

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: P635509

Luminaire Tested: GWS-SA3D-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 7496.2 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

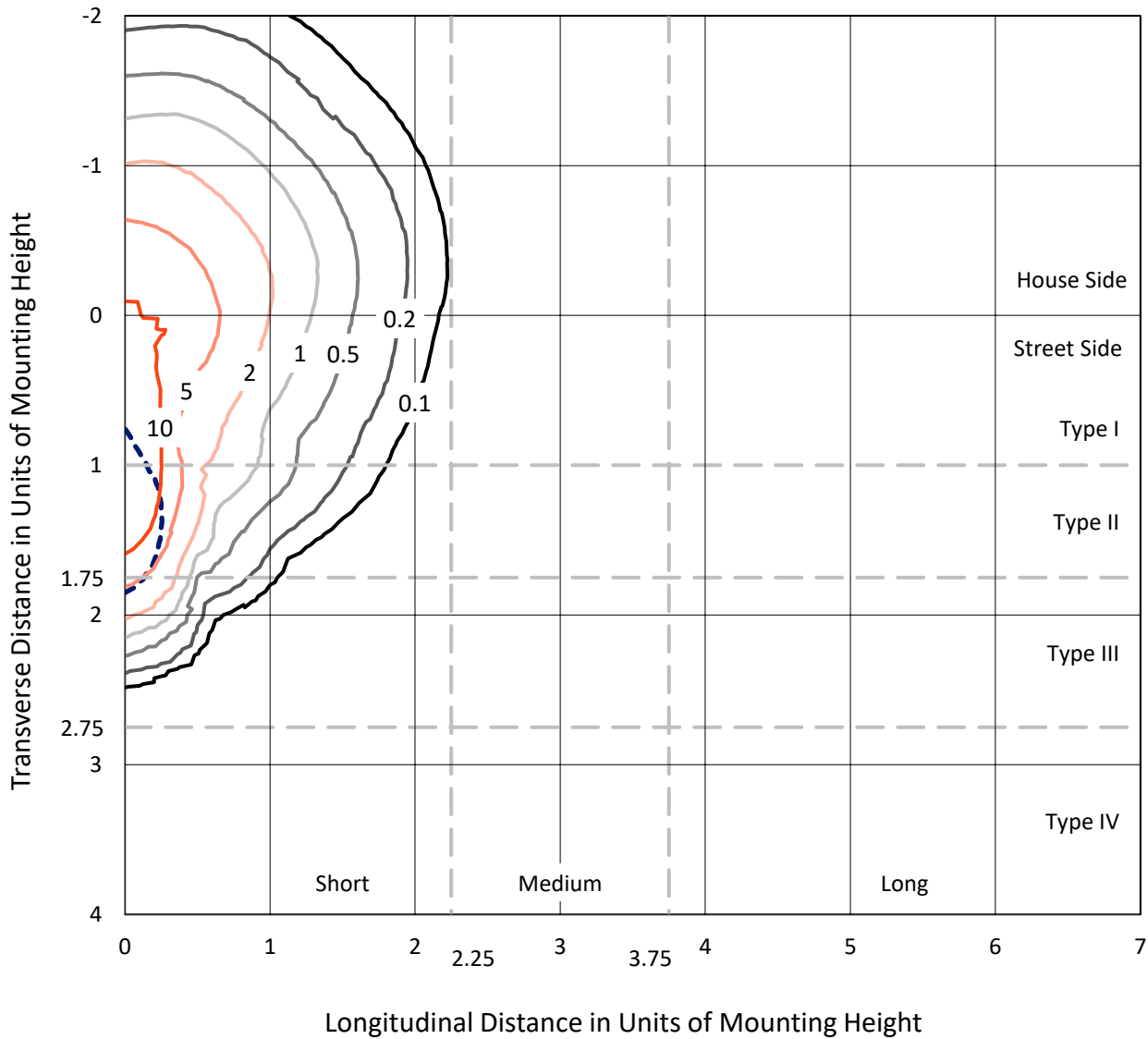
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

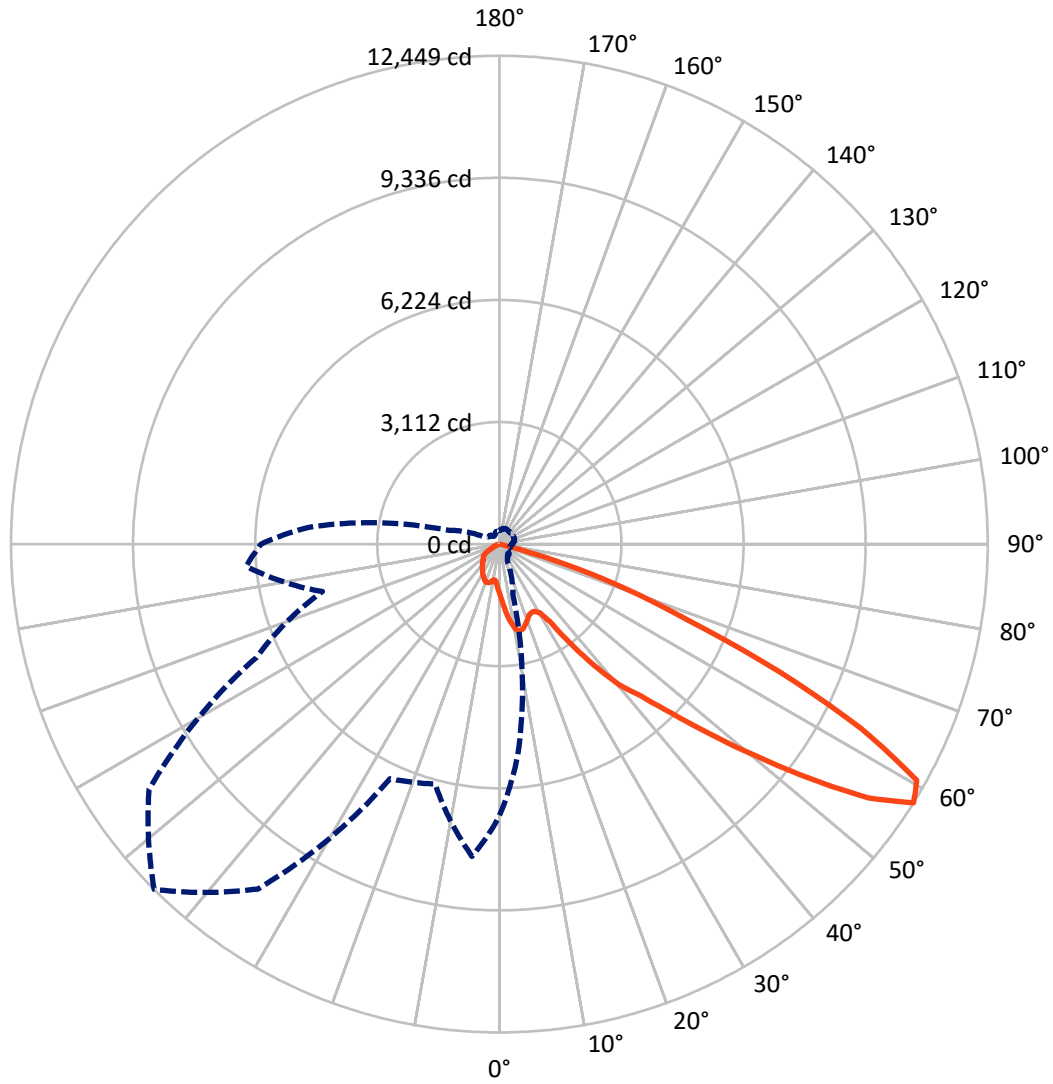
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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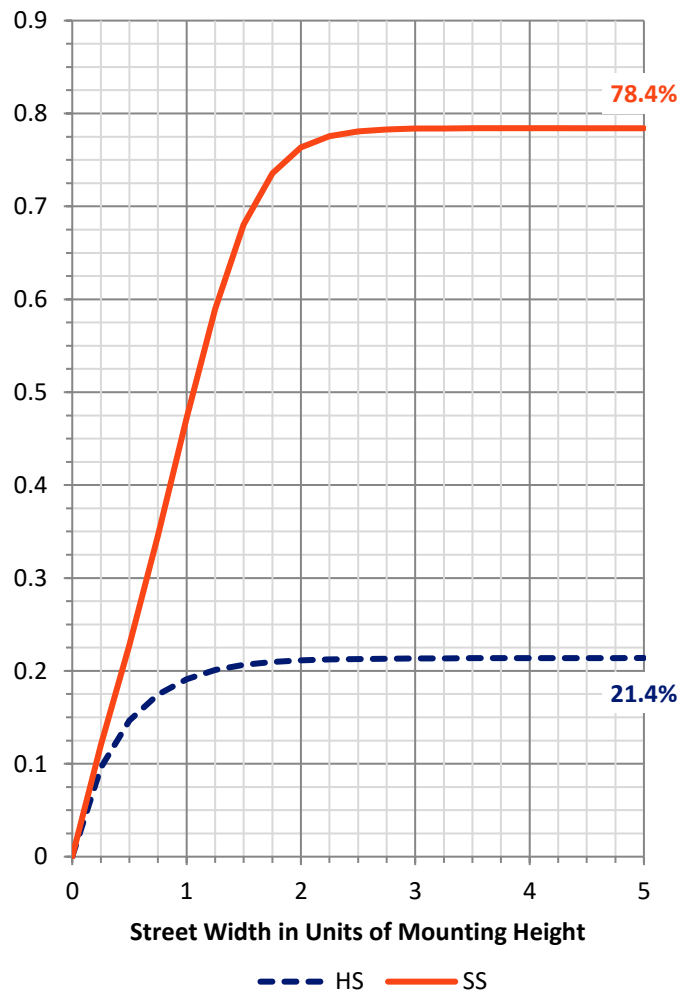
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.9	0.0	1614.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5881.3	0.0	5881.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	7496.2	0.0	7496.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.7
10°-20°	414.2	5.5
20°-30°	672.3	9.0
30°-40°	1031.8	13.8
40°-50°	1647.8	22.0
50°-60°	2307.3	30.8
60°-70°	1183.0	15.8
70°-80°	113.9	1.5
80°-90°	0.0	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°	7496.2	100.0
0°-180°	7496.2	100.0

Coefficient of Utilization



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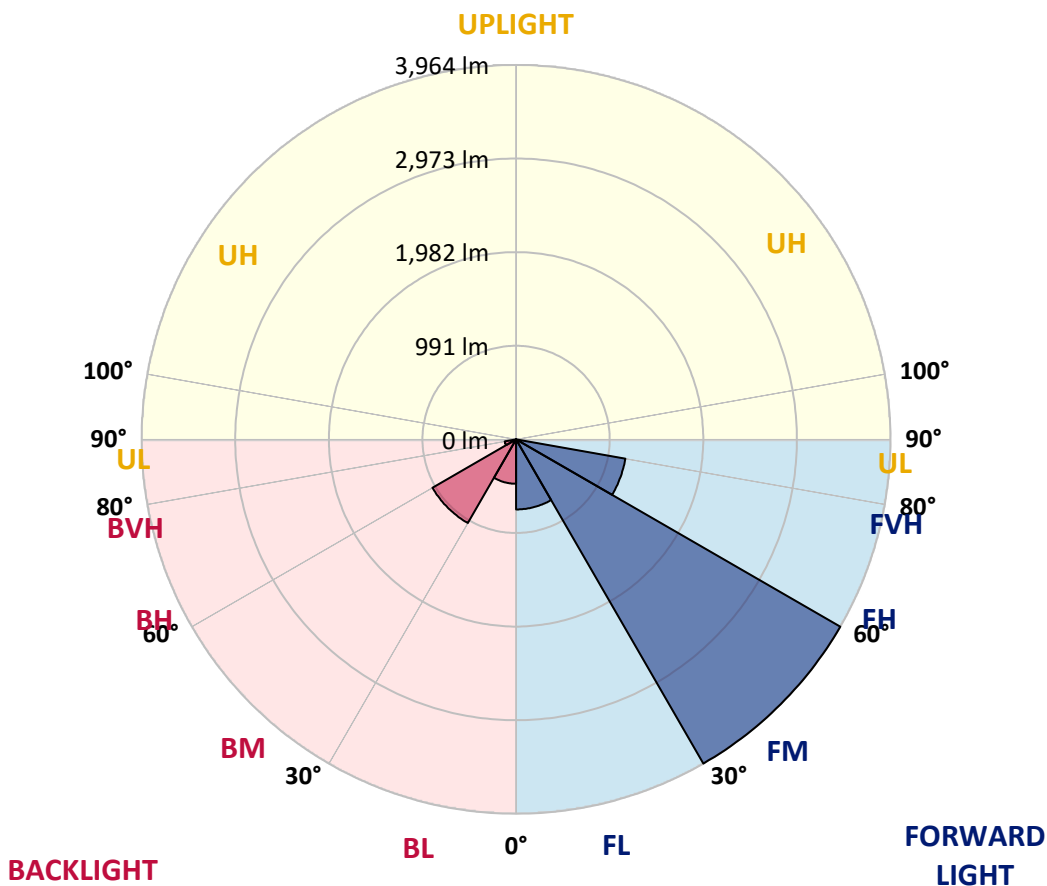
CATALOG NUMBER: GWS-SA3D-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.2	9.9			
FM (30°-60°)	3964.2	52.9			
FH (60°-80°)	1174.9	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	470.2	6.3	B1/500		
BM (30°-60°)	1022.7	13.6	B2/2500		
BH (60°-80°)	122.0	1.6	B1/500		G1/500
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: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1415.0	1412.0	1402.0	1367.9	1346.9	1313.8	1289.7	1258.7	1224.6	1203.6	1182.5
5°	1565.3	1557.3	1530.3	1452.1	1392.0	1326.8	1274.7	1217.6	1156.5	1116.4	1079.3
7.5°	1709.6	1697.6	1661.5	1529.3	1438.1	1344.9	1270.7	1187.5	1101.3	1041.2	995.1
10°	1850.9	1823.9	1766.8	1604.4	1481.2	1368.9	1281.7	1186.5	1085.3	1009.2	958.0
12.5°	1967.2	1947.2	1869.0	1675.6	1517.2	1373.9	1266.7	1178.5	1110.4	1059.3	1012.2
15°	2067.4	2045.4	1971.2	1739.7	1548.3	1353.9	1203.6	1126.4	1137.4	1157.5	1117.4
17.5°	2159.6	2136.6	2056.4	1792.8	1560.3	1304.8	1115.4	1078.3	1139.4	1214.6	1199.6
20°	2254.8	2228.8	2130.5	1835.9	1556.3	1227.6	1026.2	1037.2	1123.4	1209.6	1217.6
22.5°	2366.0	2339.0	2224.7	1891.0	1553.3	1135.4	949.0	1001.1	1093.3	1166.5	1180.5
25°	2513.4	2481.3	2356.0	1972.2	1561.3	1051.2	893.9	966.1	1042.2	1108.4	1116.4
27.5°	2707.8	2666.7	2507.3	2072.4	1578.4	985.1	869.9	918.0	977.1	1036.2	1043.2
30°	2961.3	2909.2	2680.7	2159.6	1570.3	939.0	853.8	869.9	904.9	953.0	954.0
32.5°	3257.9	3186.8	2875.1	2234.8	1501.2	904.9	831.8	820.7	828.8	865.8	872.9
35°	3606.7	3514.5	3089.6	2305.9	1374.9	838.8	791.7	754.6	751.6	769.6	786.7
37.5°	4006.5	3896.3	3360.2	2397.1	1225.6	769.6	732.6	695.5	679.4	688.5	714.5
40°	4375.3	4253.1	3642.8	2507.3	1073.3	707.5	663.4	625.3	606.3	609.3	641.4
42.5°	4808.3	4682.0	3988.5	2651.7	947.0	665.4	591.3	552.2	527.1	541.2	578.2
45°	5465.7	5322.3	4492.6	2776.9	846.8	655.4	528.1	473.0	461.0	485.0	529.1
47.5°	6363.6	6188.2	5185.1	2853.1	761.6	664.4	484.0	408.9	411.9	438.9	483.0
50°	7254.5	7065.1	5985.8	2752.9	691.5	646.4	462.0	358.8	377.8	401.9	441.9
52.5°	7866.8	7620.2	6375.6	2463.3	627.3	578.2	460.0	311.7	347.7	355.8	389.8
55°	7890.8	7587.2	6176.2	1942.1	540.2	488.0	438.9	272.6	314.7	317.7	346.7
57.5°	6916.7	6642.2	5397.5	1333.8	480.0	357.8	349.7	238.5	258.6	283.6	301.6
60°	5262.2	5028.7	4036.6	611.3	364.8	227.5	239.5	205.4	193.4	230.5	248.5
62.5°	3222.9	3073.6	2421.2	270.6	232.5	121.3	145.3	163.3	145.3	159.3	174.4
65°	1279.7	1213.6	919.0	115.2	95.2	61.1	66.1	95.2	102.2	112.2	126.3
67.5°	222.5	210.4	154.3	51.1	39.1	37.1	32.1	44.1	62.1	69.1	80.2
70°	29.1	28.1	25.1	21.0	20.0	18.0	14.0	28.1	42.1	44.1	51.1
72.5°	7.0	6.0	6.0	5.0	6.0	2.0	2.0	15.0	30.1	31.1	36.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	19.0	21.0	25.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1165.5	1145.4	1138.4	1128.4	1115.4	1119.4	1101.3	1095.3	1104.4	1116.4	1113.4
5°	1059.3	1037.2	1022.2	999.1	995.1	986.1	980.1	972.1	982.1	996.1	999.1
7.5°	975.1	956.0	941.0	934.0	929.0	925.0	912.9	906.9	906.9	912.9	918.0
10°	939.0	925.0	922.0	924.0	932.0	931.0	920.0	911.9	901.9	896.9	902.9
12.5°	989.1	966.1	962.1	963.1	973.1	972.1	960.0	950.0	948.0	950.0	969.1
15°	1074.3	1039.2	1013.2	1008.1	1013.2	1011.2	1002.1	996.1	999.1	1028.2	1060.3
17.5°	1150.5	1096.3	1049.2	1031.2	1030.2	1027.2	1018.2	1016.2	1031.2	1085.3	1132.4
20°	1172.5	1119.4	1052.2	1029.2	1024.2	1021.2	1011.2	1014.2	1033.2	1098.3	1138.4
22.5°	1143.4	1092.3	1022.2	999.1	995.1	994.1	984.1	988.1	1004.1	1061.3	1094.3
25°	1088.3	1045.2	972.1	952.0	952.0	950.0	941.0	943.0	953.0	1003.1	1035.2
27.5°	1021.2	980.1	919.0	898.9	901.9	904.9	893.9	890.9	898.9	946.0	965.1
30°	944.0	915.0	866.8	848.8	847.8	859.8	844.8	840.8	851.8	888.9	892.9
32.5°	868.9	854.8	820.7	806.7	807.7	809.7	801.7	801.7	811.7	831.8	830.8
35°	795.7	786.7	780.7	770.6	769.6	765.6	765.6	767.6	778.7	785.7	772.6
37.5°	725.5	734.6	741.6	731.6	723.5	723.5	723.5	732.6	742.6	739.6	717.5
40°	663.4	682.5	704.5	693.5	674.4	673.4	677.4	692.5	707.5	689.5	669.4
42.5°	610.3	634.4	665.4	659.4	638.4	635.4	638.4	657.4	669.4	646.4	624.3
45°	558.2	588.3	625.3	625.3	602.3	599.3	600.3	625.3	632.3	605.3	577.2
47.5°	514.1	547.2	586.2	586.2	567.2	561.2	566.2	592.3	597.3	559.2	533.1
50°	472.0	508.1	551.2	548.2	535.1	530.1	539.1	567.2	561.2	519.1	492.0
52.5°	418.9	457.0	516.1	519.1	512.1	513.1	524.1	542.2	525.1	474.0	451.0
55°	370.8	409.9	469.0	485.0	485.0	484.0	489.0	503.1	489.0	427.9	399.9
57.5°	318.7	351.7	400.9	404.9	407.9	396.8	403.9	422.9	415.9	363.8	347.7
60°	261.6	289.6	317.7	320.7	307.7	284.6	297.6	319.7	324.7	285.6	267.6
62.5°	185.4	212.5	245.5	245.5	232.5	209.4	226.5	245.5	238.5	198.4	187.4
65°	138.3	163.3	188.4	199.4	188.4	172.4	185.4	199.4	188.4	155.3	139.3
67.5°	89.2	106.2	121.3	130.3	132.3	130.3	136.3	132.3	119.3	97.2	88.2
70°	54.1	63.1	71.2	79.2	85.2	88.2	91.2	82.2	69.1	57.1	54.1
72.5°	39.1	47.1	54.1	60.1	67.1	69.1	69.1	63.1	51.1	40.1	37.1
75°	27.1	34.1	40.1	44.1	50.1	52.1	52.1	47.1	38.1	29.1	26.1
77.5°	1.0	7.0	7.0	6.0	8.0	10.0	10.0	12.0	11.0	8.0	7.0
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°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1119.4	1155.5	1165.5	1202.6	1235.6	1268.7	1308.8	1332.8	1368.9	1394.0	1408.0
5°	1009.2	1039.2	1075.3	1130.4	1187.5	1250.7	1326.8	1393.0	1476.1	1537.3	1557.3
7.5°	929.0	968.1	1010.2	1079.3	1157.5	1241.6	1348.9	1457.1	1584.4	1667.6	1720.7
10°	913.9	954.0	1010.2	1078.3	1160.5	1256.7	1388.0	1528.3	1687.6	1788.8	1848.9
12.5°	986.1	1029.2	1053.2	1084.3	1146.4	1253.7	1422.0	1600.4	1787.8	1898.0	1962.2
15°	1092.3	1130.4	1091.3	1052.2	1092.3	1221.6	1441.1	1660.5	1876.0	2003.3	2069.4
17.5°	1165.5	1168.5	1083.3	1000.1	1011.2	1163.5	1448.1	1720.7	1970.2	2103.5	2172.6
20°	1158.5	1134.4	1048.2	956.0	922.0	1088.3	1440.1	1773.8	2065.4	2204.7	2272.8
22.5°	1104.4	1076.3	1003.1	912.9	846.8	999.1	1426.0	1821.9	2152.6	2310.9	2375.1
25°	1039.2	1009.2	949.0	869.9	798.7	912.9	1415.0	1888.0	2262.8	2449.2	2499.3
27.5°	963.1	937.0	885.9	828.8	778.7	847.8	1412.0	1975.2	2396.1	2617.6	2652.7
30°	888.9	864.8	824.8	791.7	770.6	809.7	1402.0	2068.4	2555.4	2811.0	2849.1
32.5°	817.7	793.7	768.6	763.6	764.6	795.7	1367.9	2160.6	2744.9	3091.6	3119.7
35°	756.6	728.6	718.5	730.6	752.6	771.6	1271.7	2236.8	2948.3	3397.2	3420.3
37.5°	698.5	670.4	669.4	698.5	722.5	734.6	1158.5	2311.9	3222.9	3707.9	3737.0
40°	645.4	617.3	627.3	662.4	681.5	687.5	1021.2	2426.2	3513.5	4035.6	4019.6
42.5°	600.3	571.2	577.2	622.3	639.4	655.4	894.9	2521.4	3793.1	4346.3	4341.3
45°	556.2	534.1	530.1	579.2	594.3	658.4	802.7	2594.5	4152.9	4742.1	4750.1
47.5°	513.1	496.1	497.1	518.1	555.2	673.4	724.5	2642.6	4675.0	5369.4	5230.2
50°	474.0	461.0	472.0	448.0	530.1	654.4	657.4	2632.6	5258.2	5970.7	5691.1
52.5°	430.9	427.9	432.9	374.8	490.0	577.2	594.3	2499.3	5531.8	6381.6	6222.3
55°	386.8	385.8	345.7	299.6	409.9	461.0	509.1	2085.4	5522.8	6600.1	6793.5
57.5°	334.7	326.7	262.6	244.5	318.7	320.7	464.0	1365.9	4894.4	6077.0	6477.8
60°	253.5	247.5	192.4	198.4	222.5	205.4	369.8	680.5	3657.8	4734.1	5186.1
62.5°	175.4	167.4	143.3	153.3	143.3	117.2	226.5	336.7	2215.7	2989.4	3399.2
65°	128.3	119.3	98.2	84.2	67.1	67.1	86.2	129.3	857.8	1270.7	1532.3
67.5°	79.2	75.2	58.1	42.1	41.1	44.1	45.1	64.1	138.3	220.5	269.6
70°	51.1	47.1	39.1	27.1	25.1	26.1	27.1	30.1	35.1	38.1	46.1
72.5°	35.1	33.1	28.1	15.0	12.0	13.0	14.0	14.0	17.0	16.0	19.0
75°	25.1	23.0	20.0	7.0	4.0	5.0	6.0	5.0	6.0	4.0	5.0
77.5°	7.0	7.0	5.0	1.0	0.0	1.0	2.0	2.0	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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-SA3D-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1444.1	1467.1	1476.1	1463.1	1474.1	1456.1	1449.1	1422.0	1420.0	1415.0
5°	1638.5	1690.6	1721.7	1740.7	1718.7	1694.6	1658.5	1596.4	1577.4	1565.3
7.5°	1829.9	1911.1	1964.2	1989.2	1983.2	1934.1	1869.0	1764.8	1727.7	1709.6
10°	1996.3	2095.5	2159.6	2190.7	2177.6	2134.6	2041.4	1911.1	1862.0	1850.9
12.5°	2112.5	2203.7	2247.8	2274.8	2275.9	2258.8	2170.6	2039.3	1981.2	1967.2
15°	2185.7	2224.7	2225.7	2241.8	2269.8	2307.9	2266.8	2150.6	2088.5	2067.4
17.5°	2231.8	2188.7	2144.6	2148.6	2194.7	2295.9	2338.0	2248.8	2182.7	2159.6
20°	2264.8	2128.5	2046.4	2047.4	2094.5	2247.8	2387.1	2344.0	2275.9	2254.8
22.5°	2285.9	2075.4	1958.2	1955.2	2005.3	2190.7	2432.2	2457.2	2390.1	2366.0
25°	2329.0	2050.4	1905.1	1922.1	1966.2	2172.6	2493.3	2607.6	2545.4	2513.4
27.5°	2406.1	2075.4	1900.1	1939.1	1989.2	2225.7	2599.5	2808.0	2743.8	2707.8
30°	2539.4	2169.6	1977.2	2031.3	2091.5	2365.0	2777.9	3087.6	2995.4	2961.3
32.5°	2753.9	2365.0	2215.7	2332.0	2390.1	2593.5	3045.5	3401.3	3326.1	3257.9
35°	3049.5	2811.0	2794.0	3064.5	3050.5	3026.5	3374.2	3786.1	3672.8	3606.7
37.5°	3456.4	3528.5	3654.8	3923.4	3914.3	3731.0	3806.1	4149.8	4091.7	4006.5
40°	3964.5	4117.8	4332.2	4717.1	4596.8	4366.3	4336.2	4522.6	4475.5	4375.3
42.5°	4264.1	4528.7	4937.5	5283.3	5187.1	4784.2	4750.1	5020.7	4917.5	4808.3
45°	4403.4	4863.4	5665.1	6133.1	5841.5	5061.8	5048.8	5670.1	5612.0	5465.7
47.5°	4467.5	5201.1	6516.9	7225.4	6680.2	5305.3	5258.2	6612.1	6535.9	6363.6
50°	4538.7	5667.1	7543.1	8491.1	7693.4	5580.9	5615.0	7490.0	7457.9	7254.5
52.5°	4695.0	6160.1	8806.8	9938.2	8922.0	6012.8	6227.3	8317.7	8101.3	7866.8
55°	4929.5	6697.3	10121.6	11416.3	10175.7	6593.1	6889.7	8757.7	8150.4	7890.8
57.5°	4670.0	6831.6	10900.2	12448.5	10731.9	6595.1	6329.5	7995.0	7168.3	6916.7
60°	3705.9	6355.5	10600.6	12225.1	10257.9	5856.5	4846.3	6242.3	5430.6	5262.2
62.5°	2505.3	5330.4	9331.9	10339.0	8779.7	4606.8	3149.7	4059.7	3362.2	3222.9
65°	1372.9	3976.5	7540.1	7821.7	6871.6	3217.9	1620.5	1761.8	1341.9	1279.7
67.5°	378.8	2767.9	5547.8	5189.1	4821.3	2095.5	418.9	314.7	224.5	222.5
70°	95.2	1830.9	3324.1	3426.3	2956.3	1341.9	80.2	38.1	30.1	29.1
72.5°	40.1	787.7	1577.4	1812.9	1513.2	621.3	29.1	11.0	9.0	7.0
75°	5.0	63.1	134.3	203.4	139.3	67.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
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			

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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

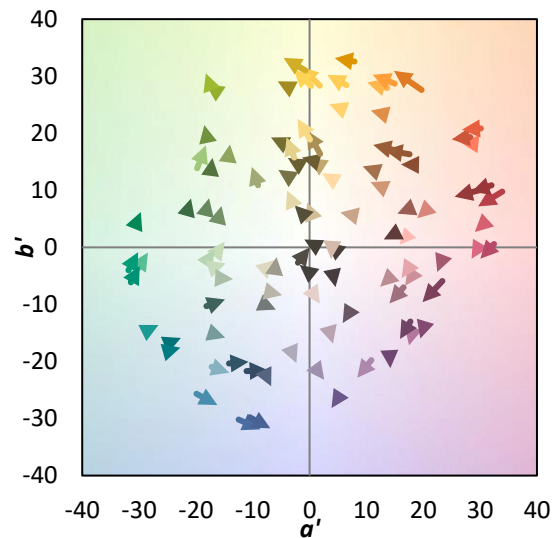
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

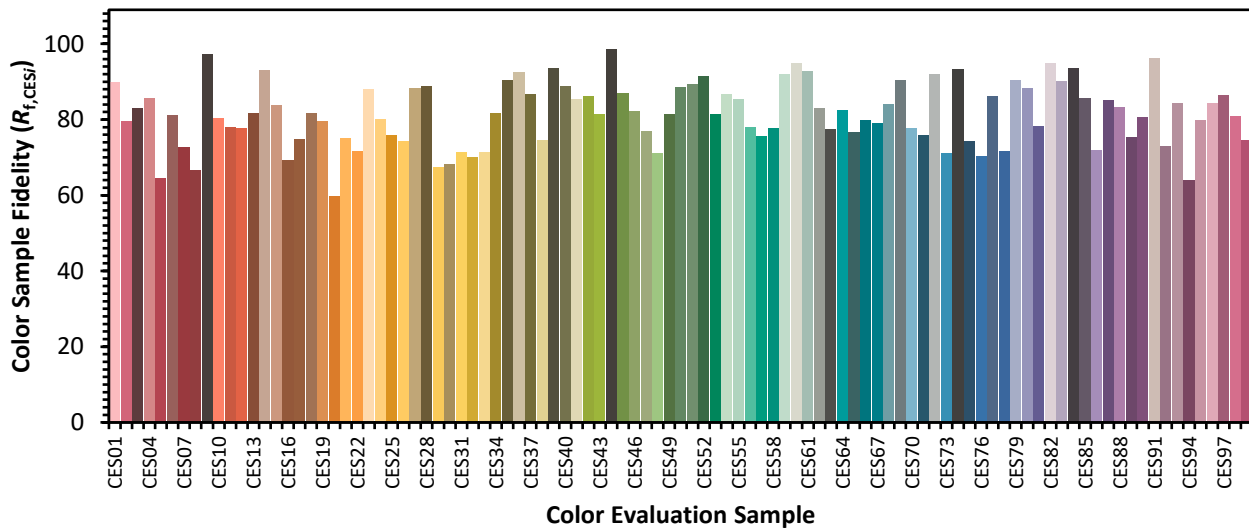


Color Vector Graphics



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)