

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: P631055

Luminaire Tested: GWS-SA1E-830-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

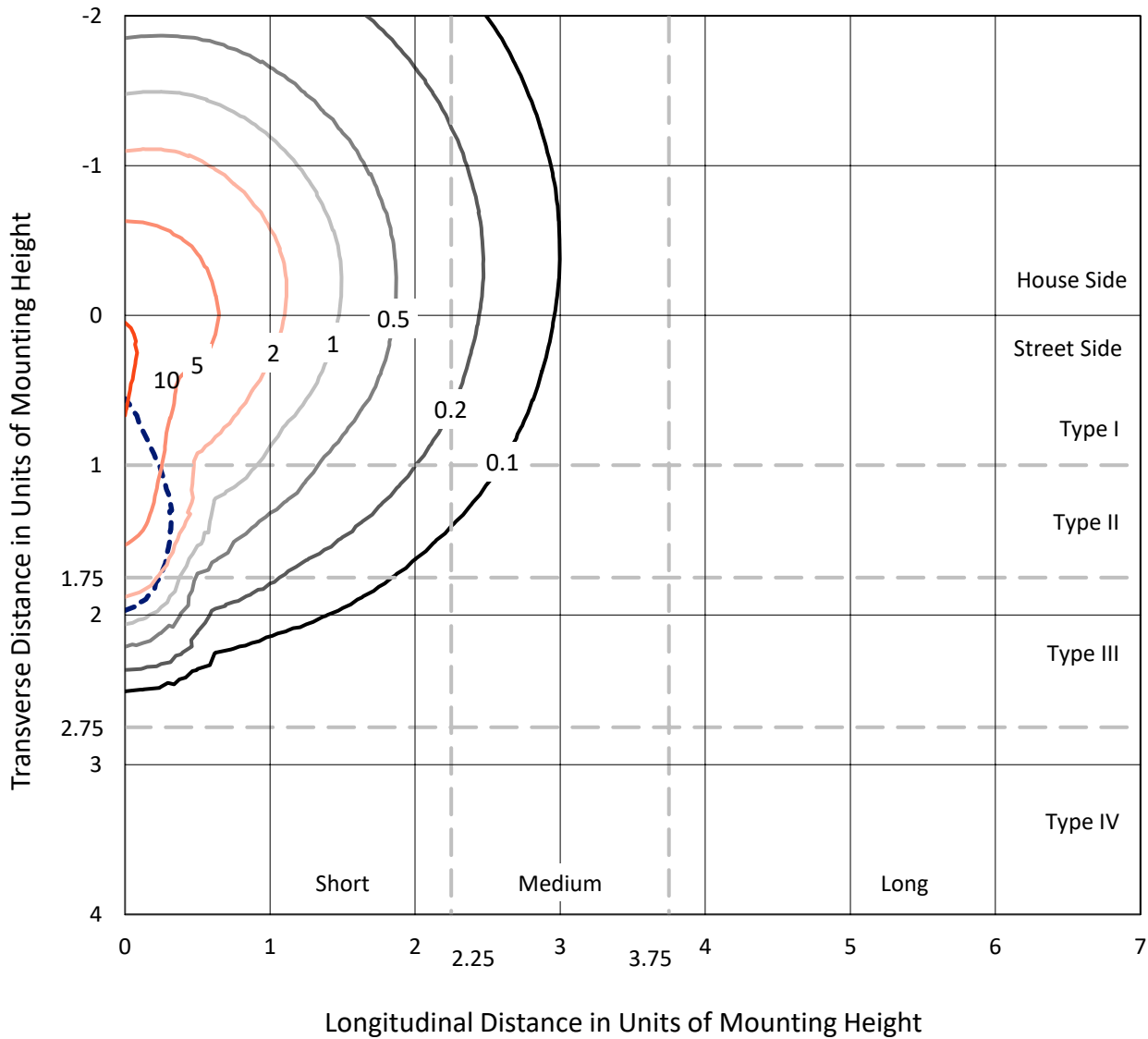
Lumens per Lamp: N/A  
Luminaire Lumens: 4685.5 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

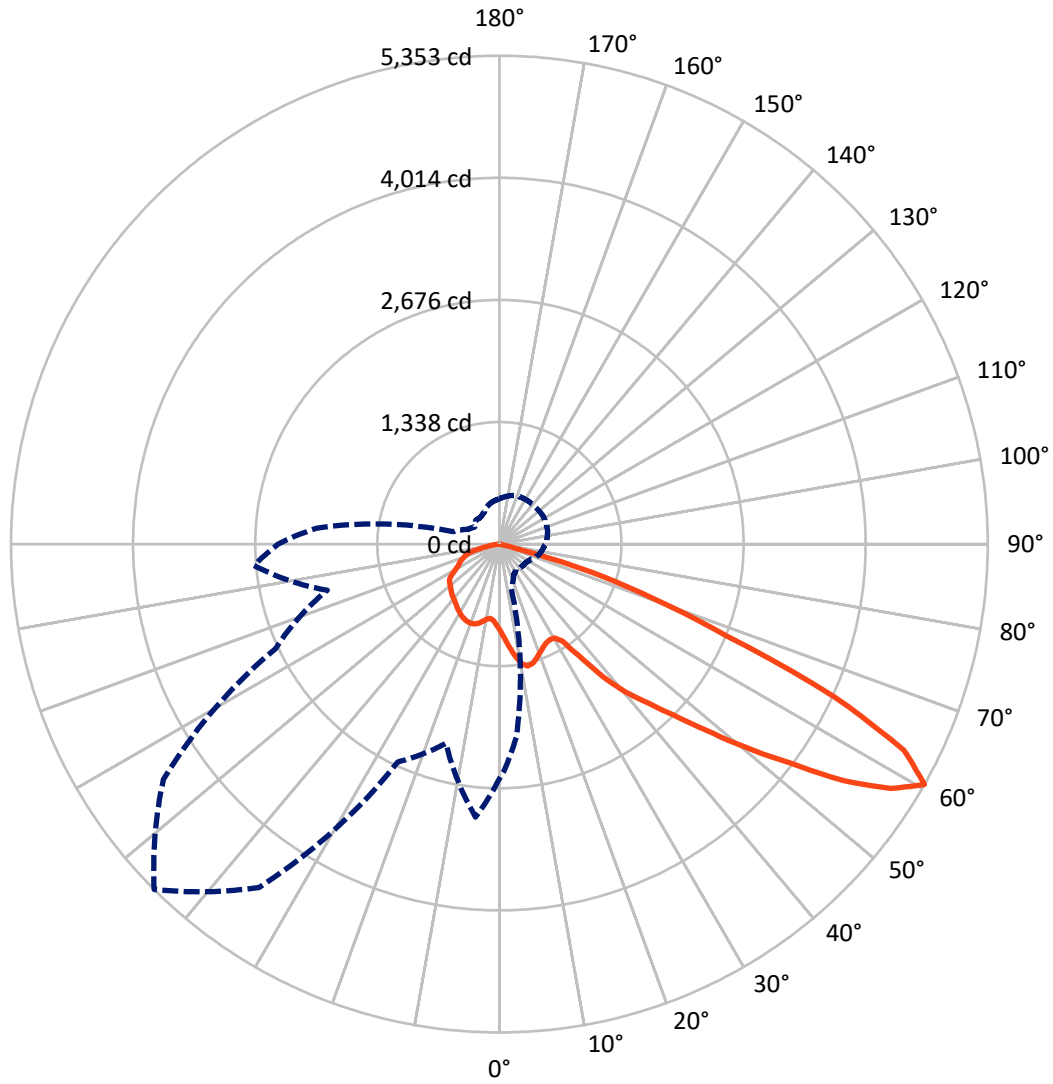
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1602.9	0.0	1602.9
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	3082.6	0.0	3082.6
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	4685.5	0.0	4685.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	2.0
10°-20°	296.1	6.3
20°-30°	482.3	10.3
30°-40°	677.5	14.5
40°-50°	927.1	19.8
50°-60°	1189.4	25.4
60°-70°	800.9	17.1
70°-80°	200.2	4.3
80°-90°	19.5	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°	4685.5	100.0
0°-180°	4685.5	100.0

**Coefficient of Utilization**



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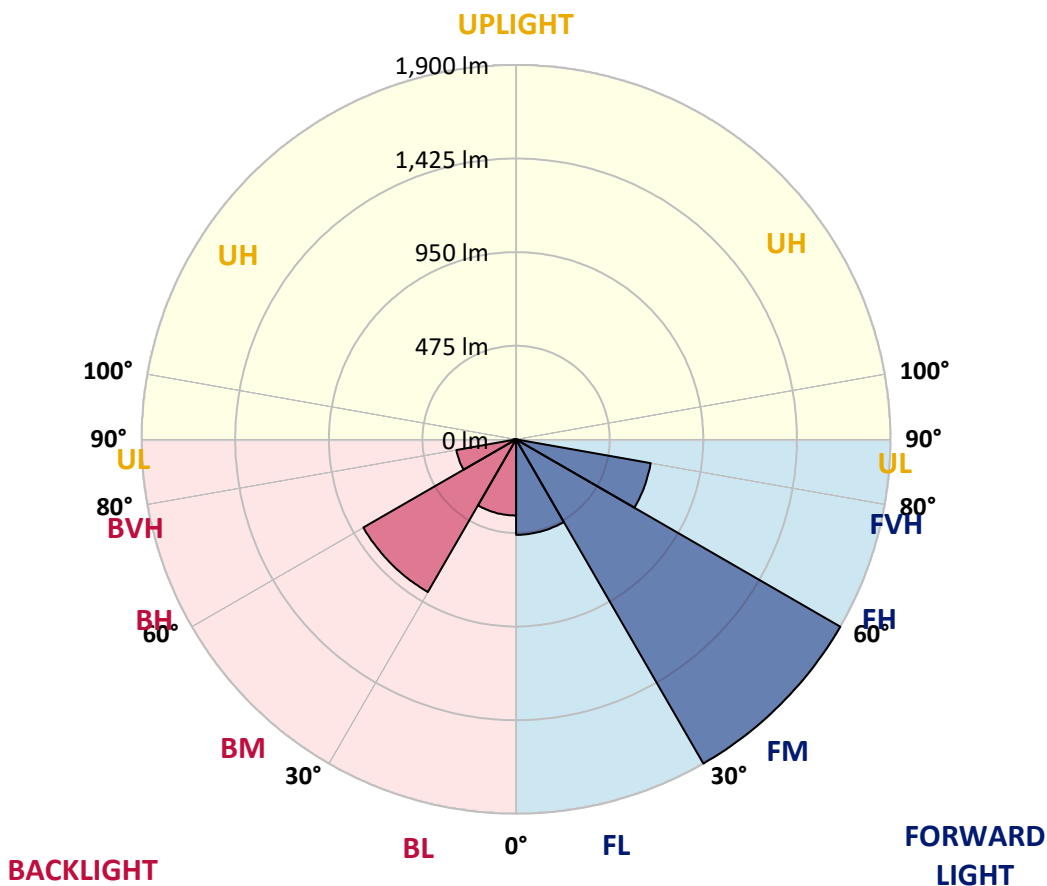
CATALOG NUMBER: GWS-SA1E-830-U-SLL-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.4	10.3			
FM (30°-60°)	1899.5	40.5			
FH (60°-80°)	693.6	14.8			G1/1800
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	386.4	8.2	B1/500		
BM (30°-60°)	894.5	19.1	B1/1000		
BH (60°-80°)	307.5	6.6	B1/500		G1/500
BVH (80°-90°)	14.4	0.3			G1/100
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°	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0
2.5°	999.8	997.7	995.5	978.7	974.4	962.3	953.6	942.9	927.3	918.7	911.4
5°	1062.4	1058.9	1047.3	1012.8	990.3	965.7	945.4	923.0	899.3	883.7	871.7
7.5°	1121.5	1120.6	1100.8	1043.8	1007.6	972.2	944.6	911.8	877.7	854.4	838.9
10°	1176.3	1169.8	1146.1	1071.9	1024.4	983.9	954.1	917.8	878.1	846.6	825.9
12.5°	1224.6	1216.4	1183.6	1097.8	1039.1	989.0	956.7	926.9	900.6	874.2	850.5
15°	1264.3	1254.4	1221.2	1121.9	1052.0	986.0	940.7	917.4	926.5	938.1	911.8
17.5°	1301.4	1291.1	1250.5	1139.6	1055.9	967.5	901.4	891.5	937.2	990.3	978.2
20°	1332.5	1320.9	1273.8	1148.3	1049.0	932.1	850.5	867.8	928.2	991.6	1011.0
22.5°	1366.2	1356.7	1300.2	1160.8	1040.4	883.3	807.8	850.1	912.7	968.3	997.7
25°	1420.1	1408.5	1341.1	1182.8	1036.1	837.6	777.2	832.8	891.1	941.6	964.4
27.5°	1498.2	1476.6	1397.2	1221.2	1040.8	794.4	757.7	811.7	866.0	909.2	927.8
30°	1583.2	1557.3	1459.4	1260.9	1047.7	768.1	747.4	787.5	827.6	870.8	891.1
32.5°	1683.8	1660.9	1525.8	1290.7	1033.0	756.0	739.6	761.2	793.1	827.6	844.5
35°	1803.7	1762.7	1598.3	1314.8	985.6	738.3	732.7	732.3	749.1	782.8	801.8
37.5°	1932.8	1888.7	1687.7	1340.7	911.8	710.3	716.3	698.2	713.7	740.5	762.1
40°	2038.5	1992.3	1777.8	1376.1	819.4	666.3	680.1	660.6	670.1	697.8	721.9
42.5°	2142.0	2092.8	1862.0	1416.2	730.1	623.1	630.0	622.7	625.7	654.6	688.3
45°	2278.0	2222.7	1965.5	1444.7	649.9	589.0	582.5	570.0	586.0	623.5	659.4
47.5°	2504.9	2438.9	2135.1	1463.3	591.6	569.6	539.8	532.5	552.3	594.2	631.3
50°	2770.3	2713.4	2406.1	1462.4	548.0	553.2	498.4	491.9	524.7	567.0	606.3
52.5°	2987.8	2930.0	2637.8	1419.2	512.2	518.2	474.2	456.1	501.0	540.3	579.5
55°	3163.4	3098.3	2744.4	1238.9	466.9	462.6	447.9	414.7	471.2	513.5	550.2
57.5°	3068.9	2991.3	2615.4	942.0	420.3	393.1	402.6	378.0	430.7	483.7	519.1
60°	2573.1	2503.2	2124.8	501.4	369.8	328.4	348.2	352.1	386.2	447.9	484.2
62.5°	1767.5	1716.6	1440.0	304.2	291.7	263.7	294.7	322.8	348.2	400.4	431.9
65°	864.8	849.7	720.2	195.0	204.1	213.2	244.2	278.3	315.9	361.6	394.8
67.5°	238.2	239.9	218.3	152.3	161.0	186.0	210.6	237.8	275.3	317.6	351.3
70°	104.9	106.6	110.0	117.4	133.8	156.6	182.1	210.1	244.7	280.1	312.4
72.5°	72.9	74.7	79.8	89.3	104.0	125.6	149.7	176.5	212.3	242.1	268.8
75°	44.9	46.2	50.9	59.1	69.0	85.4	109.2	133.8	165.3	192.5	216.2
77.5°	23.7	22.9	25.9	31.5	40.1	48.8	64.7	80.3	102.7	124.7	144.6
80°	12.9	12.5	14.2	17.3	19.8	26.8	37.5	47.9	60.8	73.4	84.1
82.5°	5.6	5.2	5.6	7.3	9.1	12.9	19.0	26.3	33.7	42.3	49.2
85°	0.0	0.0	0.0	0.4	2.2	3.5	6.5	9.5	13.8	19.0	23.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.9
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°	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0
2.5°	907.0	896.3	895.4	886.8	887.6	888.1	879.4	876.0	879.0	882.4	880.7
5°	867.3	856.1	851.4	843.2	842.3	838.4	835.0	830.7	833.7	836.7	838.4
7.5°	832.8	825.5	822.5	820.3	821.2	819.4	812.5	808.7	808.2	809.5	811.2
10°	821.6	815.6	819.4	825.5	829.8	832.8	825.5	819.0	813.0	810.4	810.4
12.5°	845.8	838.0	845.8	852.2	860.9	863.0	854.8	847.9	845.8	848.4	853.5
15°	899.3	881.2	880.7	884.6	891.5	895.0	887.2	883.7	883.7	900.1	913.1
17.5°	952.8	923.0	910.5	908.3	912.7	913.9	907.5	904.5	912.2	944.2	968.3
20°	990.3	954.1	926.9	921.7	923.0	923.4	918.3	916.1	927.3	966.2	986.4
22.5°	986.4	959.7	926.5	920.0	922.1	921.3	916.5	915.7	924.7	958.4	967.9
25°	959.7	939.0	910.9	906.6	910.1	909.6	904.9	902.7	906.6	929.0	929.9
27.5°	929.0	910.9	886.8	885.5	891.1	894.1	885.9	879.4	878.1	893.2	889.8
30°	892.4	879.0	859.6	860.4	870.8	872.5	862.6	853.1	850.5	858.7	854.0
32.5°	848.8	844.5	834.1	836.3	846.2	849.7	839.3	829.4	826.3	828.9	819.0
35°	811.7	810.0	810.8	814.7	823.3	825.9	817.3	809.5	805.2	796.1	783.2
37.5°	773.3	778.0	790.5	797.9	802.6	801.8	797.0	791.4	784.5	767.7	751.7
40°	737.5	749.5	772.0	780.2	781.9	782.3	778.9	774.1	765.5	743.1	724.9
42.5°	709.8	723.2	753.0	765.5	766.4	767.2	763.8	759.9	747.8	718.0	700.3
45°	680.9	698.6	733.6	748.7	747.8	747.4	744.4	742.6	728.4	693.9	674.5
47.5°	656.3	677.0	714.6	727.5	727.1	726.7	724.5	724.5	710.3	672.7	650.7
50°	632.2	655.9	695.2	706.0	706.8	706.0	705.1	706.4	689.6	649.4	627.9
52.5°	605.8	632.6	673.6	683.5	688.7	690.9	690.9	687.8	668.0	626.1	602.4
55°	576.9	602.4	649.9	663.2	667.6	671.4	671.4	665.4	646.8	604.6	579.1
57.5°	541.1	563.6	601.1	614.5	624.8	627.4	627.4	617.5	602.4	561.8	541.1
60°	502.3	521.7	547.2	561.4	569.2	564.0	567.9	565.3	553.2	515.7	498.4
62.5°	450.5	470.4	498.4	513.1	516.5	511.3	516.5	516.1	499.7	466.0	445.3
65°	413.4	432.8	460.4	479.4	485.0	483.7	487.2	482.0	461.7	429.8	409.9
67.5°	369.4	390.1	422.0	443.2	454.8	456.1	460.9	450.1	429.4	394.4	369.4
70°	327.5	345.2	369.8	389.7	406.1	414.3	415.1	399.6	373.7	344.8	326.7
72.5°	283.5	301.6	331.4	353.0	373.7	383.2	383.2	364.2	336.1	304.2	284.8
75°	230.0	246.8	274.0	297.3	321.0	333.1	332.7	316.3	285.2	255.0	234.7
77.5°	155.8	168.3	185.6	203.2	206.7	216.2	220.9	200.2	183.0	166.6	148.4
80°	90.6	98.4	107.9	117.8	120.0	123.0	115.2	107.4	98.4	87.6	79.4
82.5°	53.1	58.3	63.0	70.8	72.1	72.9	66.0	62.6	55.2	48.8	43.6
85°	25.9	27.6	31.9	35.8	34.1	33.2	30.2	26.8	23.7	21.1	18.6
87.5°	5.2	5.2	7.8	7.3	6.0	5.2	3.0	3.9	0.9	0.9	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°	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0
2.5°	886.3	893.7	902.7	914.8	928.6	943.3	957.5	968.3	979.1	995.1	992.5
5°	841.0	853.5	867.8	886.3	908.8	934.2	962.7	991.2	1021.8	1047.7	1058.9
7.5°	814.7	828.5	845.3	869.5	898.4	929.5	969.6	1015.8	1065.4	1099.5	1120.6
10°	814.7	832.4	854.4	877.7	903.2	935.1	984.7	1042.5	1106.4	1151.3	1175.9
12.5°	861.7	879.4	884.2	883.3	897.5	932.9	996.8	1070.6	1147.0	1194.4	1224.6
15°	935.1	941.1	905.3	872.5	874.7	917.4	1002.4	1093.0	1181.9	1238.9	1271.7
17.5°	984.3	968.3	904.5	847.1	835.0	891.1	1002.4	1114.6	1219.0	1283.3	1314.0
20°	988.2	948.5	882.4	822.5	791.4	856.1	995.5	1131.0	1254.8	1326.0	1358.8
22.5°	954.1	914.8	859.1	801.3	755.6	813.8	984.3	1143.5	1285.5	1366.2	1406.7
25°	915.2	882.4	835.4	779.7	731.0	771.1	973.9	1164.7	1328.2	1420.5	1461.5
27.5°	877.3	849.7	806.9	761.6	717.2	734.0	967.5	1195.7	1379.1	1497.8	1533.2
30°	840.2	815.1	776.3	744.4	709.8	709.8	961.8	1231.5	1446.4	1584.5	1619.9
32.5°	802.6	778.9	747.4	727.5	705.5	700.3	946.3	1265.2	1515.9	1679.5	1715.7
35°	767.7	743.9	719.8	711.6	703.4	693.0	907.9	1291.5	1583.7	1790.4	1821.4
37.5°	734.9	712.0	693.9	691.7	692.6	673.2	847.5	1313.5	1668.2	1903.8	1920.2
40°	706.4	680.9	666.7	666.3	670.6	641.2	771.1	1345.0	1764.9	2000.1	1993.2
42.5°	680.9	654.2	636.9	640.8	638.2	609.3	696.5	1373.9	1849.0	2090.3	2076.4
45°	655.9	630.0	605.8	611.5	608.4	589.4	633.0	1395.1	1942.2	2198.6	2200.3
47.5°	631.7	606.3	582.1	575.2	574.8	583.4	584.3	1402.0	2094.1	2372.9	2333.6
50°	609.3	583.8	558.8	535.5	544.6	571.3	548.0	1396.8	2321.5	2565.4	2455.7
52.5°	586.0	561.8	534.2	492.4	516.1	542.4	515.7	1378.3	2460.5	2735.4	2669.8
55°	559.2	536.4	498.8	447.9	476.8	482.4	482.4	1198.7	2519.6	2903.7	2944.2
57.5°	523.4	493.2	433.7	392.7	418.6	397.0	447.0	838.9	2422.1	2850.6	3008.1
60°	482.9	450.5	387.5	358.2	365.9	328.0	381.0	526.0	2007.4	2425.5	2698.3
62.5°	429.4	399.6	347.4	324.5	308.5	267.5	306.8	332.7	1376.1	1801.1	1987.1
65°	393.5	360.7	314.1	283.9	251.1	215.3	203.7	218.3	740.0	1008.0	1133.6
67.5°	351.3	318.9	274.9	236.9	210.6	184.7	164.4	159.2	253.7	335.7	363.3
70°	311.1	280.1	243.4	208.0	181.7	156.2	136.4	122.1	117.4	116.5	114.8
72.5°	270.1	241.2	210.6	177.8	148.9	125.6	107.9	91.5	84.6	82.4	80.3
75°	221.4	198.5	167.9	132.5	109.2	87.6	73.8	63.0	57.0	54.8	52.2
77.5°	142.4	132.0	105.3	85.4	66.0	52.2	44.9	38.0	34.1	33.2	31.1
80°	75.9	70.8	58.3	49.2	39.3	31.9	28.0	24.2	22.0	21.1	20.3
82.5°	42.3	38.4	32.4	28.5	22.9	19.4	17.3	15.5	14.2	13.8	13.4
85°	19.0	16.4	12.9	12.1	10.8	9.9	9.5	8.6	8.2	7.8	7.3
87.5°	0.9	1.7	2.2	1.7	1.7	2.6	3.0	3.0	2.6	2.6	2.2
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0	945.0
2.5°	1008.4	1021.4	1022.7	1027.0	1021.4	1020.1	1011.0	1005.9	1001.1	999.8
5°	1087.0	1112.9	1123.2	1130.6	1123.7	1120.2	1100.4	1079.6	1068.0	1062.4
7.5°	1167.7	1206.5	1226.8	1235.9	1236.7	1221.2	1187.1	1148.3	1128.8	1121.5
10°	1239.7	1287.6	1314.4	1331.7	1325.6	1306.6	1260.0	1207.4	1182.8	1176.3
12.5°	1293.2	1339.0	1359.7	1370.9	1370.5	1360.1	1316.1	1259.2	1231.1	1224.6
15°	1327.8	1355.0	1356.2	1358.8	1366.2	1380.0	1357.1	1304.5	1273.4	1264.3
17.5°	1355.0	1344.2	1323.9	1317.0	1333.4	1371.8	1385.6	1342.9	1309.2	1301.4
20°	1372.2	1317.8	1282.0	1268.7	1287.6	1350.2	1402.9	1377.4	1342.4	1332.5
22.5°	1385.6	1293.2	1235.4	1226.4	1246.2	1326.9	1420.5	1418.4	1380.0	1366.2
25°	1406.7	1276.8	1202.6	1196.2	1214.7	1315.7	1444.3	1474.1	1440.0	1420.1
27.5°	1440.0	1275.1	1185.8	1183.6	1209.1	1325.6	1478.4	1555.6	1512.9	1498.2
30°	1486.1	1291.5	1189.7	1194.0	1225.1	1361.4	1531.4	1648.8	1606.1	1583.2
32.5°	1552.6	1335.5	1248.8	1267.4	1290.2	1418.8	1609.1	1749.8	1717.4	1683.8
35°	1640.2	1456.4	1423.6	1502.5	1481.0	1544.4	1702.8	1872.3	1833.1	1803.7
37.5°	1757.1	1704.0	1734.3	1843.0	1790.8	1781.7	1817.1	1983.7	1962.1	1932.8
40°	1921.1	1931.9	1987.6	2130.4	2054.9	1996.6	1957.3	2067.4	2074.7	2038.5
42.5°	2029.8	2079.5	2213.7	2375.9	2271.9	2132.5	2074.7	2174.4	2174.8	2142.0
45°	2070.4	2200.3	2480.8	2667.6	2493.7	2210.2	2139.4	2319.8	2315.5	2278.0
47.5°	2055.7	2302.1	2758.2	3043.9	2778.5	2265.4	2130.4	2526.9	2561.9	2504.9
50°	2025.1	2404.4	3082.3	3504.8	3128.0	2324.1	2116.6	2756.5	2814.3	2770.3
52.5°	2056.2	2518.3	3465.5	3981.1	3566.5	2417.8	2209.8	3051.2	3040.9	2987.8
55°	2154.5	2652.9	3931.1	4579.7	4048.0	2576.1	2449.3	3332.2	3226.9	3163.4
57.5°	2149.8	2749.2	4339.3	5053.0	4467.0	2706.0	2532.6	3361.9	3149.2	3068.9
60°	1951.3	2705.2	4494.6	5352.5	4593.5	2634.4	2258.5	3002.9	2657.3	2573.1
62.5°	1456.4	2400.5	4193.5	4977.5	4235.7	2275.4	1698.4	2155.4	1909.4	1767.5
65°	931.6	1877.9	3525.5	4032.5	3491.4	1740.3	1011.5	1155.6	905.3	864.8
67.5°	396.6	1325.6	2740.5	2695.2	2612.0	1127.5	390.5	325.4	242.5	238.2
70°	131.2	901.9	1689.4	1797.7	1559.9	776.7	129.0	109.2	108.7	104.9
72.5°	85.9	484.2	951.1	1058.9	1003.7	447.0	78.1	72.9	74.7	72.9
75°	51.4	105.3	160.1	208.0	160.1	75.1	47.0	46.2	47.0	44.9
77.5°	30.2	29.3	28.5	28.5	28.0	25.9	23.7	22.9	23.3	23.7
80°	19.4	18.6	17.7	17.3	15.1	14.2	13.4	12.5	12.5	12.9
82.5°	12.5	11.7	10.8	9.5	7.8	6.5	6.0	5.2	5.2	5.6
85°	6.5	5.2	3.9	3.0	1.7	0.9	0.0	0.0	0.0	0.0
87.5°	1.3	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

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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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

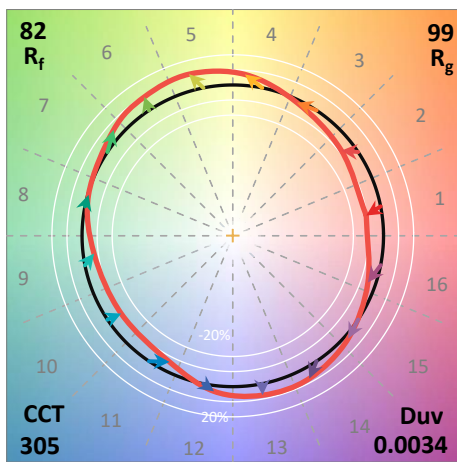
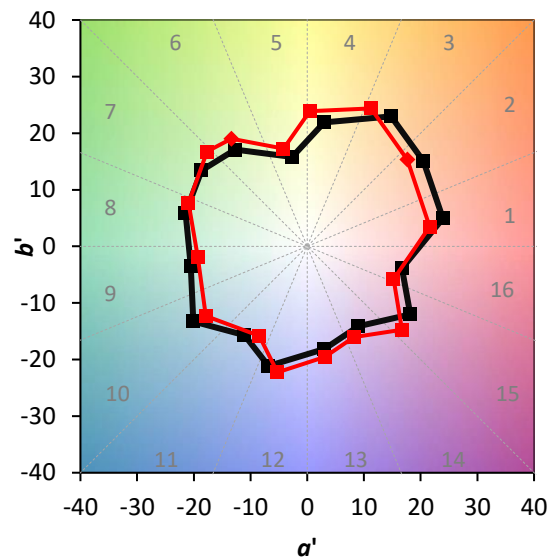
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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**

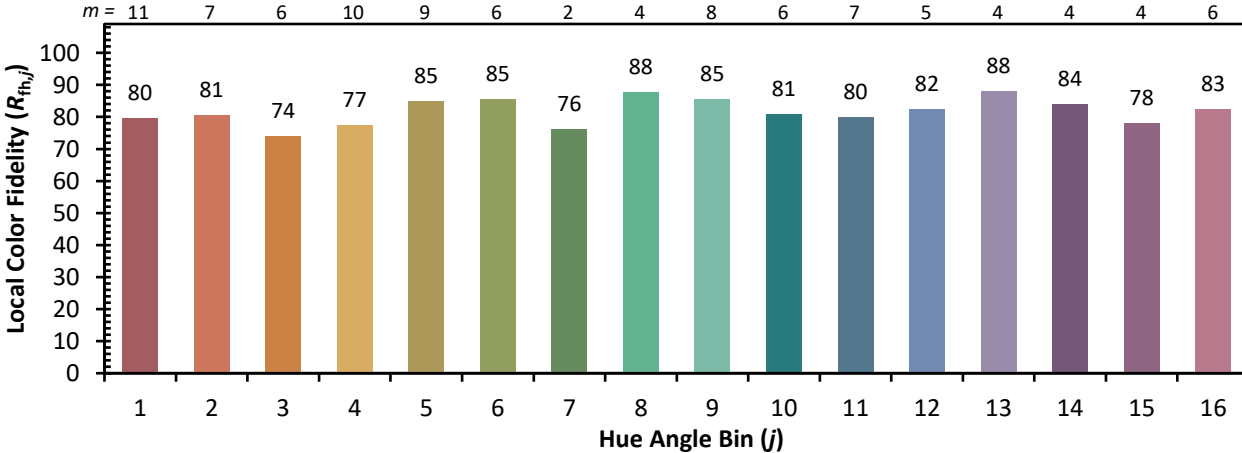


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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)