

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: P635018

Luminaire Tested: GWS-SA3C-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.8 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

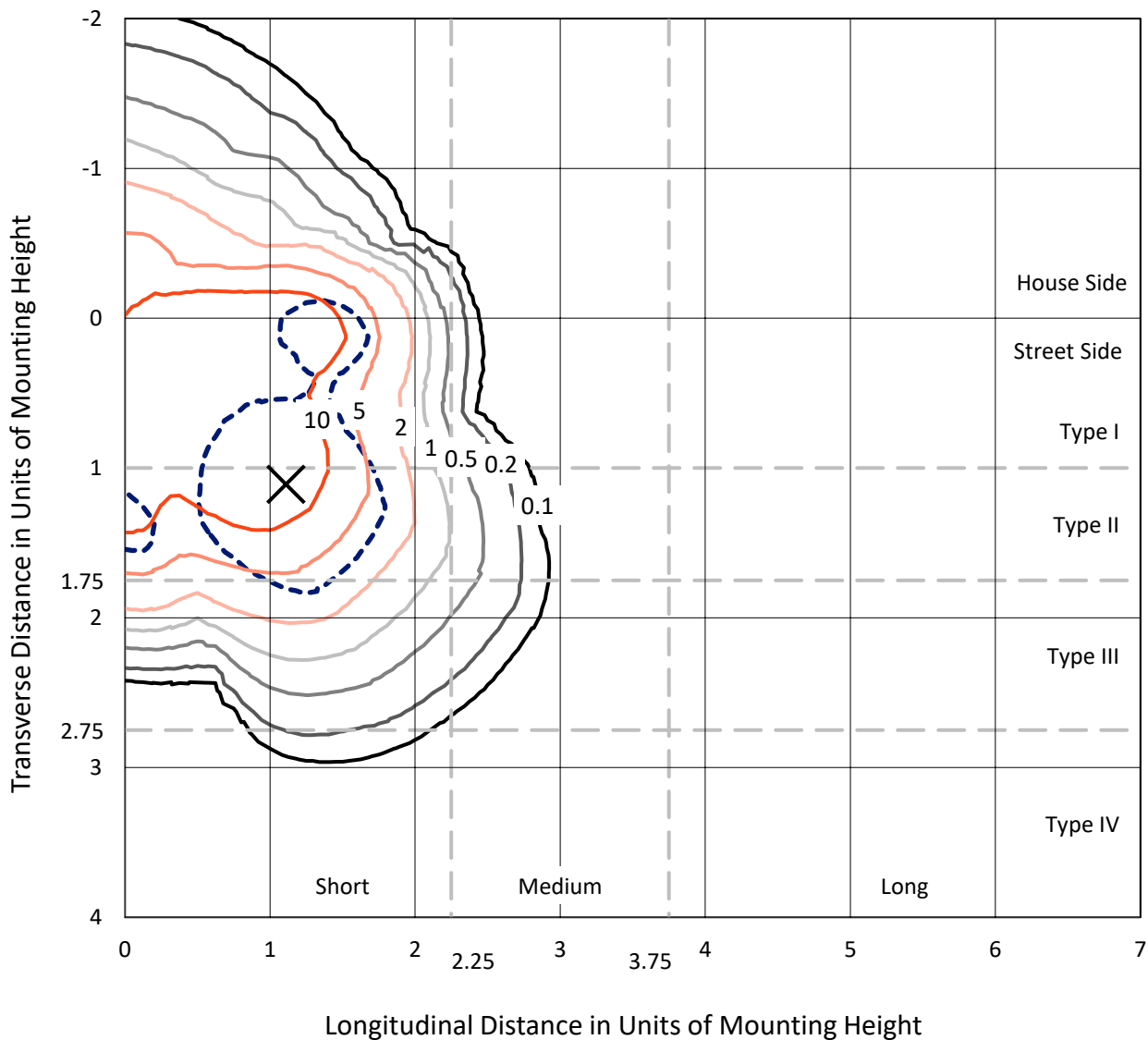
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

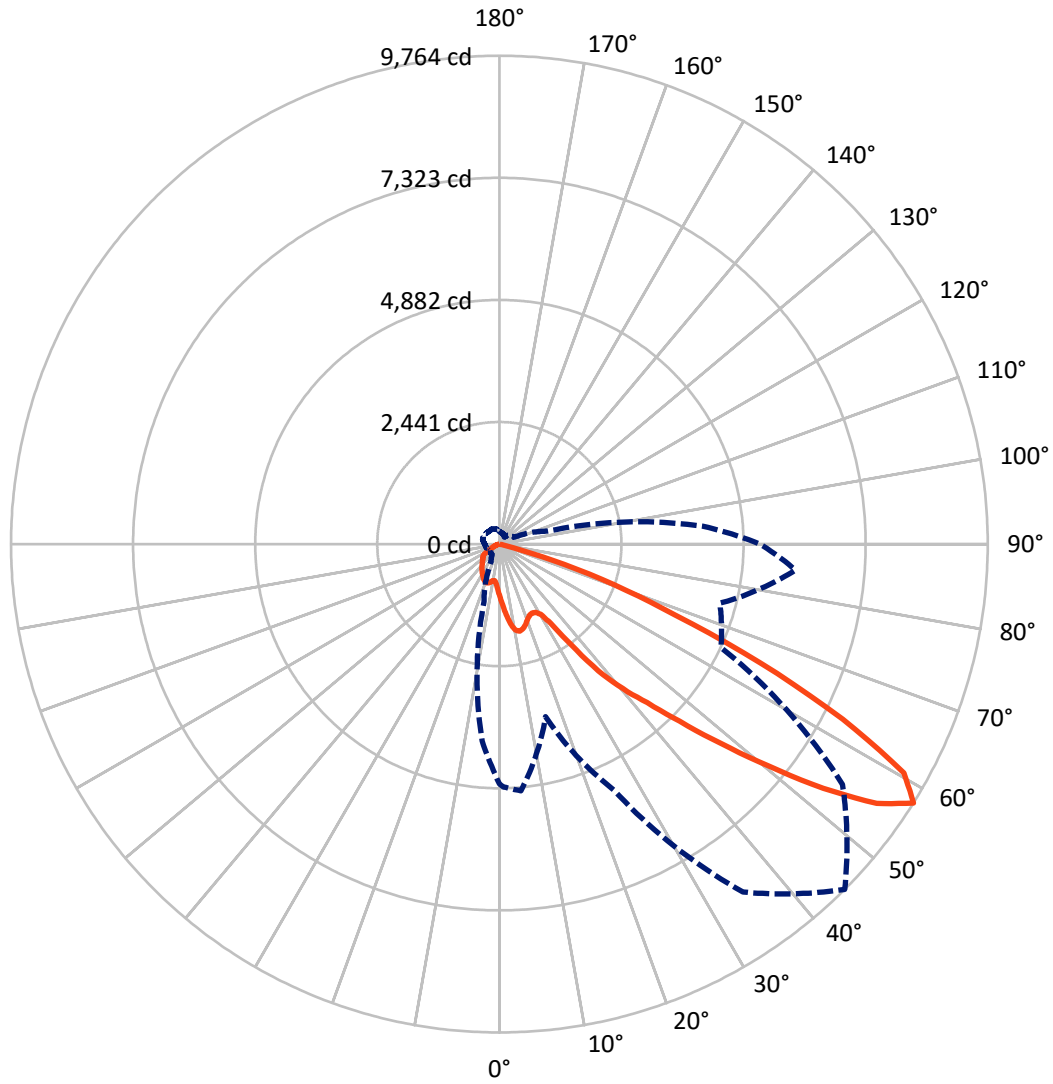
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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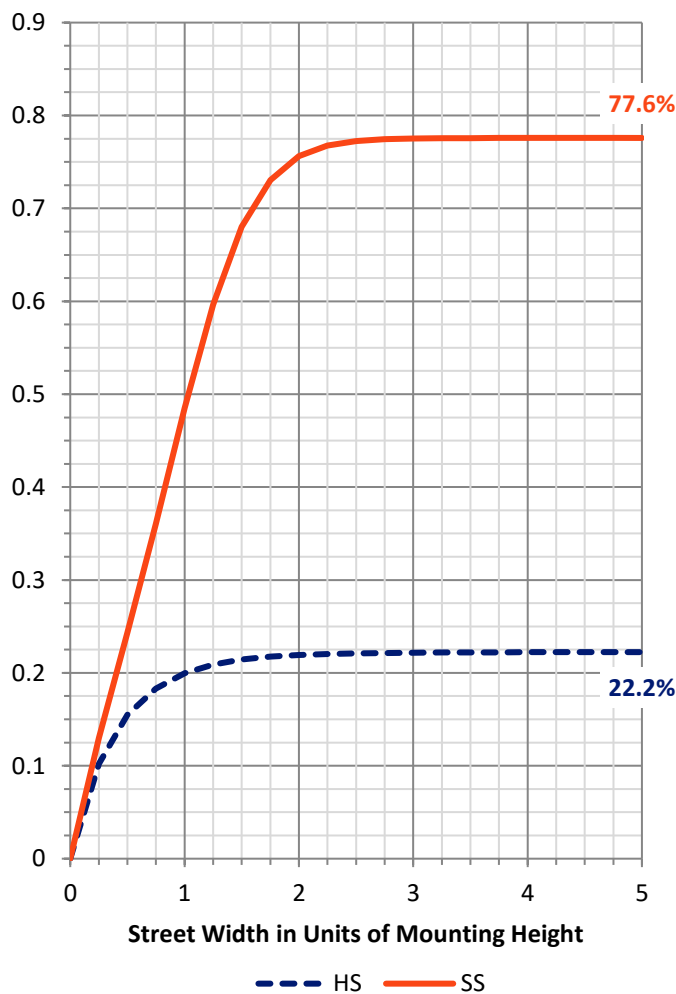
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.8	0.0	1323.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4588.0	0.0	4588.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	5911.8	0.0	5911.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.7
10°-20°	330.7	5.6
20°-30°	537.2	9.1
30°-40°	830.0	14.0
40°-50°	1330.9	22.5
50°-60°	1819.0	30.8
60°-70°	881.0	14.9
70°-80°	80.7	1.4
80°-90°	0.2	0.0
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°	5911.8	100.0
0°-180°	5911.8	100.0

Coefficient of Utilization



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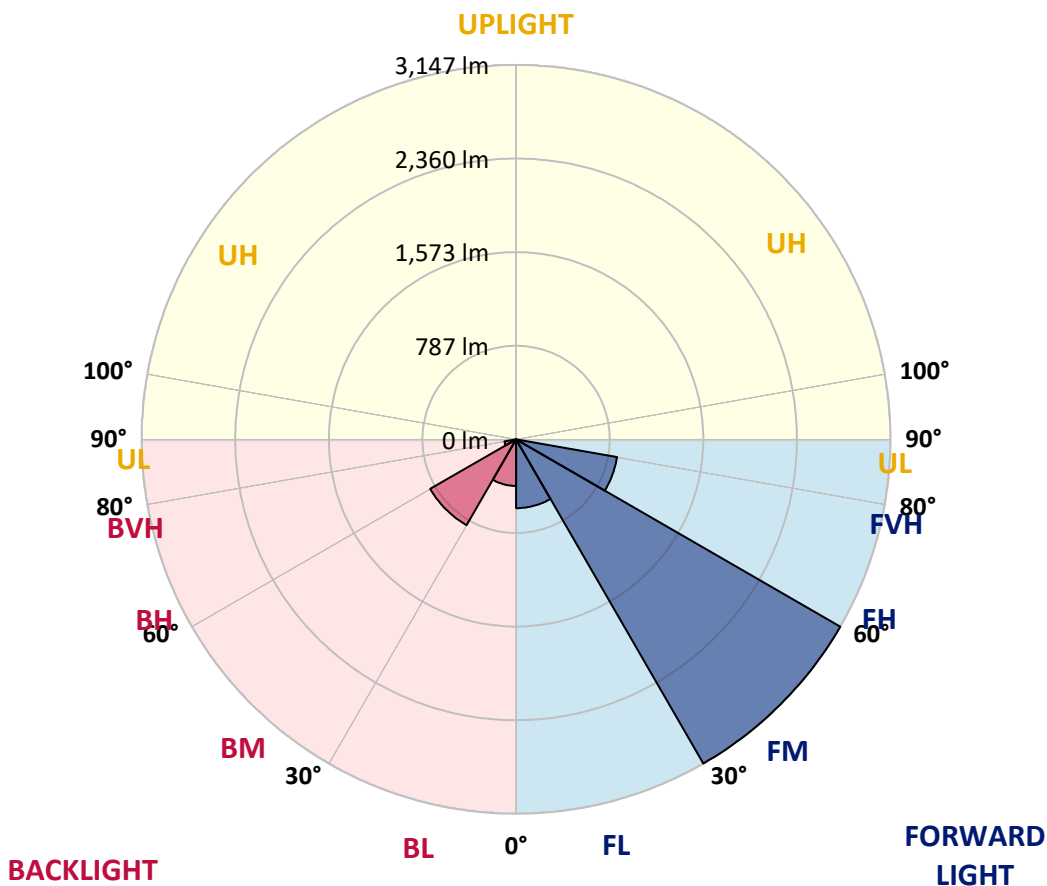
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.4	9.8			
FM (30°-60°)	3147.0	53.2			
FH (60°-80°)	862.4	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	391.7	6.6	B1/500		
BM (30°-60°)	832.9	14.1	B1/1000		
BH (60°-80°)	99.2	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	1125.7	1132.8	1144.7	1170.1	1191.6	1205.9	1212.2	1210.7	1201.9	1195.6	1182.8
5°	1246.4	1246.4	1269.4	1327.4	1371.9	1399.7	1414.0	1405.3	1387.8	1360.0	1317.1
7.5°	1352.1	1356.0	1394.9	1477.6	1545.1	1584.8	1607.8	1603.1	1572.1	1518.9	1433.1
10°	1434.7	1439.4	1491.1	1592.0	1671.4	1711.9	1746.1	1749.2	1715.1	1644.4	1545.9
12.5°	1514.9	1519.7	1573.7	1670.6	1740.5	1757.2	1787.4	1799.3	1790.6	1740.5	1638.0
15°	1601.5	1612.6	1658.7	1731.0	1760.4	1740.5	1760.4	1781.8	1811.2	1806.4	1714.3
17.5°	1686.5	1694.4	1741.3	1766.7	1734.2	1682.5	1692.1	1717.5	1784.2	1849.3	1789.8
20°	1765.1	1776.3	1815.2	1781.8	1683.3	1603.1	1603.9	1637.2	1738.9	1875.6	1866.8
22.5°	1847.8	1864.4	1892.2	1798.5	1636.4	1540.3	1544.3	1574.5	1703.2	1900.2	1954.2
25°	1955.8	1971.7	1989.9	1839.8	1621.4	1509.3	1524.4	1552.2	1703.2	1942.3	2062.2
27.5°	2102.0	2113.1	2113.9	1916.9	1647.6	1514.1	1545.9	1577.7	1754.0	2026.5	2206.8
30°	2285.5	2302.9	2279.9	2036.8	1729.4	1577.7	1624.5	1664.2	1863.6	2168.7	2419.7
32.5°	2508.7	2533.3	2502.3	2214.8	1900.2	1796.9	1881.9	1904.9	2038.4	2374.4	2661.2
35°	2770.8	2791.5	2758.1	2461.0	2299.0	2318.0	2472.1	2442.7	2389.5	2627.8	2943.2
37.5°	3058.4	3077.5	3013.1	2834.4	2888.4	2971.0	3217.3	3116.4	2944.8	2954.3	3249.1
40°	3322.1	3342.8	3241.9	3240.3	3351.5	3502.5	3799.6	3660.5	3427.0	3381.7	3535.8
42.5°	3595.4	3609.7	3518.4	3456.4	3709.0	4019.6	4334.2	4146.7	3746.3	3697.1	3894.9
45°	3985.5	4015.6	3852.8	3562.8	4030.7	4614.6	5053.1	4686.9	3964.0	3924.3	4444.6
47.5°	4559.0	4581.2	4249.2	3629.6	4330.2	5355.8	5951.6	5387.6	4155.5	4064.9	5196.1
50°	5033.3	5048.3	4613.8	3702.7	4648.8	6154.9	6975.5	6218.5	4370.7	4297.7	5897.6
52.5°	5382.8	5440.0	5092.8	3852.8	5067.4	7094.7	8109.1	7202.7	4706.8	4747.3	6479.0
55°	5455.1	5532.9	5420.1	3944.9	5436.0	8051.9	9156.1	8083.7	5042.0	5088.1	6674.5
57.5°	4794.1	4856.1	4949.8	3573.2	5427.3	8490.4	9763.8	8376.0	4889.5	4563.0	5942.8
60°	3591.4	3634.3	3804.3	2731.1	4991.2	8102.8	9290.4	7878.8	4275.4	3481.8	4528.0
62.5°	2129.8	2148.8	2364.1	1769.1	4142.7	6977.9	7704.8	6798.4	3378.5	2341.9	2773.2
65°	817.4	809.5	973.9	873.0	3046.5	5558.3	5730.7	5182.6	2318.0	1073.2	1057.3
67.5°	126.3	120.7	162.8	258.2	2197.3	3852.0	3781.3	3735.2	1452.1	250.2	218.5
70°	28.6	28.6	35.0	76.3	1342.5	2263.2	2422.1	2309.3	929.4	53.2	28.6
72.5°	13.5	13.5	16.7	32.6	486.2	932.6	1086.7	1070.0	301.9	17.5	10.3
75°	4.8	5.6	5.6	7.1	29.4	48.5	111.2	79.4	19.1	0.0	0.0
77.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	1155.0	1149.5	1128.8	1101.0	1074.0	1050.2	1025.6	996.2	974.7	950.1	942.1
5°	1283.7	1248.8	1192.4	1133.6	1079.6	1033.5	989.0	941.4	906.4	871.4	859.5
7.5°	1392.6	1340.9	1249.6	1161.4	1087.5	1022.4	958.0	892.9	842.1	800.7	788.0
10°	1490.3	1430.7	1308.4	1199.5	1106.6	1031.1	953.3	871.4	805.5	756.3	744.3
12.5°	1574.5	1505.4	1358.4	1228.1	1114.5	1027.9	952.5	887.3	827.8	771.4	756.3
15°	1645.2	1568.9	1400.5	1247.2	1102.6	988.2	922.3	912.0	907.2	845.2	815.8
17.5°	1714.3	1628.5	1434.7	1255.9	1069.2	918.3	870.7	917.5	967.6	927.1	889.7
20°	1786.6	1688.9	1469.6	1257.5	1013.6	839.7	831.7	905.6	969.2	956.4	921.5
22.5°	1871.6	1764.3	1513.3	1256.7	943.7	772.9	803.1	882.6	934.2	933.4	905.6
25°	1994.7	1859.7	1572.1	1261.5	867.5	721.3	771.4	843.6	885.7	884.2	861.1
27.5°	2126.6	1973.3	1648.4	1273.4	802.3	691.1	734.0	790.4	827.0	825.4	805.5
30°	2311.7	2104.3	1721.4	1274.2	755.5	675.2	692.7	731.6	766.6	762.6	747.5
32.5°	2536.5	2252.1	1782.6	1228.9	726.1	660.1	649.8	669.7	696.7	691.1	687.1
35°	2808.2	2427.7	1835.0	1129.6	680.8	630.0	602.1	606.1	625.2	628.4	626.8
37.5°	3118.0	2636.6	1900.2	998.5	619.6	586.3	548.9	545.7	556.9	567.2	575.1
40°	3423.8	2871.7	1988.4	865.9	564.0	530.7	494.9	487.0	491.7	510.0	526.7
42.5°	3767.8	3144.2	2083.7	752.3	525.9	469.5	435.3	420.2	433.7	463.1	483.0
45°	4263.5	3526.3	2176.6	661.7	510.0	415.5	369.4	367.8	382.9	421.0	443.3
47.5°	4959.4	4020.4	2237.8	591.0	509.2	373.4	318.6	328.1	345.6	382.9	408.3
50°	5637.8	4639.2	2170.3	537.0	492.5	345.6	280.4	299.5	317.0	349.5	375.7
52.5°	6046.9	4972.1	1907.3	486.2	440.9	332.8	243.1	276.4	279.6	309.0	336.8
55°	6004.0	4756.8	1460.9	407.5	364.6	314.6	204.2	249.4	251.0	273.3	297.1
57.5°	5211.2	4084.0	1003.3	330.5	274.1	259.8	168.4	210.5	225.6	239.1	256.6
60°	3883.8	2979.8	447.2	268.5	174.0	175.6	143.8	158.9	181.9	197.8	212.9
62.5°	2288.6	1714.3	181.9	161.3	96.1	110.4	116.0	116.0	130.3	142.2	151.7
65°	865.1	599.8	73.9	81.0	50.0	51.6	68.3	84.2	95.3	105.7	118.4
67.5°	151.7	104.9	38.1	30.2	29.4	26.2	35.0	54.8	61.2	69.1	74.7
70°	25.4	21.4	15.9	15.1	13.5	14.3	23.0	38.9	42.9	45.3	47.7
72.5°	7.1	6.4	4.8	4.0	3.2	4.0	14.3	30.2	31.8	33.4	35.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	21.4	23.0	23.8	26.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.4	7.9	6.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	937.4	921.5	912.8	908.0	908.0	901.6	894.5	892.1	902.4	902.4	919.9
5°	844.4	831.7	817.4	808.7	795.2	797.6	789.6	788.8	799.2	803.9	822.2
7.5°	780.1	764.2	755.5	749.9	742.8	739.6	732.4	730.0	735.6	743.5	761.0
10°	737.2	734.8	734.0	738.0	738.0	734.0	727.7	723.7	725.3	740.4	760.2
12.5°	748.3	753.1	754.7	761.0	764.2	761.0	756.3	757.8	768.2	796.0	825.4
15°	796.8	792.8	791.2	794.4	796.8	793.6	792.0	803.9	839.7	879.4	912.8
17.5°	848.4	823.0	811.9	811.9	813.5	811.9	813.5	836.5	894.5	934.2	958.8
20°	874.6	827.8	810.3	806.3	809.5	810.3	815.8	842.1	905.6	933.4	939.0
22.5°	866.7	807.9	788.0	784.9	788.0	791.2	796.8	819.0	878.6	892.9	890.5
25°	827.0	769.0	753.1	753.1	760.2	759.4	761.8	777.7	827.0	835.7	831.7
27.5°	776.9	722.1	708.6	716.5	722.9	721.3	722.1	735.6	772.1	774.5	770.6
30°	726.1	678.4	665.7	675.2	684.0	682.4	683.2	696.7	719.7	717.3	711.8
32.5°	674.4	639.5	630.0	635.5	649.0	647.4	650.6	664.9	673.6	663.3	657.0
35°	626.8	608.5	601.4	604.5	614.9	617.2	622.8	632.3	632.3	619.6	608.5
37.5°	582.3	579.9	575.1	571.2	580.7	587.8	595.8	606.9	591.0	572.8	562.4
40°	541.0	551.3	545.0	534.6	540.2	550.5	566.4	575.1	556.1	537.8	520.3
42.5°	502.8	520.3	517.9	505.2	510.0	519.5	537.8	545.0	522.7	502.1	485.4
45°	466.3	490.9	492.5	476.6	481.4	490.9	512.4	514.8	486.2	463.9	452.0
47.5°	434.5	461.5	462.3	450.4	452.0	465.5	485.4	486.2	453.6	432.9	417.8
50°	404.3	435.3	437.7	427.4	429.0	444.9	461.5	458.4	423.4	402.0	388.5
52.5°	367.8	409.9	415.5	410.7	417.1	429.8	440.1	429.0	388.5	367.0	355.1
55°	328.1	382.9	394.8	391.6	398.8	409.1	411.5	404.3	353.5	332.1	320.9
57.5°	282.0	315.4	336.0	329.7	335.2	345.6	352.7	347.1	309.0	292.3	282.8
60°	233.6	255.8	260.6	250.2	245.5	263.7	280.4	273.3	240.7	230.4	219.3
62.5°	170.8	196.2	199.4	185.9	180.3	200.2	214.5	207.3	171.6	160.5	151.7
65°	136.6	160.5	166.8	154.1	150.9	166.0	174.8	157.3	131.9	120.0	110.4
67.5°	89.8	108.8	125.5	124.7	118.4	123.1	116.8	102.5	84.2	77.9	71.5
70°	55.6	66.7	77.1	81.0	80.2	78.6	69.9	59.6	54.0	51.6	48.5
72.5°	42.9	54.0	62.0	64.3	65.1	62.8	55.6	46.1	40.5	37.3	35.0
75°	31.8	40.5	46.9	50.0	51.6	50.0	42.9	36.5	31.0	28.6	26.2
77.5°	11.1	13.5	16.7	18.3	17.5	16.7	15.1	15.1	11.9	11.1	9.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GWS-SA3C-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	939.8	954.1	980.3	1004.1	1029.5	1055.7	1084.3	1113.7	1127.2	1125.7
5°	850.0	881.0	923.9	970.7	1023.2	1079.6	1142.3	1206.7	1234.5	1246.4
7.5°	793.6	837.3	893.7	953.3	1022.4	1102.6	1197.1	1298.0	1338.5	1352.1
10°	800.7	851.6	898.5	956.4	1030.3	1134.4	1252.0	1371.9	1419.6	1434.7
12.5°	858.7	869.9	882.6	930.2	1023.2	1158.2	1302.0	1445.0	1499.8	1514.9
15°	911.2	859.5	835.7	879.4	997.8	1174.9	1352.8	1523.6	1584.0	1601.5
17.5°	913.5	835.7	782.5	816.6	956.4	1182.1	1402.9	1603.9	1669.8	1686.5
20°	884.2	809.5	741.2	742.0	900.0	1180.5	1444.2	1676.2	1750.0	1765.1
22.5°	841.3	778.5	707.8	683.2	839.7	1177.3	1489.5	1753.2	1833.5	1847.8
25°	793.6	738.8	676.0	638.7	779.3	1180.5	1553.0	1854.1	1942.3	1955.8
27.5°	742.0	695.1	651.4	621.2	728.5	1192.4	1629.3	1982.8	2087.7	2102.0
30°	687.9	653.0	635.5	617.2	696.7	1195.6	1711.9	2132.9	2265.6	2285.5
32.5°	634.7	615.7	616.4	619.6	666.5	1173.3	1787.4	2299.8	2476.9	2508.7
35°	585.5	579.9	595.8	611.7	622.8	1116.1	1853.3	2496.8	2738.3	2770.8
37.5°	543.4	548.1	568.0	583.9	575.1	1035.1	1940.7	2743.0	3030.6	3058.4
40°	502.8	514.8	537.8	545.0	538.6	940.6	2045.6	2980.6	3284.0	3322.1
42.5°	465.5	474.3	506.8	508.4	528.3	844.4	2146.4	3236.3	3575.6	3595.4
45°	435.3	433.7	467.1	477.4	541.8	738.0	2244.9	3577.1	3956.9	3985.5
47.5°	405.9	404.3	412.3	459.2	547.3	639.5	2342.7	4076.0	4509.8	4559.0
50°	378.1	380.5	355.9	450.4	517.1	564.0	2387.1	4537.6	5012.6	5033.3
52.5°	353.5	344.8	301.9	421.8	452.8	492.5	2260.8	4747.3	5324.0	5382.8
55°	318.6	270.1	248.6	342.4	357.5	429.8	1851.7	4625.7	5351.0	5455.1
57.5°	272.5	212.1	211.3	252.6	252.6	398.8	1186.0	3952.1	4611.4	4794.1
60°	209.7	164.4	174.8	175.6	162.1	290.7	665.7	2863.0	3409.5	3591.4
62.5°	149.3	125.5	131.9	104.9	92.9	145.4	319.3	1648.4	2104.3	2129.8
65°	100.1	85.0	69.1	58.0	57.2	62.0	131.9	595.8	724.5	817.4
67.5°	65.9	51.6	36.5	36.5	41.3	41.3	50.0	98.5	138.2	126.3
70°	42.9	35.7	23.0	22.2	27.0	27.0	25.4	27.0	28.6	28.6
72.5°	31.8	27.0	13.5	11.9	15.1	15.9	14.3	13.5	13.5	13.5
75°	23.8	19.1	7.9	5.6	7.1	9.5	7.9	5.6	5.6	4.8
77.5°	9.5	7.1	3.2	2.4	4.0	5.6	4.8	2.4	1.6	1.6
80°	0.8	1.6	1.6	1.6	2.4	3.2	4.0	1.6	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.6	2.4	3.2	1.6	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.6	2.4	1.6	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.4	1.6	0.8	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

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



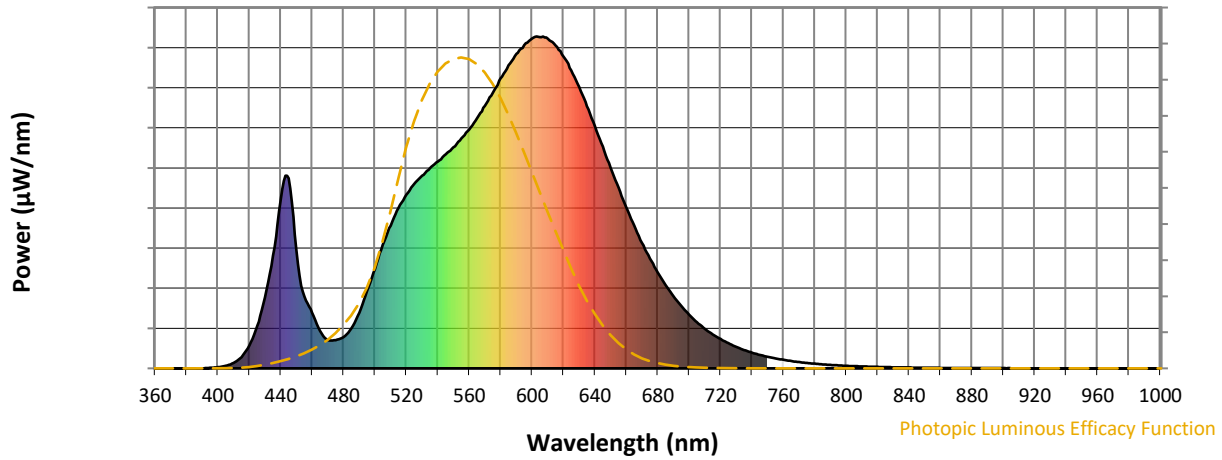
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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

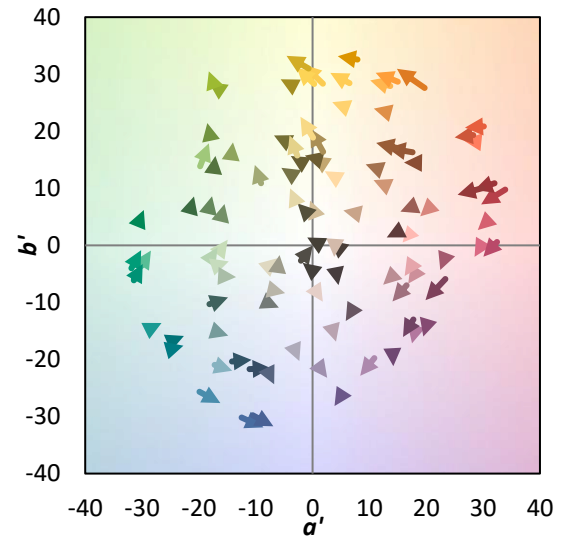
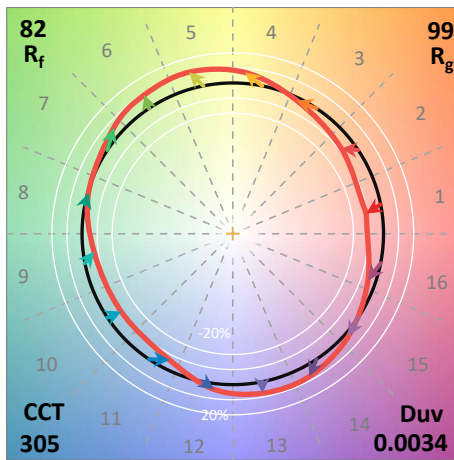
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

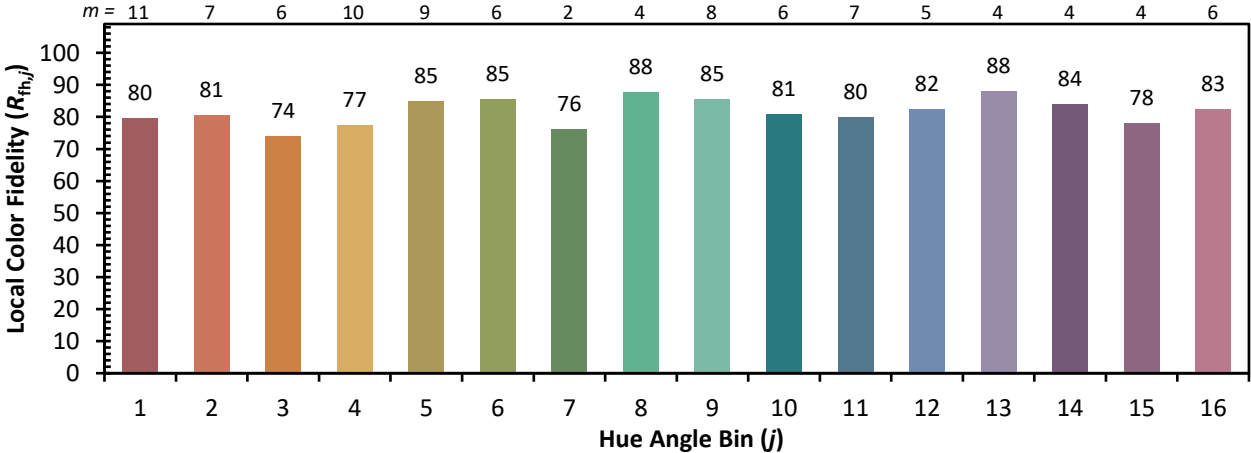


Individual Sample Fidelity Index ($R_{f,i}$)

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)