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: P1501913

Luminaire Tested: GSS-SB4A-830-U-T2LG-HSS

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501913
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-830-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12687.5 lumens
Efficiency:	N/A
Efficacy:	111.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

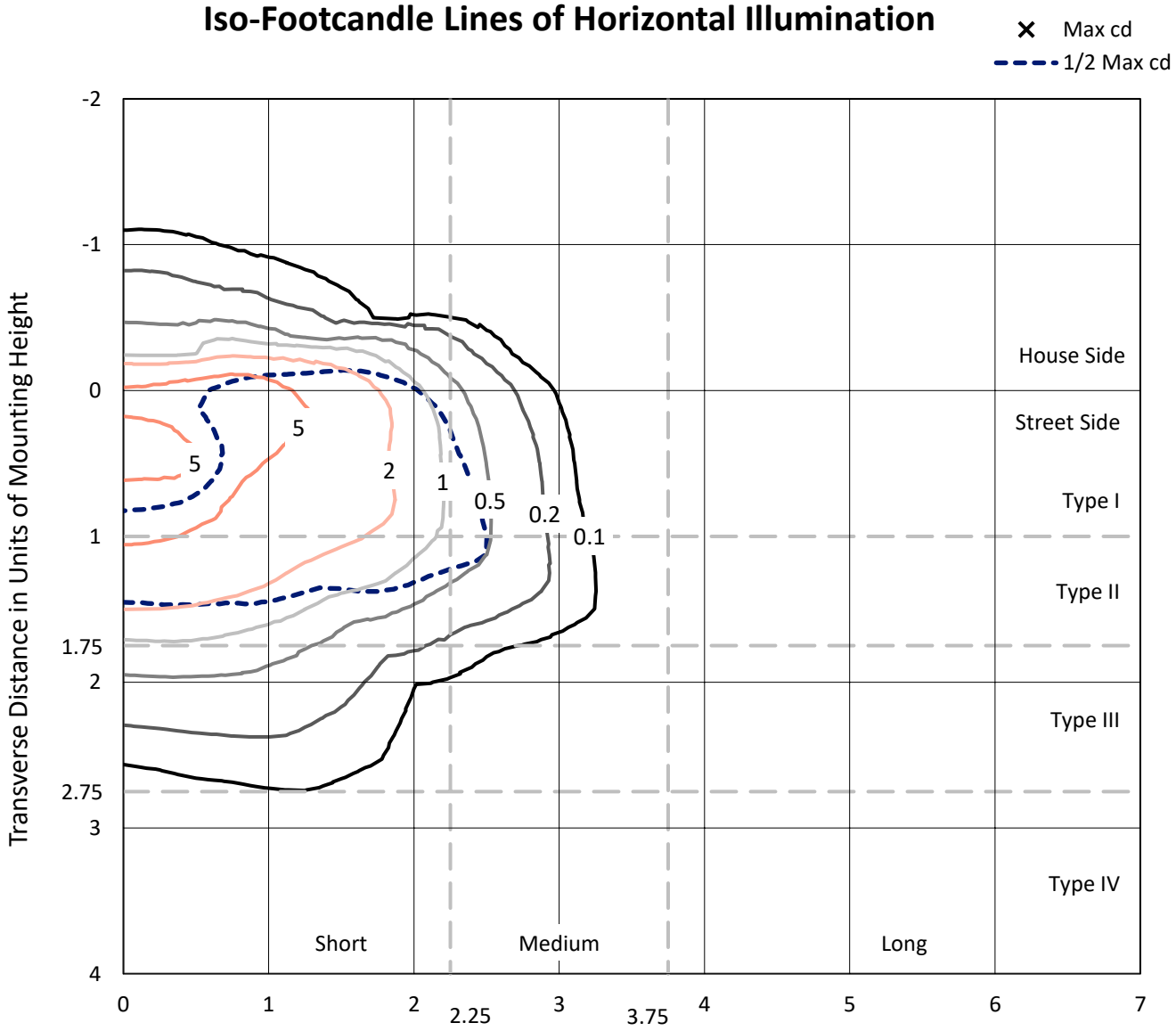
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



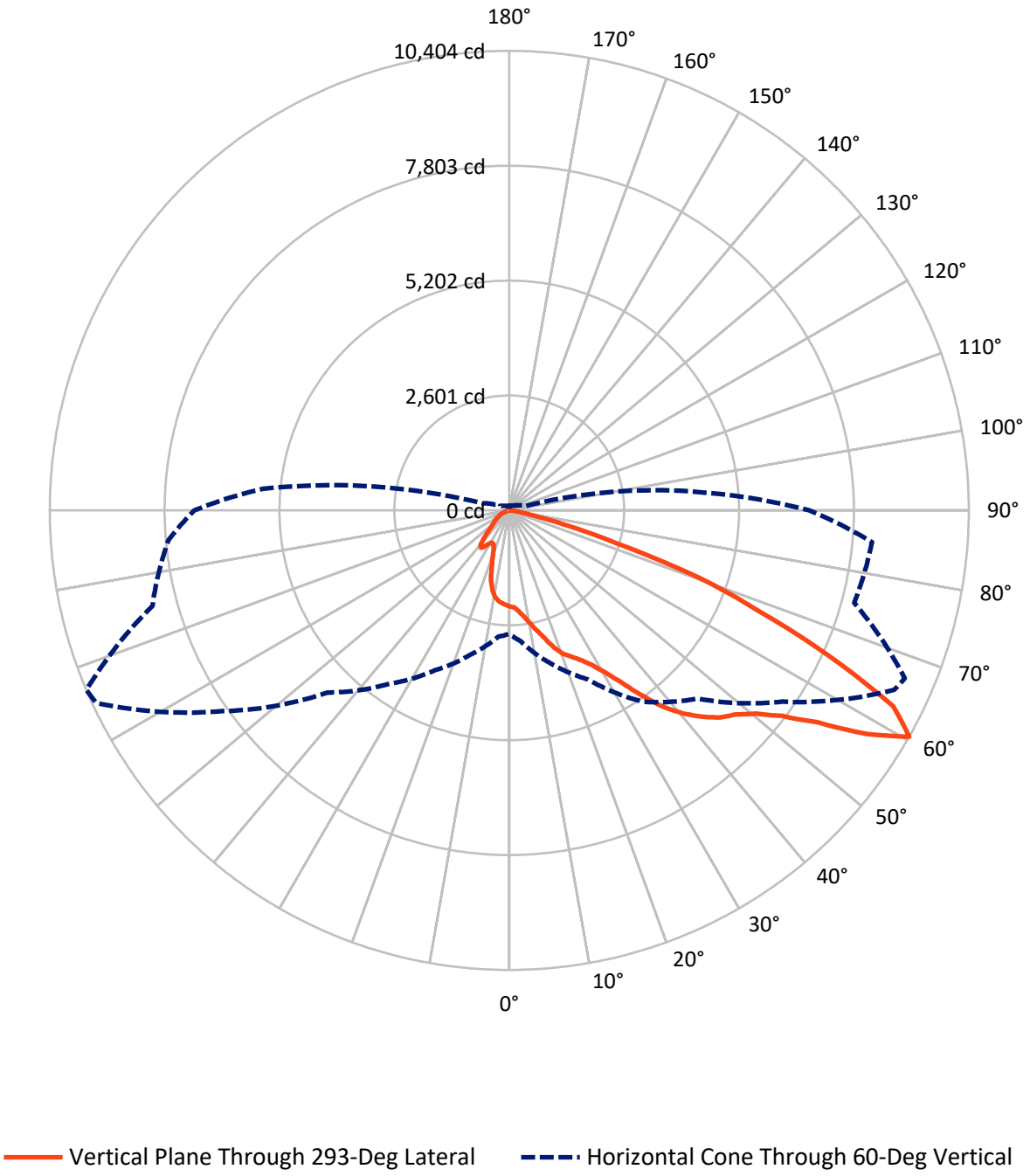
Based on 20 foot mounting height. Maximum calculated value = 9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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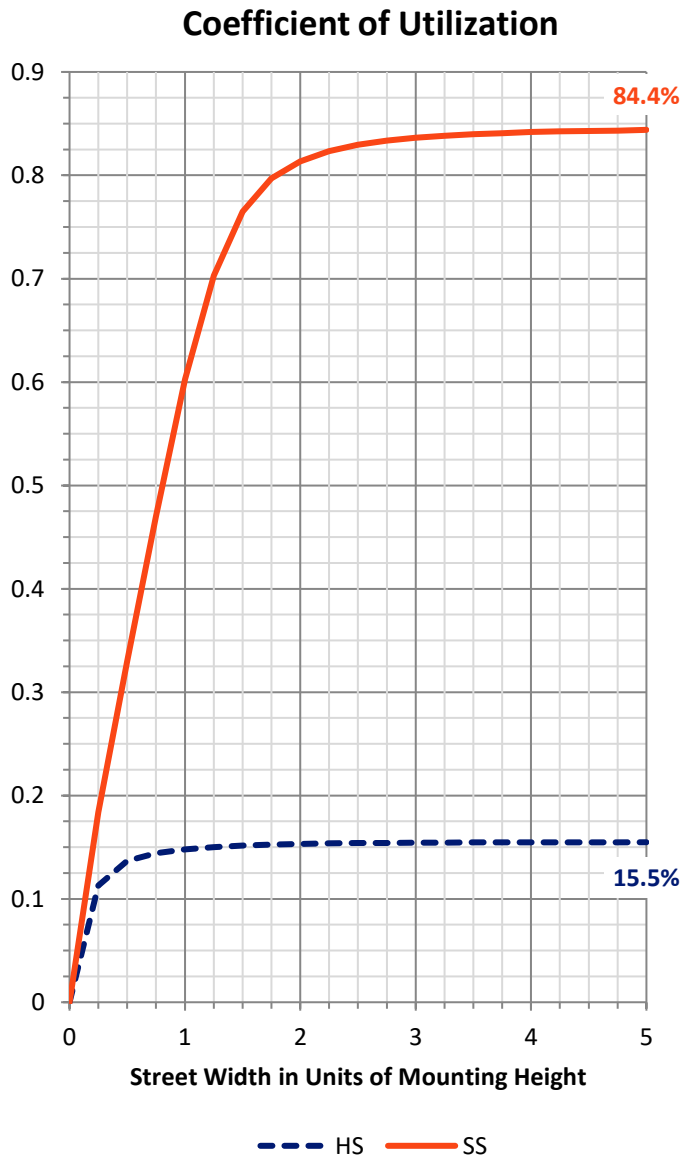
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1979.6	0.0	1979.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10707.9	0.0	10707.9
	% Fixture	84.4	0.0	84.4
Total	Lumens	12687.5	0.0	12687.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.6
10°-20°	495.9	3.9
20°-30°	925.7	7.3
30°-40°	1835.8	14.5
40°-50°	2927.0	23.1
50°-60°	3497.0	27.6
60°-70°	2292.5	18.1
70°-80°	480.3	3.8
80°-90°	36.3	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°	12687.5	100.0
0°-180°	12687.5	100.0



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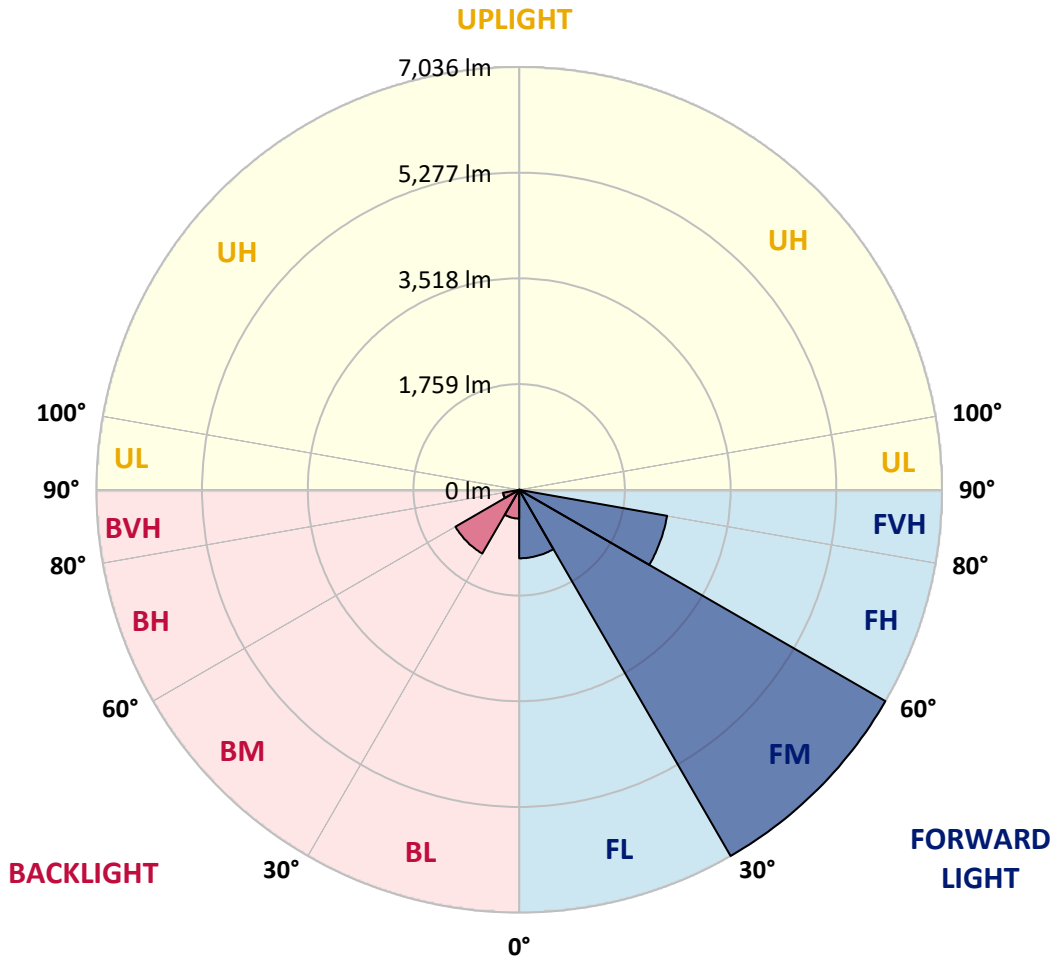
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1139.6	9.0			
FM	(30°-60°)	7035.7	55.5			
FH	(60°-80°)	2499.4	19.7			G2/5000
FVH	(80°-90°)	33.3	0.3			G1/100
BL	(0°-30°)	478.9	3.8	B1/500		
BM	(30°-60°)	1224.2	9.6	B2/2500		
BH	(60°-80°)	273.4	2.2	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5
2.5°	2284.7	2277.5	2266.9	2270.4	2266.9	2252.7	2231.4	2213.6	2227.8	2206.5	2192.3
5°	2352.2	2352.2	2345.1	2345.1	2348.6	2341.5	2327.3	2302.4	2306.0	2288.2	2242.0
7.5°	2352.2	2341.5	2359.3	2377.0	2409.0	2426.8	2433.9	2419.7	2426.8	2391.2	2330.8
10°	2213.6	2206.5	2252.7	2320.2	2412.6	2494.3	2547.6	2551.1	2561.8	2526.3	2455.2
12.5°	1918.7	1904.5	1996.9	2124.8	2313.1	2501.4	2650.6	2707.5	2732.3	2718.1	2618.6
15°	1645.1	1662.9	1726.8	1865.4	2117.7	2405.5	2707.5	2895.8	2931.3	2949.1	2831.8
17.5°	1616.7	1620.2	1641.5	1709.0	1900.9	2249.1	2714.6	3091.2	3141.0	3219.1	3059.2
20°	1694.8	1687.7	1709.0	1730.4	1822.7	2110.6	2647.1	3279.5	3375.5	3542.5	3368.4
22.5°	1840.5	1840.5	1851.2	1865.4	1911.6	2099.9	2618.6	3453.6	3617.1	3958.2	3755.6
25°	2085.7	2057.3	2064.4	2046.6	2085.7	2227.8	2682.6	3592.2	3816.0	4420.1	4217.6
27.5°	2465.9	2476.5	2412.6	2316.6	2338.0	2458.8	2838.9	3748.5	4022.1	4899.8	4686.6
30°	2991.7	2974.0	2934.9	2746.6	2661.3	2767.9	3126.7	4004.4	4299.3	5507.3	5311.9
32.5°	3403.9	3453.6	3386.1	3254.7	3123.2	3155.2	3531.8	4416.5	4636.8	6065.2	5958.6
35°	3901.3	3901.3	3915.5	3730.8	3641.9	3634.8	4039.9	4864.2	5084.5	6569.7	6644.3
37.5°	4572.9	4526.7	4448.5	4242.4	4174.9	4263.7	4516.0	5326.1	5564.2	6978.3	7177.3
40°	5137.8	5169.8	5159.1	4860.7	4729.2	4825.1	5049.0	5720.5	5905.3	7241.3	7607.2
42.5°	5692.1	5709.9	5663.7	5521.5	5329.7	5336.8	5521.5	6019.0	6207.3	7493.5	8012.3
45°	6107.8	6104.3	6072.3	6036.7	5923.0	5805.8	5837.8	6349.4	6512.9	7575.2	8232.6
47.5°	6239.3	6267.7	6296.1	6395.6	6473.8	6289.0	6125.6	6527.1	6676.3	7561.0	8314.3
50°	6118.5	6178.9	6317.4	6466.7	6733.2	6718.9	6367.2	6718.9	6864.6	7639.2	8410.2
52.5°	5848.4	5908.8	6093.6	6363.6	6765.1	6964.1	6814.9	7042.3	7212.8	7838.2	8609.2
55°	5219.5	5244.4	5624.6	5979.9	6605.2	6857.5	7294.6	7589.5	7731.6	8079.8	8872.1
57.5°	4249.5	4309.9	4683.0	5262.2	6157.6	6576.8	7568.1	8523.9	8520.4	8310.7	8929.0
60°	*2796.3*	*2974.0*	*3581.5*	*4221.1*	*5290.6*	*6026.1*	*7550.4*	*9618.3*	*9728.4*	*8083.3*	*8243.2*
62.5°	2135.4	2210.0	2554.7	3087.7	3915.5	4995.7	7433.1	9945.2	10030.5	7472.2	7216.4
65°	1606.0	1698.4	2028.8	2504.9	2764.3	3386.1	6665.7	8644.7	8762.0	6669.2	5610.4
67.5°	984.2	1058.8	1499.4	2057.3	2092.8	2103.4	4498.2	6548.4	6591.0	5379.4	3777.0
70°	657.3	731.9	1037.5	1581.1	1666.4	1211.6	2469.4	4956.6	4953.0	3681.0	2295.3
72.5°	380.2	415.7	657.3	1165.4	1311.1	771.0	1232.9	3151.6	3013.0	1730.4	1073.0
75°	216.7	241.6	362.4	749.7	920.3	490.3	486.8	1687.7	1492.3	891.8	586.3
77.5°	131.5	142.1	199.0	490.3	554.3	330.4	270.0	785.2	756.8	522.3	309.1
80°	64.0	74.6	120.8	287.8	355.3	177.7	163.4	309.1	330.4	287.8	163.4
82.5°	21.3	28.4	67.5	110.1	231.0	71.1	67.5	170.5	181.2	170.5	78.2
85°	10.7	14.2	32.0	35.5	88.8	35.5	24.9	74.6	92.4	56.8	32.0
87.5°	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1	7.1	7.1
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°	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5
2.5°	2181.6	2174.5	2160.3	2135.4	2131.9	2114.1	2085.7	2067.9	2053.7	2064.4	2067.9
5°	2220.7	2202.9	2160.3	2092.8	2021.7	1950.7	1883.2	1805.0	1751.7	1744.6	1730.4
7.5°	2291.8	2256.2	2163.8	2032.4	1851.2	1680.6	1481.7	1289.8	1193.8	1179.6	1147.7
10°	2405.5	2345.1	2192.3	1925.8	1577.6	1222.3	920.3	714.2	596.9	575.6	582.7
12.5°	2540.5	2455.2	2195.8	1744.6	1201.0	756.8	522.3	444.1	419.3	408.6	408.6
15°	2714.6	2590.2	2192.3	1510.1	810.1	486.8	419.3	387.3	376.6	369.5	369.5
17.5°	2934.9	2771.4	2167.4	1158.3	547.2	422.8	383.7	358.9	344.7	341.1	341.1
20°	3194.3	2974.0	2110.6	863.4	458.4	394.4	362.4	330.4	319.8	312.7	312.7
22.5°	3524.7	3219.1	2000.4	671.5	433.5	376.6	341.1	305.6	294.9	287.8	287.8
25°	3908.4	3531.8	1854.7	604.0	429.9	362.4	319.8	284.2	273.6	270.0	266.5
27.5°	4363.2	3865.8	1719.7	607.6	437.0	351.8	298.5	266.5	255.8	245.2	248.7
30°	4899.8	4210.4	1609.6	650.2	444.1	341.1	284.2	255.8	245.2	231.0	231.0
32.5°	5429.2	4615.5	1598.9	728.4	469.0	334.0	270.0	241.6	231.0	220.3	220.3
35°	5972.8	4985.0	1659.3	831.4	518.8	323.3	252.3	227.4	216.7	209.6	206.1
37.5°	6491.5	5279.9	1716.2	895.4	490.3	277.1	231.0	209.6	199.0	184.8	184.8
40°	6836.2	5439.8	1726.8	845.6	405.1	248.7	209.6	188.3	174.1	167.0	163.4
42.5°	7088.5	5542.9	1606.0	685.8	351.8	227.4	191.9	170.5	159.9	152.8	152.8
45°	7191.5	5507.3	1399.9	522.3	323.3	209.6	174.1	156.3	149.2	142.1	142.1
47.5°	7177.3	5343.9	1190.3	419.3	294.9	191.9	163.4	149.2	142.1	135.0	131.5
50°	7152.4	5191.1	977.1	373.1	262.9	181.2	152.8	142.1	131.5	124.4	120.8
52.5°	7315.9	5141.4	810.1	341.1	245.2	174.1	149.2	135.0	124.4	117.3	117.3
55°	7479.3	5162.7	636.0	319.8	227.4	170.5	145.7	131.5	120.8	110.1	110.1
57.5°	7468.7	5070.3	483.2	298.5	213.2	167.0	142.1	127.9	110.1	103.0	103.0
60°	*6790.0*	*4523.1*	*376.6*	*273.6*	*195.4*	*156.3*	*131.5*	*120.8*	*103.0*	*92.4*	*92.4*
62.5°	5741.8	3556.7	309.1	241.6	174.1	142.1	120.8	110.1	92.4	74.6	74.6
65°	4242.4	2565.4	248.7	209.6	159.9	124.4	110.1	95.9	74.6	60.4	56.8
67.5°	2870.9	1577.6	199.0	174.1	142.1	106.6	92.4	81.7	67.5	49.7	46.2
70°	1701.9	838.5	145.7	120.8	106.6	78.2	78.2	71.1	56.8	42.6	39.1
72.5°	810.1	291.4	106.6	88.8	81.7	56.8	60.4	60.4	46.2	32.0	28.4
75°	412.2	142.1	71.1	64.0	53.3	42.6	49.7	46.2	32.0	21.3	21.3
77.5°	234.5	99.5	49.7	42.6	35.5	28.4	32.0	28.4	17.8	10.7	10.7
80°	131.5	71.1	32.0	28.4	21.3	17.8	17.8	14.2	10.7	3.6	3.6
82.5°	49.7	42.6	21.3	14.2	10.7	10.7	7.1	7.1	3.6	0.0	0.0
85°	21.3	10.7	10.7	7.1	7.1	3.6	3.6	3.6	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	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°	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5
2.5°	2039.5	2046.6	2053.7	2082.1	2089.2	2110.6	2128.3	2149.6	2153.2	2181.6	2181.6
5°	1758.8	1755.2	1815.6	1904.5	1961.3	2039.5	2099.9	2163.8	2199.4	2245.6	2266.9
7.5°	1165.4	1254.3	1389.3	1545.6	1748.1	1936.4	2078.6	2202.9	2288.2	2341.5	2362.8
10°	579.2	628.9	771.0	1026.9	1371.5	1755.2	2057.3	2288.2	2426.8	2487.2	2526.3
12.5°	408.6	419.3	444.1	582.7	913.2	1456.8	1989.7	2380.6	2572.5	2686.2	2735.9
15°	366.0	373.1	383.7	422.8	564.9	1087.3	1868.9	2483.6	2799.9	2931.3	2995.3
17.5°	337.5	341.1	351.8	383.7	444.1	739.0	1673.5	2593.8	3073.4	3233.3	3354.1
20°	312.7	312.7	323.3	362.4	412.2	568.5	1392.8	2718.1	3421.7	3652.6	3773.4
22.5°	284.2	291.4	298.5	341.1	401.5	518.8	1129.9	2814.1	3808.9	4089.6	4231.8
25°	262.9	270.0	277.1	319.8	390.8	518.8	977.1	2874.5	4242.4	4576.4	4771.8
27.5°	245.2	252.3	262.9	305.6	380.2	540.1	916.7	2892.2	4715.0	5148.5	5411.4
30°	231.0	238.1	248.7	294.9	387.3	564.9	938.0	2867.4	5194.7	5738.3	6051.0
32.5°	216.7	223.8	234.5	284.2	387.3	596.9	1009.1	2817.6	5660.1	6328.1	6711.8
35°	206.1	209.6	213.2	255.8	351.8	593.4	1097.9	2767.9	6129.1	6910.8	7358.5
37.5°	184.8	188.3	195.4	220.3	280.7	540.1	1115.7	2707.5	6498.7	7401.1	7895.0
40°	163.4	170.5	177.7	202.5	234.5	437.0	1037.5	2579.6	6694.1	7777.8	8378.3
42.5°	149.2	152.8	159.9	184.8	216.7	348.2	870.5	2355.7	6868.2	8033.6	8730.0
45°	138.6	142.1	149.2	167.0	202.5	302.0	685.8	2082.1	6882.4	8115.3	8900.6
47.5°	127.9	131.5	135.0	152.8	195.4	270.0	525.9	1833.4	6878.8	8221.9	9046.2
50°	120.8	124.4	131.5	145.7	184.8	241.6	433.5	1630.9	7028.1	8452.9	9341.1
52.5°	117.3	117.3	127.9	142.1	174.1	220.3	362.4	1449.7	7106.2	8680.3	9554.3
55°	110.1	113.7	120.8	135.0	163.4	209.6	309.1	1222.3	7141.8	8794.0	9593.4
57.5°	103.0	106.6	117.3	127.9	156.3	199.0	266.5	913.2	6633.7	8200.6	8939.6
60°	*92.4*	*99.5*	*113.7*	*124.4*	*145.7*	*181.2*	*234.5*	*618.2*	*5596.2*	*7127.6*	*7745.8*
62.5°	74.6	88.8	103.0	110.1	131.5	152.8	199.0	412.2	4469.8	5898.2	6601.7
65°	56.8	74.6	85.3	95.9	110.1	127.9	167.0	280.7	2981.1	3968.8	4761.2
67.5°	49.7	64.0	71.1	78.2	92.4	110.1	135.0	195.4	1808.5	2384.1	3165.8
70°	39.1	53.3	60.4	56.8	71.1	85.3	95.9	131.5	923.8	1293.3	1801.4
72.5°	28.4	42.6	46.2	46.2	42.6	60.4	71.1	92.4	401.5	628.9	817.2
75°	21.3	28.4	32.0	28.4	24.9	39.1	49.7	60.4	262.9	376.6	476.1
77.5°	10.7	10.7	17.8	17.8	10.7	21.3	24.9	35.5	149.2	220.3	273.6
80°	3.6	0.0	0.0	3.6	0.0	7.1	10.7	17.8	78.2	117.3	170.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	39.1	35.5	88.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	21.3
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

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

Scaled Data Report

REPORT NUMBER: P1501913
CATALOG NUMBER: GSS-SB4A-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5	2174.5
2.5°	2199.4	2199.4	2213.6	2234.9	2245.6	2252.7	2256.2	2263.3	2291.8	2284.7
5°	2291.8	2298.9	2309.5	2330.8	2355.7	2348.6	2348.6	2348.6	2366.4	2352.2
7.5°	2412.6	2433.9	2437.4	2462.3	2444.5	2409.0	2387.7	2355.7	2352.2	2352.2
10°	2608.0	2600.9	2600.9	2568.9	2504.9	2401.9	2309.5	2245.6	2210.0	2213.6
12.5°	2817.6	2789.2	2792.8	2675.5	2494.3	2266.9	2078.6	1940.0	1929.3	1918.7
15°	3077.0	3002.4	2988.2	2718.1	2334.4	1986.2	1801.4	1691.3	1655.8	1645.1
17.5°	3446.5	3258.2	3190.7	2643.5	2124.8	1812.1	1673.5	1623.8	1620.2	1616.7
20°	3837.4	3464.3	3336.4	2533.4	2053.7	1815.6	1712.6	1698.4	1691.3	1694.8
22.5°	4292.2	3595.8	3432.3	2551.1	2117.7	1932.9	1851.2	1840.5	1833.4	1840.5
25°	4761.2	3748.5	3546.0	2693.3	2309.5	2149.6	2053.7	2032.4	2053.7	2085.7
27.5°	5233.7	3954.6	3769.9	2974.0	2618.6	2444.5	2352.2	2430.3	2462.3	2465.9
30°	5653.0	4242.4	4071.9	3368.4	2970.4	2796.3	2814.1	2913.6	2952.6	2991.7
32.5°	6036.7	4626.2	4494.7	3816.0	3425.2	3322.2	3311.5	3386.1	3428.8	3403.9
35°	6424.0	5127.1	4999.2	4302.8	3983.0	3897.8	3808.9	3954.6	3940.4	3901.3
37.5°	6790.0	5631.7	5514.4	4825.1	4494.7	4345.5	4331.3	4462.7	4580.0	4572.9
40°	7052.9	6040.3	5898.2	5343.9	5031.2	4903.3	4977.9	5205.3	5176.9	5137.8
42.5°	7294.6	6388.5	6260.6	5798.7	5471.8	5528.7	5596.2	5748.9	5731.2	5692.1
45°	7408.3	6687.0	6576.8	6143.3	5983.5	6164.7	6161.1	6218.0	6122.0	6107.8
47.5°	7568.1	6900.2	6786.5	6452.5	6594.6	6669.2	6459.6	6399.2	6310.3	6239.3
50°	7863.1	7230.6	7116.9	6921.5	7042.3	6811.3	6555.5	6424.0	6242.8	6118.5
52.5°	8207.7	7731.6	7632.1	7553.9	7216.4	6740.3	6413.4	6175.3	5955.0	5848.4
55°	8641.2	8470.6	8399.6	7969.6	7060.0	6448.9	6065.2	5621.0	5319.0	5219.5
57.5°	8783.3	9554.3	9529.5	8037.2	6623.0	5919.5	5226.6	4626.2	4313.5	4249.5
60°	8364.0	10403.5	10314.7	7923.5	5830.7	4803.8	3993.7	3379.0	2870.9	2796.3
62.5°	7827.5	9753.3	9721.3	7351.4	4441.4	3443.0	2984.6	2409.0	2192.3	2135.4
65°	6704.7	7980.3	7994.5	5898.2	2810.5	2473.0	2451.7	1915.1	1648.6	1606.0
67.5°	5162.7	6122.0	6022.5	3709.5	1638.0	1979.1	1957.8	1399.9	1012.6	984.2
70°	3016.6	4558.7	4398.8	1929.3	1083.7	1652.2	1506.5	984.2	689.3	657.3
72.5°	1332.4	2508.5	2693.3	849.2	763.9	1314.7	1087.3	604.0	387.3	380.2
75°	739.0	1243.6	1300.4	369.5	536.5	934.5	657.3	337.5	220.3	216.7
77.5°	444.1	550.7	536.5	238.1	401.5	596.9	397.9	191.9	138.6	131.5
80°	248.7	252.3	213.2	174.1	238.1	334.0	223.8	120.8	64.0	64.0
82.5°	152.8	138.6	110.1	53.3	64.0	202.5	81.7	67.5	21.3	21.3
85°	64.0	42.6	28.4	10.7	24.9	53.3	28.4	32.0	10.7	10.7
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: SP1-2407-184-9

Test Date: 10/10/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

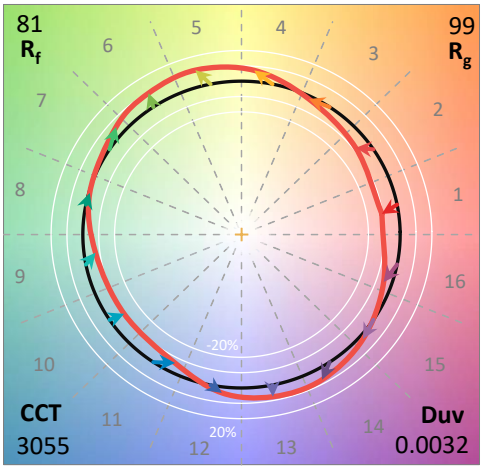
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

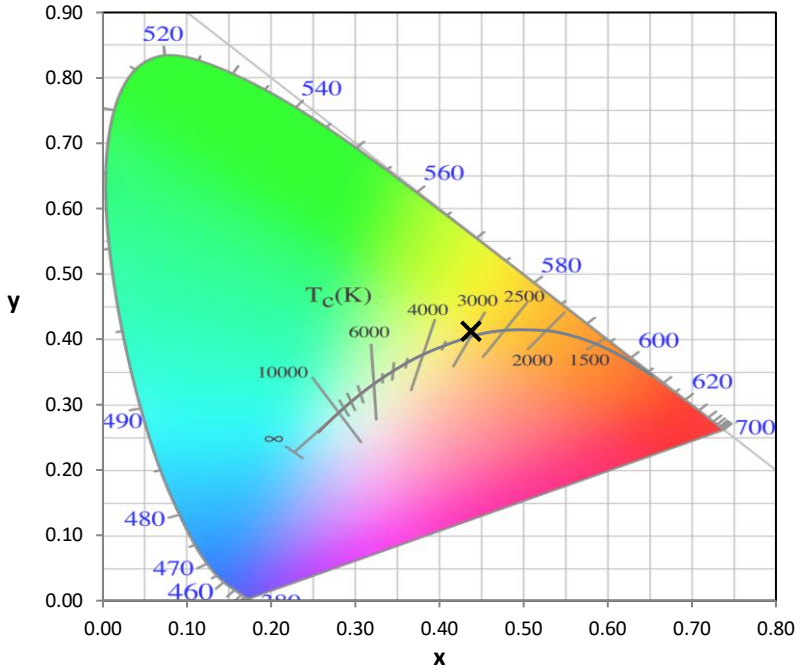
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

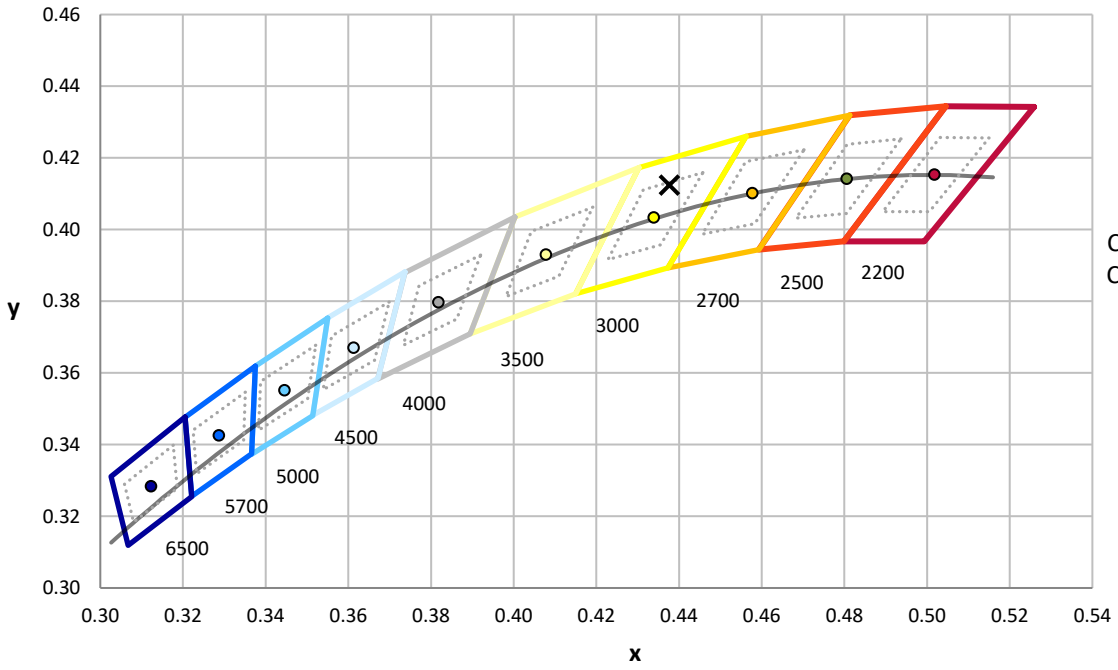
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

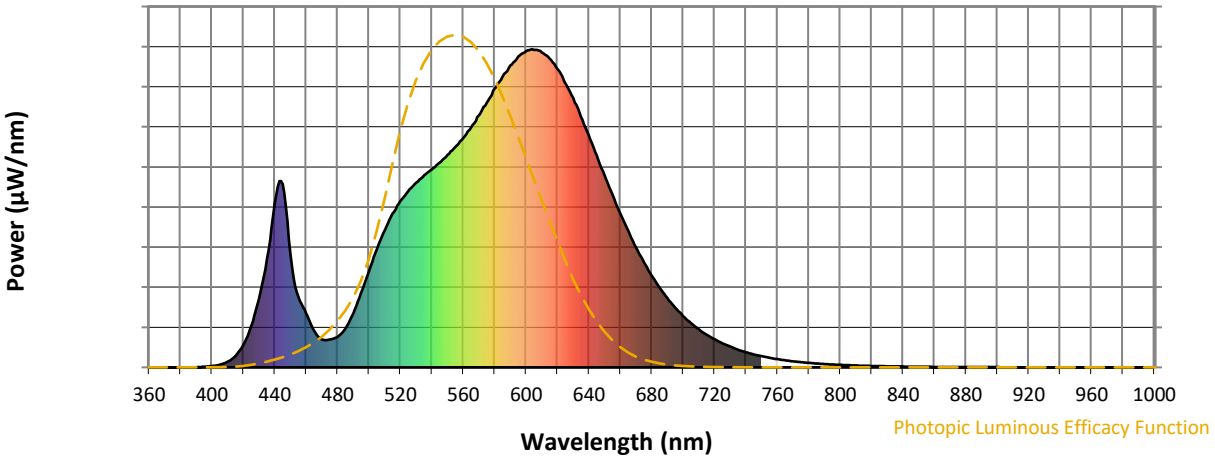


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

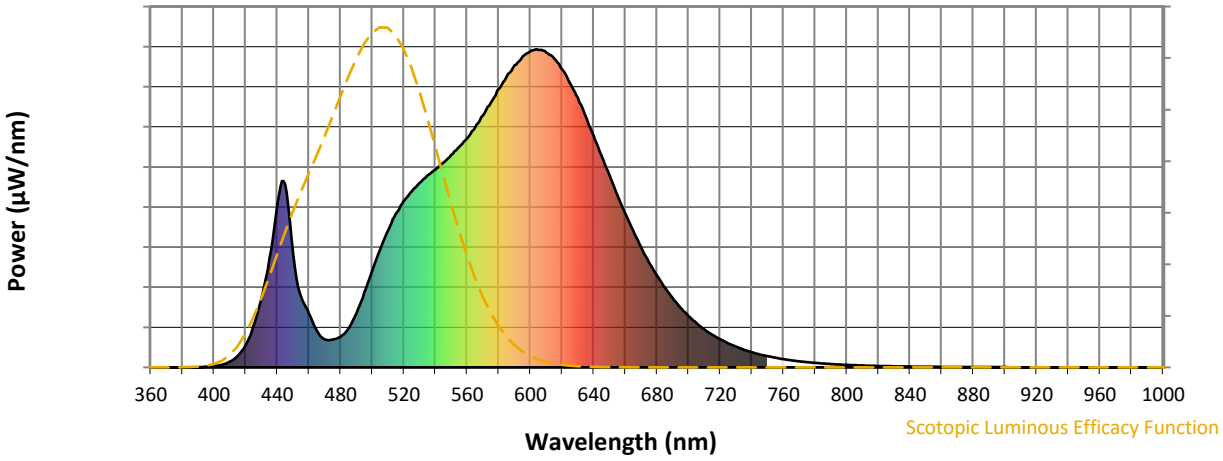


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

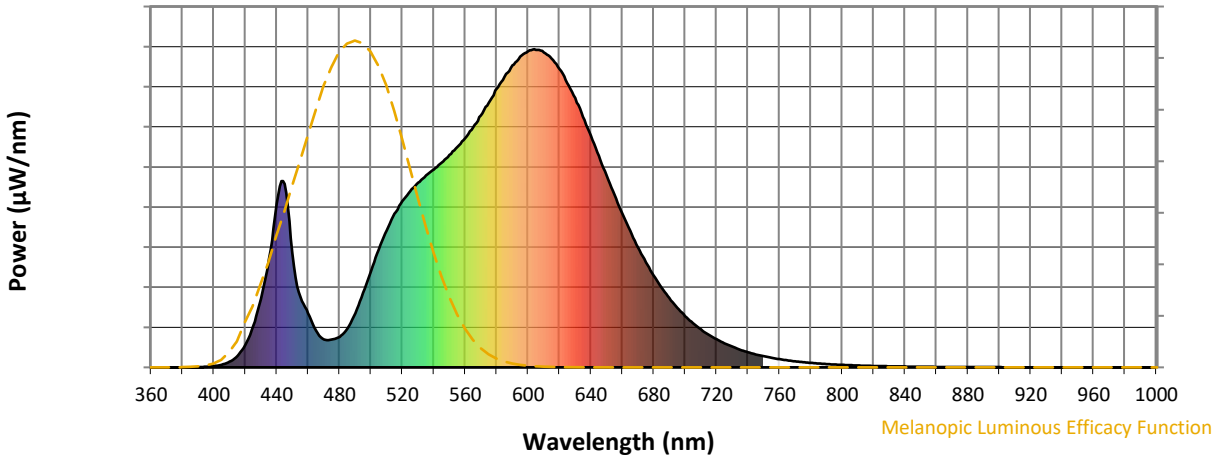


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

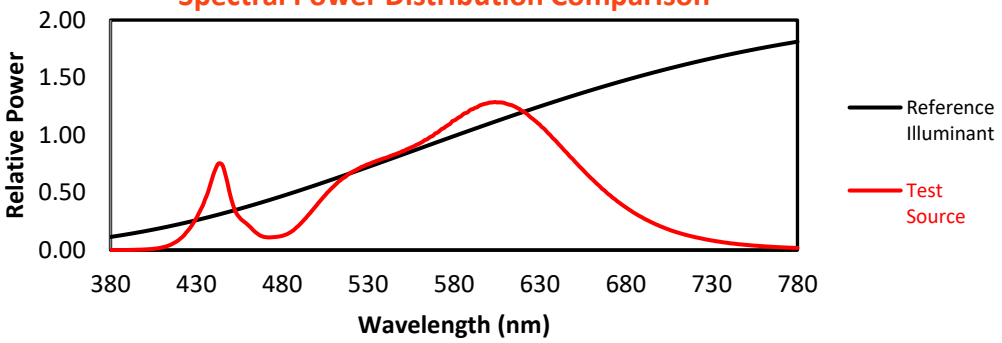
REPORT NUMBER: SP1-2407-184-9

TM-30-18

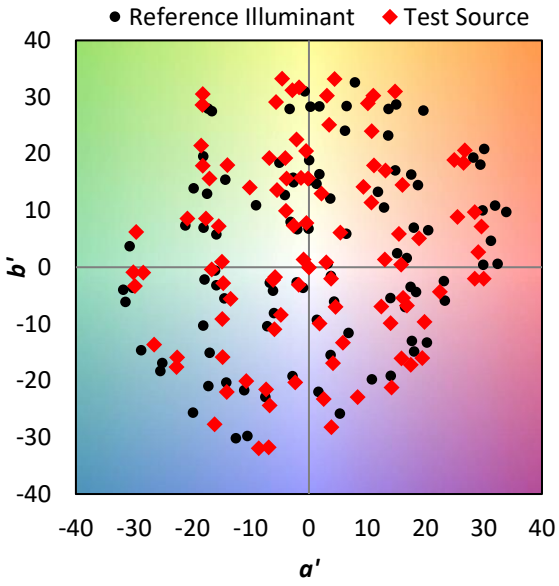
Summary

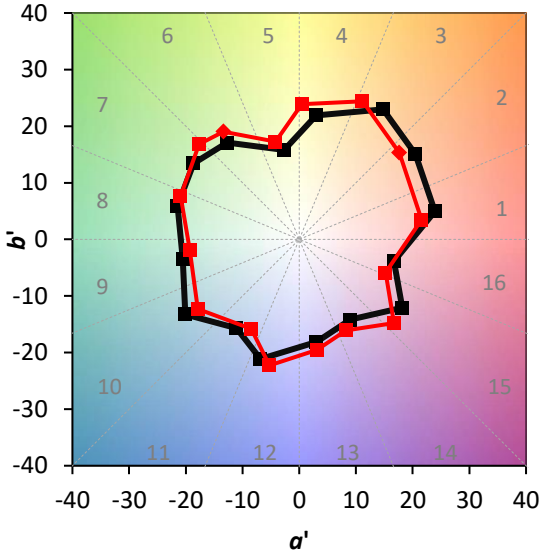
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

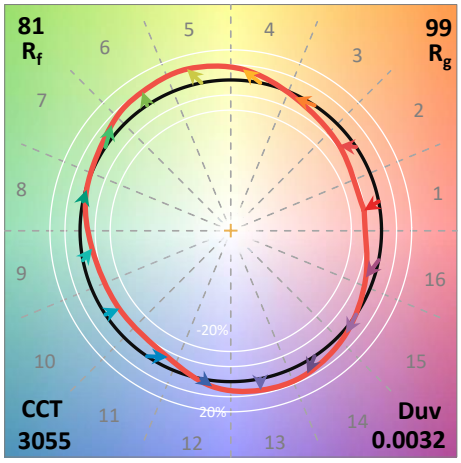
Spectral Power Distribution Comparison

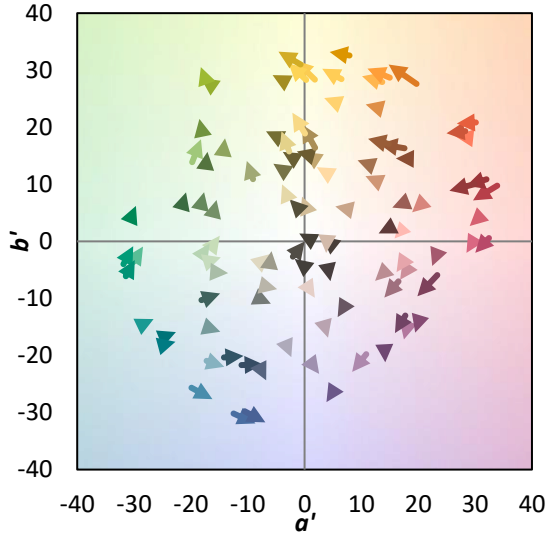


Color Vector Graphics







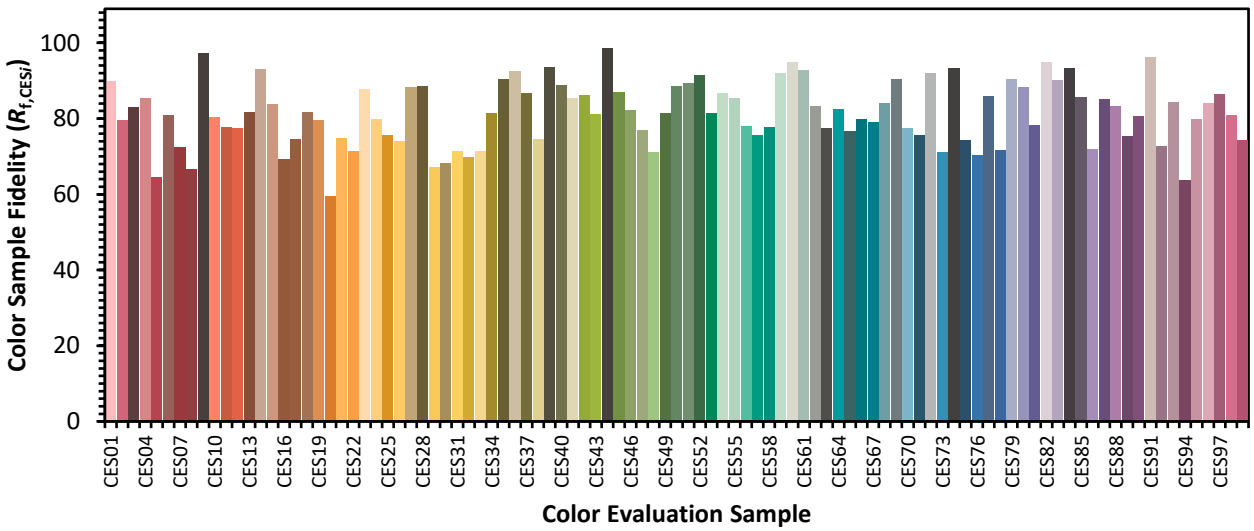


REPORT NUMBER: SP1-2407-184-9

TM-30-18

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

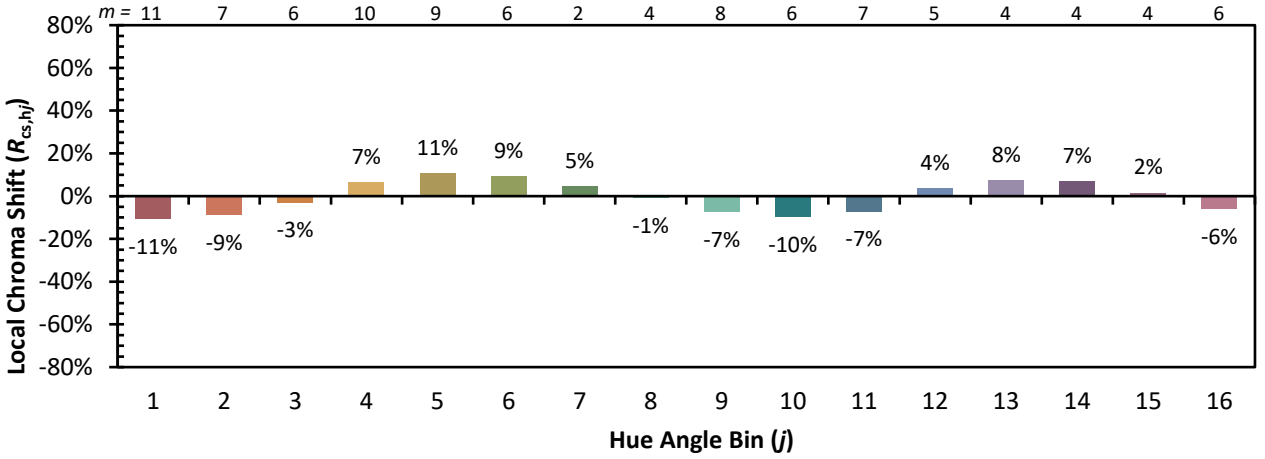
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
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 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	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	

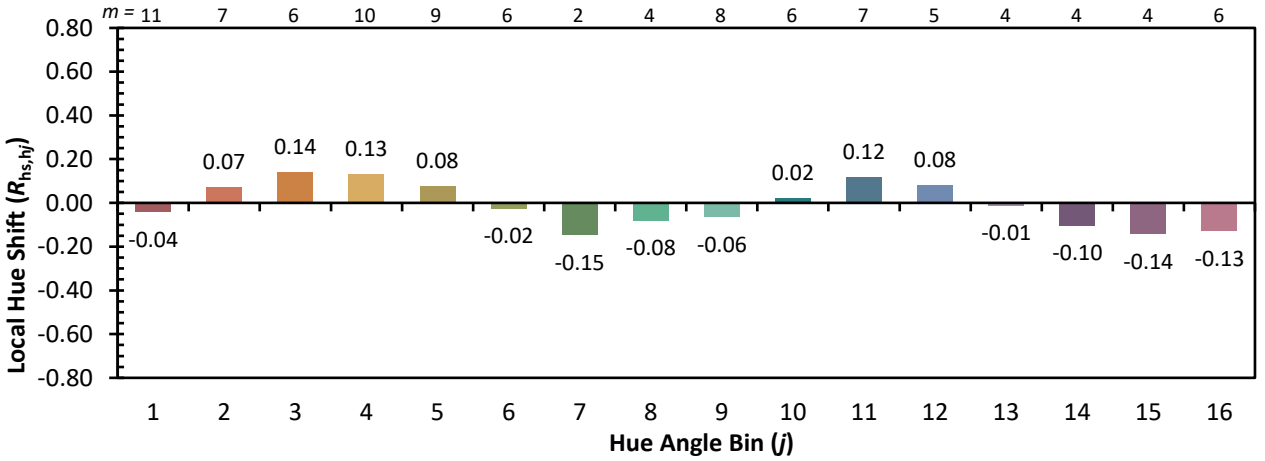


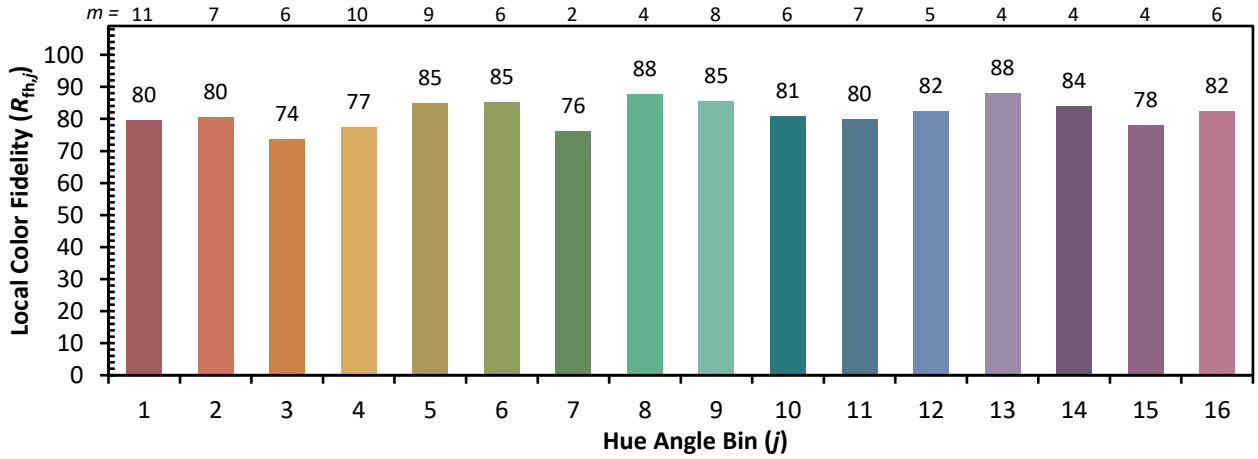
REPORT NUMBER: SP1-2407-184-9

TM-30-18

Color Rendition by Hue-Angle Bin



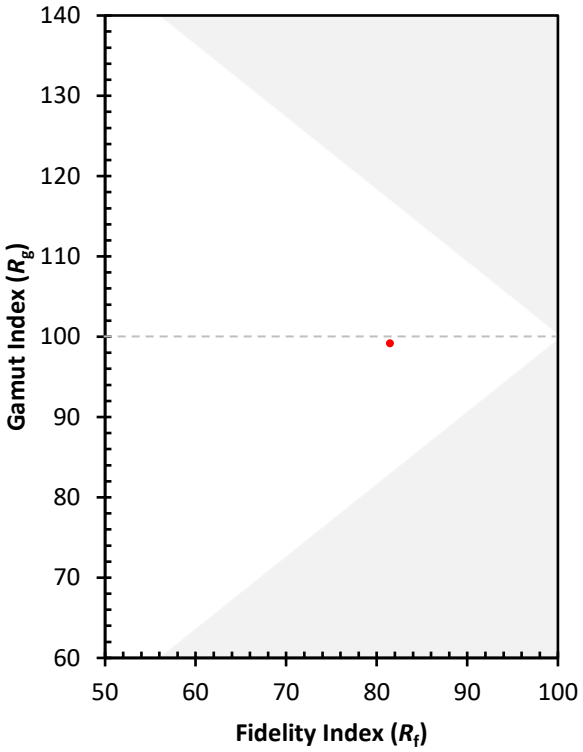


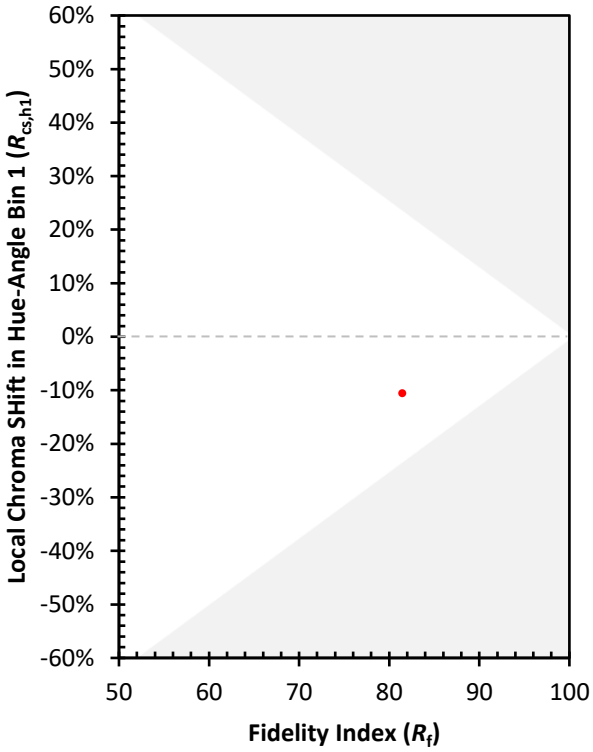


REPORT NUMBER: SP1-2407-184-9

TM-30-18

Measure Comparisons





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