

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 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: P438793

Luminaire Tested: **IST-SA1E-830-U-SLL-HSS**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-SA1E-830-U-SLL-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4251 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

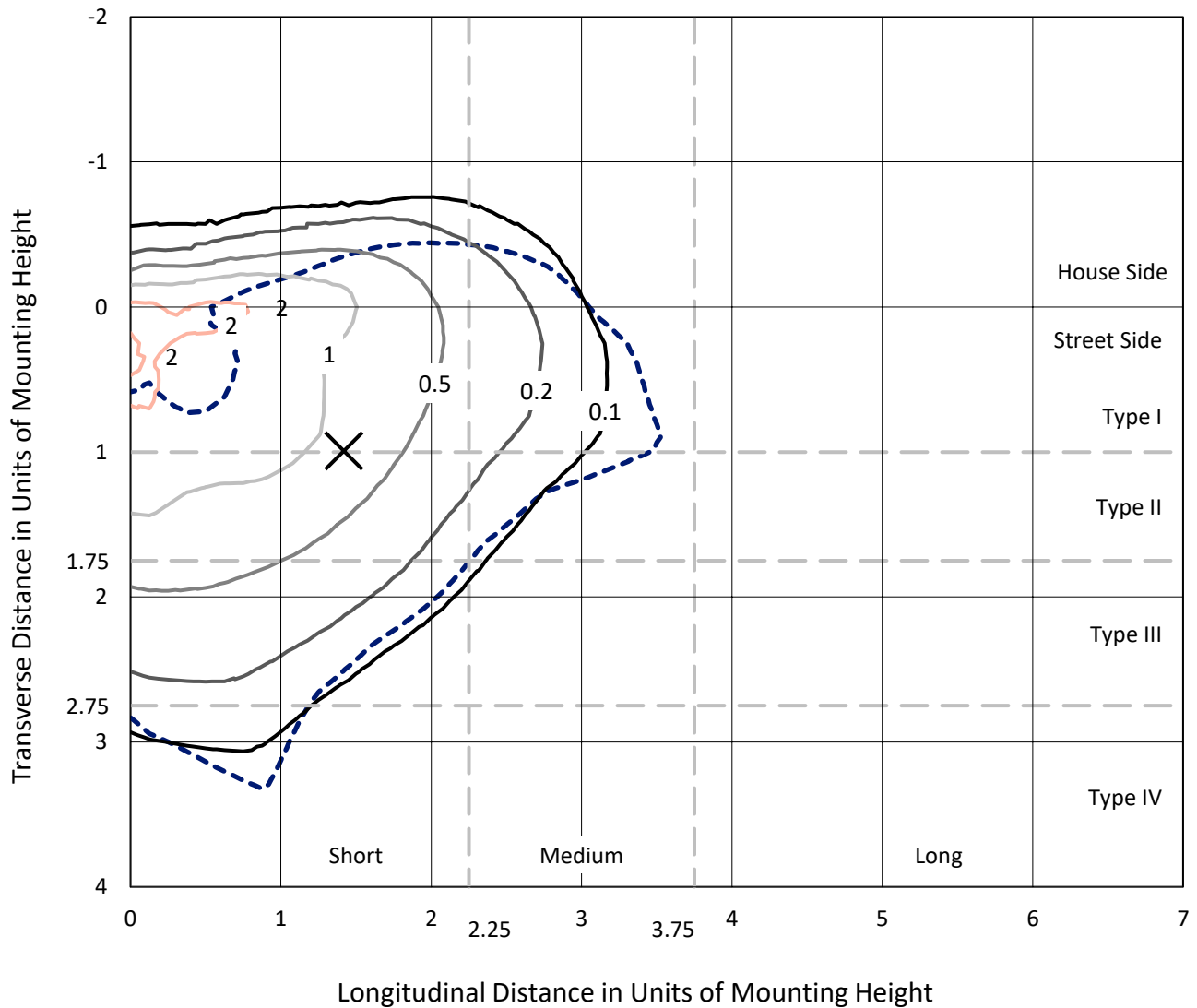
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

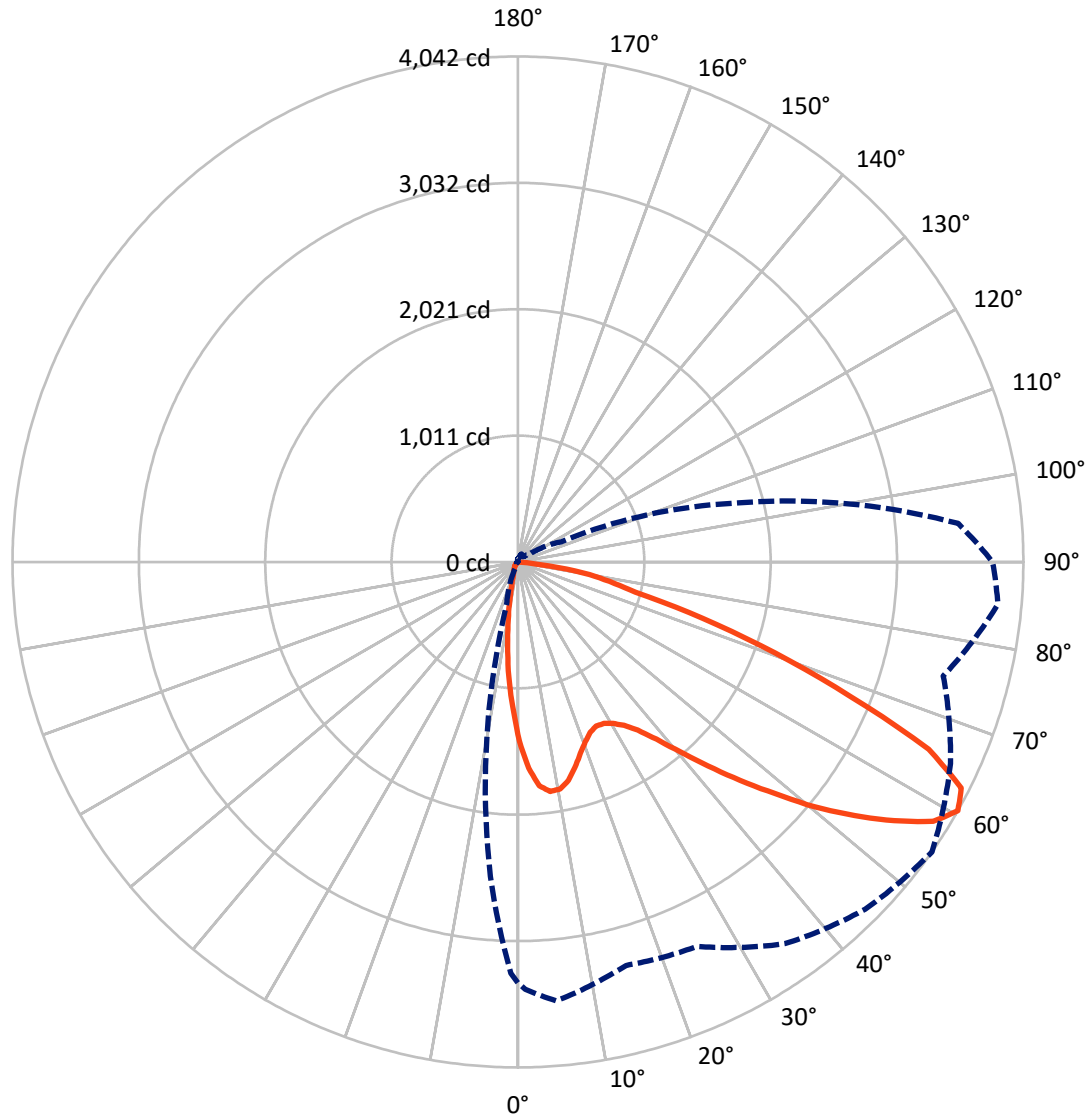
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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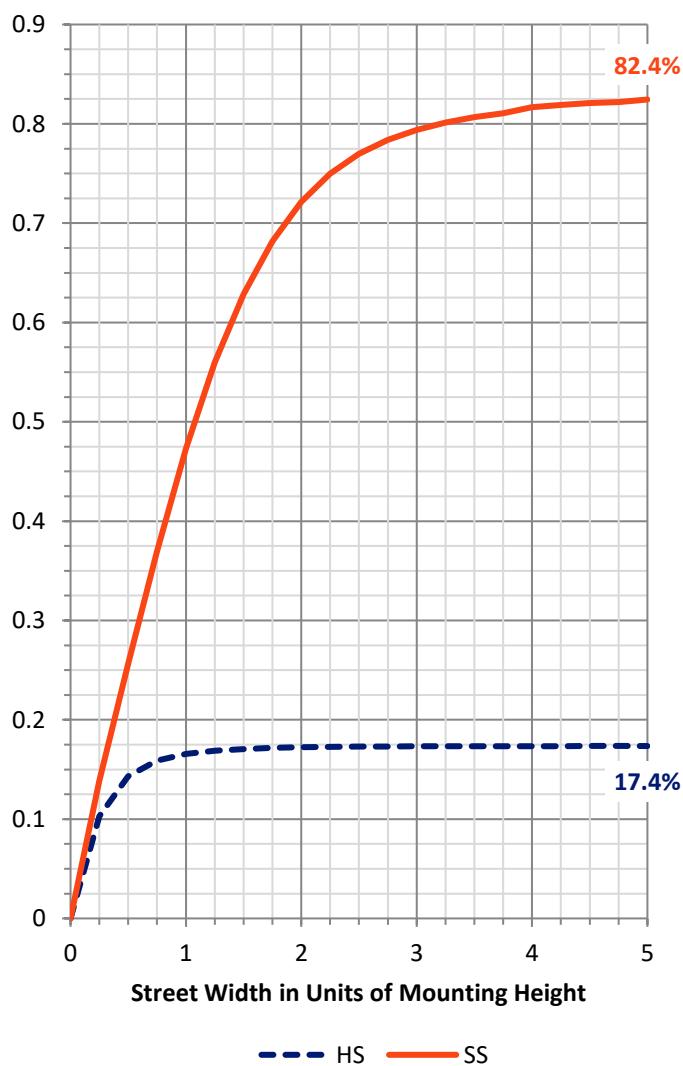
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.7	0.0	744.7
	% Fixture	17.5	0.0	17.5
Street Side	Lumens	3506.4	0.0	3506.4
	% Fixture	82.5	0.0	82.5
Total	Lumens	4251.0	0.0	4251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.5
10°-20°	209.3	4.9
20°-30°	307.8	7.2
30°-40°	460.2	10.8
40°-50°	680.9	16.0
50°-60°	978.7	23.0
60°-70°	1049.1	24.7
70°-80°	423.8	10.0
80°-90°	34.3	0.8
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°	4251.0	100.0
0°-180°	4251.0	100.0

Coefficient of Utilization



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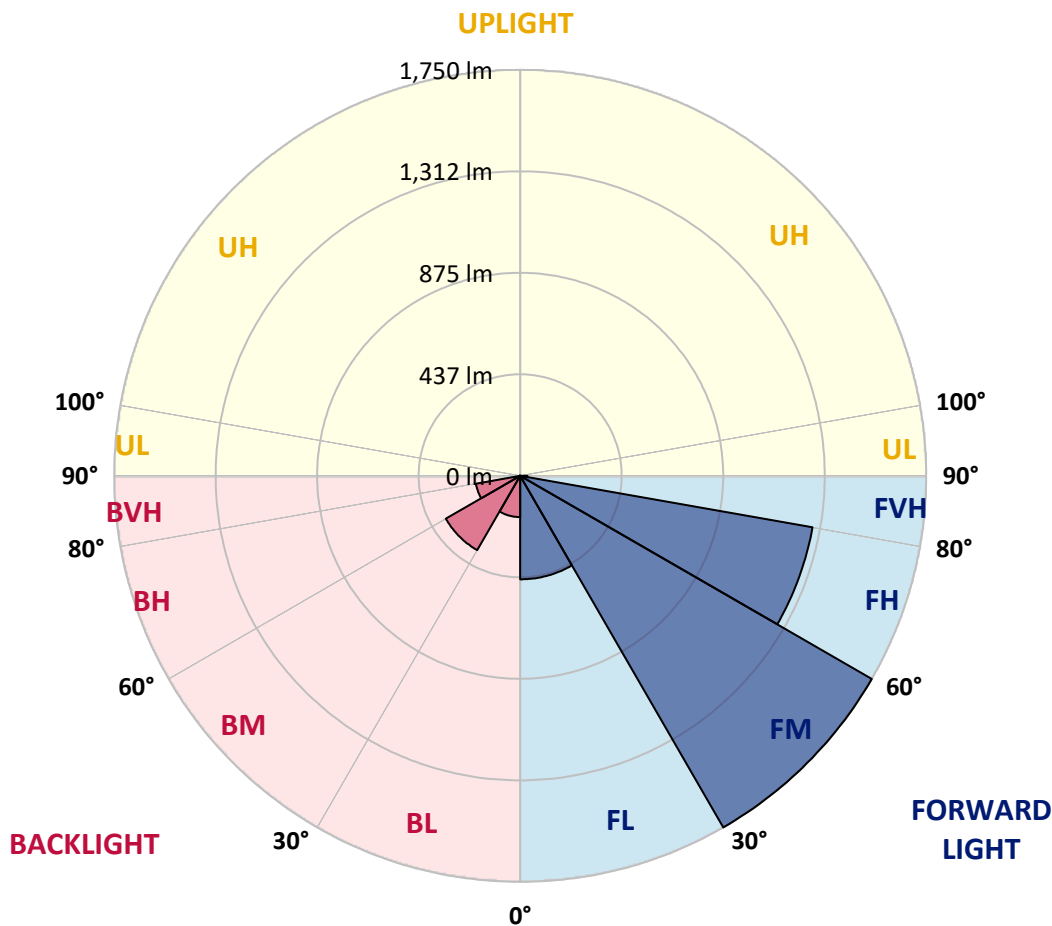
CATALOG NUMBER: IST-SA1E-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.1	10.5			
FM (30°-60°)	1749.8	41.2			
FH (60°-80°)	1279.2	30.1			G1/1800
FVH (80°-90°)	31.2	0.7			G1/100
BL (0°-30°)	177.9	4.2	B1/500		
BM (30°-60°)	370.0	8.7	B1/1000		
BH (60°-80°)	193.7	4.6	B1/500		G1/500
BVH (80°-90°)	3.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1541.0	1541.0	1553.4	1590.3	1631.3	1651.8	1674.4	1651.8	1647.7	1614.9	1590.3
5°	1493.8	1504.1	1543.1	1641.6	1746.2	1799.6	1828.3	1797.5	1742.1	1670.3	1580.0
7.5°	1387.1	1399.5	1444.6	1604.7	1748.3	1855.0	1906.3	1852.9	1758.6	1627.2	1495.9
10°	1272.2	1294.8	1354.3	1536.9	1703.1	1830.4	1902.2	1846.8	1729.8	1561.6	1399.5
12.5°	1196.3	1212.7	1292.8	1475.4	1653.9	1766.8	1805.7	1793.4	1686.7	1530.8	1360.5
15°	1184.0	1204.5	1288.6	1471.3	1606.7	1674.4	1688.8	1705.2	1668.3	1534.9	1372.8
17.5°	1237.3	1259.9	1354.3	1502.1	1563.6	1563.6	1578.0	1610.8	1645.7	1575.9	1446.7
20°	1346.1	1376.9	1481.5	1582.1	1541.0	1491.8	1493.8	1536.9	1631.3	1668.3	1578.0
22.5°	1491.8	1532.8	1660.1	1707.3	1565.7	1452.8	1442.5	1479.5	1633.4	1762.7	1758.6
25°	1684.7	1733.9	1857.0	1855.0	1625.2	1436.4	1426.1	1452.8	1651.8	1865.3	1916.6
27.5°	1859.1	1900.1	2023.3	1972.0	1684.7	1456.9	1434.3	1463.1	1666.2	1941.2	2058.1
30°	2006.8	2041.7	2150.5	2056.1	1736.0	1491.8	1452.8	1497.9	1697.0	1982.2	2185.4
32.5°	2119.7	2171.0	2271.5	2121.8	1797.5	1536.9	1495.9	1557.5	1748.3	2035.6	2296.2
35°	2271.5	2298.2	2417.2	2187.4	1879.6	1633.4	1567.7	1649.8	1832.4	2105.3	2419.3
37.5°	2402.9	2472.6	2550.6	2255.1	1980.2	1752.4	1680.6	1797.5	1947.3	2185.4	2562.9
40°	2558.8	2638.9	2723.0	2351.6	2072.5	1908.3	1877.6	1992.5	2119.7	2302.3	2704.5
42.5°	2702.5	2776.3	2833.8	2464.4	2185.4	2084.8	2107.4	2228.5	2296.2	2423.4	2825.6
45°	2817.4	2883.0	2969.2	2542.4	2310.5	2281.8	2396.7	2491.1	2470.6	2528.0	2934.3
47.5°	2936.4	3016.4	3051.3	2624.5	2472.6	2540.4	2745.6	2766.1	2653.2	2624.5	3028.7
50°	3018.5	3078.0	3100.6	2725.0	2671.7	2881.0	3045.1	3080.0	2852.3	2700.4	3151.9
52.5°	3119.0	3176.5	3203.2	2844.1	2885.1	3186.7	3377.6	3369.4	3045.1	2825.6	3272.9
55°	3297.5	3350.9	3377.6	2989.7	3036.9	3449.4	3660.7	3652.5	3275.0	3006.2	3453.5
57.5°	3424.8	3469.9	3513.0	3153.9	3225.7	3617.7	3853.6	3915.2	3552.0	3233.9	3650.5
60°	3367.3	3418.6	3523.3	3340.6	3391.9	3726.4	3927.5	4042.4	3816.7	3521.2	3853.6
62.5°	3205.2	3281.1	3389.9	3488.4	3521.2	3744.9	3824.9	3978.8	3958.3	3810.5	3946.0
65°	3000.0	3078.0	3182.6	3508.9	3492.5	3469.9	3517.1	3609.4	3753.1	3950.1	3900.8
67.5°	2630.6	2743.5	2874.8	3268.8	3036.9	2907.7	2920.0	2868.7	3158.0	3749.0	3671.0
70°	2142.3	2257.2	2398.8	2772.2	2341.3	2171.0	2214.1	2181.3	2409.0	3217.5	3145.7
72.5°	1508.2	1631.3	1805.7	2310.5	1631.3	1356.4	1459.0	1545.1	1816.0	2581.4	2310.5
75°	999.3	1087.6	1212.7	1740.1	1163.5	911.1	933.7	968.5	1214.8	1951.4	1459.0
77.5°	517.1	605.3	660.7	931.6	720.2	718.2	701.8	746.9	759.2	1171.7	761.3
80°	289.3	318.1	346.8	453.5	361.1	426.8	441.2	539.7	500.7	586.9	318.1
82.5°	141.6	178.5	194.9	279.1	231.9	170.3	84.1	176.5	297.5	318.1	147.7
85°	2.1	4.1	10.3	22.6	6.2	6.2	0.0	6.2	30.8	39.0	51.3
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°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1563.6	1547.2	1500.0	1459.0	1395.4	1368.7	1325.6	1315.3	1280.4	1245.6	1225.0
5°	1534.9	1487.7	1391.2	1296.9	1210.7	1130.6	1071.1	1021.9	966.5	943.9	958.3
7.5°	1420.0	1354.3	1214.8	1104.0	980.8	888.5	804.4	761.3	710.0	689.5	675.1
10°	1325.6	1245.6	1085.5	939.8	822.8	751.0	699.7	638.2	578.7	531.5	525.3
12.5°	1266.1	1179.9	1001.4	847.5	761.3	691.5	632.0	552.0	484.3	439.1	418.6
15°	1264.0	1157.3	974.7	812.6	712.0	623.8	547.9	457.6	387.8	330.4	309.8
17.5°	1337.9	1208.6	987.0	775.7	642.3	527.4	428.9	334.5	266.8	227.8	207.3
20°	1467.2	1325.6	1009.6	738.7	574.6	428.9	301.6	227.8	182.6	164.2	156.0
22.5°	1623.1	1454.9	1050.6	710.0	504.8	324.2	213.4	164.2	143.6	131.3	129.3
25°	1811.9	1619.0	1108.1	689.5	441.2	250.3	166.2	135.4	123.1	114.9	110.8
27.5°	1978.1	1777.0	1194.3	673.1	379.6	205.2	141.6	119.0	106.7	100.5	98.5
30°	2101.2	1906.3	1292.8	636.1	330.4	178.5	133.4	112.9	98.5	90.3	88.2
32.5°	2242.8	2004.8	1339.9	599.2	301.6	158.0	117.0	100.5	90.3	82.1	80.0
35°	2398.8	2142.3	1387.1	570.5	283.2	141.6	106.7	88.2	75.9	67.7	65.7
37.5°	2579.3	2294.1	1430.2	545.8	272.9	131.3	100.5	82.1	69.8	61.6	57.5
40°	2780.4	2413.1	1459.0	529.4	258.6	125.2	96.4	78.0	65.7	55.4	53.4
42.5°	2940.5	2550.6	1467.2	523.3	244.2	123.1	92.3	75.9	61.6	53.4	49.2
45°	3055.4	2671.7	1495.9	517.1	233.9	114.9	90.3	73.9	57.5	49.2	45.1
47.5°	3139.5	2801.0	1522.6	510.9	223.7	104.7	96.4	73.9	55.4	45.1	41.0
50°	3295.5	2952.8	1573.9	494.5	209.3	94.4	96.4	71.8	53.4	43.1	39.0
52.5°	3463.8	3149.8	1688.8	476.1	190.8	84.1	88.2	71.8	51.3	41.0	36.9
55°	3623.8	3389.9	1795.5	451.4	160.1	75.9	82.1	71.8	47.2	39.0	34.9
57.5°	3740.8	3549.9	1852.9	420.7	127.2	67.7	67.7	67.7	41.0	32.8	30.8
60°	3796.2	3533.5	1826.3	381.7	102.6	59.5	55.4	69.8	36.9	28.7	26.7
62.5°	3753.1	3363.2	1709.3	340.6	90.3	51.3	45.1	61.6	32.8	24.6	22.6
65°	3619.7	3075.9	1514.4	307.8	88.2	43.1	36.9	36.9	26.7	20.5	18.5
67.5°	3289.3	2698.4	1282.5	277.0	90.3	36.9	30.8	28.7	22.6	16.4	14.4
70°	2735.3	2168.9	970.6	262.7	90.3	30.8	26.7	22.6	16.4	14.4	12.3
72.5°	1738.0	1346.1	673.1	231.9	90.3	24.6	22.6	20.5	12.3	10.3	6.2
75°	1030.1	818.7	316.0	178.5	75.9	20.5	16.4	12.3	6.2	4.1	4.1
77.5°	605.3	525.3	137.5	98.5	32.8	12.3	8.2	4.1	2.1	0.0	0.0
80°	248.3	215.5	51.3	28.7	14.4	6.2	2.1	0.0	0.0	0.0	0.0
82.5°	145.7	151.8	18.5	12.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.1	69.8	0.0	2.1	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°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1223.0	1202.5	1194.3	1181.9	1171.7	1159.4	1175.8	1190.2	1173.7	1192.2	1220.9
5°	943.9	913.1	954.2	927.5	941.9	925.4	902.9	907.0	911.1	902.9	925.4
7.5°	654.6	668.9	679.2	677.2	689.5	666.9	666.9	652.5	632.0	640.2	636.1
10°	496.6	467.9	478.1	476.1	498.6	467.9	447.3	424.8	422.7	426.8	422.7
12.5°	396.0	361.1	338.6	326.3	324.2	309.8	291.4	268.8	254.4	252.4	264.7
15°	297.5	270.9	250.3	231.9	229.8	201.1	176.5	160.1	145.7	147.7	156.0
17.5°	205.2	197.0	190.8	174.4	164.2	139.5	119.0	108.8	104.7	104.7	106.7
20°	149.8	145.7	141.6	135.4	125.2	106.7	94.4	90.3	88.2	88.2	90.3
22.5°	125.2	119.0	114.9	112.9	104.7	90.3	82.1	78.0	78.0	78.0	78.0
25°	106.7	102.6	100.5	96.4	90.3	78.0	71.8	69.8	67.7	67.7	69.8
27.5°	96.4	88.2	84.1	84.1	78.0	69.8	63.6	61.6	59.5	59.5	61.6
30°	86.2	80.0	75.9	71.8	67.7	59.5	55.4	53.4	53.4	53.4	53.4
32.5°	75.9	71.8	67.7	63.6	57.5	53.4	49.2	47.2	45.1	45.1	45.1
35°	61.6	57.5	57.5	55.4	49.2	45.1	41.0	39.0	36.9	39.0	39.0
37.5°	53.4	47.2	47.2	47.2	43.1	39.0	34.9	32.8	30.8	30.8	32.8
40°	49.2	41.0	39.0	39.0	39.0	32.8	28.7	26.7	24.6	24.6	26.7
42.5°	43.1	36.9	32.8	30.8	32.8	28.7	22.6	20.5	20.5	20.5	20.5
45°	41.0	32.8	28.7	24.6	26.7	24.6	18.5	16.4	16.4	16.4	16.4
47.5°	36.9	28.7	24.6	18.5	18.5	18.5	14.4	12.3	12.3	12.3	12.3
50°	34.9	26.7	18.5	16.4	14.4	14.4	12.3	10.3	8.2	8.2	10.3
52.5°	32.8	24.6	16.4	12.3	10.3	10.3	8.2	8.2	6.2	6.2	6.2
55°	30.8	20.5	14.4	10.3	8.2	6.2	6.2	6.2	6.2	4.1	6.2
57.5°	26.7	18.5	10.3	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
60°	24.6	14.4	8.2	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	20.5	12.3	6.2	4.1	2.1	0.0	2.1	2.1	2.1	2.1	2.1
65°	16.4	10.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.3	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3	1434.3
2.5°	1218.9	1231.2	1276.3	1317.4	1362.5	1411.8	1452.8	1512.3	1530.8	1541.0
5°	921.3	966.5	1021.9	1071.1	1159.4	1241.5	1337.9	1442.5	1485.6	1493.8
7.5°	664.8	695.6	755.1	853.6	933.7	1056.8	1181.9	1321.5	1387.1	1387.1
10°	457.6	508.9	584.8	677.2	783.9	892.6	1038.3	1196.3	1257.9	1272.2
12.5°	291.4	348.8	451.4	552.0	675.1	781.8	927.5	1106.0	1175.8	1196.3
15°	168.3	207.3	301.6	412.4	560.2	695.6	859.8	1077.3	1163.5	1184.0
17.5°	112.9	127.2	178.5	275.0	439.1	619.7	839.3	1108.1	1212.7	1237.3
20°	94.4	100.5	119.0	170.3	309.8	539.7	831.1	1175.8	1303.0	1346.1
22.5°	82.1	88.2	100.5	125.2	221.6	455.5	824.9	1274.3	1446.7	1491.8
25°	71.8	78.0	88.2	106.7	156.0	371.4	835.2	1413.8	1631.3	1684.7
27.5°	63.6	69.8	80.0	92.3	125.2	287.3	837.2	1545.1	1803.7	1859.1
30°	55.4	61.6	69.8	80.0	100.5	221.6	800.3	1678.5	1943.2	2006.8
32.5°	49.2	53.4	61.6	69.8	84.1	172.4	724.4	1781.1	2058.1	2119.7
35°	41.0	45.1	53.4	59.5	73.9	139.5	640.2	1875.5	2195.6	2271.5
37.5°	34.9	39.0	45.1	53.4	65.7	108.8	556.1	1957.6	2329.0	2402.9
40°	28.7	34.9	41.0	47.2	59.5	84.1	463.7	2045.8	2480.9	2558.8
42.5°	24.6	28.7	34.9	43.1	51.3	67.7	381.7	2101.2	2610.1	2702.5
45°	18.5	24.6	32.8	43.1	43.1	53.4	328.3	2142.3	2702.5	2817.4
47.5°	14.4	20.5	28.7	41.0	39.0	45.1	301.6	2214.1	2829.7	2936.4
50°	12.3	16.4	28.7	34.9	32.8	39.0	309.8	2277.7	2926.1	3018.5
52.5°	10.3	14.4	24.6	26.7	28.7	34.9	326.3	2394.7	3047.2	3119.0
55°	8.2	12.3	18.5	22.6	24.6	32.8	352.9	2540.4	3205.2	3297.5
57.5°	6.2	10.3	14.4	18.5	22.6	30.8	371.4	2632.7	3352.9	3424.8
60°	6.2	8.2	12.3	16.4	20.5	28.7	344.7	2523.9	3289.3	3367.3
62.5°	4.1	8.2	10.3	14.4	16.4	22.6	254.4	2285.9	3098.5	3205.2
65°	2.1	6.2	8.2	10.3	12.3	16.4	145.7	1998.6	2872.8	3000.0
67.5°	0.0	4.1	6.2	8.2	8.2	12.3	67.7	1612.9	2501.4	2630.6
70°	0.0	2.1	4.1	4.1	6.2	10.3	34.9	1138.9	1967.9	2142.3
72.5°	2.1	2.1	4.1	4.1	4.1	8.2	22.6	689.5	1323.5	1508.2
75°	2.1	2.1	2.1	2.1	4.1	6.2	14.4	443.2	833.1	999.3
77.5°	2.1	4.1	2.1	2.1	2.1	4.1	8.2	246.2	455.5	517.1
80°	2.1	2.1	2.1	2.1	2.1	4.1	4.1	22.6	215.5	289.3
82.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	110.8	141.6
85°	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	2.1	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

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			

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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

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

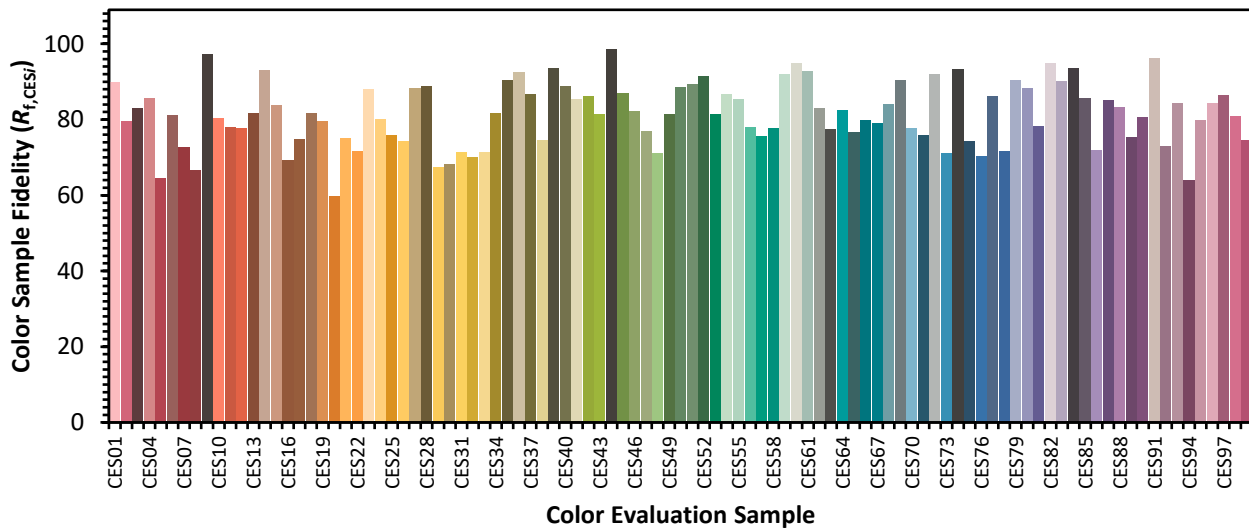


Color Vector Graphics



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)