Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501979

Luminaire Tested: GSS-SB2C-850-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501979
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-850-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(52) 5000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10717.3 lumens
Efficiency:	N/A
Efficacy:	105.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

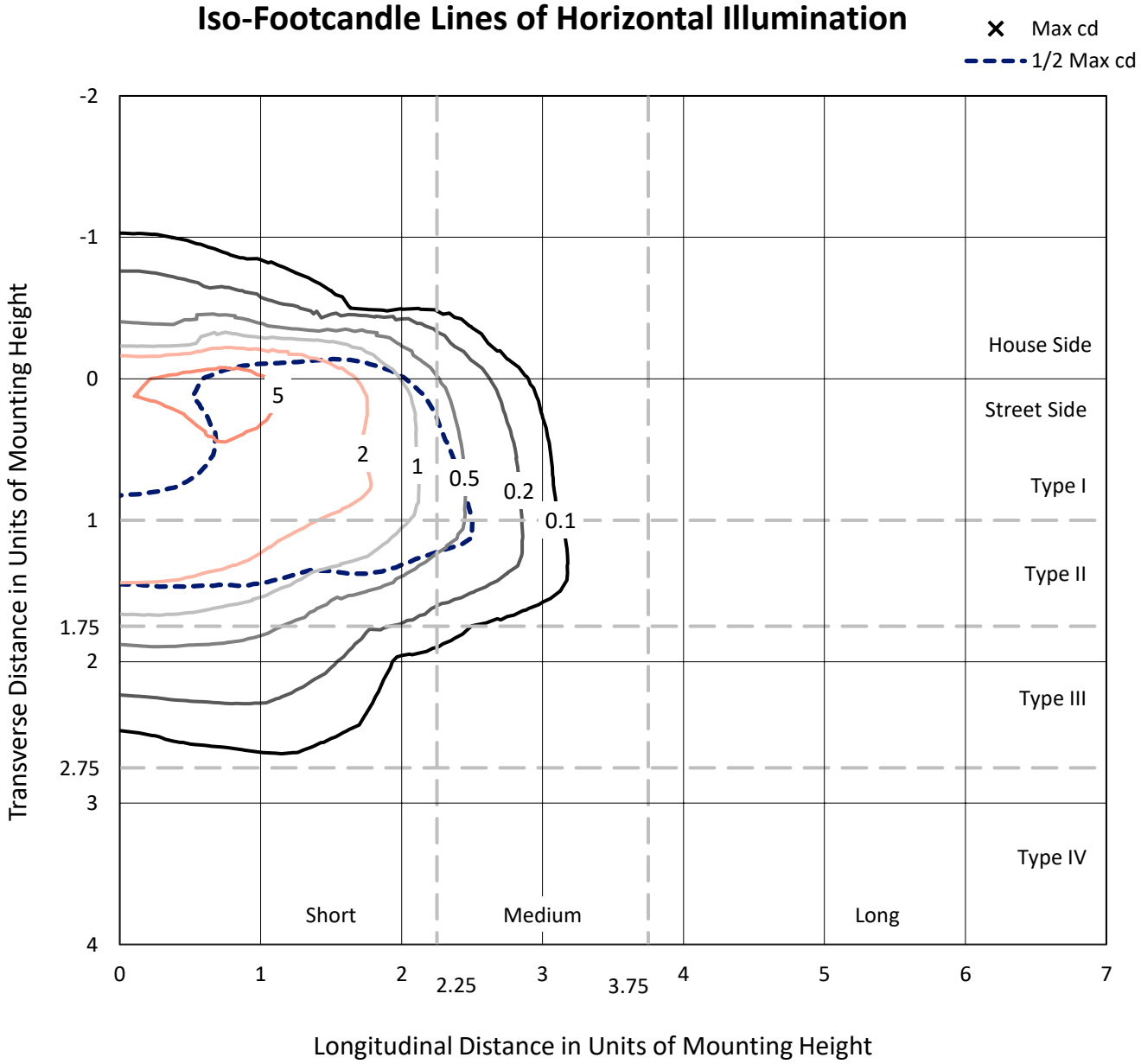
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



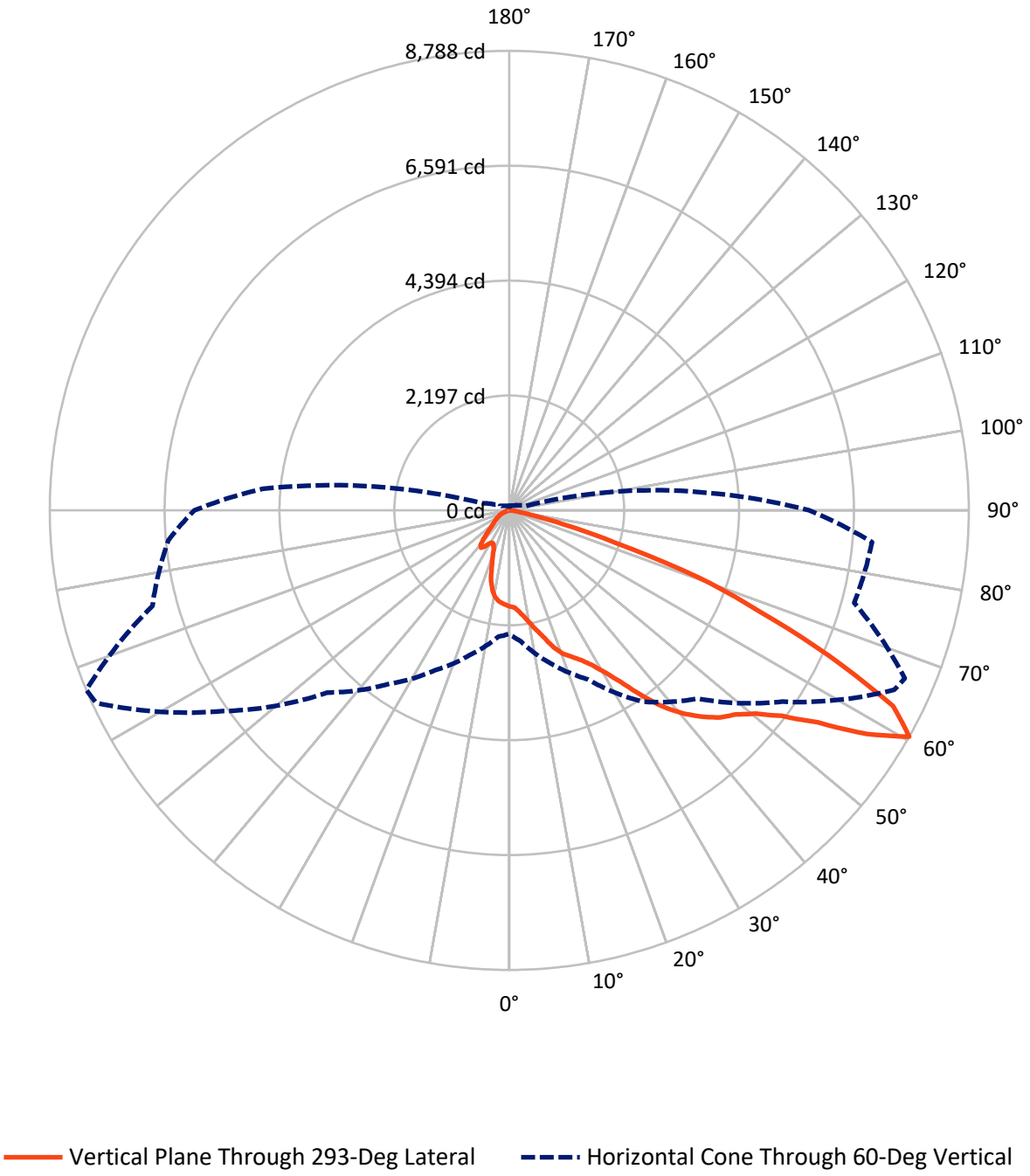
Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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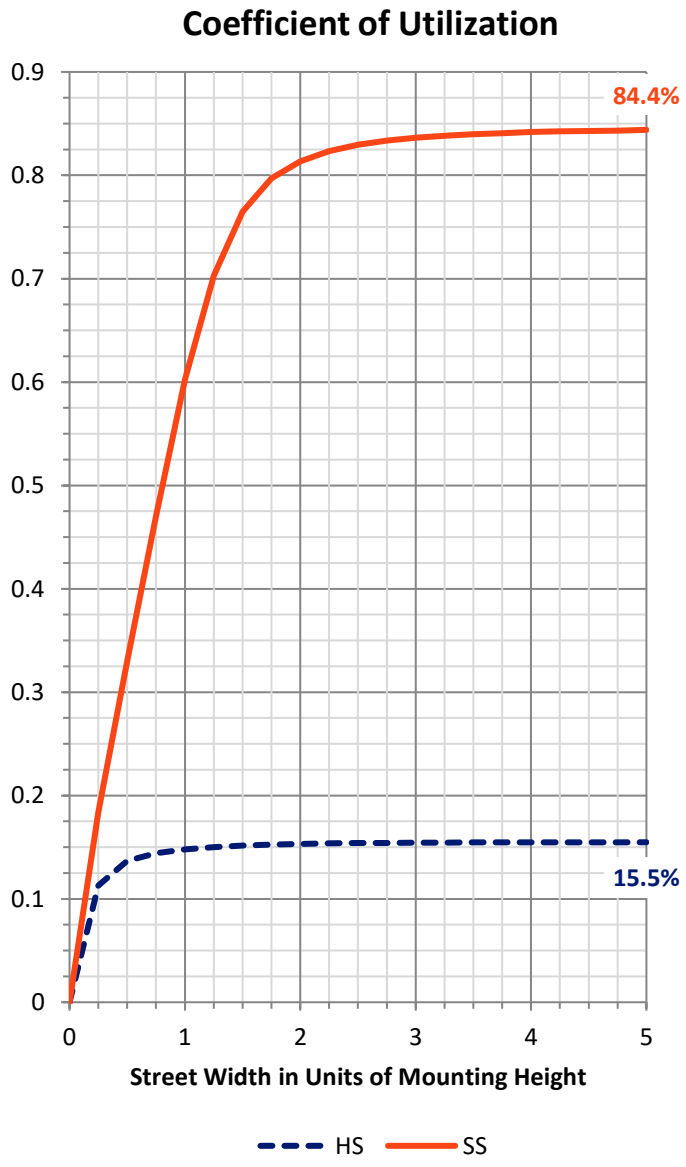
REPORT NUMBER: P1501979
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.2	0.0	1672.2
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	9045.2	0.0	9045.2
	% Fixture	84.4	0.0	84.4
Total	Lumens	10717.3	0.0	10717.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.6
10°-20°	418.9	3.9
20°-30°	782.0	7.3
30°-40°	1550.8	14.5
40°-50°	2472.5	23.1
50°-60°	2954.0	27.6
60°-70°	1936.5	18.1
70°-80°	405.7	3.8
80°-90°	30.7	0.3
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°	10717.3	100.0
0°-180°	10717.3	100.0



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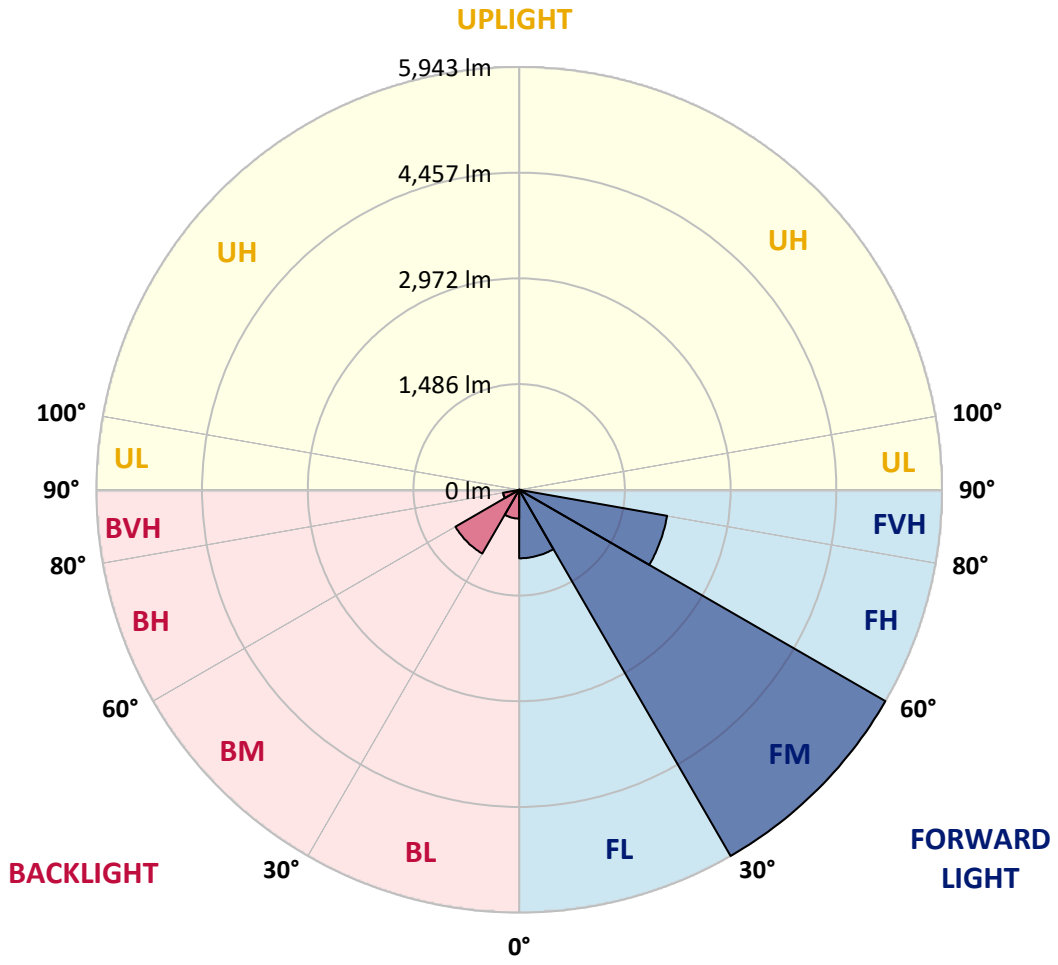
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	962.6	9.0			
FM	(30°-60°)	5943.2	55.5			
FH	(60°-80°)	2111.2	19.7			G2/5000
FVH	(80°-90°)	28.1	0.3			G1/100
BL	(0°-30°)	404.5	3.8	B1/500		
BM	(30°-60°)	1034.1	9.6	B2/2500		
BH	(60°-80°)	231.0	2.2	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1929.9	1923.9	1914.9	1917.9	1914.9	1902.9	1884.9	1869.9	1881.9	1863.9	1851.8
5°	1986.9	1986.9	1980.9	1980.9	1983.9	1977.9	1965.9	1944.9	1947.9	1932.9	1893.9
7.5°	1986.9	1977.9	1992.9	2007.9	2034.9	2049.9	2055.9	2043.9	2049.9	2019.9	1968.9
10°	1869.9	1863.9	1902.9	1959.9	2037.9	2107.0	2152.0	2155.0	2164.0	2134.0	2073.9
12.5°	1620.7	1608.7	1686.8	1794.8	1953.9	2113.0	2239.0	2287.0	2308.1	2296.1	2212.0
15°	1389.6	1404.6	1458.7	1575.7	1788.8	2031.9	2287.0	2446.1	2476.1	2491.1	2392.1
17.5°	1365.6	1368.6	1386.6	1443.7	1605.7	1899.9	2293.0	2611.2	2653.2	2719.2	2584.2
20°	1431.7	1425.7	1443.7	1461.7	1539.7	1782.8	2236.0	2770.3	2851.3	2992.4	2845.3
22.5°	1554.7	1554.7	1563.7	1575.7	1614.7	1773.8	2212.0	2917.3	3055.4	3343.5	3172.5
25°	1761.8	1737.8	1743.8	1728.8	1761.8	1881.9	2266.0	3034.4	3223.5	3733.7	3562.6
27.5°	2083.0	2092.0	2037.9	1956.9	1974.9	2077.0	2398.1	3166.4	3397.6	4138.9	3958.8
30°	2527.2	2512.2	2479.1	2320.1	2248.0	2338.1	2641.2	3382.5	3631.7	4652.1	4487.1
32.5°	2875.3	2917.3	2860.3	2749.3	2638.2	2665.2	2983.4	3730.7	3916.8	5123.3	5033.3
35°	3295.5	3295.5	3307.5	3151.4	3076.4	3070.4	3412.6	4108.9	4295.0	5549.5	5612.6
37.5°	3862.8	3823.8	3757.7	3583.6	3526.6	3601.6	3814.7	4499.1	4700.2	5894.7	6062.8
40°	4340.0	4367.0	4358.0	4105.9	3994.8	4075.9	4265.0	4832.2	4988.3	6116.8	6425.9
42.5°	4808.2	4823.2	4784.2	4664.1	4502.1	4508.1	4664.1	5084.3	5243.4	6329.9	6768.1
45°	5159.4	5156.4	5129.3	5099.3	5003.3	4904.2	4931.3	5363.5	5501.5	6398.9	6954.2
47.5°	5270.4	5294.4	5318.4	5402.5	5468.5	5312.4	5174.4	5513.5	5639.6	6386.9	7023.2
50°	5168.4	5219.4	5336.4	5462.5	5687.6	5675.6	5378.5	5675.6	5798.7	6453.0	7104.3
52.5°	4940.3	4991.3	5147.4	5375.5	5714.6	5882.7	5756.6	5948.7	6092.8	6621.0	7272.3
55°	4409.0	4430.0	4751.2	5051.3	5579.6	5792.7	6161.8	6410.9	6531.0	6825.1	7494.4
57.5°	3589.6	3640.7	3955.8	4445.0	5201.4	5555.5	6392.9	7200.3	7197.3	7020.2	7542.5
60°	*2362.1*	*2512.2*	*3025.4*	*3565.6*	*4469.0*	*5090.3*	*6377.9*	*8124.7*	*8217.8*	*6828.1*	*6963.2*
62.5°	1803.8	1866.9	2158.0	2608.2	3307.5	4219.9	6278.9	8400.8	8472.9	6311.9	6095.8
65°	1356.6	1434.7	1713.8	2116.0	2335.1	2860.3	5630.6	7302.3	7401.4	5633.6	4739.2
67.5°	831.4	894.4	1266.6	1737.8	1767.8	1776.8	3799.7	5531.5	5567.5	4544.1	3190.5
70°	555.3	618.3	876.4	1335.6	1407.6	1023.5	2086.0	4186.9	4183.9	3109.4	1938.9
72.5°	321.1	351.2	555.3	984.5	1107.5	651.3	1041.5	2662.2	2545.2	1461.7	906.4
75°	183.1	204.1	306.1	633.3	777.4	414.2	411.2	1425.7	1260.6	753.3	495.2
77.5°	111.1	120.1	168.1	414.2	468.2	279.1	228.1	663.3	639.3	441.2	261.1
80°	54.0	63.0	102.0	243.1	300.1	150.1	138.1	261.1	279.1	243.1	138.1
82.5°	18.0	24.0	57.0	93.0	195.1	60.0	57.0	144.1	153.1	144.1	66.0
85°	9.0	12.0	27.0	30.0	75.0	30.0	21.0	63.0	78.0	48.0	27.0
87.5°	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0
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°	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1842.8	1836.8	1824.8	1803.8	1800.8	1785.8	1761.8	1746.8	1734.8	1743.8	1746.8
5°	1875.9	1860.9	1824.8	1767.8	1707.8	1647.8	1590.7	1524.7	1479.7	1473.7	1461.7
7.5°	1935.9	1905.9	1827.8	1716.8	1563.7	1419.6	1251.6	1089.5	1008.5	996.5	969.4
10°	2031.9	1980.9	1851.8	1626.7	1332.6	1032.5	777.4	603.3	504.2	486.2	492.2
12.5°	2146.0	2073.9	1854.8	1473.7	1014.5	639.3	441.2	375.2	354.2	345.2	345.2
15°	2293.0	2188.0	1851.8	1275.6	684.3	411.2	354.2	327.1	318.1	312.1	312.1
17.5°	2479.1	2341.1	1830.8	978.4	462.2	357.2	324.1	303.1	291.1	288.1	288.1
20°	2698.2	2512.2	1782.8	729.3	387.2	333.2	306.1	279.1	270.1	264.1	264.1
22.5°	2977.4	2719.2	1689.8	567.3	366.2	318.1	288.1	258.1	249.1	243.1	243.1
25°	3301.5	2983.4	1566.7	510.2	363.2	306.1	270.1	240.1	231.1	228.1	225.1
27.5°	3685.7	3265.5	1452.7	513.2	369.2	297.1	252.1	225.1	216.1	207.1	210.1
30°	4138.9	3556.6	1359.6	549.3	375.2	288.1	240.1	216.1	207.1	195.1	195.1
32.5°	4586.1	3898.8	1350.6	615.3	396.2	282.1	228.1	204.1	195.1	186.1	186.1
35°	5045.3	4210.9	1401.6	702.3	438.2	273.1	213.1	192.1	183.1	177.1	174.1
37.5°	5483.5	4460.0	1449.7	756.3	414.2	234.1	195.1	177.1	168.1	156.1	156.1
40°	5774.6	4595.1	1458.7	714.3	342.2	210.1	177.1	159.1	147.1	141.1	138.1
42.5°	5987.7	4682.1	1356.6	579.3	297.1	192.1	162.1	144.1	135.1	129.1	129.1
45°	6074.8	4652.1	1182.5	441.2	273.1	177.1	147.1	132.1	126.1	120.1	120.1
47.5°	6062.8	4514.1	1005.5	354.2	249.1	162.1	138.1	126.1	120.1	114.1	111.1
50°	6041.8	4385.0	825.4	315.1	222.1	153.1	129.1	120.1	111.1	105.0	102.0
52.5°	6179.8	4343.0	684.3	288.1	207.1	147.1	126.1	114.1	105.0	99.0	99.0
55°	6317.9	4361.0	537.2	270.1	192.1	144.1	123.1	111.1	102.0	93.0	93.0
57.5°	6308.9	4283.0	408.2	252.1	180.1	141.1	120.1	108.0	93.0	87.0	87.0
60°	*5735.6*	*3820.7*	*318.1*	*231.1*	*165.1*	*132.1*	*111.1*	*102.0*	*87.0*	*78.0*	*78.0*
62.5°	4850.2	3004.4	261.1	204.1	147.1	120.1	102.0	93.0	78.0	63.0	63.0
65°	3583.6	2167.0	210.1	177.1	135.1	105.0	93.0	81.0	63.0	51.0	48.0
67.5°	2425.1	1332.6	168.1	147.1	120.1	90.0	78.0	69.0	57.0	42.0	39.0
70°	1437.7	708.3	123.1	102.0	90.0	66.0	66.0	60.0	48.0	36.0	33.0
72.5°	684.3	246.1	90.0	75.0	69.0	48.0	51.0	51.0	39.0	27.0	24.0
75°	348.2	120.1	60.0	54.0	45.0	36.0	42.0	39.0	27.0	18.0	18.0
77.5°	198.1	84.0	42.0	36.0	30.0	24.0	27.0	24.0	15.0	9.0	9.0
80°	111.1	60.0	27.0	24.0	18.0	15.0	15.0	12.0	9.0	3.0	3.0
82.5°	42.0	36.0	18.0	12.0	9.0	9.0	6.0	6.0	3.0	0.0	0.0
85°	18.0	9.0	9.0	6.0	6.0	3.0	3.0	3.0	0.0	0.0	0.0
87.5°	3.0	3.0	3.0	3.0	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°	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1722.8	1728.8	1734.8	1758.8	1764.8	1782.8	1797.8	1815.8	1818.8	1842.8	1842.8
5°	1485.7	1482.7	1533.7	1608.7	1656.8	1722.8	1773.8	1827.8	1857.9	1896.9	1914.9
7.5°	984.5	1059.5	1173.5	1305.6	1476.7	1635.7	1755.8	1860.9	1932.9	1977.9	1995.9
10°	489.2	531.2	651.3	867.4	1158.5	1482.7	1737.8	1932.9	2049.9	2101.0	2134.0
12.5°	345.2	354.2	375.2	492.2	771.4	1230.6	1680.8	2010.9	2173.0	2269.0	2311.1
15°	309.1	315.1	324.1	357.2	477.2	918.4	1578.7	2098.0	2365.1	2476.1	2530.2
17.5°	285.1	288.1	297.1	324.1	375.2	624.3	1413.6	2191.0	2596.2	2731.3	2833.3
20°	264.1	264.1	273.1	306.1	348.2	480.2	1176.5	2296.1	2890.3	3085.4	3187.5
22.5°	240.1	246.1	252.1	288.1	339.2	438.2	954.4	2377.1	3217.5	3454.6	3574.6
25°	222.1	228.1	234.1	270.1	330.2	438.2	825.4	2428.1	3583.6	3865.8	4030.8
27.5°	207.1	213.1	222.1	258.1	321.1	456.2	774.4	2443.1	3982.8	4349.0	4571.1
30°	195.1	201.1	210.1	249.1	327.1	477.2	792.4	2422.1	4388.0	4847.2	5111.3
32.5°	183.1	189.1	198.1	240.1	327.1	504.2	852.4	2380.1	4781.2	5345.4	5669.6
35°	174.1	177.1	180.1	216.1	297.1	501.2	927.4	2338.1	5177.4	5837.7	6215.8
37.5°	156.1	159.1	165.1	186.1	237.1	456.2	942.4	2287.0	5489.5	6251.9	6669.1
40°	138.1	144.1	150.1	171.1	198.1	369.2	876.4	2179.0	5654.6	6570.0	7077.2
42.5°	126.1	129.1	135.1	156.1	183.1	294.1	735.3	1989.9	5801.7	6786.1	7374.4
45°	117.1	120.1	126.1	141.1	171.1	255.1	579.3	1758.8	5813.7	6855.1	7518.4
47.5°	108.0	111.1	114.1	129.1	165.1	228.1	444.2	1548.7	5810.7	6945.2	7641.5
50°	102.0	105.0	111.1	123.1	156.1	204.1	366.2	1377.6	5936.7	7140.3	7890.6
52.5°	99.0	99.0	108.0	120.1	147.1	186.1	306.1	1224.6	6002.7	7332.4	8070.7
55°	93.0	96.0	102.0	114.1	138.1	177.1	261.1	1032.5	6032.8	7428.4	8103.7
57.5°	87.0	90.0	99.0	108.0	132.1	168.1	225.1	771.4	5603.6	6927.2	7551.5
60°	*78.0*	*84.0*	*96.0*	*105.0*	*123.1*	*153.1*	*198.1*	*522.2*	*4727.2*	*6020.8*	*6543.0*
62.5°	63.0	75.0	87.0	93.0	111.1	129.1	168.1	348.2	3775.7	4982.3	5576.6
65°	48.0	63.0	72.0	81.0	93.0	108.0	141.1	237.1	2518.2	3352.5	4021.8
67.5°	42.0	54.0	60.0	66.0	78.0	93.0	114.1	165.1	1527.7	2013.9	2674.2
70°	33.0	45.0	51.0	48.0	60.0	72.0	81.0	111.1	780.4	1092.5	1521.7
72.5°	24.0	36.0	39.0	39.0	36.0	51.0	60.0	78.0	339.2	531.2	690.3
75°	18.0	24.0	27.0	24.0	21.0	33.0	42.0	51.0	222.1	318.1	402.2
77.5°	9.0	9.0	15.0	15.0	9.0	18.0	21.0	30.0	126.1	186.1	231.1
80°	3.0	0.0	0.0	3.0	0.0	6.0	9.0	15.0	66.0	99.0	144.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	33.0	30.0	75.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	18.0
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501979
CATALOG NUMBER: GSS-SB2C-850-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1836.8	*1836.8*	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1857.9	*1857.9*	1869.9	1887.9	1896.9	1902.9	1905.9	1911.9	1935.9	1929.9
5°	1935.9	*1941.9*	1950.9	1968.9	1989.9	1983.9	1983.9	1983.9	1998.9	1986.9
7.5°	2037.9	*2055.9*	2058.9	2080.0	2064.9	2034.9	2016.9	1989.9	1986.9	1986.9
10°	2203.0	*2197.0*	2197.0	2170.0	2116.0	2028.9	1950.9	1896.9	1866.9	1869.9
12.5°	2380.1	*2356.1*	2359.1	2260.0	2107.0	1914.9	1755.8	1638.8	1629.7	1620.7
15°	2599.2	*2536.2*	2524.2	2296.1	1971.9	1677.8	1521.7	1428.7	1398.6	1389.6
17.5°	2911.3	*2752.3*	2695.2	2233.0	1794.8	1530.7	1413.6	1371.6	1368.6	1365.6
20°	3241.5	*2926.3*	2818.3	2140.0	1734.8	1533.7	1446.7	1434.7	1428.7	1431.7
22.5°	3625.7	*3037.4*	2899.3	2155.0	1788.8	1632.7	1563.7	1554.7	1548.7	1554.7
25°	4021.8	*3166.4*	2995.4	2275.0	1950.9	1815.8	1734.8	1716.8	1734.8	1761.8
27.5°	4421.0	*3340.5*	3184.5	2512.2	2212.0	2064.9	1986.9	2052.9	2080.0	2083.0
30°	4775.2	*3583.6*	3439.6	2845.3	2509.1	2362.1	2377.1	2461.1	2494.1	2527.2
32.5°	5099.3	*3907.8*	3796.7	3223.5	2893.3	2806.3	2797.3	2860.3	2896.3	2875.3
35°	5426.5	*4331.0*	4222.9	3634.7	3364.5	3292.5	3217.5	3340.5	3328.5	3295.5
37.5°	5735.6	*4757.2*	4658.1	4075.9	3796.7	3670.7	3658.7	3769.7	3868.8	3862.8
40°	5957.7	*5102.3*	4982.3	4514.1	4249.9	4141.9	4204.9	4397.0	4373.0	4340.0
42.5°	6161.8	*5396.5*	5288.4	4898.2	4622.1	4670.1	4727.2	4856.2	4841.2	4808.2
45°	6257.9	*5648.6*	5555.5	5189.4	5054.3	5207.4	5204.4	5252.4	5171.4	5159.4
47.5°	6392.9	*5828.7*	5732.6	5450.5	5570.6	5633.6	5456.5	5405.5	5330.4	5270.4
50°	6642.0	*6107.8*	6011.8	5846.7	5948.7	5753.6	5537.5	5426.5	5273.4	5168.4
52.5°	6933.2	*6531.0*	6447.0	6380.9	6095.8	5693.6	5417.5	5216.4	5030.3	4940.3
55°	7299.3	*7155.3*	7095.2	6732.1	5963.7	5447.5	5123.3	4748.2	4493.1	4409.0
57.5°	7419.4	*8070.7*	8049.7	6789.1	5594.6	5000.3	4415.0	3907.8	3643.7	3589.6
60°	*7065.2*	*8788.0*	*8713.0*	*6693.1*	*4925.3*	*4057.9*	*3373.5*	*2854.3*	*2425.1*	*2362.1*
62.5°	6612.0	*8238.8*	8211.8	6209.8	3751.7	2908.3	2521.2	2034.9	1851.8	1803.8
65°	5663.6	*6741.1*	6753.1	4982.3	2374.1	2089.0	2070.9	1617.7	1392.6	1356.6
67.5°	4361.0	*5171.4*	5087.3	3133.4	1383.6	1671.8	1653.8	1182.5	855.4	831.4
70°	2548.2	*3850.8*	3715.7	1629.7	915.4	1395.6	1272.6	831.4	582.3	555.3
72.5°	1125.5	*2119.0*	2275.0	717.3	645.3	1110.5	918.4	510.2	327.1	321.1
75°	624.3	*1050.5*	1098.5	312.1	453.2	789.4	555.3	285.1	186.1	183.1
77.5°	375.2	*465.2*	453.2	201.1	339.2	504.2	336.2	162.1	117.1	111.1
80°	210.1	*213.1*	180.1	147.1	201.1	282.1	189.1	102.0	54.0	54.0
82.5°	129.1	*117.1*	93.0	45.0	54.0	171.1	69.0	57.0	18.0	18.0
85°	54.0	*36.0*	24.0	9.0	21.0	45.0	24.0	27.0	9.0	9.0
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

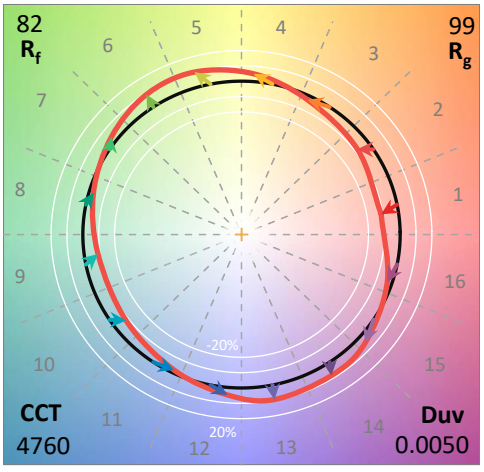
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-12
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-850-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4760
CIE u':	0.2107
CIE v':	0.4939
Duv:	0.0050
CIE x:	0.3537
CIE y:	0.3685
CIE z:	0.2779
Peak Wavelength (nm):	443
Dominant Wavelength (nm):	571
Purity:	16.69598
Rf:	82
Rg:	99.4

CRI (Ra):	81.1
R1:	79.8
R2:	83.5
R3:	87.9
R4:	83.1
R5:	80.5
R6:	79.1
R7:	86.1
R8:	69.0
R9:	8.7
R10:	62.4
R11:	83.8
R12:	63.0
R13:	79.9
R14:	93.3
R15:	72.7



Test Conditions

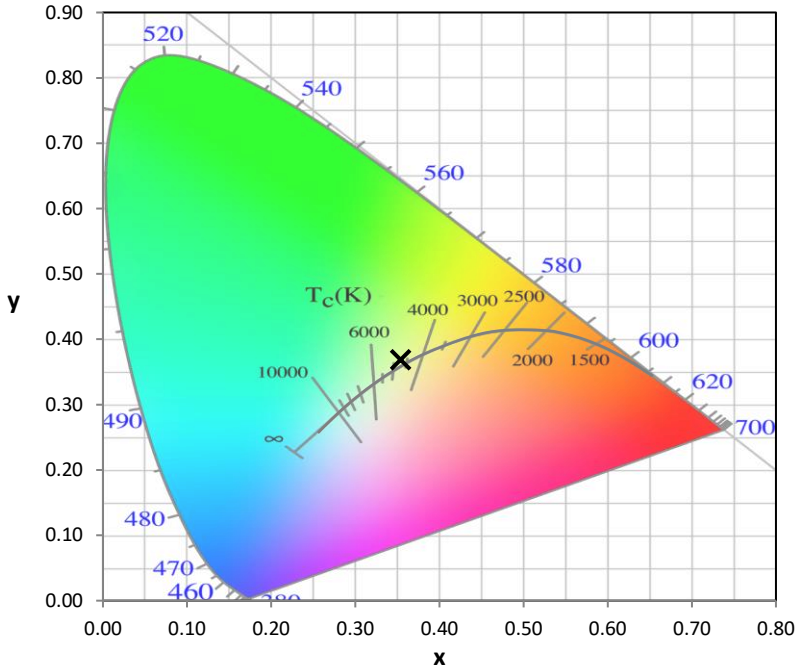
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-12

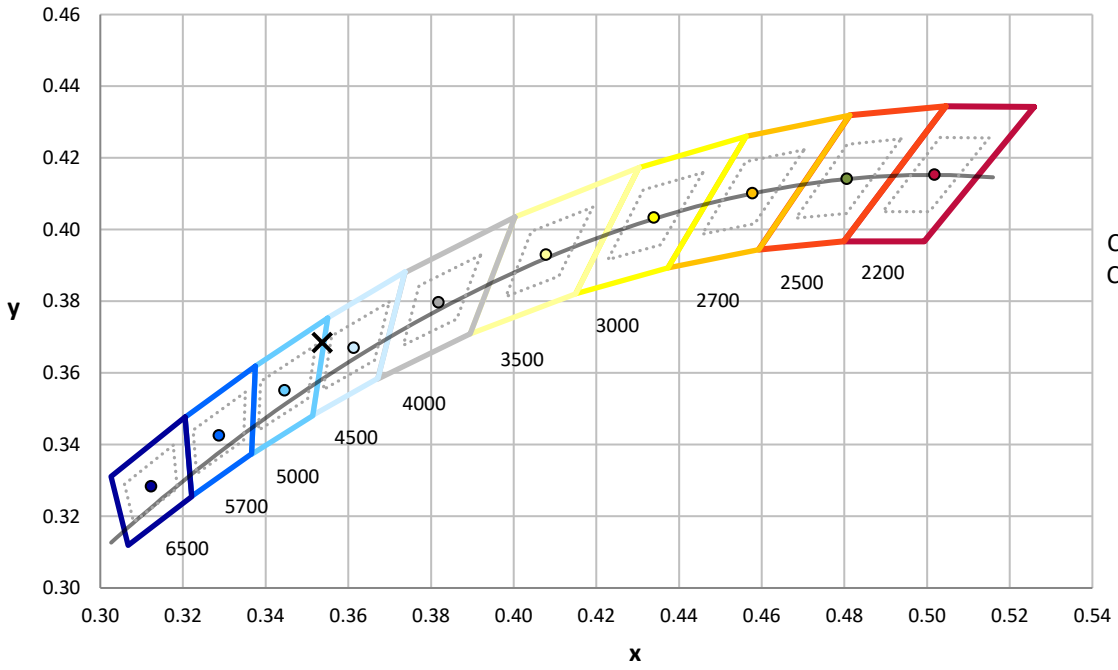
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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

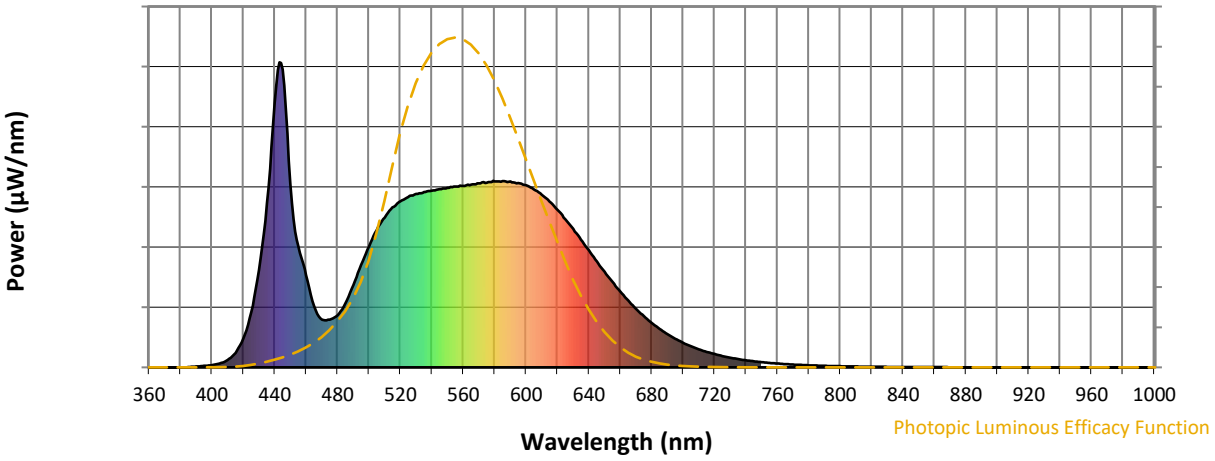


CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

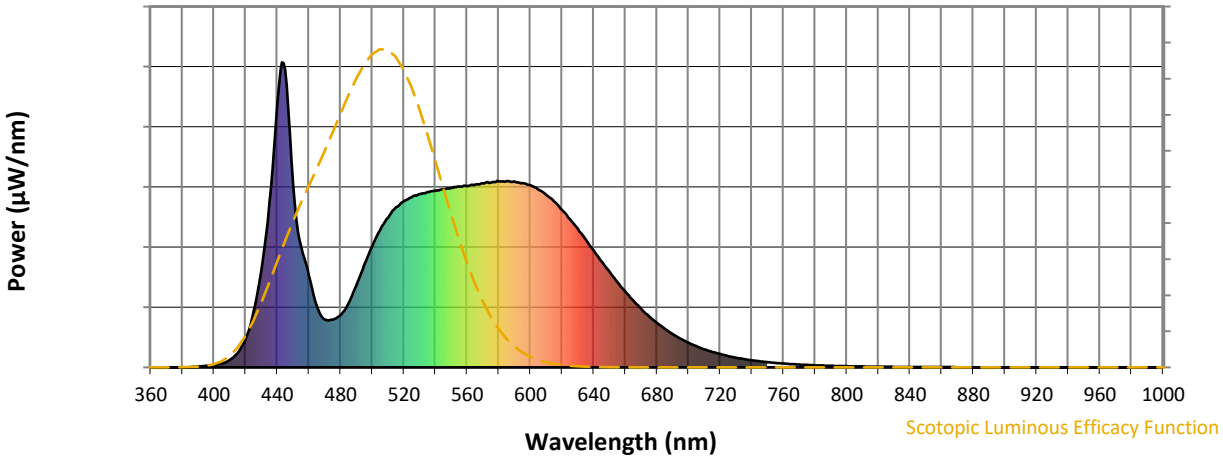


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength

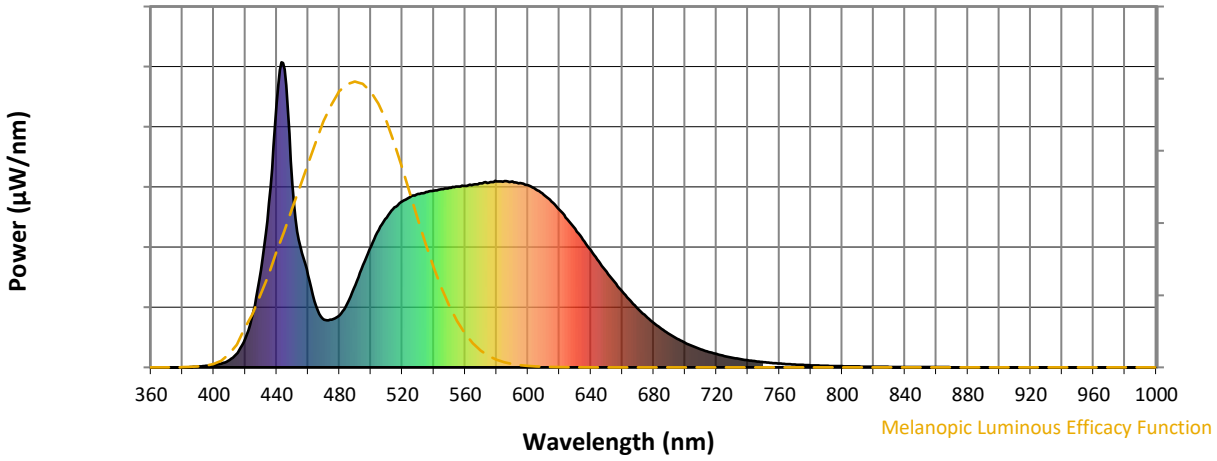


Scotopic Lumens: NR **S/P: 1.83**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.74**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

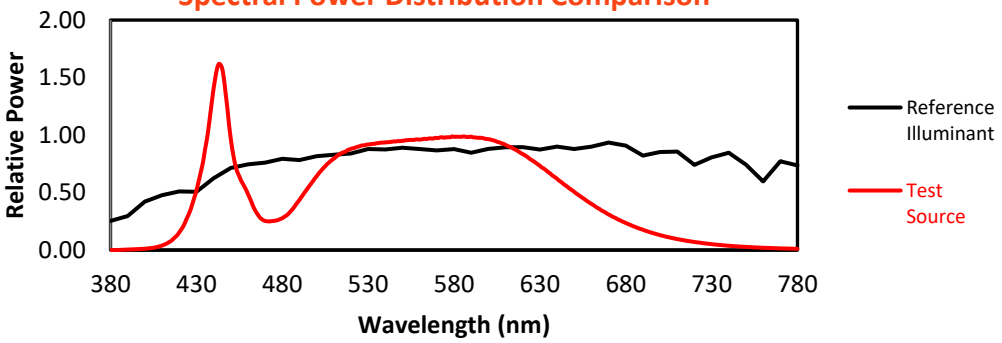
REPORT NUMBER: SP1-2407-184-12

TM-30-18

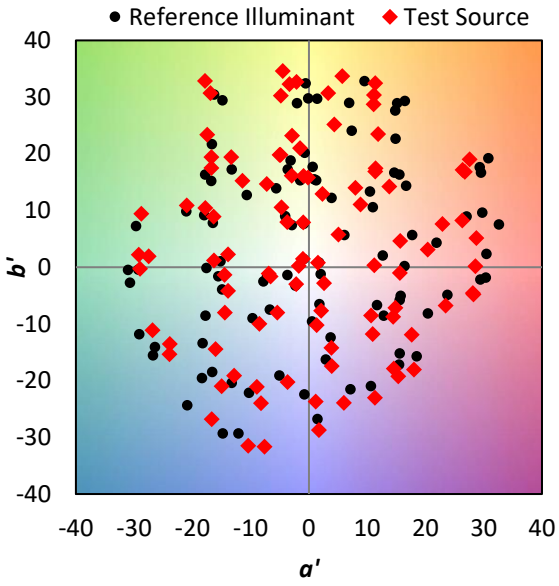
Summary

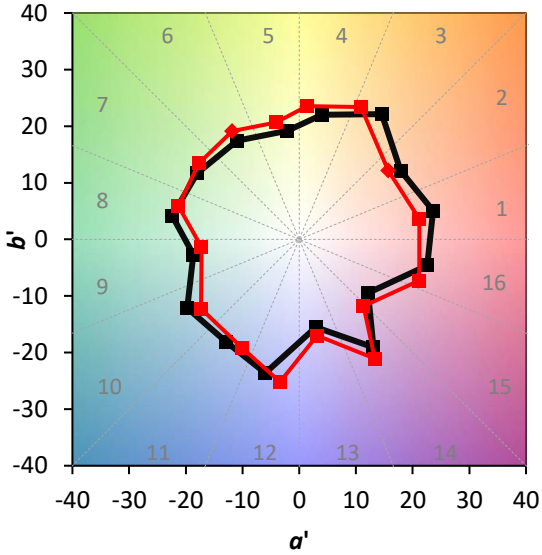
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R_g = 99.4
CIE R_a = 81.1
R_9 = 8.7

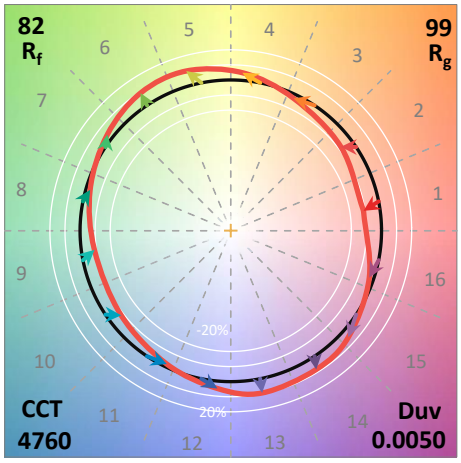
Spectral Power Distribution Comparison

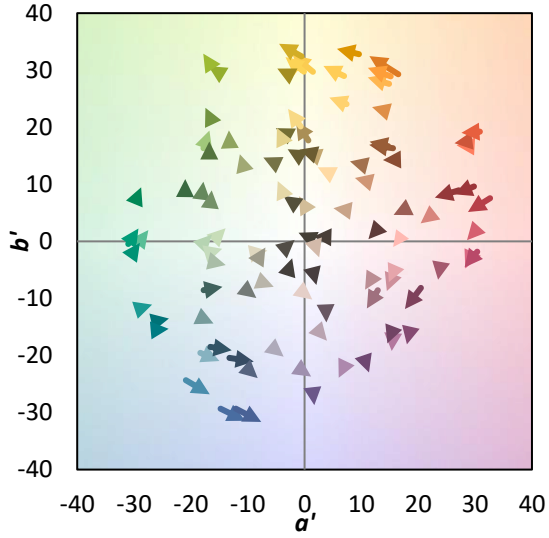


Color Vector Graphics







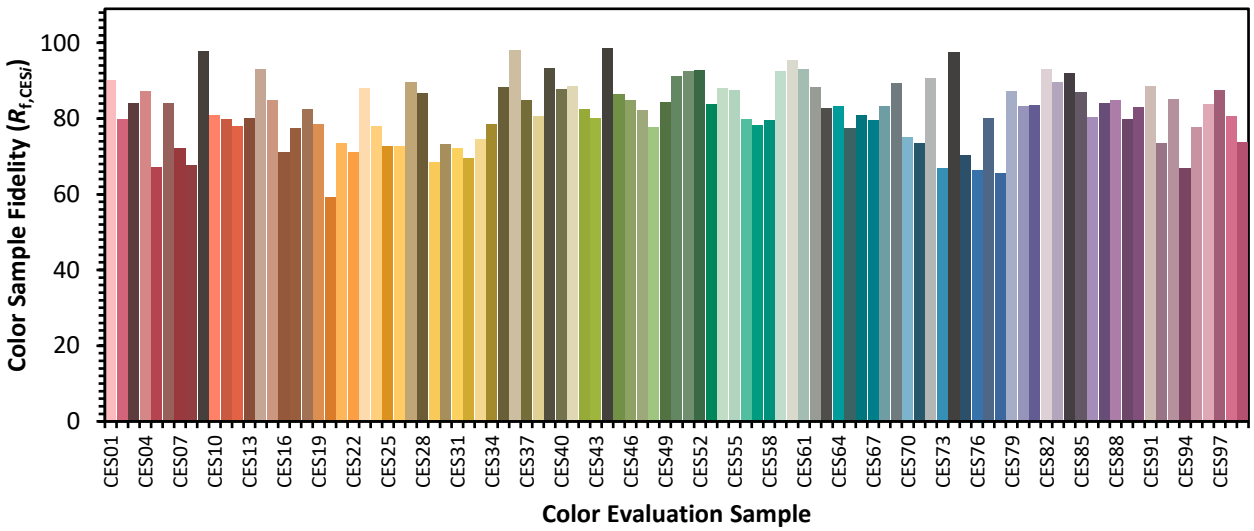


REPORT NUMBER: SP1-2407-184-12

TM-30-18

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

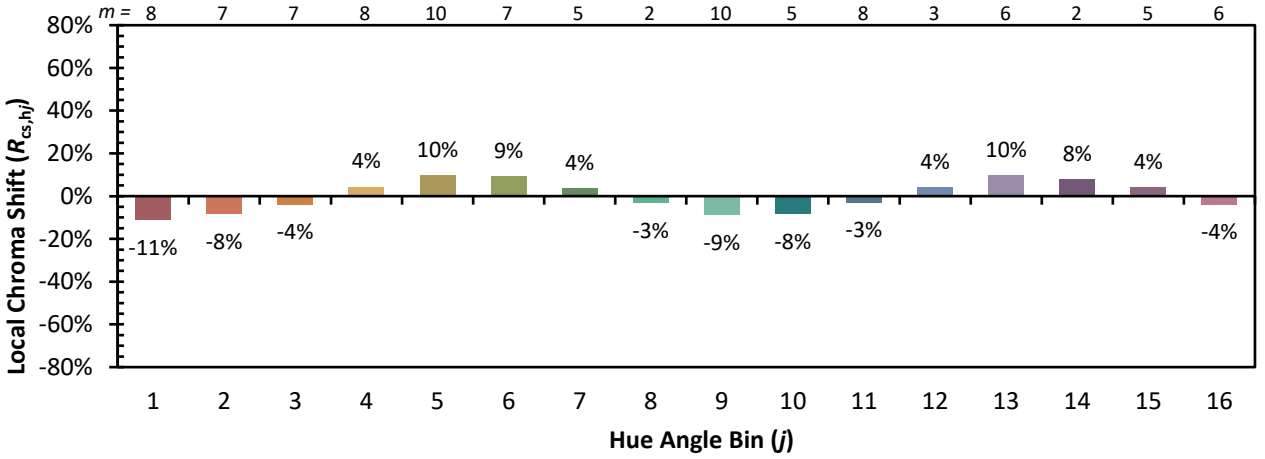
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CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
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CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
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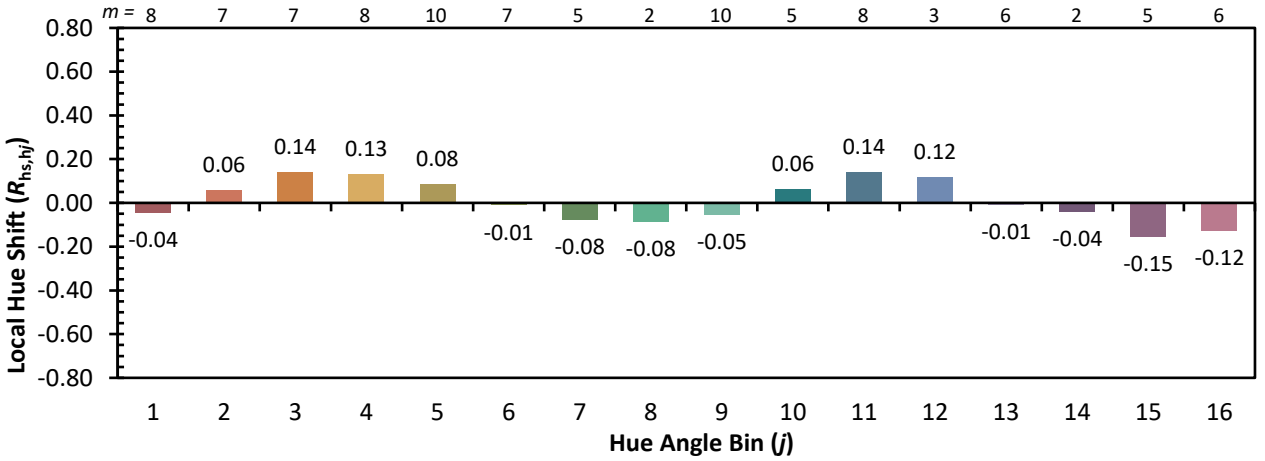


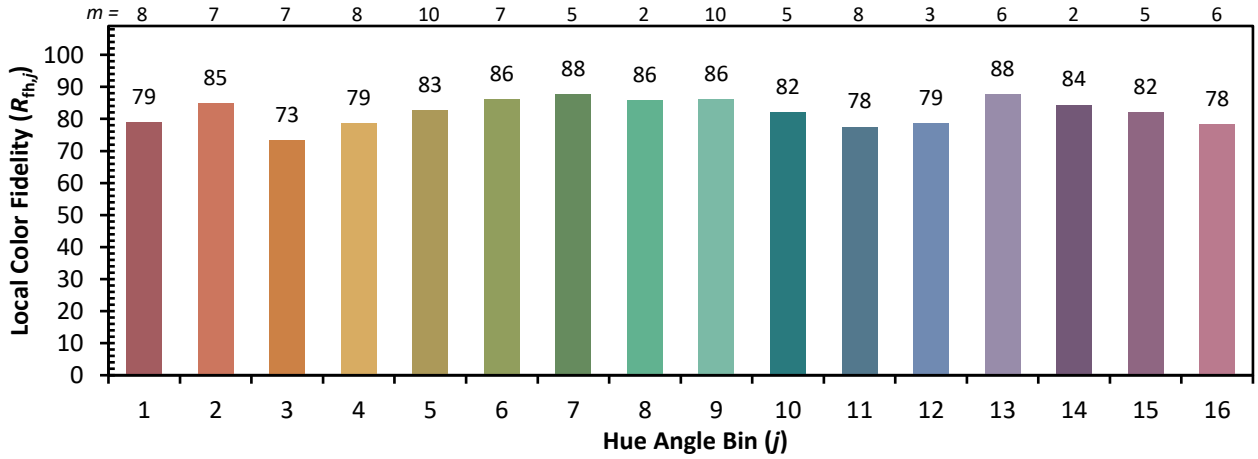
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Color Rendition by Hue-Angle Bin



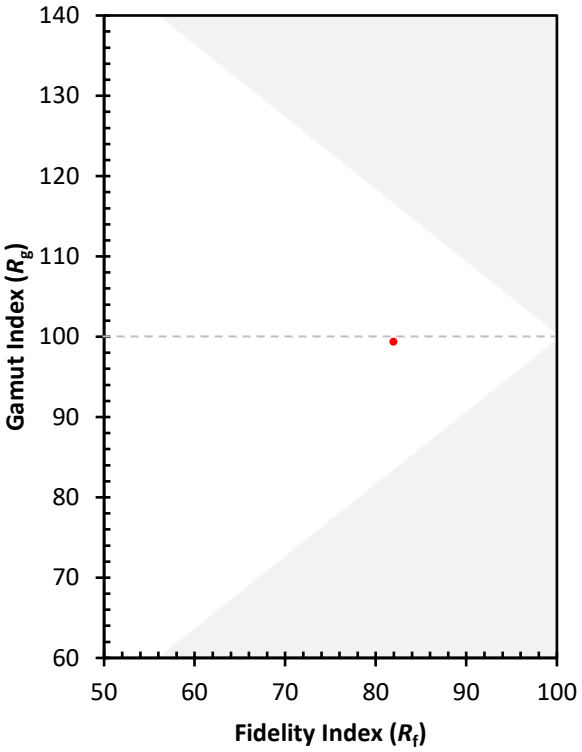


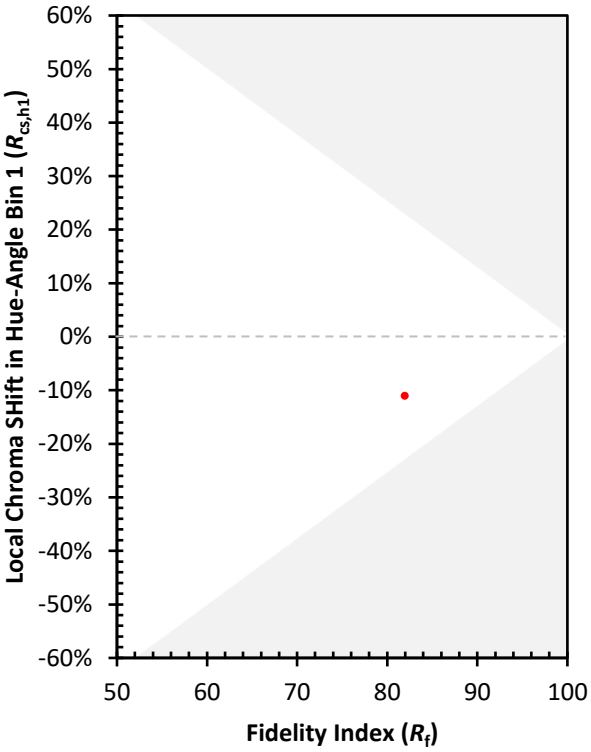


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Measure Comparisons





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