

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P324335

Luminaire Tested: **GLEON-SA1D-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4786 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

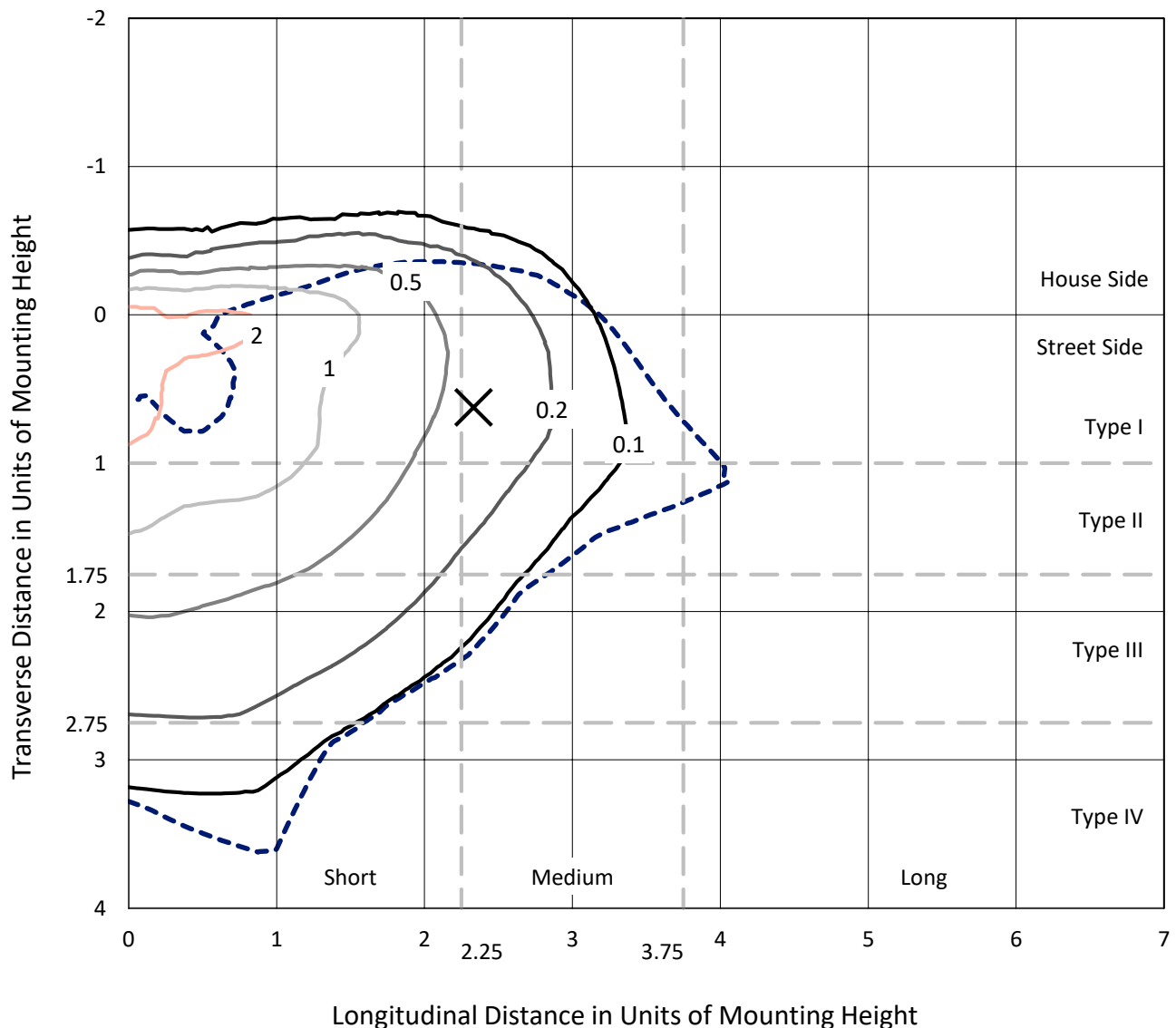
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

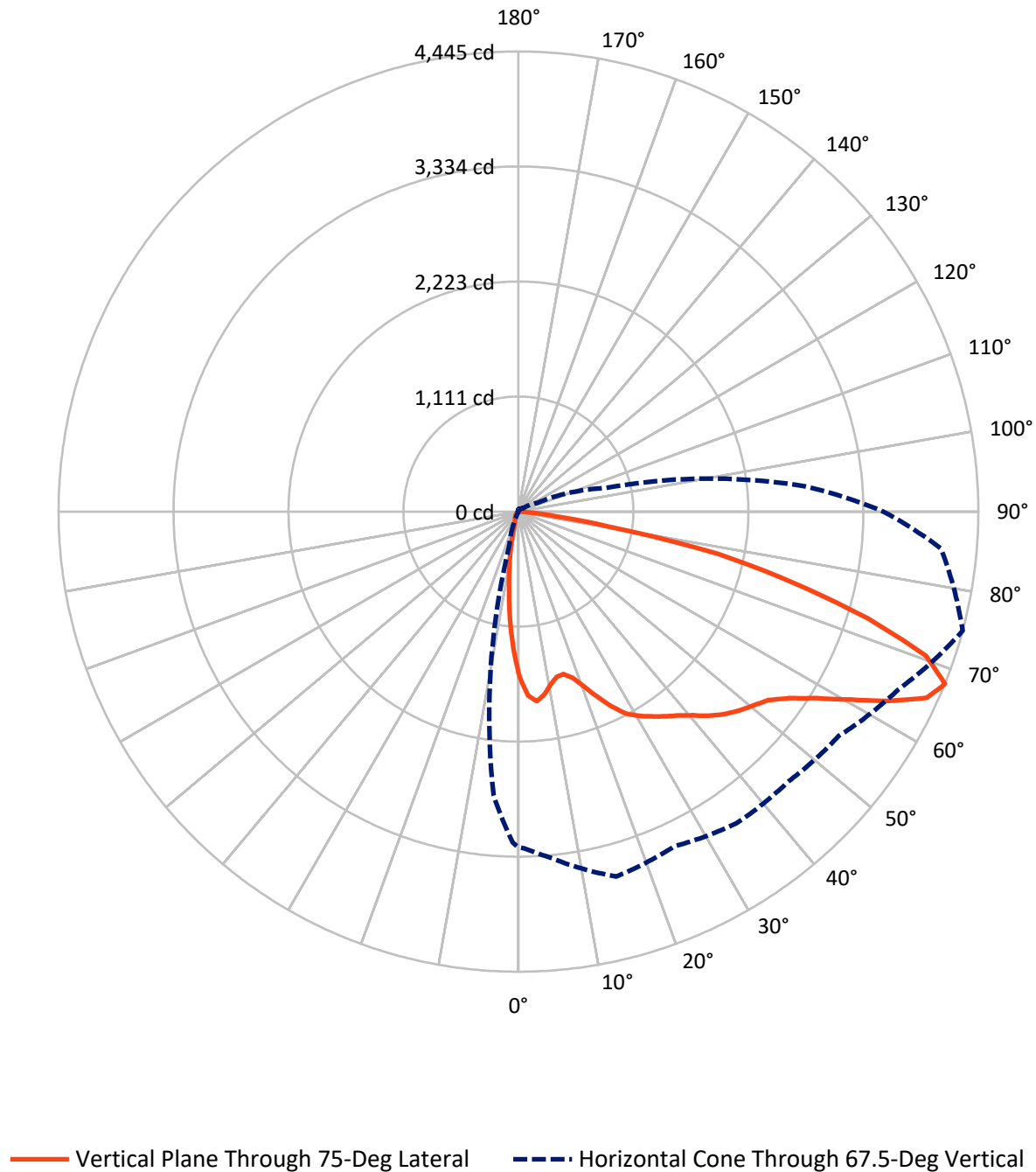
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.2	0.0	718.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4067.8	0.0	4067.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	4786.0	0.0	4786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	2.5
10°-20°	239.8	5.0
20°-30°	339.3	7.1
30°-40°	498.8	10.4
40°-50°	717.0	15.0
50°-60°	1009.3	21.1
60°-70°	1178.8	24.6
70°-80°	601.4	12.6
80°-90°	79.9	1.7
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°	4786.0	100.0
0°-180°	4786.0	100.0

Coefficient of Utilization



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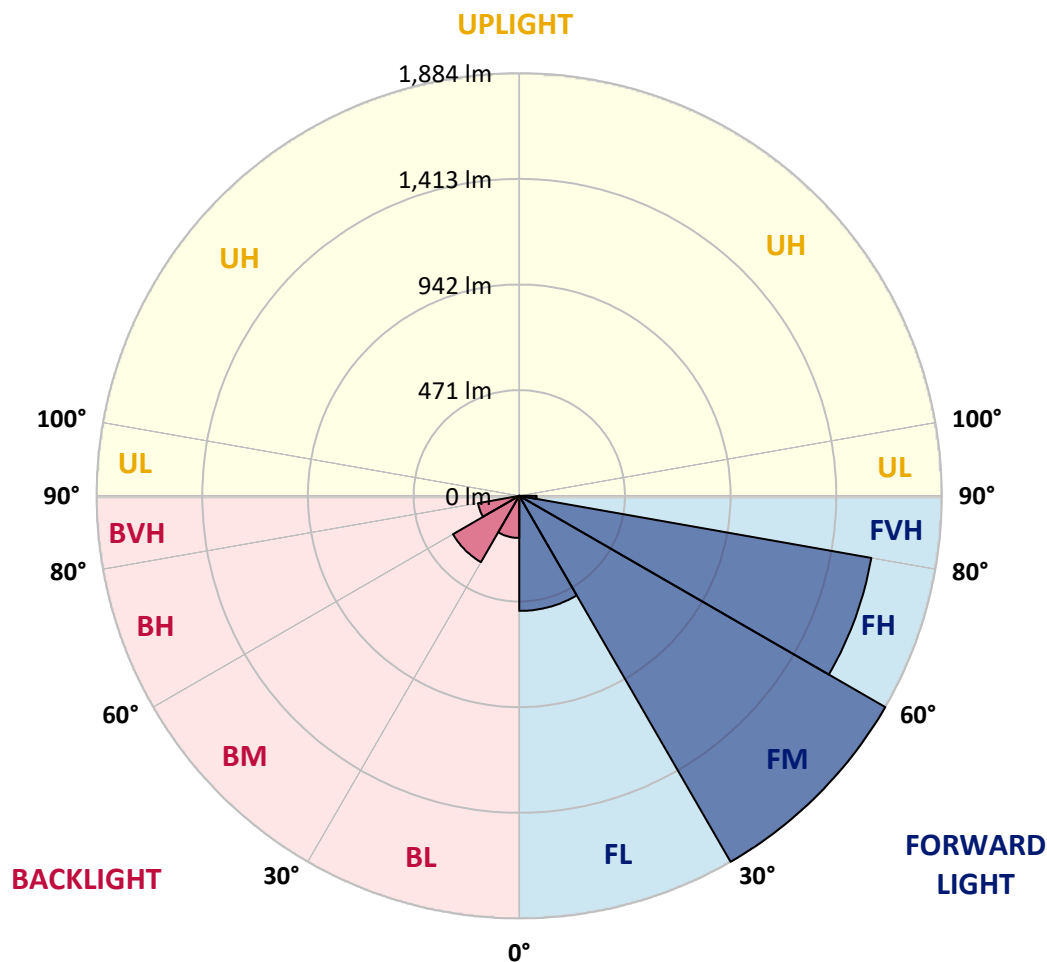
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.1	10.7			
FM	(30°-60°)	1883.7	39.4			
FH	(60°-80°)	1593.6	33.3			G1/1800
FVH	(80°-90°)	77.5	1.6			G1/100
BL	(0°-30°)	187.8	3.9	B1/500		
BM	(30°-60°)	341.4	7.1	B1/1000		
BH	(60°-80°)	186.5	3.9	B1/500		G1/500
BVH	(80°-90°)	2.4	0.1			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1740.5	1743.2	1757.3	1789.9	1825.5	1828.3	1852.3	1827.6	1819.2	1779.3	1738.0
5°	1753.7	1764.1	1812.4	1908.3	1991.5	2018.2	2037.3	1988.8	1937.8	1840.3	1736.2
7.5°	1647.8	1665.2	1741.2	1921.2	2069.9	2135.7	2148.2	2072.2	1947.3	1786.8	1630.3
10°	1512.2	1532.2	1623.8	1845.0	2049.3	2162.0	2179.2	2079.7	1900.1	1700.2	1515.8
12.5°	1402.5	1425.8	1519.5	1759.3	1978.3	2103.0	2137.0	2054.5	1859.3	1638.7	1437.6
15°	1351.9	1378.7	1477.1	1704.0	1899.7	1997.8	2026.0	1990.4	1836.6	1629.0	1419.5
17.5°	1380.9	1410.0	1511.5	1708.8	1825.8	1867.7	1890.4	1904.9	1836.6	1687.7	1472.5
20°	1500.0	1531.3	1638.7	1757.1	1764.6	1748.9	1773.2	1824.2	1858.0	1799.2	1600.0
22.5°	1664.6	1701.3	1822.6	1839.8	1734.6	1675.5	1678.6	1758.7	1896.7	1940.7	1776.8
25°	1865.2	1910.1	2033.4	1963.2	1747.1	1631.7	1630.6	1704.7	1934.6	2082.4	1973.8
27.5°	2064.5	2113.9	2222.3	2113.7	1798.6	1623.8	1621.5	1688.4	1971.5	2208.5	2189.0
30°	2231.6	2279.7	2373.1	2222.7	1854.1	1642.3	1631.5	1705.8	1993.5	2290.3	2345.9
32.5°	2367.6	2406.2	2481.7	2297.8	1913.5	1678.4	1654.8	1752.5	2030.9	2359.5	2490.1
35°	2517.3	2557.8	2588.0	2369.2	1980.2	1730.3	1696.5	1826.7	2088.5	2429.7	2648.1
37.5°	2688.0	2728.3	2724.7	2434.5	2064.7	1816.2	1794.7	1944.1	2178.1	2499.3	2824.5
40°	2855.1	2896.3	2866.9	2505.9	2164.0	1957.9	1942.1	2120.5	2298.0	2588.4	3031.2
42.5°	3011.5	3056.2	2993.1	2573.5	2282.4	2136.6	2163.8	2347.7	2448.1	2698.2	3209.4
45°	3137.6	3183.1	3099.0	2639.2	2407.1	2353.3	2435.2	2599.3	2628.6	2790.9	3329.8
47.5°	3229.2	3272.2	3172.5	2705.0	2566.7	2618.4	2761.0	2863.2	2791.6	2871.4	3415.3
50°	3287.6	3321.2	3194.0	2787.3	2776.2	2927.6	3100.4	3150.3	2945.1	2943.9	3519.1
52.5°	3324.8	3340.0	3209.9	2873.2	2994.7	3264.3	3432.7	3448.4	3103.1	3023.7	3659.0
55°	3452.9	3465.2	3322.3	2977.3	3175.4	3559.3	3733.4	3718.9	3282.0	3180.0	3824.1
57.5°	3671.5	3684.4	3554.7	3126.9	3321.7	3741.5	3951.3	3977.3	3491.7	3399.4	4000.9
60°	3781.2	3805.2	3759.0	3316.4	3463.4	3858.1	4099.8	4183.0	3753.8	3688.7	4172.3
62.5°	3681.7	3716.6	3783.7	3526.6	3604.1	3922.2	4146.0	4256.6	4022.2	4025.8	4278.0
65°	3483.1	3511.0	3624.8	3641.8	3685.8	3914.3	4031.7	4153.7	4186.6	4335.5	4272.3
67.5°	3243.2	3253.6	3350.2	3650.8	3567.4	3675.8	3688.5	3778.7	4056.7	4445.3	4100.7
70°	2897.9	2903.6	2987.9	3347.3	3065.7	3089.5	3070.7	3089.0	3487.6	4178.0	3667.4
72.5°	2332.3	2346.5	2466.5	2779.8	2233.4	2164.7	2312.5	2304.4	2685.9	3529.8	2723.8
75°	1717.2	1741.9	1923.0	2239.1	1567.5	1417.9	1525.8	1554.6	1909.4	2730.4	1703.3
77.5°	1202.3	1220.7	1396.1	1646.0	1134.5	1013.9	974.9	1009.1	1260.3	1975.2	858.1
80°	692.6	699.4	811.4	950.4	764.5	874.7	792.4	816.0	755.2	878.8	369.1
82.5°	453.2	454.3	498.1	565.7	476.1	553.2	409.5	523.5	464.5	353.0	120.2
85°	244.9	246.2	288.8	401.5	269.6	152.4	89.6	183.9	287.3	80.9	32.9
87.5°	27.0	24.7	87.1	146.0	74.8	13.8	4.8	20.6	46.0	5.2	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°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1716.9	1698.1	1651.2	1601.5	1561.6	1524.2	1486.6	1440.6	1405.0	1397.7	1385.9
5°	1680.2	1620.6	1522.2	1423.3	1343.8	1243.3	1179.6	1130.0	1081.4	1078.5	1068.8
7.5°	1551.9	1473.4	1334.9	1198.2	1086.2	990.5	894.0	829.3	778.6	760.6	750.0
10°	1428.6	1340.4	1167.4	1011.4	911.4	826.8	758.8	691.3	630.1	587.9	568.8
12.5°	1342.4	1244.9	1054.2	919.8	848.2	767.9	684.9	600.6	530.1	479.3	448.2
15°	1309.1	1205.0	1016.4	883.5	795.1	693.5	587.4	491.1	412.9	366.8	338.9
17.5°	1348.7	1227.7	1013.4	839.3	715.8	589.5	472.3	358.4	284.8	249.8	231.9
20°	1449.4	1299.8	1012.3	785.1	621.4	466.1	319.9	235.8	191.1	171.6	163.2
22.5°	1591.8	1391.8	1021.4	731.6	523.3	333.0	220.8	173.2	150.3	139.9	135.1
25°	1775.0	1521.1	1047.0	683.1	431.0	248.5	172.1	145.1	129.0	120.8	117.4
27.5°	1970.2	1669.8	1086.9	640.9	355.9	198.2	147.4	124.2	112.7	107.0	103.8
30°	2131.2	1842.1	1127.2	594.0	301.5	172.8	134.9	113.4	100.0	96.4	93.4
32.5°	2271.9	1972.5	1155.8	551.6	265.9	153.5	122.0	101.3	92.3	85.2	82.1
35°	2417.7	2081.1	1154.9	521.9	241.5	139.0	111.1	90.7	79.8	71.6	69.1
37.5°	2575.5	2203.7	1135.2	496.5	230.8	127.4	105.0	85.0	74.1	66.0	62.8
40°	2760.3	2332.5	1115.0	472.7	227.9	118.1	100.7	80.5	68.9	61.0	57.8
42.5°	2940.3	2448.6	1097.3	455.0	215.2	117.9	96.8	77.1	64.8	57.1	53.5
45°	3084.3	2556.7	1093.9	444.4	201.8	122.0	94.8	74.8	61.7	54.0	50.6
47.5°	3204.0	2674.1	1115.7	436.9	189.1	111.3	99.8	73.2	58.7	51.2	47.4
50°	3346.4	2818.3	1166.9	424.6	175.7	100.2	114.3	73.7	56.2	48.5	44.4
52.5°	3545.0	3017.9	1242.2	404.0	157.3	90.0	112.5	74.1	53.5	45.6	41.5
55°	3767.6	3267.0	1323.1	369.8	131.7	76.6	96.4	71.0	48.3	42.4	38.5
57.5°	4001.6	3493.1	1371.2	329.0	104.7	66.2	77.1	64.6	42.6	38.1	35.6
60°	4038.3	3579.0	1349.2	278.9	83.2	57.6	57.1	65.7	38.1	33.6	31.7
62.5°	3946.9	3471.1	1242.9	234.2	69.6	50.6	46.9	57.4	34.5	29.9	28.1
65°	3771.2	3179.3	1070.6	211.1	64.6	43.3	39.0	40.4	30.2	26.1	24.5
67.5°	3526.8	2789.8	879.0	197.9	63.9	37.2	33.3	30.6	26.1	22.7	21.3
70°	3027.1	2324.1	701.2	190.7	62.1	31.3	28.1	24.9	21.8	19.3	18.1
72.5°	2228.0	1646.9	545.5	182.7	62.6	24.9	24.5	20.6	17.5	15.0	14.5
75°	1287.3	940.9	357.8	148.0	59.6	19.3	20.4	14.5	12.2	10.4	10.4
77.5°	686.1	573.8	136.3	61.7	21.8	12.2	11.6	8.6	7.7	6.3	6.1
80°	299.0	252.6	41.0	17.2	12.0	6.6	4.3	3.9	3.4	2.7	2.5
82.5°	105.9	91.4	13.4	8.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.0	17.2	0.0	2.0	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°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1361.9	1356.9	1327.4	1328.6	1333.8	1341.3	1323.6	1331.7	1353.7	1374.8	1382.8
5°	1053.1	1054.2	1036.3	1047.4	1057.4	1064.2	1035.7	1036.1	1053.6	1077.4	1089.8
7.5°	742.0	740.2	741.1	767.7	786.5	772.9	783.5	746.6	748.9	765.9	753.2
10°	551.6	526.7	512.6	532.6	553.2	545.7	527.3	515.3	523.7	542.5	541.2
12.5°	433.5	397.7	376.6	362.3	379.3	365.2	364.8	354.4	343.0	345.1	375.2
15°	326.0	299.9	275.0	252.1	251.7	246.9	222.6	195.4	193.2	194.5	210.2
17.5°	224.2	215.4	205.2	185.5	180.2	160.3	136.7	125.8	120.4	122.9	128.1
20°	157.6	154.2	155.3	144.6	137.2	118.1	104.3	100.0	99.1	101.6	104.1
22.5°	130.6	124.5	123.8	119.0	111.5	97.7	90.2	87.7	86.6	88.9	90.7
25°	114.3	108.1	105.7	102.7	94.8	85.2	80.7	78.4	77.3	78.7	79.8
27.5°	100.7	95.0	92.7	90.7	83.0	76.2	72.5	70.5	69.6	70.1	71.2
30°	90.5	85.5	82.5	80.0	73.5	68.7	65.5	63.5	62.6	62.6	63.7
32.5°	79.8	77.1	74.4	71.2	65.1	61.9	58.7	56.5	55.5	55.8	56.7
35°	66.4	65.5	66.2	63.3	58.0	55.3	52.1	49.7	49.0	49.2	50.1
37.5°	58.9	54.9	57.4	55.8	52.8	49.2	45.1	42.8	41.7	42.4	42.8
40°	54.2	49.2	47.4	49.0	48.5	42.6	39.0	36.7	35.8	36.0	36.5
42.5°	50.1	44.2	40.1	39.9	42.6	37.2	33.3	31.3	30.2	30.2	30.6
45°	46.3	39.9	34.9	31.1	35.8	31.5	27.9	26.1	24.7	24.7	24.9
47.5°	43.3	36.3	30.4	25.4	27.0	25.8	22.9	21.1	19.7	19.7	20.0
50°	40.6	32.6	26.3	21.3	20.2	21.3	18.6	16.6	15.6	15.4	15.9
52.5°	37.6	29.0	22.4	18.1	15.9	16.1	14.5	13.1	12.0	12.0	12.5
55°	34.7	26.1	19.5	15.4	13.1	12.0	11.6	10.7	9.7	9.7	10.2
57.5°	31.7	22.9	16.6	12.7	10.4	9.5	9.5	8.8	8.2	8.2	8.6
60°	29.0	19.7	13.6	10.4	8.2	7.9	8.2	7.5	7.0	7.0	7.5
62.5°	25.8	16.8	11.1	8.6	6.6	6.3	7.0	6.6	6.1	6.1	6.6
65°	22.0	14.3	8.8	6.6	5.0	5.0	5.9	5.4	5.0	5.0	5.4
67.5°	18.6	12.0	6.8	4.8	3.6	3.9	5.0	4.5	4.3	4.3	4.8
70°	15.4	9.3	4.8	2.9	2.0	2.9	3.9	3.9	3.9	3.9	4.3
72.5°	11.6	6.3	2.7	1.1	0.9	2.0	3.2	3.6	3.4	3.4	4.1
75°	7.5	3.6	0.9	0.0	0.0	1.1	2.5	2.9	2.9	2.7	3.4
77.5°	4.3	1.1	0.0	0.0	0.0	0.0	1.6	1.4	1.1	0.9	1.6
80°	1.1	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1414.7	1441.5	1479.1	1519.0	1580.5	1629.2	1677.0	1718.1	1733.9	1740.5
5°	1119.8	1159.0	1214.1	1284.8	1395.7	1495.4	1596.6	1698.3	1742.6	1753.7
7.5°	803.5	853.6	923.7	1012.3	1142.2	1271.4	1412.7	1562.1	1630.6	1647.8
10°	594.7	655.9	736.2	829.6	953.6	1086.4	1240.4	1411.1	1489.3	1512.2
12.5°	421.9	504.7	612.1	725.7	833.2	951.8	1107.5	1295.7	1377.8	1402.5
15°	247.8	327.8	455.0	607.2	744.8	864.9	1023.2	1236.5	1327.0	1351.9
17.5°	142.2	182.1	278.2	447.8	634.6	801.0	996.7	1251.3	1357.8	1380.9
20°	108.6	121.3	160.3	288.4	505.8	738.2	996.7	1334.7	1466.0	1500.0
22.5°	95.0	104.3	120.2	172.1	372.3	670.9	1008.2	1455.3	1626.9	1664.6
25°	84.3	92.7	106.3	129.5	253.9	590.8	1035.7	1603.4	1816.5	1865.2
27.5°	75.5	83.4	95.7	113.4	173.7	494.2	1072.6	1777.0	2025.5	2064.5
30°	67.6	75.0	86.2	98.6	134.0	384.7	1104.1	1940.7	2189.6	2231.6
32.5°	60.1	66.9	76.9	86.2	109.7	284.5	1107.5	2070.4	2325.9	2367.6
35°	53.1	59.2	68.2	75.5	90.9	224.7	1054.7	2182.8	2462.2	2517.3
37.5°	46.3	52.1	60.1	65.5	80.0	183.2	974.0	2308.2	2637.0	2688.0
40°	39.9	45.1	53.3	56.9	75.7	140.8	886.2	2439.7	2808.4	2855.1
42.5°	34.0	39.0	46.9	54.0	66.4	105.2	791.5	2563.1	2962.5	3011.5
45°	28.3	33.6	41.5	57.1	55.1	78.7	690.1	2644.9	3084.3	3137.6
47.5°	22.9	28.8	39.7	54.4	44.0	57.8	609.9	2722.4	3176.6	3229.2
50°	18.4	24.3	44.7	48.5	36.0	44.2	576.3	2791.8	3237.1	3287.6
52.5°	15.0	20.4	42.2	37.2	30.2	36.5	594.5	2904.3	3293.1	3324.8
55°	12.5	16.1	25.4	25.8	25.6	31.1	616.9	3065.7	3438.0	3452.9
57.5°	10.9	12.9	17.7	20.0	21.5	27.7	617.4	3297.4	3662.2	3671.5
60°	9.3	11.3	14.7	16.1	18.6	24.7	594.9	3378.3	3750.4	3781.2
62.5°	8.2	10.0	12.2	13.4	15.6	22.2	542.3	3261.1	3629.3	3681.7
65°	7.3	9.1	10.2	11.3	13.8	20.0	455.7	3026.7	3428.4	3483.1
67.5°	6.3	7.9	9.1	10.2	12.5	17.7	335.5	2754.4	3197.9	3243.2
70°	5.7	7.0	8.2	9.1	10.9	15.0	203.6	2337.2	2879.1	2897.9
72.5°	5.4	6.3	7.5	8.2	9.5	13.1	103.2	1717.6	2301.6	2332.3
75°	4.8	5.7	6.8	7.3	8.4	11.3	41.9	1128.2	1668.0	1717.2
77.5°	3.9	5.2	6.1	6.6	7.3	9.3	21.3	721.0	1170.5	1202.3
80°	1.4	3.9	5.2	5.4	6.1	6.8	14.1	394.7	679.0	692.6
82.5°	0.0	2.5	4.1	3.9	4.3	5.2	9.1	187.7	448.2	453.2
85°	0.0	1.1	3.2	2.5	1.8	3.6	3.2	41.0	235.1	244.9
87.5°	0.0	0.0	0.2	1.1	0.9	1.4	0.5	0.2	21.3	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

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

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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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

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

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TM-30-18

Summary

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

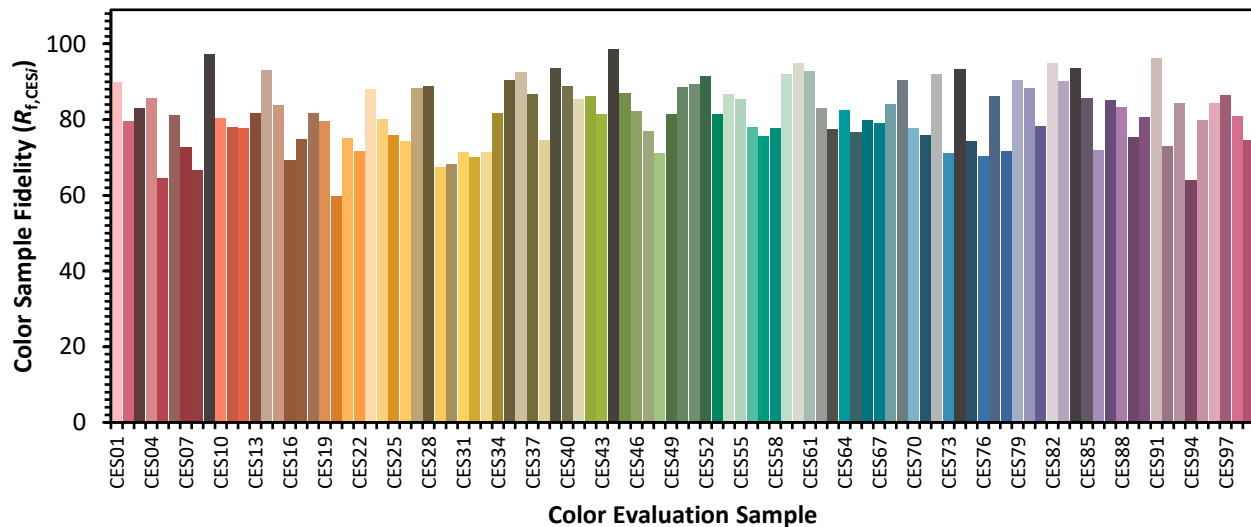


Color Vector Graphics



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)