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: P1501889

Luminaire Tested: GSS-SB4A-827-U-T2LG-HSS

Issue Date: 07/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501889
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-827-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12284 lumens
Efficiency:	N/A
Efficacy:	107.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

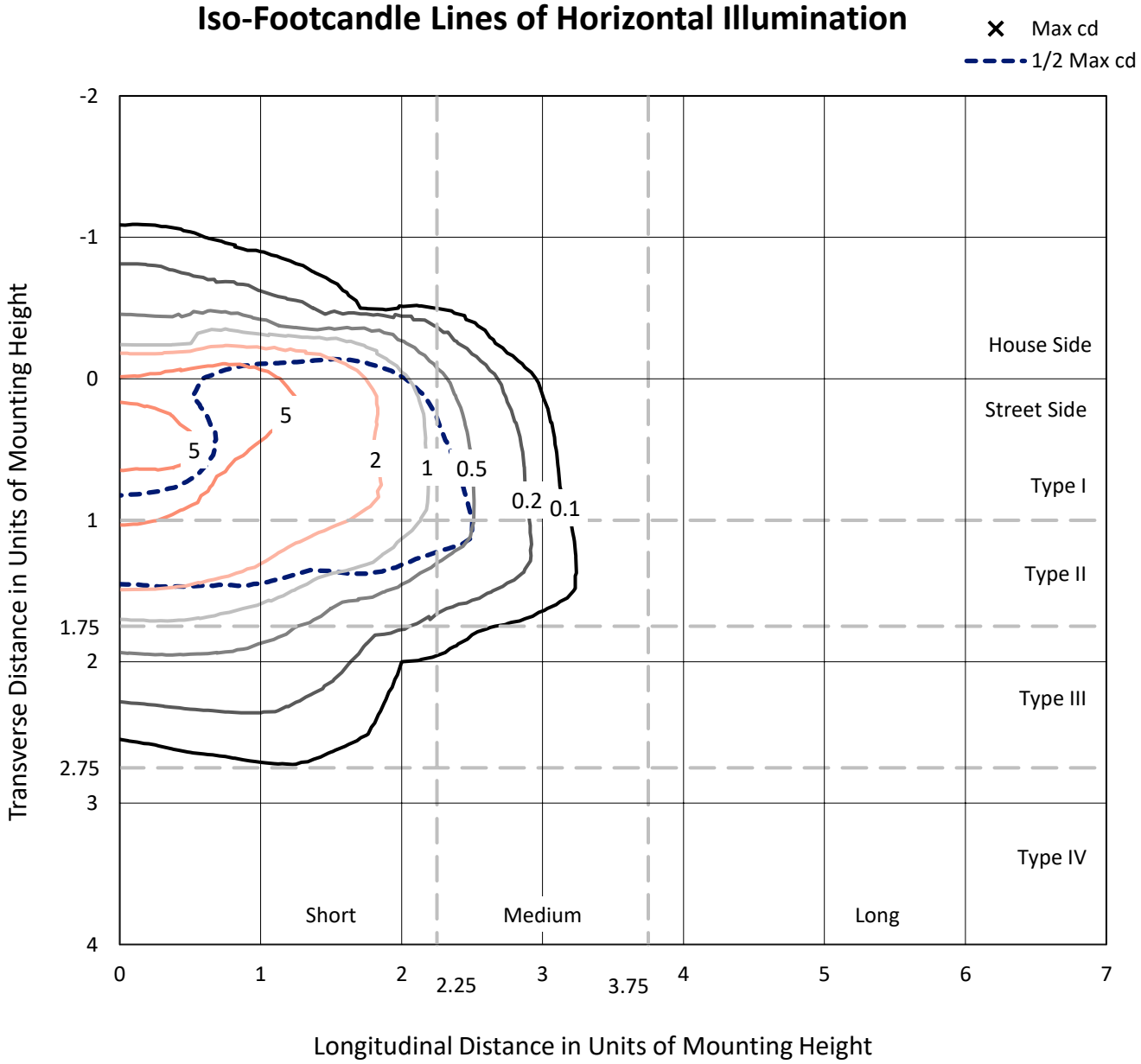
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



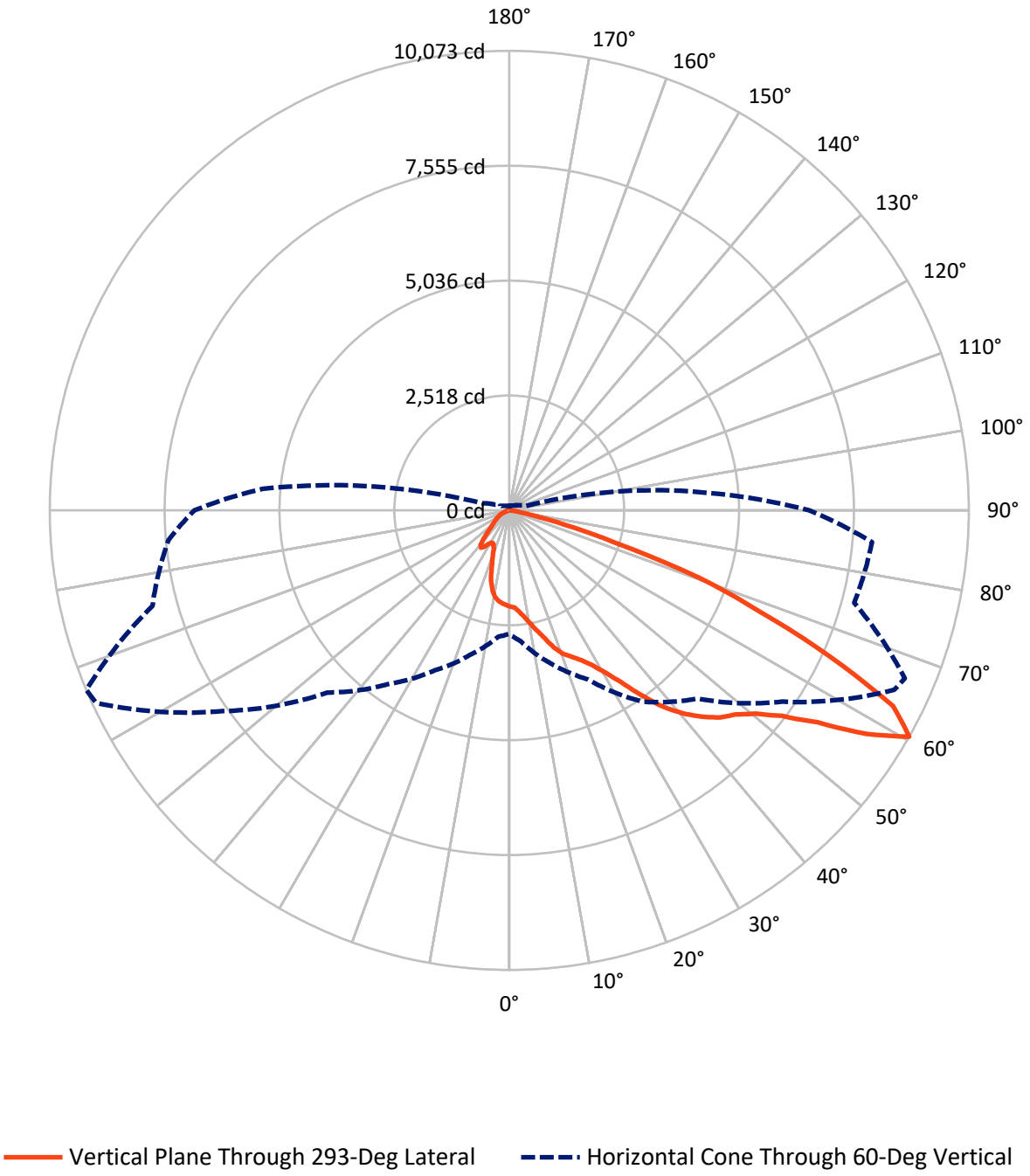
Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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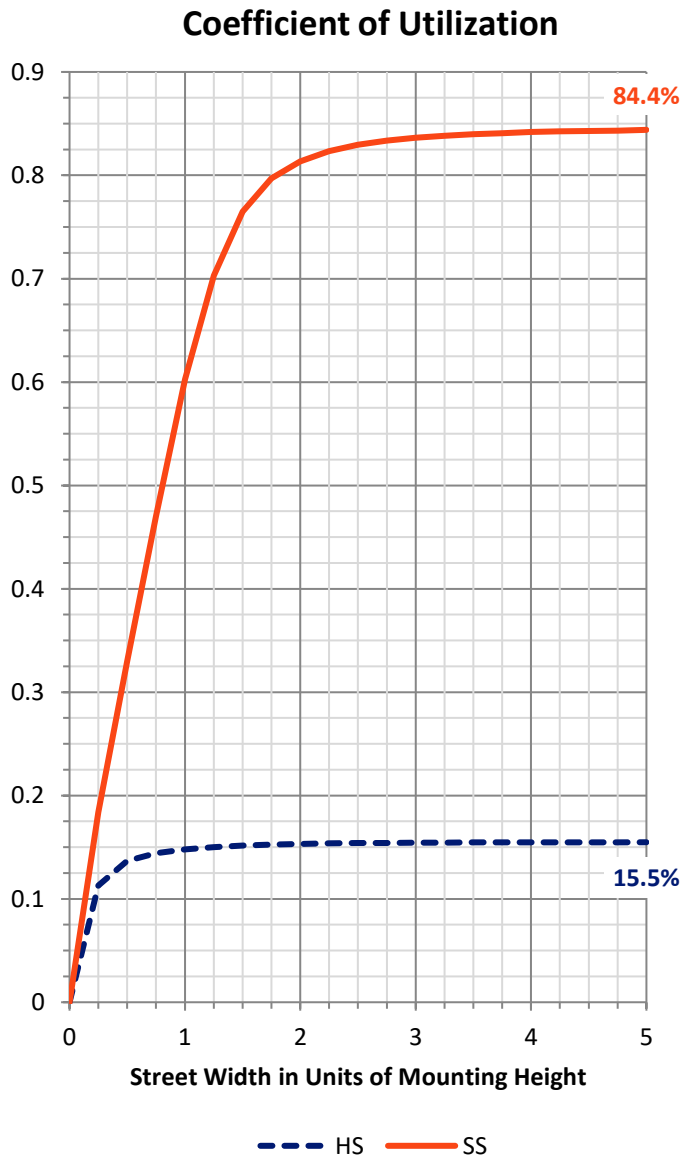
REPORT NUMBER: P1501889
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.6	0.0	1916.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10367.4	0.0	10367.4
	% Fixture	84.4	0.0	84.4
Total	Lumens	12284.0	0.0	12284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.6
10°-20°	480.1	3.9
20°-30°	896.3	7.3
30°-40°	1777.4	14.5
40°-50°	2833.9	23.1
50°-60°	3385.8	27.6
60°-70°	2219.6	18.1
70°-80°	465.0	3.8
80°-90°	35.2	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°	12284.0	100.0
0°-180°	12284.0	100.0



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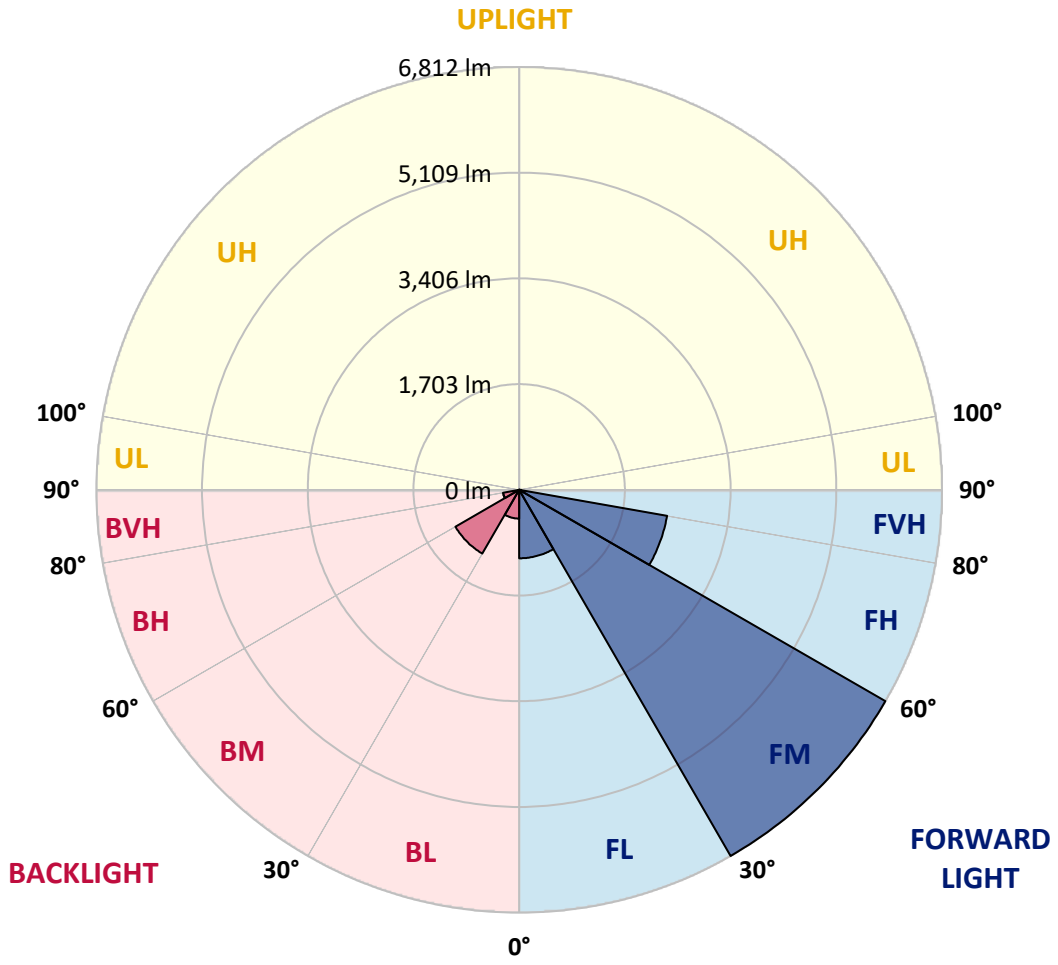
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1103.4	9.0			
FM	(30°-60°)	6812.0	55.5			
FH	(60°-80°)	2419.9	19.7			G2/5000
FVH	(80°-90°)	32.2	0.3			G1/100
BL	(0°-30°)	463.7	3.8	B1/500		
BM	(30°-60°)	1185.2	9.6	B2/2500		
BH	(60°-80°)	264.7	2.2	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2212.0	2205.1	2194.8	2198.2	2194.8	2181.0	2160.4	2143.2	2157.0	2136.3	2122.6
5°	2277.4	2277.4	2270.5	2270.5	2273.9	2267.0	2253.3	2229.2	2232.6	2215.4	2170.7
7.5°	2277.4	2267.0	2284.2	2301.4	2332.4	2349.6	2356.5	2342.7	2349.6	2315.2	2256.7
10°	2143.2	2136.3	2181.0	2246.4	2335.8	2415.0	2466.6	2470.0	2480.3	2445.9	2377.1
12.5°	1857.7	1843.9	1933.3	2057.2	2239.5	2421.8	2566.3	2621.4	2645.5	2631.7	2535.4
15°	1592.8	1610.0	1671.9	1806.1	2050.3	2329.0	2621.4	2803.7	2838.1	2855.3	2741.8
17.5°	1565.3	1568.7	1589.3	1654.7	1840.5	2177.6	2628.3	2992.9	3041.1	3116.8	2961.9
20°	1640.9	1634.1	1654.7	1675.3	1764.8	2043.4	2562.9	3175.2	3268.1	3429.8	3261.2
22.5°	1782.0	1782.0	1792.3	1806.1	1850.8	2033.1	2535.4	3343.8	3502.0	3832.3	3636.2
25°	2019.4	1991.8	1998.7	1981.5	2019.4	2157.0	2597.3	3478.0	3694.7	4279.5	4083.4
27.5°	2387.4	2397.8	2335.8	2243.0	2263.6	2380.6	2748.7	3629.3	3894.2	4743.9	4537.5
30°	2896.6	2879.4	2841.5	2659.2	2576.7	2679.9	3027.3	3877.0	4162.5	5332.2	5143.0
32.5°	3295.6	3343.8	3278.4	3151.2	3023.9	3054.8	3419.5	4276.1	4489.4	5872.3	5769.1
35°	3777.3	3777.3	3791.0	3612.1	3526.1	3519.2	3911.4	4709.5	4922.8	6360.8	6433.0
37.5°	4427.4	4382.7	4307.0	4107.5	4042.1	4128.1	4372.4	5156.7	5387.2	6756.4	6949.0
40°	4974.4	5005.4	4995.1	4706.1	4578.8	4671.7	4888.4	5538.6	5717.5	7011.0	7365.3
42.5°	5511.1	5528.3	5483.6	5345.9	5160.2	5167.1	5345.9	5827.6	6009.9	7255.2	7757.5
45°	5913.6	5910.1	5879.2	5844.8	5734.7	5621.2	5652.1	6147.5	6305.7	7334.3	7970.8
47.5°	6040.9	6068.4	6095.9	6192.2	6267.9	6089.0	5930.8	6319.5	6464.0	7320.6	8049.9
50°	5923.9	5982.4	6116.5	6261.0	6519.0	6505.3	6164.7	6505.3	6646.3	7396.3	8142.8
52.5°	5662.4	5720.9	5899.8	6161.3	6550.0	6742.6	6598.2	6818.3	6983.4	7588.9	8335.4
55°	5053.5	5077.6	5445.7	5789.7	6395.2	6639.4	7062.6	7348.1	7485.7	7822.8	8590.0
57.5°	4114.4	4172.9	4534.1	5094.8	5961.7	6367.7	7327.5	8252.9	8249.4	8046.4	8645.0
60°	*2707.4*	*2879.4*	*3467.6*	*4086.9*	*5122.3*	*5834.4*	*7310.3*	*9312.4*	*9419.1*	*7826.3*	*7981.1*
62.5°	2067.5	2139.8	2473.4	2989.5	3791.0	4836.8	7196.7	9628.9	9711.5	7234.6	6986.9
65°	1554.9	1644.4	1964.3	2425.3	2676.4	3278.4	6453.7	8369.8	8483.3	6457.1	5432.0
67.5°	952.9	1025.2	1451.7	1991.8	2026.2	2036.6	4355.2	6340.1	6381.4	5208.3	3656.8
70°	636.4	708.7	1004.5	1530.9	1613.4	1173.1	2390.9	4799.0	4795.5	3564.0	2222.3
72.5°	368.1	402.5	636.4	1128.4	1269.4	746.5	1193.7	3051.4	2917.2	1675.3	1038.9
75°	209.8	233.9	350.9	725.9	891.0	474.7	471.3	1634.1	1444.9	863.5	567.6
77.5°	127.3	137.6	192.6	474.7	536.7	319.9	261.4	760.3	732.7	505.7	299.3
80°	61.9	72.2	117.0	278.6	344.0	172.0	158.2	299.3	319.9	278.6	158.2
82.5°	20.6	27.5	65.4	106.6	223.6	68.8	65.4	165.1	175.4	165.1	75.7
85°	10.3	13.8	31.0	34.4	86.0	34.4	24.1	72.2	89.4	55.0	31.0
87.5°	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.9	6.9	6.9	6.9
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°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2112.2	2105.4	2091.6	2067.5	2064.1	2046.9	2019.4	2002.2	1988.4	1998.7	2002.2
5°	2150.1	2132.9	2091.6	2026.2	1957.4	1888.6	1823.3	1747.6	1696.0	1689.1	1675.3
7.5°	2218.9	2184.5	2095.0	1967.7	1792.3	1627.2	1434.5	1248.8	1155.9	1142.1	1111.2
10°	2329.0	2270.5	2122.6	1864.5	1527.4	1183.4	891.0	691.5	577.9	557.3	564.2
12.5°	2459.7	2377.1	2126.0	1689.1	1162.8	732.7	505.7	430.0	405.9	395.6	395.6
15°	2628.3	2507.8	2122.6	1462.1	784.3	471.3	405.9	375.0	364.7	357.8	357.8
17.5°	2841.5	2683.3	2098.5	1121.5	529.8	409.4	371.5	347.5	333.7	330.3	330.3
20°	3092.7	2879.4	2043.4	835.9	443.8	381.9	350.9	319.9	309.6	302.7	302.7
22.5°	3412.6	3116.8	1936.8	650.2	419.7	364.7	330.3	295.9	285.5	278.6	278.6
25°	3784.1	3419.5	1795.7	584.8	416.3	350.9	309.6	275.2	264.9	261.4	258.0
27.5°	4224.5	3742.9	1665.0	588.3	423.1	340.6	289.0	258.0	247.7	237.4	240.8
30°	4743.9	4076.5	1558.4	629.5	430.0	330.3	275.2	247.7	237.4	223.6	223.6
32.5°	5256.5	4468.7	1548.1	705.2	454.1	323.4	261.4	233.9	223.6	213.3	213.3
35°	5782.8	4826.5	1606.5	805.0	502.3	313.1	244.2	220.2	209.8	203.0	199.5
37.5°	6285.1	5112.0	1661.6	866.9	474.7	268.3	223.6	203.0	192.6	178.9	178.9
40°	6618.8	5266.8	1671.9	818.7	392.2	240.8	203.0	182.3	168.6	161.7	158.2
42.5°	6863.0	5366.6	1554.9	663.9	340.6	220.2	185.8	165.1	154.8	147.9	147.9
45°	6962.8	5332.2	1355.4	505.7	313.1	203.0	168.6	151.4	144.5	137.6	137.6
47.5°	6949.0	5173.9	1152.4	405.9	285.5	185.8	158.2	144.5	137.6	130.7	127.3
50°	6925.0	5026.0	946.0	361.2	254.6	175.4	147.9	137.6	127.3	120.4	117.0
52.5°	7083.2	4977.9	784.3	330.3	237.4	168.6	144.5	130.7	120.4	113.5	113.5
55°	7241.5	4998.5	615.8	309.6	220.2	165.1	141.0	127.3	117.0	106.6	106.6
57.5°	7231.1	4909.1	467.9	289.0	206.4	161.7	137.6	123.8	106.6	99.8	99.8
60°	*6574.1*	*4379.3*	*364.7*	*264.9*	*189.2*	*151.4*	*127.3*	*117.0*	*99.8*	*89.4*	*89.4*
62.5°	5559.2	3443.6	299.3	233.9	168.6	137.6	117.0	106.6	89.4	72.2	72.2
65°	4107.5	2483.8	240.8	203.0	154.8	120.4	106.6	92.9	72.2	58.5	55.0
67.5°	2779.6	1527.4	192.6	168.6	137.6	103.2	89.4	79.1	65.4	48.2	44.7
70°	1647.8	811.9	141.0	117.0	103.2	75.7	75.7	68.8	55.0	41.3	37.8
72.5°	784.3	282.1	103.2	86.0	79.1	55.0	58.5	58.5	44.7	31.0	27.5
75°	399.1	137.6	68.8	61.9	51.6	41.3	48.2	44.7	31.0	20.6	20.6
77.5°	227.0	96.3	48.2	41.3	34.4	27.5	31.0	27.5	17.2	10.3	10.3
80°	127.3	68.8	31.0	27.5	20.6	17.2	17.2	13.8	10.3	3.4	3.4
82.5°	48.2	41.3	20.6	13.8	10.3	10.3	6.9	6.9	3.4	0.0	0.0
85°	20.6	10.3	10.3	6.9	6.9	3.4	3.4	3.4	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	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°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	1974.6	1981.5	1988.4	2015.9	2022.8	2043.4	2060.6	2081.3	2084.7	2112.2	2112.2
5°	1702.9	1699.4	1757.9	1843.9	1898.9	1974.6	2033.1	2095.0	2129.4	2174.2	2194.8
7.5°	1128.4	1214.4	1345.1	1496.5	1692.5	1874.9	2012.5	2132.9	2215.4	2267.0	2287.7
10°	560.7	608.9	746.5	994.2	1327.9	1699.4	1991.8	2215.4	2349.6	2408.1	2445.9
12.5°	395.6	405.9	430.0	564.2	884.1	1410.4	1926.5	2304.9	2490.6	2600.7	2648.9
15°	354.3	361.2	371.5	409.4	547.0	1052.7	1809.5	2404.6	2710.8	2838.1	2900.0
17.5°	326.8	330.3	340.6	371.5	430.0	715.5	1620.3	2511.3	2975.7	3130.5	3247.5
20°	302.7	302.7	313.1	350.9	399.1	550.4	1348.5	2631.7	3312.8	3536.4	3653.4
22.5°	275.2	282.1	289.0	330.3	388.7	502.3	1094.0	2724.6	3687.8	3959.6	4097.2
25°	254.6	261.4	268.3	309.6	378.4	502.3	946.0	2783.1	4107.5	4430.9	4620.1
27.5°	237.4	244.2	254.6	295.9	368.1	522.9	887.6	2800.3	4565.0	4984.7	5239.3
30°	223.6	230.5	240.8	285.5	375.0	547.0	908.2	2776.2	5029.5	5555.8	5858.5
32.5°	209.8	216.7	227.0	275.2	375.0	577.9	977.0	2728.0	5480.1	6126.9	6498.4
35°	199.5	203.0	206.4	247.7	340.6	574.5	1063.0	2679.9	5934.2	6691.0	7124.5
37.5°	178.9	182.3	189.2	213.3	271.8	522.9	1080.2	2621.4	6292.0	7165.8	7644.0
40°	158.2	165.1	172.0	196.1	227.0	423.1	1004.5	2497.5	6481.2	7530.4	8111.8
42.5°	144.5	147.9	154.8	178.9	209.8	337.1	842.8	2280.8	6649.8	7778.1	8452.4
45°	134.2	137.6	144.5	161.7	196.1	292.4	663.9	2015.9	6663.5	7857.2	8617.5
47.5°	123.8	127.3	130.7	147.9	189.2	261.4	509.1	1775.1	6660.1	7960.4	8758.6
50°	117.0	120.4	127.3	141.0	178.9	233.9	419.7	1579.0	6804.6	8184.0	9044.1
52.5°	113.5	113.5	123.8	137.6	168.6	213.3	350.9	1403.6	6880.2	8404.2	9250.5
55°	106.6	110.1	117.0	130.7	158.2	203.0	299.3	1183.4	6914.6	8514.3	9288.3
57.5°	99.8	103.2	113.5	123.8	151.4	192.6	258.0	884.1	6422.7	7939.8	8655.3
60°	*89.4*	*96.3*	*110.1*	*120.4*	*141.0*	*175.4*	*227.0*	*598.6*	*5418.2*	*6900.9*	*7499.5*
62.5°	72.2	86.0	99.8	106.6	127.3	147.9	192.6	399.1	4327.7	5710.6	6391.7
65°	55.0	72.2	82.6	92.9	106.6	123.8	161.7	271.8	2886.3	3842.6	4609.8
67.5°	48.2	61.9	68.8	75.7	89.4	106.6	130.7	189.2	1751.0	2308.3	3065.1
70°	37.8	51.6	58.5	55.0	68.8	82.6	92.9	127.3	894.4	1252.2	1744.1
72.5°	27.5	41.3	44.7	44.7	41.3	58.5	68.8	89.4	388.7	608.9	791.2
75°	20.6	27.5	31.0	27.5	24.1	37.8	48.2	58.5	254.6	364.7	461.0
77.5°	10.3	10.3	17.2	17.2	10.3	20.6	24.1	34.4	144.5	213.3	264.9
80°	3.4	0.0	0.0	3.4	0.0	6.9	10.3	17.2	75.7	113.5	165.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	37.8	34.4	86.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	20.6
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: P1501889
CATALOG NUMBER: GSS-SB4A-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2105.4	*2105.4*	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2129.4	*2129.4*	2143.2	2163.8	2174.2	2181.0	2184.5	2191.4	2218.9	2212.0
5°	2218.9	*2225.8*	2236.1	2256.7	2280.8	2273.9	2273.9	2273.9	2291.1	2277.4
7.5°	2335.8	*2356.5*	2359.9	2384.0	2366.8	2332.4	2311.8	2280.8	2277.4	2277.4
10°	2525.0	*2518.2*	2518.2	2487.2	2425.3	2325.5	2236.1	2174.2	2139.8	2143.2
12.5°	2728.0	*2700.5*	2703.9	2590.4	2415.0	2194.8	2012.5	1878.3	1868.0	1857.7
15°	2979.1	*2906.9*	2893.1	2631.7	2260.2	1923.0	1744.1	1637.5	1603.1	1592.8
17.5°	3336.9	*3154.6*	3089.2	2559.5	2057.2	1754.5	1620.3	1572.1	1568.7	1565.3
20°	3715.3	*3354.1*	3230.3	2452.8	1988.4	1757.9	1658.1	1644.4	1637.5	1640.9
22.5°	4155.7	*3481.4*	3323.2	2470.0	2050.3	1871.4	1792.3	1782.0	1775.1	1782.0
25°	4609.8	*3629.3*	3433.2	2607.6	2236.1	2081.3	1988.4	1967.7	1988.4	2019.4
27.5°	5067.3	*3828.9*	3650.0	2879.4	2535.4	2366.8	2277.4	2353.0	2384.0	2387.4
30°	5473.2	*4107.5*	3942.4	3261.2	2875.9	2707.4	2724.6	2820.9	2858.7	2896.6
32.5°	5844.8	*4479.0*	4351.8	3694.7	3316.3	3216.5	3206.2	3278.4	3319.7	3295.6
35°	6219.7	*4964.1*	4840.3	4166.0	3856.4	3773.8	3687.8	3828.9	3815.1	3777.3
37.5°	6574.1	*5452.6*	5339.1	4671.7	4351.8	4207.3	4193.5	4320.8	4434.3	4427.4
40°	6828.6	*5848.2*	5710.6	5173.9	4871.2	4747.4	4819.6	5039.8	5012.3	4974.4
42.5°	7062.6	*6185.3*	6061.5	5614.3	5297.8	5352.8	5418.2	5566.1	5548.9	5511.1
45°	7172.7	*6474.3*	6367.7	5948.0	5793.2	5968.6	5965.2	6020.2	5927.3	5913.6
47.5°	7327.5	*6680.7*	6570.6	6247.3	6384.9	6457.1	6254.1	6195.7	6109.7	6040.9
50°	7613.0	*7000.6*	6890.6	6701.4	6818.3	6594.7	6347.0	6219.7	6044.3	5923.9
52.5°	7946.7	*7485.7*	7389.4	7313.7	6986.9	6525.9	6209.4	5978.9	5765.6	5662.4
55°	8366.4	*8201.3*	8132.4	7716.2	6835.5	6243.8	5872.3	5442.3	5149.9	5053.5
57.5°	8504.0	*9250.5*	9226.4	7781.6	6412.4	5731.2	5060.4	4479.0	4176.3	4114.4
60°	*8098.0*	*10072.7*	*9986.7*	*7671.5*	*5645.2*	*4651.0*	*3866.7*	*3271.6*	*2779.6*	*2707.4*
62.5°	7578.6	*9443.1*	9412.2	7117.6	4300.2	3333.5	2889.7	2332.4	2122.6	2067.5
65°	6491.5	*7726.5*	7740.3	5710.6	2721.1	2394.3	2373.7	1854.2	1596.2	1554.9
67.5°	4998.5	*5927.3*	5831.0	3591.5	1585.9	1916.1	1895.5	1355.4	980.4	952.9
70°	2920.7	*4413.7*	4258.9	1868.0	1049.2	1599.7	1458.6	952.9	667.4	636.4
72.5°	1290.0	*2428.7*	2607.6	822.2	739.6	1272.8	1052.7	584.8	375.0	368.1
75°	715.5	*1204.0*	1259.1	357.8	519.5	904.8	636.4	326.8	213.3	209.8
77.5°	430.0	*533.2*	519.5	230.5	388.7	577.9	385.3	185.8	134.2	127.3
80°	240.8	*244.2*	206.4	168.6	230.5	323.4	216.7	117.0	61.9	61.9
82.5°	147.9	*134.2*	106.6	51.6	61.9	196.1	79.1	65.4	20.6	20.6
85°	61.9	*41.3*	27.5	10.3	24.1	51.6	27.5	31.0	10.3	10.3
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

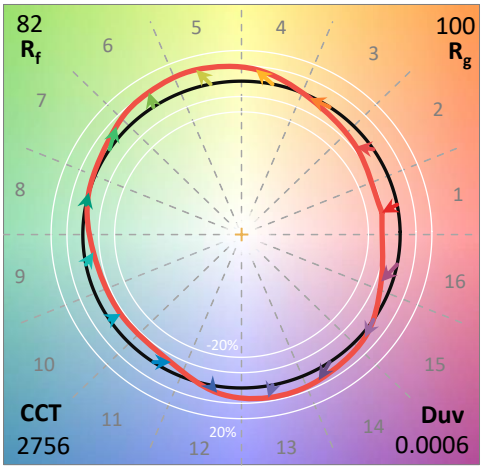
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

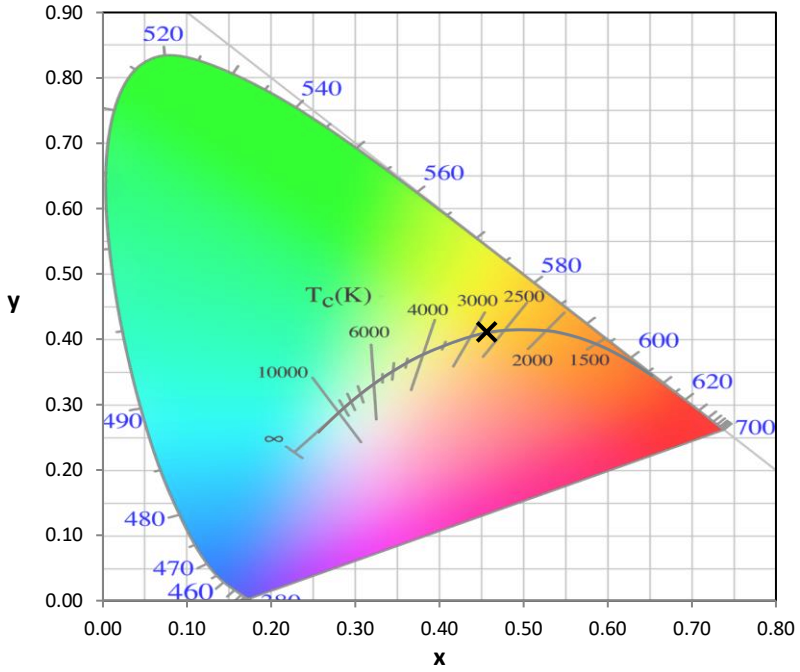
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

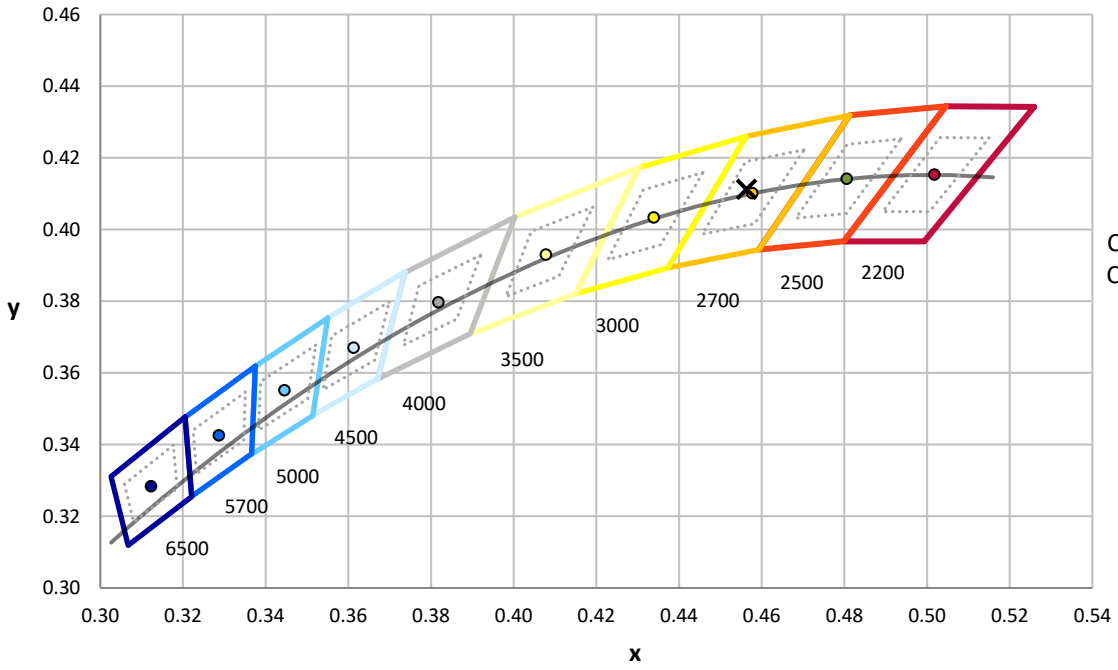
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

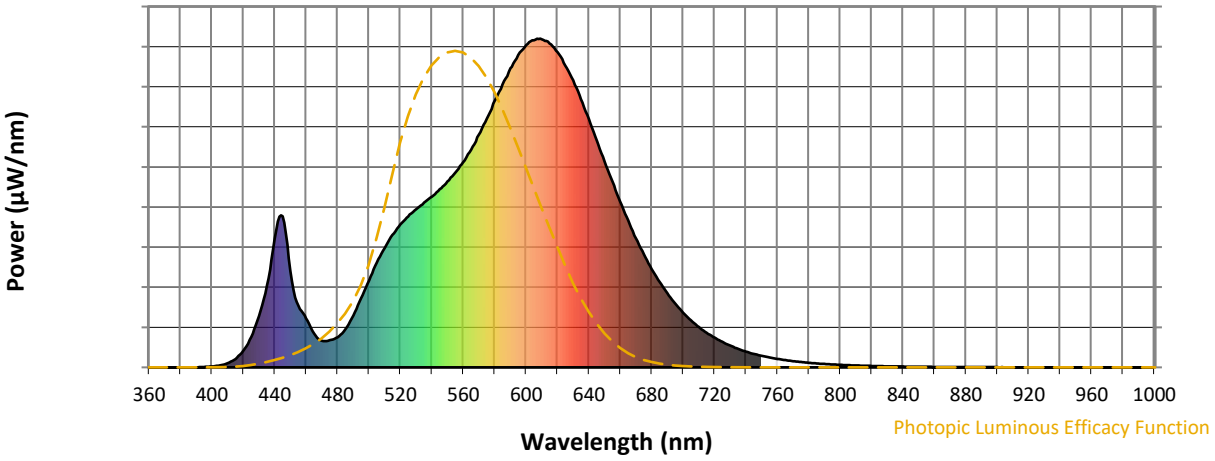


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

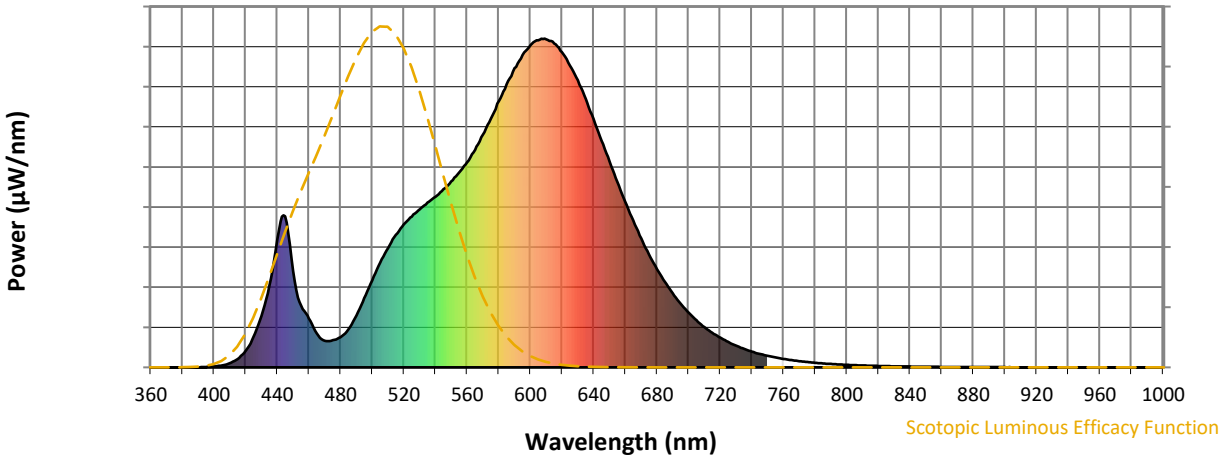


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

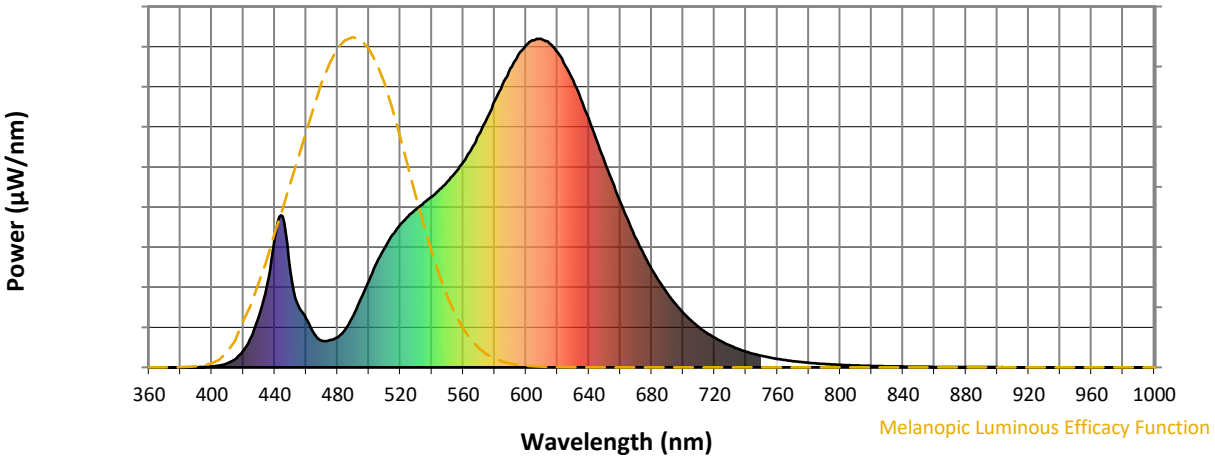


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

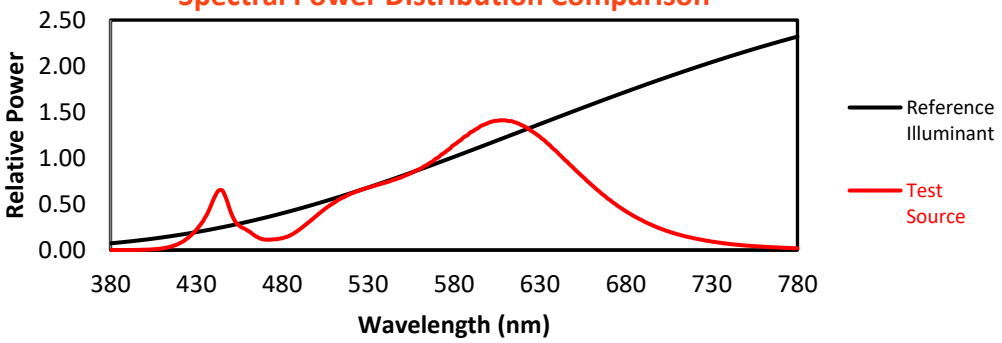
REPORT NUMBER: SP1-2407-184-8

TM-30-18

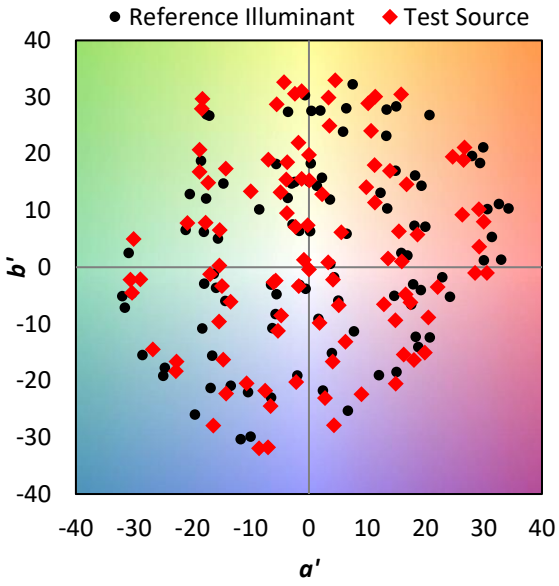
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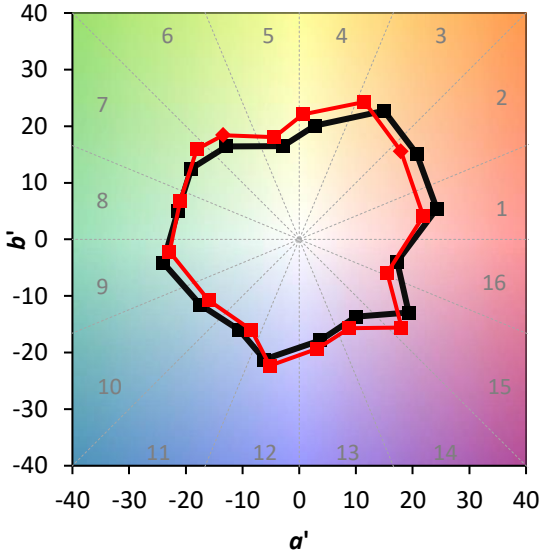
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

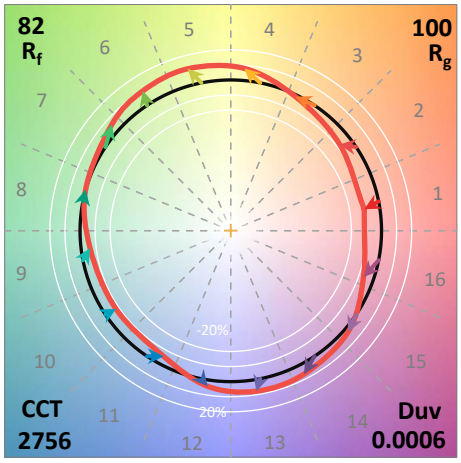
Spectral Power Distribution Comparison

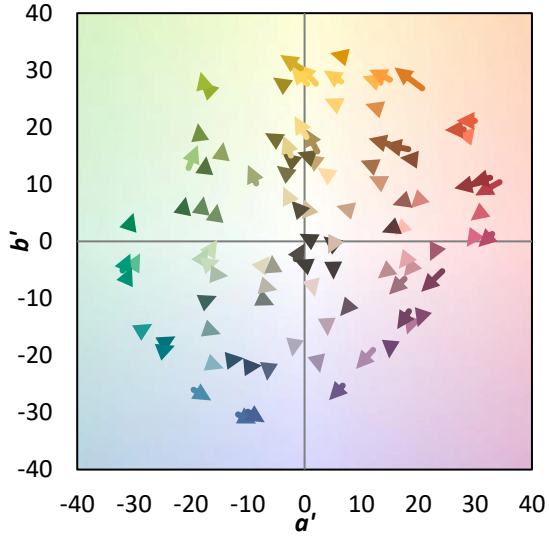


Color Vector Graphics







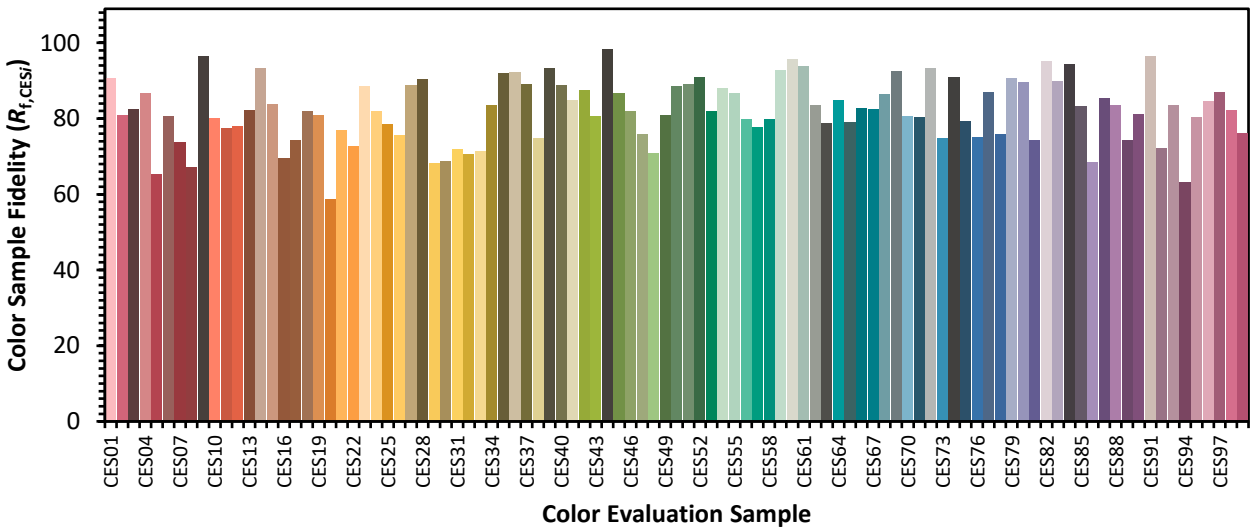


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Individual Sample Fidelity Index ($R_{f,i}$)

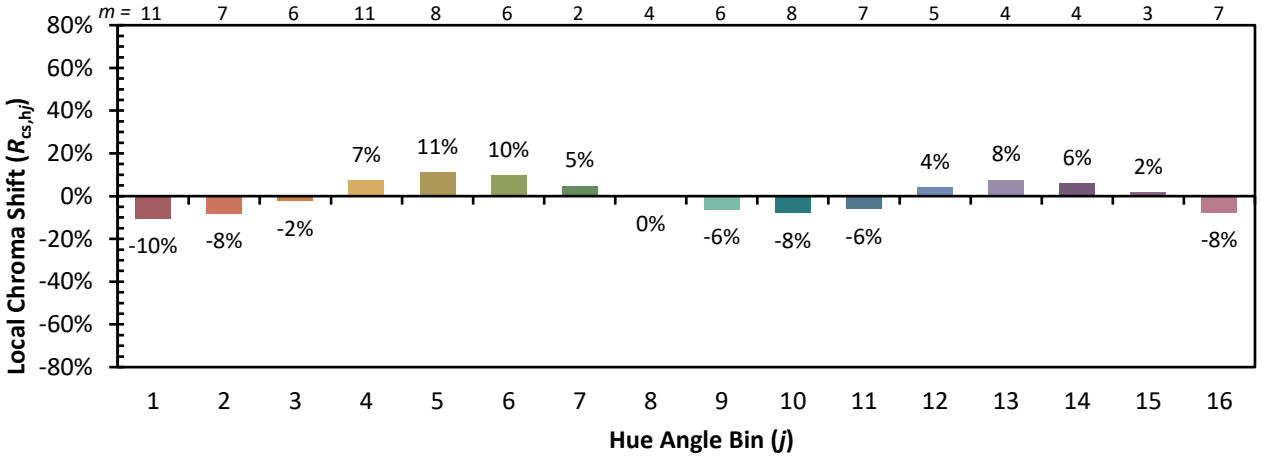
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

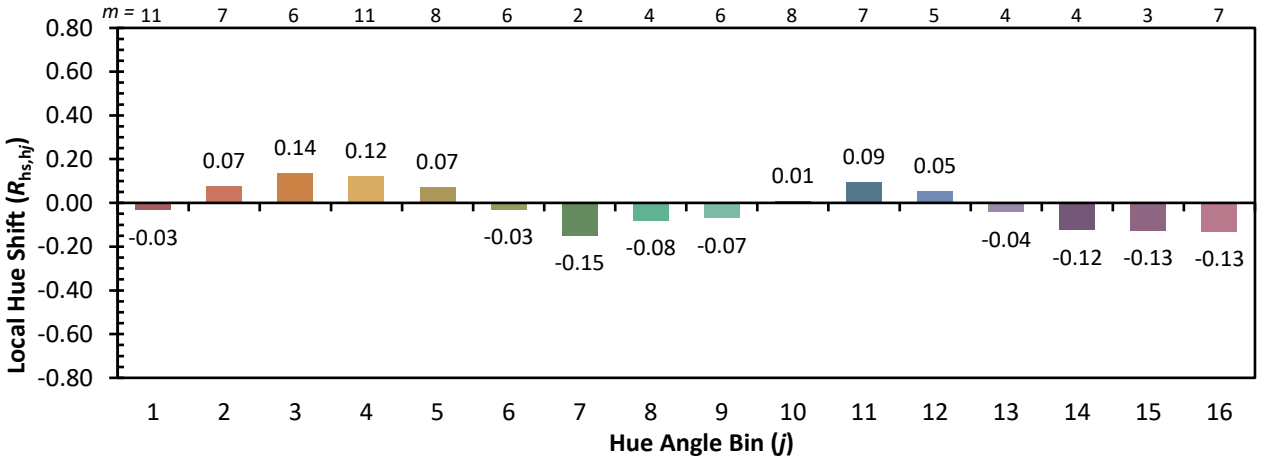


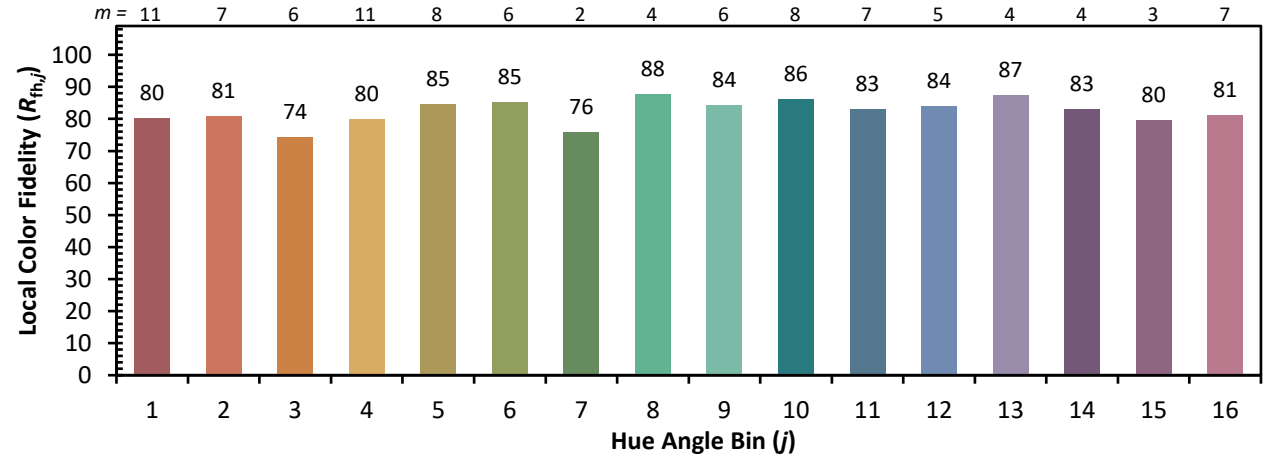
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Color Rendition by Hue-Angle Bin



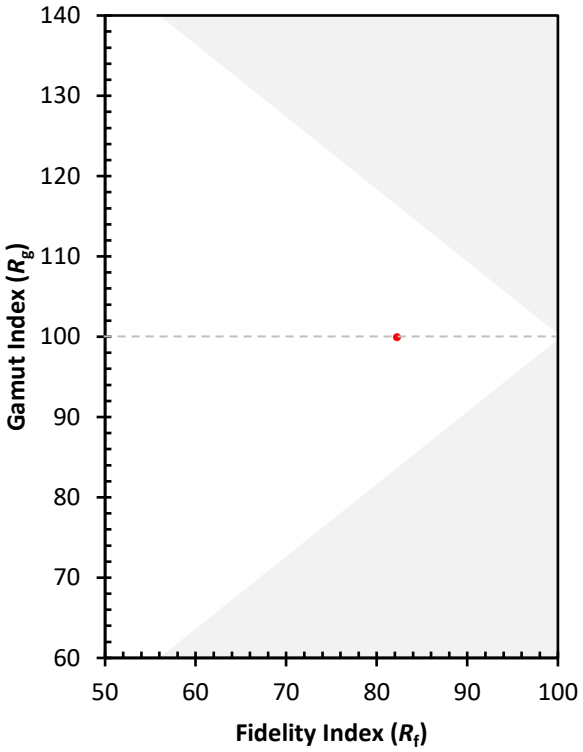


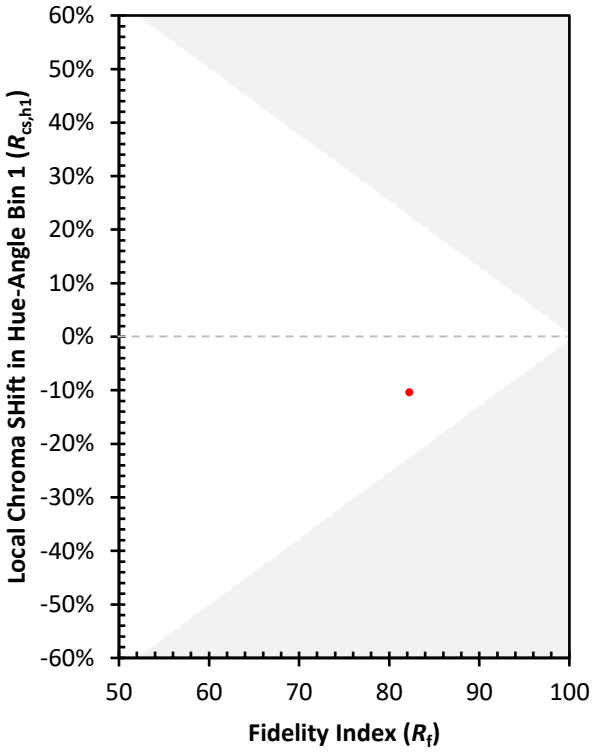


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Measure Comparisons





(END OF REPORT)