8	100.0

Coefficient of Utilization



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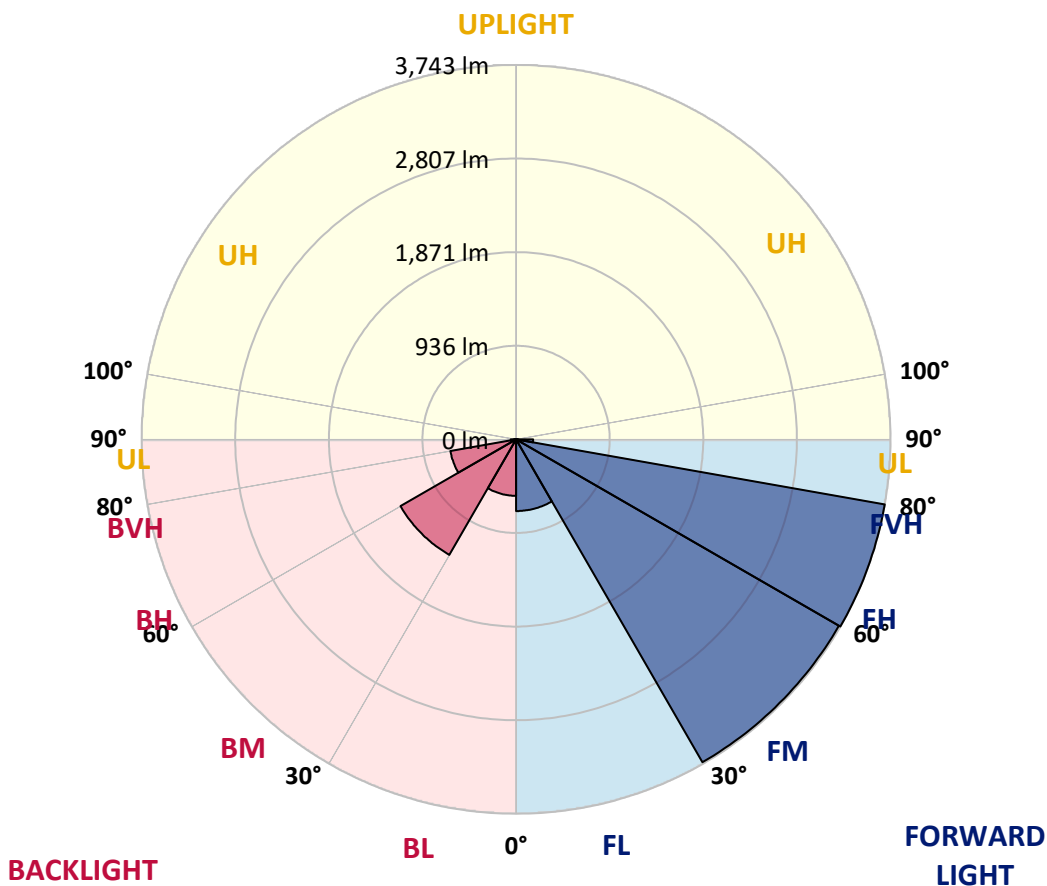
CATALOG NUMBER: GWS-SA2E-830-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.6	6.5			
FM (30°-60°)	3726.4	34.0			
FH (60°-80°)	3742.5	34.1			G2/5000
FVH (80°-90°)	170.5	1.6			G2/225
BL (0°-30°)	564.3	5.1	B2/1000		
BM (30°-60°)	1333.8	12.2	B2/2500		
BH (60°-80°)	666.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	54.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1565.4	1564.6	1580.4	1604.5	1626.9	1636.9	1653.5	1651.8	1638.5	1621.1	1615.3
5°	1688.4	1691.7	1719.1	1772.3	1831.3	1856.2	1867.0	1862.9	1838.8	1808.1	1754.0
7.5°	1799.7	1805.6	1847.9	1927.7	2000.8	2034.1	2060.6	2055.7	2020.8	1963.4	1883.7
10°	1881.2	1887.8	1938.5	2032.4	2113.8	2142.9	2177.0	2178.6	2147.9	2070.6	1989.2
12.5°	1962.6	1969.2	2016.6	2102.2	2155.4	2156.2	2176.1	2186.9	2188.6	2152.9	2071.5
15°	2047.4	2053.2	2096.4	2144.6	2142.1	2095.5	2095.5	2116.3	2162.0	2187.8	2131.3
17.5°	2119.6	2127.1	2160.4	2144.6	2070.6	1986.7	1976.7	2003.3	2083.1	2182.0	2176.1
20°	2179.5	2185.3	2203.6	2098.9	1964.3	1854.6	1835.5	1866.2	1974.2	2146.2	2210.2
22.5°	2236.8	2240.1	2230.2	2039.0	1849.6	1724.1	1700.9	1733.3	1849.6	2083.1	2239.3
25°	2304.9	2301.6	2254.3	1976.7	1744.9	1621.1	1597.0	1633.6	1754.9	1999.2	2270.9
27.5°	2383.9	2371.4	2275.0	1909.4	1664.3	1544.7	1528.0	1567.1	1680.1	1921.9	2295.8
30°	2451.2	2427.1	2278.3	1849.6	1622.8	1512.3	1502.3	1538.8	1643.5	1869.5	2327.4
32.5°	2526.0	2492.7	2297.5	1833.8	1646.0	1590.4	1603.7	1606.1	1653.5	1854.6	2374.7
35°	2633.1	2589.9	2349.8	1879.5	1885.3	1979.2	2027.4	1962.6	1803.9	1887.8	2464.5
37.5°	2795.2	2740.3	2456.2	2077.3	2379.7	2589.9	2706.3	2558.4	2260.9	2013.3	2599.9
40°	2992.1	2922.3	2592.4	2442.9	2841.7	3178.2	3385.1	3168.2	2731.2	2326.5	2790.2
42.5°	3267.1	3194.0	2856.7	2801.8	3269.6	3770.7	4040.7	3717.5	3145.8	2731.2	3095.1
45°	3746.6	3675.9	3341.1	3161.6	3770.7	4500.2	4879.1	4429.6	3567.1	3137.5	3665.1
47.5°	4632.3	4549.2	4060.6	3560.4	4342.3	5447.4	5977.5	5322.8	4005.0	3602.8	4622.3
50°	5695.9	5616.1	4963.8	4032.4	4973.8	6460.3	7197.3	6372.2	4509.3	4168.7	5766.5
52.5°	6975.5	6960.5	6252.6	4629.0	5631.1	7540.5	8550.9	7534.7	5061.9	4930.6	7062.7
55°	8128.8	8275.0	7889.5	5538.8	6480.2	8897.4	9942.6	8802.6	5811.4	6190.3	8580.8
57.5°	8750.3	9143.3	9735.7	7395.1	7715.0	10519.3	11660.1	10350.6	7099.3	8287.5	9988.3
60°	8339.8	8785.2	9858.7	8792.7	8939.7	11818.8	13077.6	11651.8	8363.9	9743.2	9908.6
62.5°	7656.8	8056.5	9011.2	7976.7	9129.2	12104.7	13110.9	11878.6	8866.6	9004.5	8950.5
65°	6846.7	7249.7	8260.9	6963.0	8526.8	11425.8	12143.7	11211.4	7963.4	8135.4	8155.4
67.5°	5770.6	6142.9	7172.4	6191.1	7772.3	10429.5	10658.9	10260.9	7333.6	7607.8	7321.1
70°	4311.6	4647.3	5556.3	5031.1	6551.7	9131.7	8946.4	9005.4	6626.5	6899.0	6115.5
72.5°	2946.4	3199.0	3978.4	3953.5	5017.0	7310.3	7051.9	7611.1	5534.7	5896.1	4662.2
75°	2060.6	2257.6	2875.8	3123.4	3792.3	5418.3	5022.0	5696.7	4322.4	4838.4	3401.7
77.5°	1264.6	1395.1	1816.4	2314.1	2439.5	3708.3	3119.2	4286.6	3035.3	3528.9	2269.2
80°	632.3	695.5	882.4	1454.9	1617.8	2185.3	1722.5	2488.6	2054.0	2185.3	1255.5
82.5°	191.1	211.1	258.4	552.6	838.4	1258.0	1017.9	1445.8	1121.7	1024.5	494.4
85°	50.7	57.3	71.5	163.7	294.1	451.2	344.0	700.5	537.6	378.1	186.1
87.5°	4.2	4.2	3.3	3.3	1.7	0.0	0.0	49.9	100.5	57.3	32.4
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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1586.2	1582.9	1548.8	1523.9	1494.8	1466.6	1437.5	1411.7	1382.6	1353.5	1345.2
5°	1714.2	1690.9	1618.6	1558.0	1498.1	1445.8	1400.1	1352.7	1314.5	1277.1	1263.0
7.5°	1827.2	1786.5	1681.8	1589.5	1506.4	1441.6	1374.3	1305.4	1251.3	1198.2	1184.9
10°	1929.4	1875.4	1743.2	1626.9	1534.7	1460.7	1381.8	1289.6	1211.5	1146.7	1129.2
12.5°	2005.0	1946.0	1796.4	1662.6	1558.0	1474.9	1396.8	1315.3	1233.1	1149.1	1130.0
15°	2064.8	2003.3	1840.5	1690.1	1558.8	1451.6	1376.0	1347.7	1322.0	1239.7	1204.8
17.5°	2113.0	2048.2	1878.7	1706.7	1536.3	1381.0	1315.3	1356.9	1422.5	1371.0	1305.4
20°	2157.0	2091.4	1907.8	1718.3	1486.5	1283.8	1247.2	1335.3	1434.1	1432.5	1373.5
22.5°	2205.2	2141.2	1950.1	1725.0	1416.7	1184.9	1206.5	1303.7	1384.3	1408.4	1371.8
25°	2266.7	2210.2	2009.1	1739.9	1337.8	1116.7	1176.6	1263.0	1330.3	1336.1	1314.5
27.5°	2338.2	2295.8	2097.2	1774.8	1261.3	1081.8	1141.7	1205.6	1267.1	1269.6	1243.9
30°	2416.3	2388.0	2178.6	1803.9	1204.0	1071.0	1096.8	1148.3	1187.4	1194.0	1171.6
32.5°	2516.0	2491.1	2250.9	1784.8	1169.9	1068.5	1055.3	1081.8	1114.2	1114.2	1096.8
35°	2653.1	2618.2	2327.4	1711.7	1128.4	1058.6	1011.2	1018.7	1032.8	1035.3	1025.3
37.5°	2847.5	2790.2	2404.6	1567.1	1060.2	1022.8	960.5	951.4	956.4	963.0	960.5
40°	3088.5	2994.6	2517.6	1393.4	978.8	953.9	908.2	890.7	886.6	899.9	904.9
42.5°	3391.8	3248.0	2639.0	1231.4	904.9	874.9	846.7	831.7	825.1	847.5	860.8
45°	3876.2	3639.4	2755.3	1071.0	863.3	807.6	788.5	777.7	781.1	807.6	824.3
47.5°	4712.9	4236.8	2865.8	969.7	860.0	759.4	736.2	738.7	747.8	776.1	796.0
50°	5771.5	5037.0	2939.7	927.3	870.0	730.4	699.6	712.9	727.0	754.5	777.7
52.5°	6849.2	5782.3	2851.7	904.0	869.1	731.2	665.6	705.4	712.1	739.5	764.4
55°	7590.3	5865.4	2463.6	868.3	855.8	764.4	639.0	702.1	706.3	731.2	753.6
57.5°	7872.8	5581.2	1878.7	878.3	816.0	790.2	627.3	678.9	708.8	730.4	753.6
60°	7531.3	5045.3	1141.7	904.0	752.0	788.5	634.8	636.5	688.0	724.6	747.8
62.5°	6887.4	4357.3	801.8	830.9	705.4	744.5	652.3	586.6	651.4	695.5	716.2
65°	6149.5	3548.0	611.5	715.4	683.0	676.4	658.1	542.6	601.6	644.8	663.1
67.5°	5381.0	2757.8	496.9	533.4	617.4	611.5	601.6	503.5	542.6	573.3	594.1
70°	4412.9	1929.4	419.6	400.5	529.3	548.4	526.0	454.5	467.0	498.5	515.2
72.5°	3228.1	1202.3	344.8	330.7	425.4	479.4	467.8	400.5	406.3	436.2	449.5
75°	2321.6	688.0	276.7	272.5	324.9	410.5	387.2	344.8	351.5	373.9	383.0
77.5°	1475.7	383.0	213.5	219.4	232.7	306.6	330.7	295.0	295.0	308.3	315.7
80°	790.2	219.4	156.2	158.7	162.9	234.3	260.9	228.5	228.5	219.4	228.5
82.5°	322.4	126.3	107.2	99.7	108.8	160.4	182.8	145.4	152.1	137.1	140.4
85°	106.4	63.1	53.2	52.3	51.5	70.6	88.1	72.3	86.4	54.8	57.3
87.5°	14.1	11.6	6.6	5.0	5.8	2.5	5.0	5.8	5.8	4.2	4.2
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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1339.4	1332.8	1308.7	1314.5	1310.3	1303.7	1310.3	1297.9	1307.8	1311.2	1331.9
5°	1252.2	1236.4	1213.1	1201.5	1199.0	1192.4	1193.2	1187.4	1189.0	1203.2	1226.4
7.5°	1174.1	1159.1	1140.8	1132.5	1125.0	1117.6	1116.7	1115.9	1122.6	1135.0	1157.5
10°	1117.6	1109.3	1101.8	1105.1	1101.8	1098.5	1092.6	1092.6	1103.4	1125.9	1153.3
12.5°	1117.6	1115.9	1117.6	1127.5	1126.7	1127.5	1120.1	1124.2	1154.1	1192.4	1231.4
15°	1177.4	1164.1	1164.1	1169.1	1167.4	1167.4	1167.4	1184.9	1253.0	1312.0	1353.5
17.5°	1250.5	1211.5	1194.8	1192.4	1191.5	1191.5	1194.8	1232.2	1338.6	1400.9	1425.0
20°	1301.2	1227.2	1199.8	1189.0	1189.9	1191.5	1201.5	1253.0	1370.2	1401.7	1395.9
22.5°	1310.3	1214.8	1181.5	1165.8	1168.3	1169.9	1184.9	1239.7	1327.0	1331.9	1320.3
25°	1268.0	1179.9	1144.2	1131.7	1135.0	1134.2	1147.5	1187.4	1249.7	1248.0	1241.4
27.5°	1204.8	1124.2	1097.6	1089.3	1095.1	1088.5	1092.6	1123.4	1171.6	1169.9	1167.4
30°	1140.0	1070.2	1046.1	1042.0	1049.4	1039.5	1040.3	1066.1	1099.3	1097.6	1096.8
32.5°	1075.2	1016.2	994.6	994.6	1002.1	991.3	992.9	1015.4	1037.8	1031.2	1031.2
35°	1013.7	972.2	954.7	951.4	957.2	949.7	953.1	973.8	982.1	973.0	967.2
37.5°	959.7	941.4	924.0	912.3	913.2	914.0	924.0	939.8	934.8	921.5	914.0
40°	909.8	909.8	893.2	871.6	869.1	874.9	891.6	909.0	894.9	879.9	870.8
42.5°	874.1	881.6	865.8	844.2	839.2	849.2	867.5	879.9	863.3	846.7	834.2
45°	840.9	859.2	848.4	824.3	817.6	829.2	852.5	857.5	835.1	819.3	810.1
47.5°	817.6	842.5	835.1	811.8	801.8	818.4	842.5	841.7	813.5	796.8	789.4
50°	801.0	832.6	831.7	811.8	801.0	821.8	843.4	832.6	801.8	784.4	776.9
52.5°	787.7	831.7	837.6	825.9	818.4	836.7	850.0	829.2	793.5	775.2	769.4
55°	781.9	835.1	839.2	828.4	821.8	838.4	850.0	835.9	793.5	776.9	771.9
57.5°	783.5	830.9	831.7	816.8	805.1	825.9	844.2	840.0	802.7	783.5	777.7
60°	773.6	808.5	810.1	786.9	773.6	798.5	830.9	828.4	798.5	778.6	767.8
62.5°	740.3	771.1	771.9	750.3	731.2	766.9	802.7	801.8	774.4	754.5	742.0
65°	684.7	717.1	725.4	704.6	689.7	727.9	765.3	763.6	736.2	717.9	705.4
67.5°	615.7	650.6	666.4	652.3	646.4	681.3	716.2	715.4	693.0	675.5	664.7
70°	531.8	560.9	587.5	587.5	583.3	623.2	660.6	657.2	636.5	623.2	614.9
72.5°	462.0	484.4	492.7	501.0	513.5	555.0	586.6	589.1	574.2	567.5	574.2
75°	393.0	407.1	414.6	408.0	429.6	472.8	514.3	518.5	502.7	491.9	494.4
77.5°	323.2	339.0	346.5	331.5	329.9	384.7	435.4	444.5	431.2	414.6	419.6
80°	233.5	254.3	266.7	256.8	253.4	277.5	347.3	357.3	344.8	331.5	339.0
82.5°	142.9	154.5	157.9	167.8	188.6	198.6	223.5	256.8	247.6	236.0	256.8
85°	56.5	67.3	74.8	84.8	98.9	117.2	137.9	164.5	149.6	144.6	170.3
87.5°	3.3	0.8	0.0	1.7	14.1	27.4	59.0	81.4	68.1	73.1	88.1
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: P633536
 CATALOG NUMBER: GWS-SA2E-830-U-SLR-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1348.6	1370.2	1399.2	1423.3	1454.1	1483.2	1513.1	1543.0	1558.8	1565.4
5°	1253.0	1292.9	1339.4	1390.9	1450.8	1513.9	1577.9	1643.5	1685.1	1688.4
7.5°	1195.7	1253.0	1317.0	1381.8	1455.7	1543.0	1644.4	1745.7	1788.1	1799.7
10°	1214.0	1277.9	1328.6	1389.3	1470.7	1579.6	1699.2	1818.0	1867.0	1881.2
12.5°	1287.1	1299.5	1315.3	1371.0	1470.7	1611.1	1755.7	1897.0	1949.3	1962.6
15°	1347.7	1287.9	1259.7	1318.6	1450.8	1638.5	1815.5	1971.7	2034.9	2047.4
17.5°	1352.7	1249.7	1188.2	1241.4	1415.9	1657.7	1872.9	2054.8	2108.0	2119.6
20°	1302.0	1209.0	1129.2	1161.6	1368.5	1666.0	1914.4	2115.5	2167.8	2179.5
22.5°	1244.7	1175.7	1089.3	1087.7	1311.2	1675.1	1964.3	2172.8	2229.3	2236.8
25°	1190.7	1130.0	1056.9	1033.6	1244.7	1692.6	2031.6	2259.2	2302.4	2304.9
27.5°	1127.5	1081.0	1031.2	1008.7	1186.5	1725.8	2131.3	2362.3	2388.0	2383.9
30°	1070.2	1035.3	1012.9	1006.2	1150.0	1750.7	2226.0	2463.6	2465.3	2451.2
32.5°	1009.6	996.3	996.3	1017.9	1120.1	1744.9	2303.3	2562.5	2546.7	2526.0
35°	955.5	958.0	975.5	1026.2	1070.2	1686.7	2377.2	2686.3	2663.1	2633.1
37.5°	904.0	923.1	948.1	997.1	1004.6	1600.3	2463.6	2861.6	2832.6	2795.2
40°	860.0	889.1	918.2	942.2	934.8	1477.4	2584.1	3067.7	3035.3	2992.1
42.5°	825.1	853.3	885.7	888.2	890.7	1349.4	2712.1	3320.3	3314.5	3267.1
45°	802.7	820.9	851.7	847.5	888.2	1208.1	2830.1	3705.8	3782.3	3746.6
47.5°	787.7	801.8	805.1	822.6	909.8	1081.8	2982.1	4460.3	4673.0	4632.3
50°	779.4	793.5	756.1	824.3	913.2	1000.4	3192.3	5407.5	5749.9	5695.9
52.5°	778.6	775.2	718.7	841.7	894.9	950.6	3302.0	6098.9	6858.3	6975.5
55°	780.2	738.7	699.6	846.7	858.3	932.3	2934.8	6431.2	7881.2	8128.8
57.5°	765.3	698.8	710.4	826.8	789.4	981.3	2169.5	6312.4	8290.0	8750.3
60°	737.0	660.6	730.4	772.7	718.7	897.4	1494.0	5782.3	7866.2	8339.8
62.5°	696.3	634.0	727.9	702.9	693.0	734.5	1027.0	5040.3	7194.0	7656.8
65°	650.6	612.4	688.8	635.6	641.5	565.0	726.2	4202.7	6391.3	6846.7
67.5°	601.6	599.1	631.5	565.8	541.8	447.9	529.3	3368.5	5360.2	5770.6
70°	545.9	564.2	574.2	502.7	439.5	351.5	393.0	2355.6	3954.3	4311.6
72.5°	490.2	491.9	506.0	437.1	329.0	281.7	295.0	1426.7	2686.3	2946.4
75°	433.7	417.9	431.2	355.6	245.1	231.0	227.7	881.6	1855.4	2060.6
77.5°	373.1	355.6	338.2	267.6	196.9	178.6	174.5	494.4	1138.3	1264.6
80°	303.3	280.0	252.6	196.1	143.7	128.0	127.1	241.0	567.5	632.3
82.5°	236.0	191.9	184.5	122.1	88.9	78.1	83.1	92.2	171.2	191.1
85°	165.4	139.6	98.0	49.0	39.9	32.4	31.6	27.4	45.7	50.7
87.5°	92.2	60.7	31.6	5.8	6.6	7.5	5.8	4.2	4.2	4.2
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

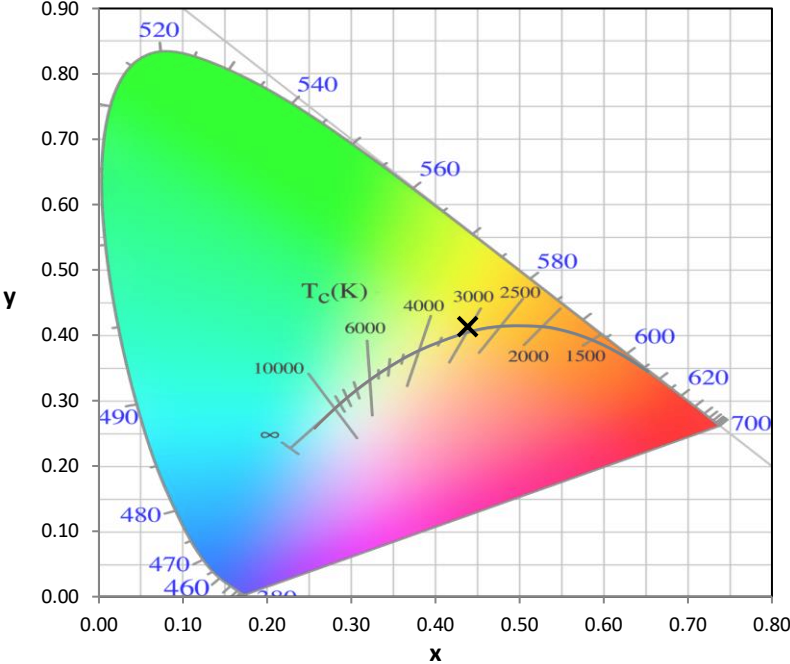
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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



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			

REPORT NUMBER: SP1-2408-195-9

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

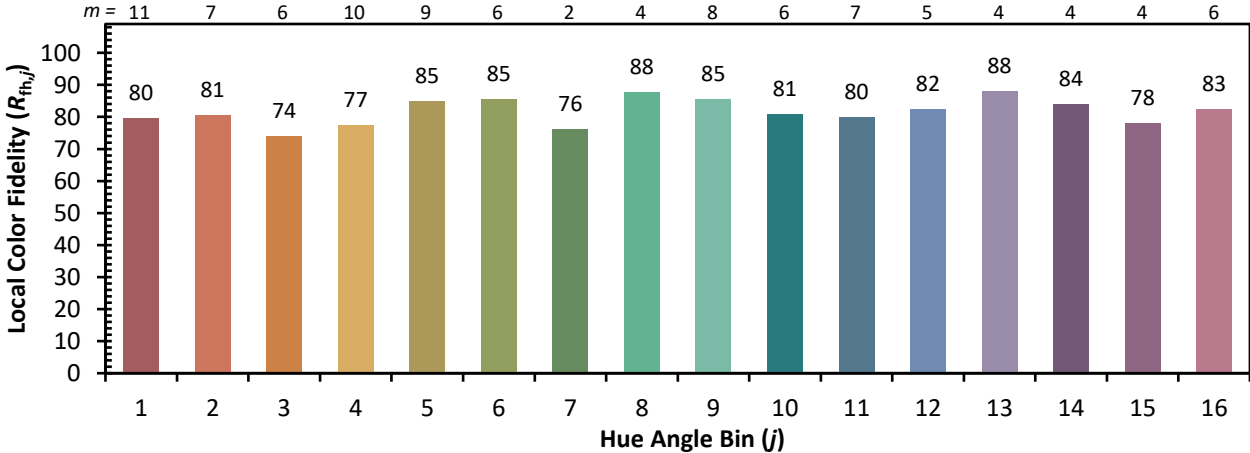


Individual Sample Fidelity Index ($R_{f,i}$)

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)