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: P1501603

Luminaire Tested: GSS-SB4C-850-U-T2LG

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:	P1501603
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-850-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 5000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27576.9 lumens
Efficiency:	N/A
Efficacy:	135.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

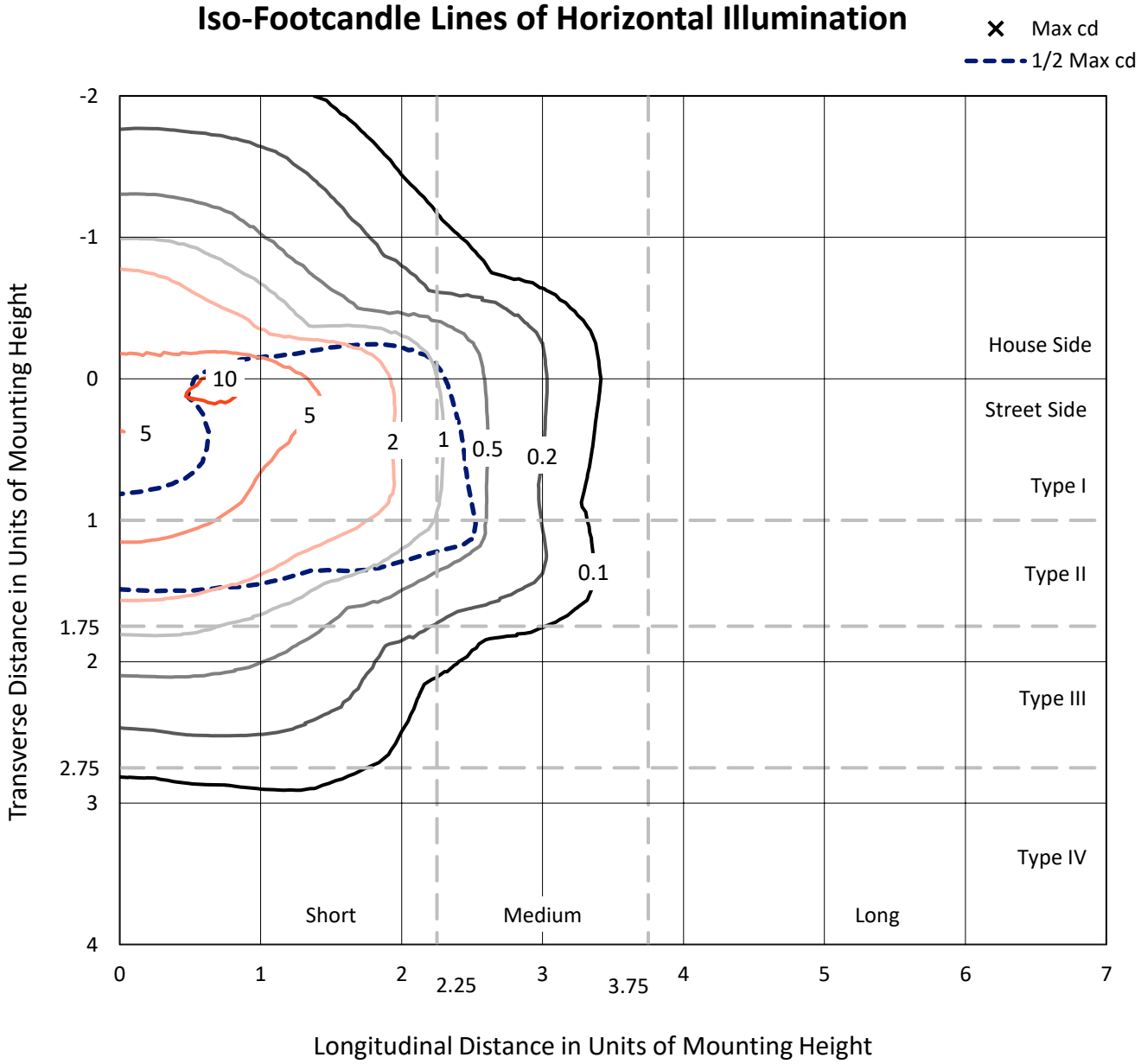
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



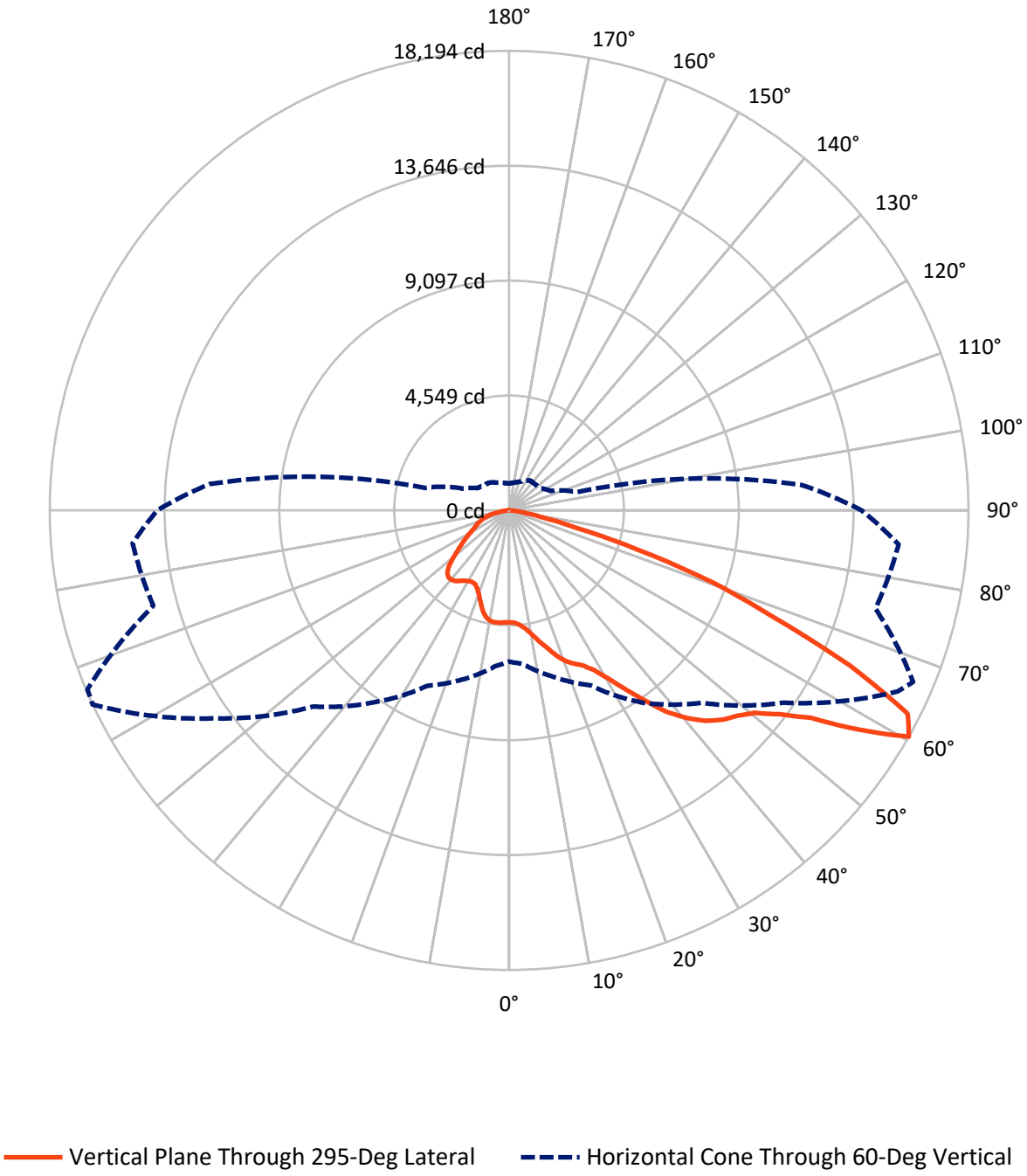
Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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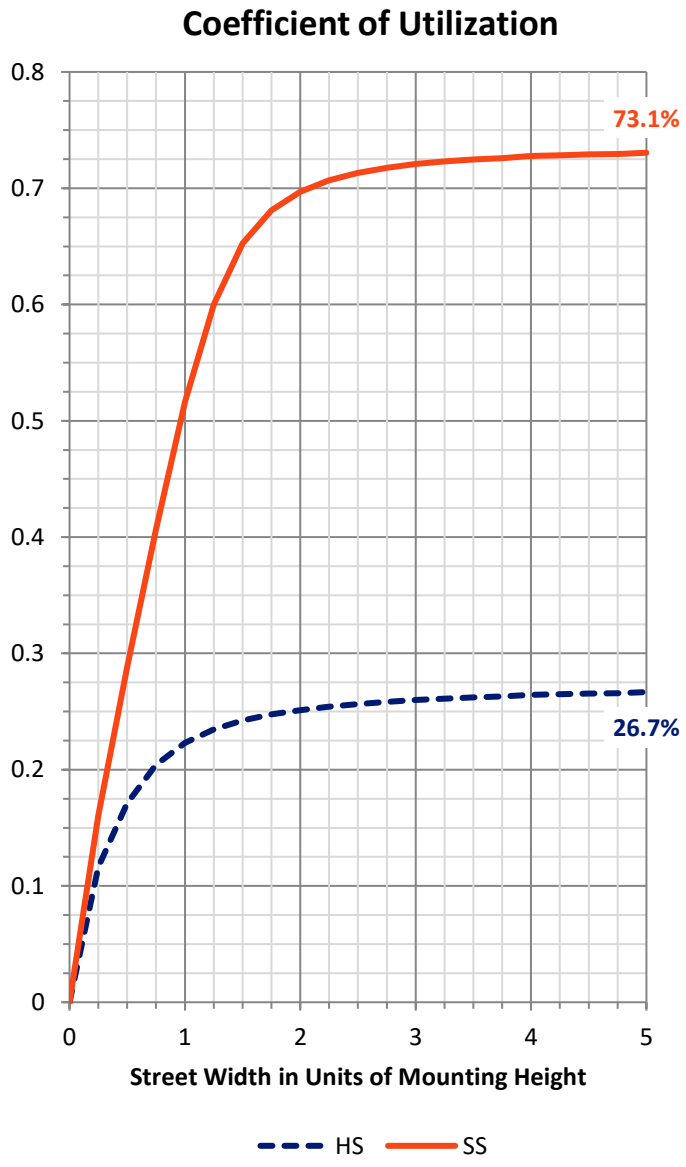
REPORT NUMBER: P1501603
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7415.8	0.0	7415.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20161.1	0.0	20161.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	27576.9	0.0	27576.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	1.5
10°-20°	1199.3	4.3
20°-30°	2271.6	8.2
30°-40°	4004.7	14.5
40°-50°	5922.6	21.5
50°-60°	6954.7	25.2
60°-70°	5039.0	18.3
70°-80°	1554.0	5.6
80°-90°	213.9	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°	27576.9	100.0
0°-180°	27576.9	100.0



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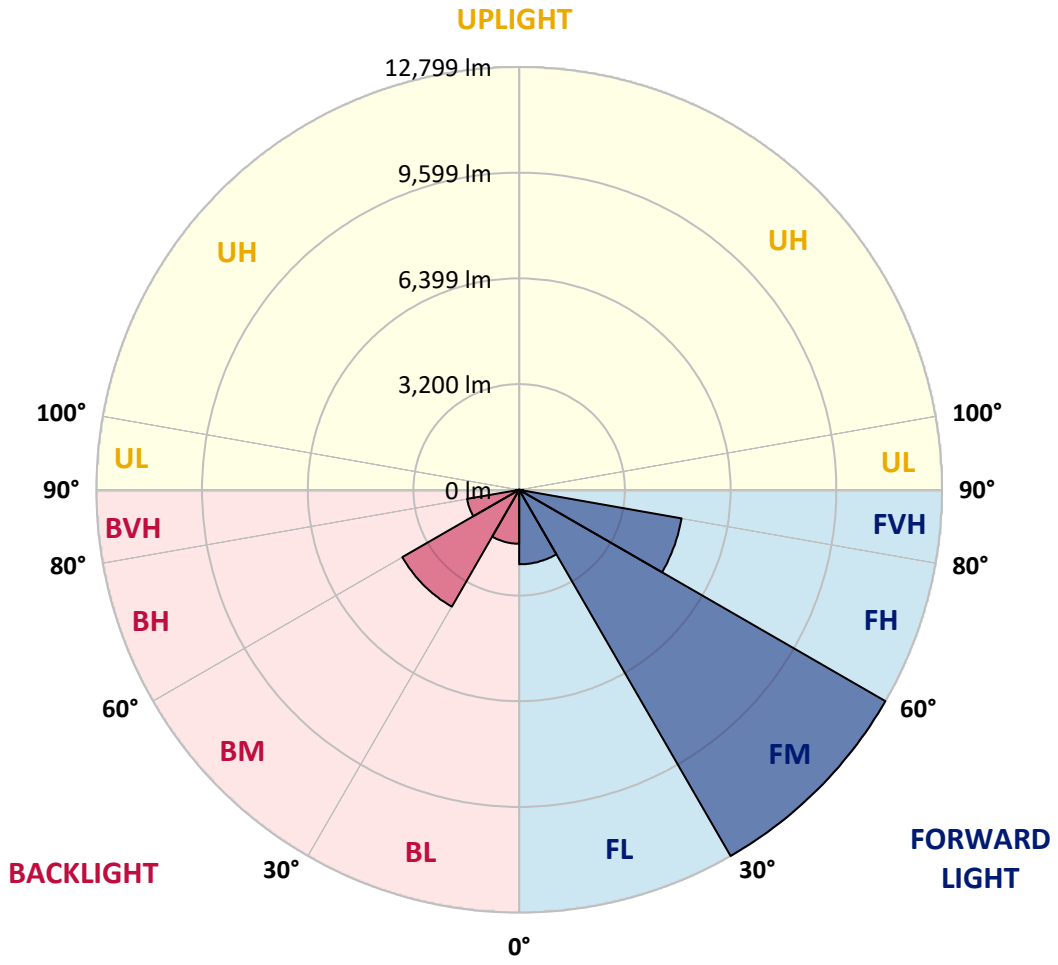
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2254.9	8.2			
FM	(30°-60°)	12798.6	46.4			
FH	(60°-80°)	4992.3	18.1			G2/5000
FVH	(80°-90°)	115.4	0.4			G2/225
BL	(0°-30°)	1633.2	5.9	B3/2500		
BM	(30°-60°)	4083.3	14.8	B3/5000		
BH	(60°-80°)	1600.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	98.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4525.0	4537.5	4518.7	4531.3	4531.3	4512.4	4506.1	4481.0	4493.6	4487.3	4481.0
5°	4631.8	4638.1	4625.5	4644.4	4644.4	4650.7	4644.4	4613.0	4613.0	4613.0	4600.4
7.5°	4600.4	4600.4	4606.7	4669.5	4732.4	4814.1	4814.1	4801.5	4814.1	4807.8	4751.2
10°	4336.4	4361.6	4418.1	4575.3	4726.1	4902.1	5021.5	5059.2	5059.2	5065.5	4971.2
12.5°	3865.1	3883.9	4015.9	4254.7	4569.0	4889.5	5178.6	5367.1	5386.0	5417.4	5291.7
15°	3444.0	3456.6	3550.8	3796.0	4154.2	4719.8	5266.6	5656.2	5719.1	5851.0	5662.5
17.5°	3481.7	3475.4	3500.6	3594.8	3852.5	4443.3	5247.7	5995.6	6108.7	6341.3	6177.8
20°	3708.0	3708.0	3726.8	3745.7	3839.9	4242.2	5109.5	6272.1	6492.1	6944.6	6756.0
22.5°	4066.2	4066.2	4059.9	4091.3	4091.3	4330.2	5115.7	6479.5	6806.3	7617.0	7434.8
25°	4562.7	4537.5	4537.5	4550.1	4493.6	4663.2	5272.9	6693.2	7120.6	8415.2	8258.1
27.5°	5122.0	5140.9	5128.3	5084.3	5008.9	5140.9	5649.9	7026.3	7472.5	9257.3	9194.5
30°	5731.6	5737.9	5750.5	5725.4	5662.5	5756.8	6240.7	7529.1	7937.6	10137.2	10275.5
32.5°	6328.7	6416.7	6385.2	6322.4	6347.5	6517.2	6969.7	8207.8	8628.9	10954.2	11444.4
35°	7089.1	7120.6	7246.2	7013.7	7020.0	7309.1	7899.9	9100.2	9508.7	11802.6	12613.4
37.5°	8195.2	8251.8	8195.2	7830.7	7774.2	8176.4	8804.8	9980.1	10275.5	12443.7	13700.6
40°	9282.5	9351.6	9445.9	9018.5	8660.3	8993.4	9659.6	10652.5	10960.5	12795.6	14423.4
42.5°	10181.2	10294.3	10193.8	10068.1	9741.3	9804.1	10256.6	11174.2	11482.1	13241.8	15152.4
45°	10941.6	10960.5	11004.5	10916.5	10753.1	10696.5	10765.7	11633.0	11972.3	13443.0	15510.6
47.5°	11255.9	11337.6	11375.3	11526.1	11695.8	11582.7	11199.3	11846.6	12154.6	13430.4	15623.7
50°	11086.2	11167.9	11369.0	11727.2	12135.7	12336.8	11708.4	12142.0	12487.7	13656.6	15856.3
52.5°	10640.0	10728.0	11054.8	11463.3	12148.3	12607.1	12424.8	12757.9	13091.0	14058.8	16245.9
55°	9559.0	9691.0	10149.8	10828.5	11771.2	12462.5	13179.0	13662.9	14027.4	14542.8	16648.1
57.5°	7987.8	8126.1	8641.4	9659.6	11073.6	11865.5	13399.0	15359.8	15523.2	15121.0	16685.8
60°	*5983.0*	*6096.1*	*6825.2*	*7642.2*	*9301.3*	*10772.0*	*13273.3*	*16968.7*	*17383.5*	*15020.4*	*15485.5*
62.5°	4738.7	4876.9	5524.2	5901.3	7089.1	8899.1	12833.3	17414.9	17773.1	14190.8	13813.7
65°	3701.7	3796.0	4399.3	4939.8	5228.9	6077.3	10998.2	15234.1	15554.6	12839.6	11400.4
67.5°	2444.7	2589.3	3305.7	4047.3	4198.2	3865.1	7566.8	11720.9	11871.8	10206.3	8572.3
70°	1753.4	1822.6	2356.8	3148.6	3374.9	2589.3	4122.8	8874.0	8918.0	6850.3	5775.6
72.5°	1194.1	1206.7	1602.6	2413.3	2689.8	1879.1	2268.8	5844.8	5693.9	3381.2	3305.7
75°	810.7	823.3	1024.4	1608.9	1904.3	1307.2	1476.9	3186.3	3060.6	1866.6	2004.8
77.5°	546.8	559.3	703.9	1081.0	1269.5	905.0	1081.0	1684.3	1652.9	1238.1	1074.7
80°	414.8	433.6	521.6	691.3	886.1	527.9	615.9	798.2	810.7	659.9	546.8
82.5°	232.5	257.7	314.2	351.9	571.9	295.4	295.4	477.6	458.8	408.5	295.4
85°	100.6	106.8	125.7	132.0	232.5	125.7	106.8	207.4	213.7	201.1	94.3
87.5°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	25.1	25.1	25.1	25.1
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°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4449.6	4487.3	4449.6	4430.7	4430.7	4399.3	4386.7	4386.7	4342.7	4361.6	4349.0
5°	4550.1	4562.7	4518.7	4462.1	4386.7	4323.9	4235.9	4122.8	4053.6	4047.3	4053.6
7.5°	4707.2	4713.5	4594.1	4468.4	4279.9	4053.6	3783.4	3563.4	3368.6	3337.2	3374.9
10°	4927.2	4914.6	4738.7	4443.3	4047.3	3569.7	3154.9	2953.8	2840.7	2834.4	2828.1
12.5°	5222.6	5140.9	4870.6	4336.4	3645.1	3092.1	2878.4	2865.8	2897.2	2922.4	2928.7
15°	5561.9	5455.1	4977.5	4129.0	3236.6	2916.1	2928.7	3035.5	3073.2	3098.4	3098.4
17.5°	5983.0	5844.8	5096.9	3833.7	3029.2	2953.8	3041.8	3142.3	3205.2	3230.3	3224.0
20°	6542.4	6253.3	5191.2	3550.8	2972.7	3016.7	3092.1	3192.6	3255.5	3286.9	3286.9
22.5°	7101.7	6743.5	5210.0	3356.0	2972.7	3022.9	3092.1	3192.6	3261.8	3293.2	3286.9
25°	7862.1	7371.9	5216.3	3217.8	2978.9	2991.5	3054.4	3142.3	3242.9	3274.3	3286.9
27.5°	8672.9	8063.3	5247.7	3186.3	2953.8	2947.5	2991.5	3073.2	3173.8	3255.5	3261.8
30°	9678.4	8842.6	5260.3	3217.8	2960.1	2878.4	2909.8	2991.5	3098.4	3180.1	3205.2
32.5°	10665.1	9565.3	5235.1	3286.9	2972.7	2834.4	2840.7	2891.0	3004.1	3060.6	3104.6
35°	11708.4	10332.0	5191.2	3381.2	2978.9	2815.5	2759.0	2784.1	2859.5	2865.8	2884.7
37.5°	12525.4	10903.9	5059.2	3506.9	2991.5	2746.4	2633.3	2614.4	2583.0	2520.2	2532.7
40°	13197.8	11287.3	4839.2	3569.7	2960.1	2664.7	2476.2	2388.2	2268.8	2174.5	2193.4
42.5°	13681.8	11545.0	4575.3	3582.3	2909.8	2526.4	2293.9	2143.1	2011.1	1910.5	1916.8
45°	13895.4	11519.8	4292.4	3488.0	2790.4	2356.8	2124.2	1979.7	1835.1	1728.3	1715.7
47.5°	13901.7	11274.7	3902.8	3261.8	2589.3	2161.9	1967.1	1810.0	1690.6	1615.2	1608.9
50°	13952.0	11136.5	3538.3	2934.9	2325.3	1954.5	1828.8	1671.7	1602.6	1495.8	1464.3
52.5°	14266.2	11362.7	3286.9	2576.7	2080.2	1803.7	1709.4	1571.2	1458.0	1388.9	1382.6
55°	14775.3	11752.4	3148.6	2306.5	1847.7	1659.2	1596.3	1476.9	1376.3	1307.2	1288.4
57.5°	14838.2	11953.5	2985.2	2055.1	1659.2	1546.0	1520.9	1388.9	1244.4	1194.1	1175.2
60°	*13958.3*	*11614.1*	*2784.1*	*1822.6*	*1520.9*	*1458.0*	*1445.5*	*1269.5*	*1150.1*	*1087.3*	*1062.1*
62.5°	12757.9	10765.7	2476.2	1608.9	1414.1	1370.1	1319.8	1181.5	1030.7	961.6	942.7
65°	10426.3	9050.0	2105.4	1464.3	1307.2	1256.9	1244.4	1055.8	955.3	917.6	911.3
67.5°	7899.9	7271.4	1854.0	1357.5	1194.1	1175.2	1131.2	1068.4	1024.4	980.4	967.8
70°	5587.1	5247.7	1577.5	1219.2	1081.0	1049.5	1231.8	1162.7	1005.6	949.0	942.7
72.5°	3387.4	3293.2	1363.8	1093.5	930.1	980.4	1137.5	1049.5	905.0	835.9	810.7
75°	2136.8	1954.5	1143.8	930.1	741.6	798.2	993.0	936.4	779.3	710.2	691.3
77.5°	1162.7	1081.0	861.0	760.4	584.5	647.3	867.3	773.0	622.2	678.7	603.3
80°	509.1	565.6	571.9	439.9	389.7	477.6	622.2	603.3	477.6	483.9	402.2
82.5°	245.1	320.5	370.8	301.7	220.0	282.8	414.8	345.7	320.5	301.7	289.1
85°	75.4	119.4	163.4	144.5	100.6	119.4	194.8	188.5	226.2	194.8	182.3
87.5°	25.1	25.1	18.9	18.9	18.9	25.1	31.4	18.9	6.3	6.3	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°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4342.7	4349.0	4349.0	4355.3	4355.3	4374.1	4399.3	4424.4	4405.6	4430.7	4437.0
5°	4041.1	4072.5	4097.6	4191.9	4267.3	4330.2	4399.3	4462.1	4481.0	4493.6	4525.0
7.5°	3330.9	3418.9	3582.3	3796.0	4034.8	4267.3	4424.4	4587.8	4613.0	4644.4	4688.4
10°	2834.4	2872.1	2985.2	3205.2	3632.6	4091.3	4474.7	4732.4	4839.2	4902.1	4946.1
12.5°	2916.1	2891.0	2872.1	2903.5	3180.1	3770.8	4443.3	4939.8	5140.9	5210.0	5266.6
15°	3110.9	3085.8	3016.7	2928.7	2960.1	3431.4	4336.4	5134.6	5455.1	5568.2	5687.6
17.5°	3224.0	3198.9	3142.3	3048.1	2966.4	3148.6	4135.3	5310.6	5951.6	6089.9	6259.6
20°	3286.9	3261.8	3205.2	3110.9	3016.7	3041.8	3877.7	5530.5	6517.2	6737.2	6988.6
22.5°	3299.5	3268.0	3205.2	3110.9	3054.4	3035.5	3632.6	5662.5	7126.8	7466.2	7755.3
25°	3293.2	3236.6	3154.9	3085.8	3054.4	3048.1	3462.9	5737.9	7786.7	8327.2	8654.0
27.5°	3249.2	3180.1	3098.4	3048.1	3035.5	3073.2	3387.4	5825.9	8559.7	9251.1	9772.7
30°	3198.9	3098.4	2997.8	2978.9	3010.4	3129.8	3450.3	5857.3	9370.5	10256.6	10790.8
32.5°	3066.9	2991.5	2891.0	2884.7	2960.1	3173.8	3594.8	5813.3	10086.9	11262.2	11934.6
35°	2878.4	2834.4	2777.8	2796.7	2916.1	3211.5	3695.4	5675.1	10740.5	12198.6	12984.2
37.5°	2545.3	2576.7	2608.1	2652.1	2803.0	3205.2	3739.4	5455.1	11281.0	12946.5	13952.0
40°	2174.5	2281.3	2381.9	2495.0	2696.1	3154.9	3752.0	5184.9	11595.3	13512.1	14813.0
42.5°	1942.0	2042.5	2168.2	2331.6	2551.6	3041.8	3739.4	4883.2	11695.8	13901.7	15359.8
45°	1728.3	1847.7	2004.8	2174.5	2425.9	2878.4	3626.3	4556.4	11746.1	14084.0	15592.3
47.5°	1615.2	1684.3	1828.8	1998.5	2262.5	2677.3	3406.3	4317.6	11670.7	14121.7	15875.1
50°	1483.2	1577.5	1671.7	1835.1	2092.8	2425.9	3142.3	4179.3	11796.4	14492.5	16321.3
52.5°	1382.6	1432.9	1533.5	1684.3	1872.8	2193.4	2891.0	4066.2	12142.0	14869.6	16786.4
55°	1307.2	1363.8	1426.6	1552.3	1696.9	1960.8	2633.3	3896.5	12544.2	15271.8	17251.5
57.5°	1187.8	1225.5	1313.5	1445.5	1539.7	1734.6	2331.6	3695.4	12512.8	14957.6	16447.0
60°	*1081.0*	*1118.7*	*1212.9*	*1344.9*	*1401.5*	*1533.5*	*2036.2*	*3437.7*	*11909.5*	*13933.2*	*14963.8*
62.5°	961.6	1005.6	1118.7	1212.9	1263.2	1363.8	1728.3	2966.4	10652.5	12393.4	13229.3
65°	911.3	936.4	1011.8	1125.0	1118.7	1212.9	1458.0	2331.6	8572.3	9471.0	10231.5
67.5°	967.8	1005.6	993.0	1024.4	1005.6	1055.8	1307.2	1872.8	6737.2	7133.1	7573.1
70°	955.3	1043.3	1087.3	1024.4	879.9	936.4	1131.2	1495.8	4820.4	4782.6	4763.8
72.5°	835.9	923.8	1049.5	1112.4	861.0	779.3	980.4	1294.6	3092.1	3079.5	2784.1
75°	710.2	773.0	923.8	1005.6	741.6	628.5	842.1	1099.8	1847.7	1872.8	1671.7
77.5°	653.6	622.2	773.0	886.1	603.3	483.9	678.7	829.6	1018.1	1030.7	955.3
80°	471.4	452.5	578.2	647.3	458.8	345.7	383.4	515.3	546.8	490.2	509.1
82.5°	301.7	307.9	345.7	414.8	282.8	188.5	264.0	345.7	295.4	238.8	282.8
85°	194.8	220.0	182.3	213.7	88.0	88.0	113.1	150.8	100.6	69.1	75.4
87.5°	0.0	0.0	12.6	25.1	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: P1501603
CATALOG NUMBER: GSS-SB4C-850-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4437.0	4437.0	*4437.0*	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4455.8	4449.6	*4449.6*	4462.1	4493.6	4506.1	4525.0	4518.7	4537.5	4525.0
5°	4543.8	4550.1	*4569.0*	4575.3	4594.1	4619.2	4625.5	4619.2	4631.8	4631.8
7.5°	4719.8	4744.9	*4732.4*	4763.8	4738.7	4707.2	4657.0	4619.2	4587.8	4600.4
10°	5015.2	5002.6	*4996.3*	4939.8	4826.6	4663.2	4531.3	4386.7	4361.6	4336.4
12.5°	5342.0	5329.4	*5329.4*	5134.6	4814.1	4474.7	4173.0	3946.8	3871.4	3865.1
15°	5800.8	5719.1	*5643.7*	5235.1	4594.1	4015.9	3664.0	3488.0	3444.0	3444.0
17.5°	6372.7	6159.0	*6033.3*	5159.7	4235.9	3714.3	3506.9	3462.9	3450.3	3481.7
20°	7082.8	6542.4	*6360.1*	4990.0	4103.9	3752.0	3651.4	3657.7	3664.0	3708.0
22.5°	7862.1	6894.3	*6592.6*	4990.0	4235.9	3990.8	3940.5	4009.6	4028.5	4066.2
25°	8729.4	7208.5	*6800.0*	5254.0	4625.5	4443.3	4380.4	4449.6	4499.8	4562.7
27.5°	9703.6	7535.3	*7158.3*	5731.6	5128.3	5015.2	4946.1	4977.5	5046.6	5122.0
30°	10577.1	8082.1	*7705.0*	6460.7	5813.3	5675.1	5555.7	5605.9	5681.4	5731.6
32.5°	11350.1	8748.3	*8427.8*	7227.4	6598.9	6360.1	6228.1	6215.6	6366.4	6328.7
35°	12060.3	9533.9	*9225.9*	8101.0	7397.1	7101.7	6925.7	7152.0	7051.4	7089.1
37.5°	12619.7	10350.9	*10105.8*	8936.8	8226.7	7824.4	7717.6	7994.1	8151.2	8195.2
40°	13078.4	11061.1	*10803.4*	9766.4	8987.1	8691.7	8861.4	9320.2	9301.3	9282.5
42.5°	13430.4	11670.7	*11387.9*	10394.9	9716.1	9772.7	9904.7	10212.6	10288.0	10181.2
45°	13587.5	12054.0	*11827.8*	10891.4	10545.7	10872.5	10929.1	11061.1	11010.8	10941.6
47.5°	13769.8	12393.4	*12154.6*	11343.9	11444.4	11764.9	11651.8	11545.0	11362.7	11255.9
50°	14077.7	12795.6	*12594.5*	12003.8	12368.3	12261.4	11821.5	11582.7	11211.9	11086.2
52.5°	14662.2	13556.1	*13405.2*	13047.0	12801.9	12186.0	11651.8	11224.5	10809.7	10640.0
55°	15183.8	14586.8	*14498.8*	14021.1	12669.9	11790.1	11073.6	10413.7	9703.6	9559.0
57.5°	15485.5	16296.2	*16396.8*	14435.9	12066.6	10891.4	9835.5	8779.7	8107.2	7987.8
60°	*14586.8*	*18143.9*	*18194.2*	*14354.2*	*10979.4*	*9269.9*	*7661.0*	*6913.2*	*6190.4*	*5983.0*
62.5°	13348.7	17760.5	*17716.5*	13864.0	8742.0	6762.3	5819.6	5467.7	4908.3	4738.7
65°	11475.8	14794.2	*14844.4*	11978.6	5813.3	4889.5	4889.5	4443.3	3821.1	3701.7
67.5°	9351.6	11406.7	*11293.6*	7767.9	3569.7	3915.4	4103.9	3462.9	2589.3	2444.7
70°	6077.3	8710.6	*8553.5*	4481.0	2243.6	3261.8	3230.3	2601.9	1854.0	1753.4
72.5°	2614.4	5034.0	*5354.6*	2287.6	1690.6	2627.0	2576.7	1822.6	1238.1	1194.1
75°	1577.5	2532.7	*2759.0*	1458.0	1231.8	1979.7	1784.9	1156.4	842.1	810.7
77.5°	999.3	1388.9	*1376.3*	1093.5	923.8	1338.6	1200.4	798.2	571.9	546.8
80°	578.2	685.0	*710.2*	685.0	622.2	955.3	766.7	578.2	446.2	414.8
82.5°	370.8	427.4	*433.6*	333.1	345.7	615.9	414.8	339.4	257.7	232.5
85°	163.4	182.3	*176.0*	113.1	113.1	251.4	144.5	138.3	100.6	100.6
87.5°	6.3	12.6	*6.3*	6.3	6.3	25.1	12.6	18.9	18.9	18.9
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

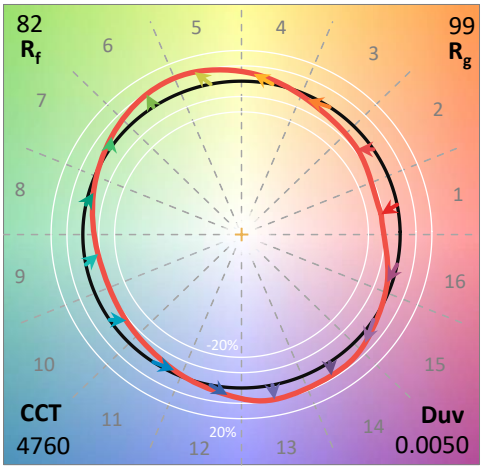
Test Information

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

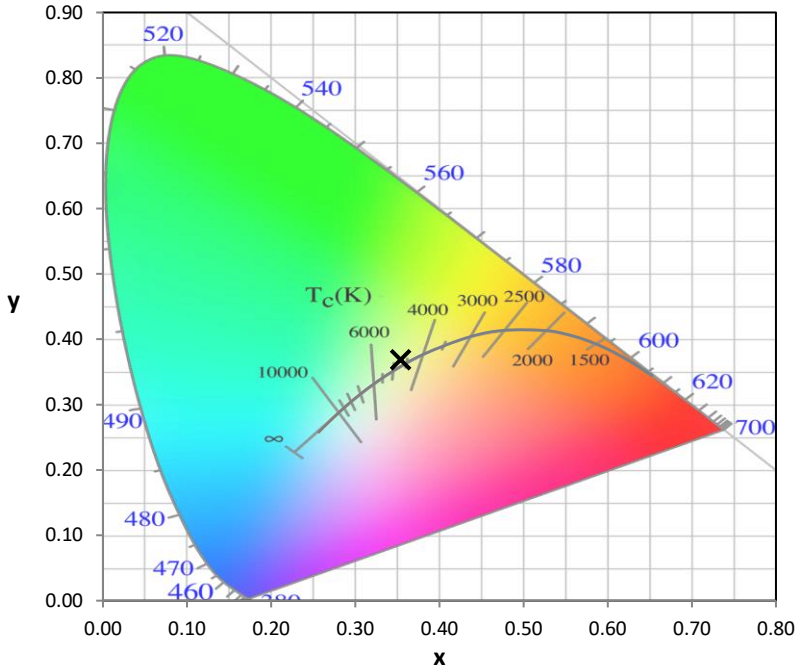
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-12

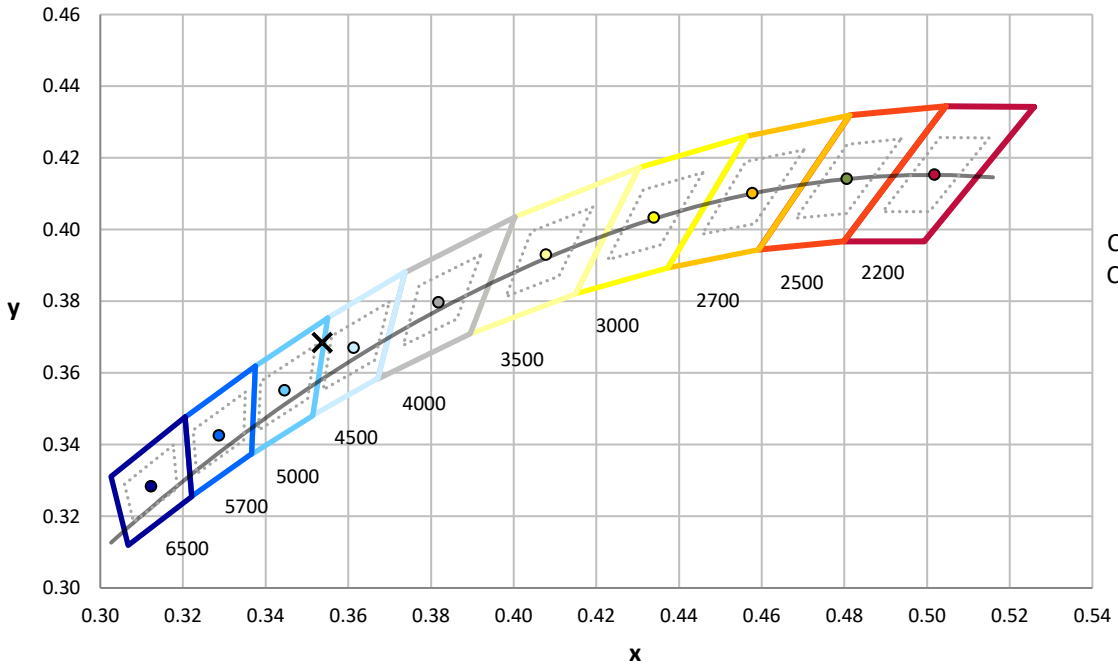
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



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

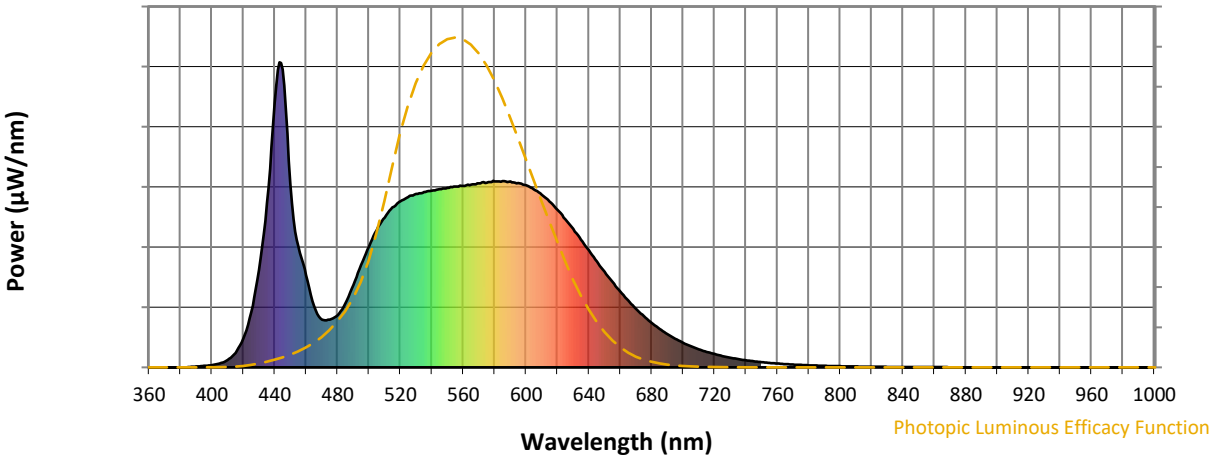


CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

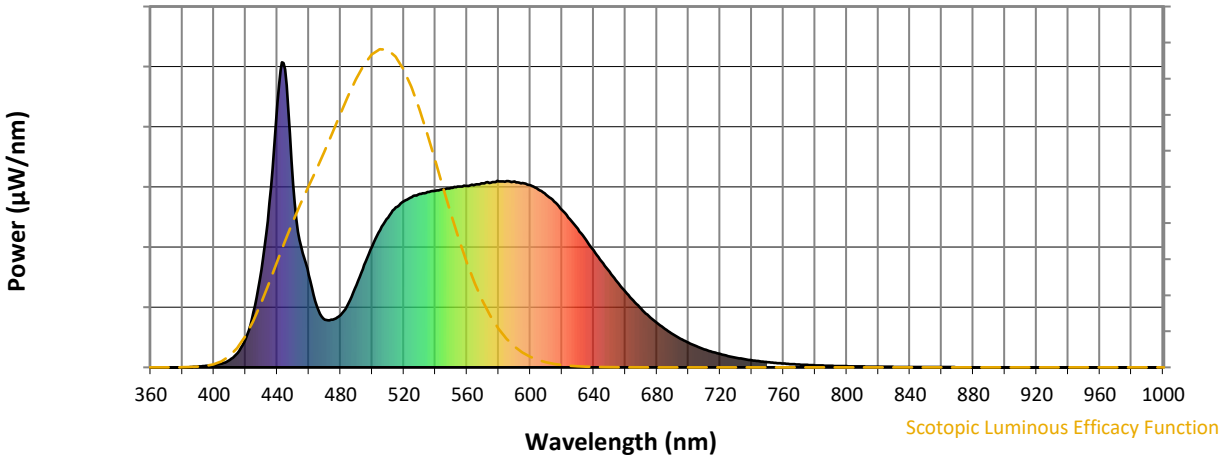


Photopic Lumens: NR

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

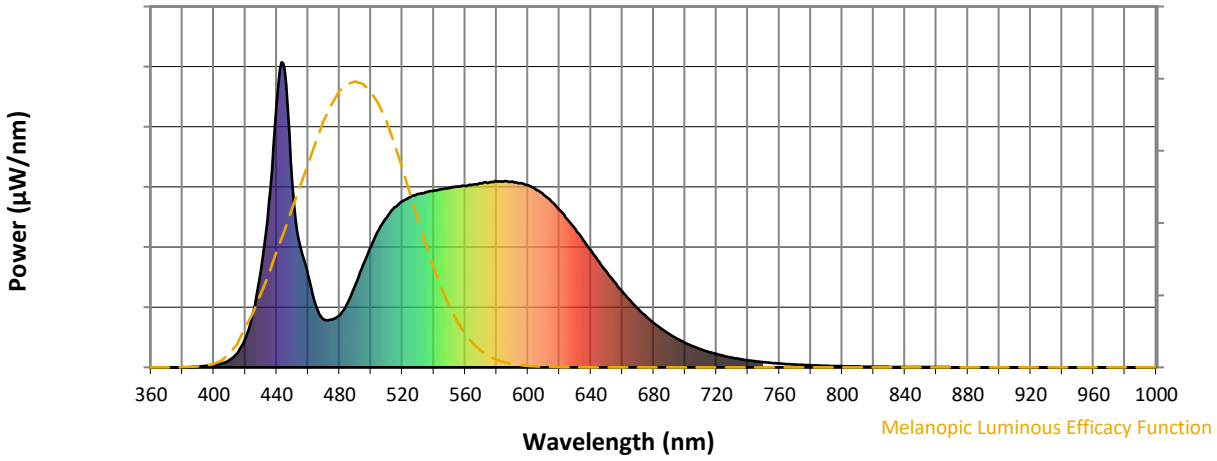


Scotopic Lumens: NR **S/P: 1.83**

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			

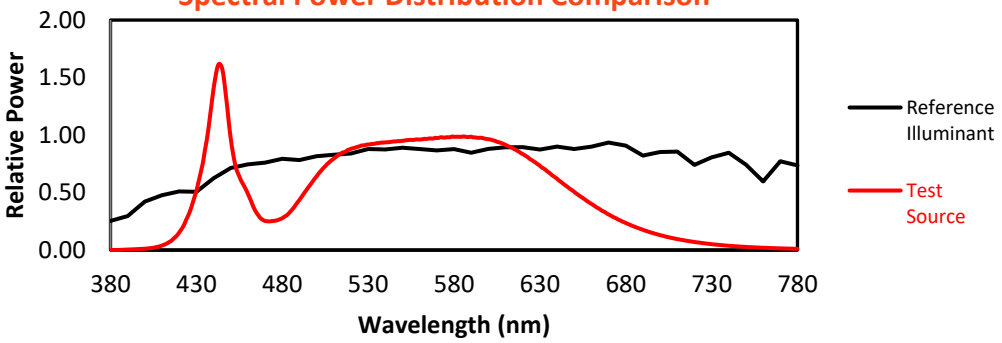
REPORT NUMBER: SP1-2407-184-12

TM-30-18

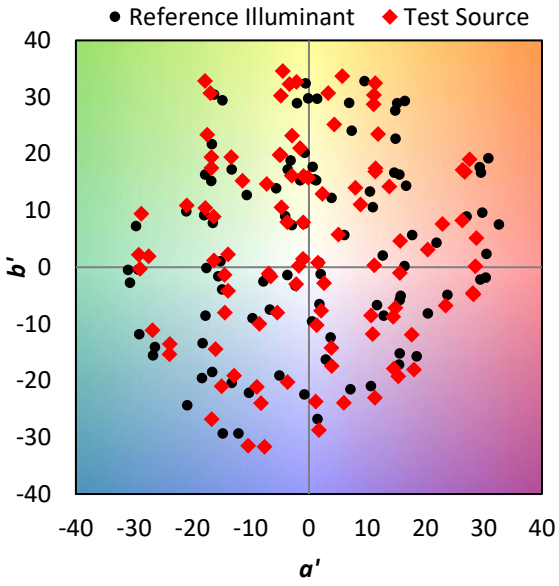
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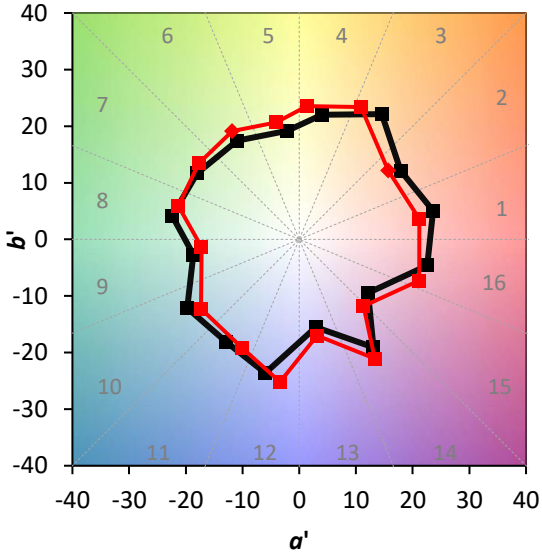
R_f = 82
R_g = 99.4
CIE R_a = 81.1
R_9 = 8.7

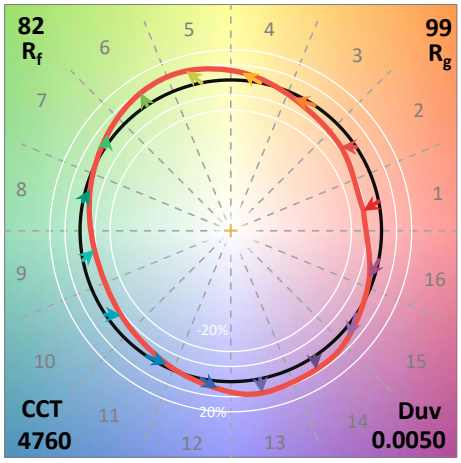
Spectral Power Distribution Comparison

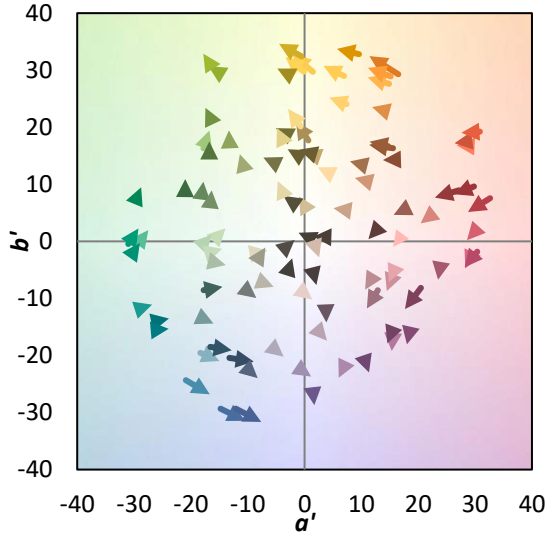


Color Vector Graphics







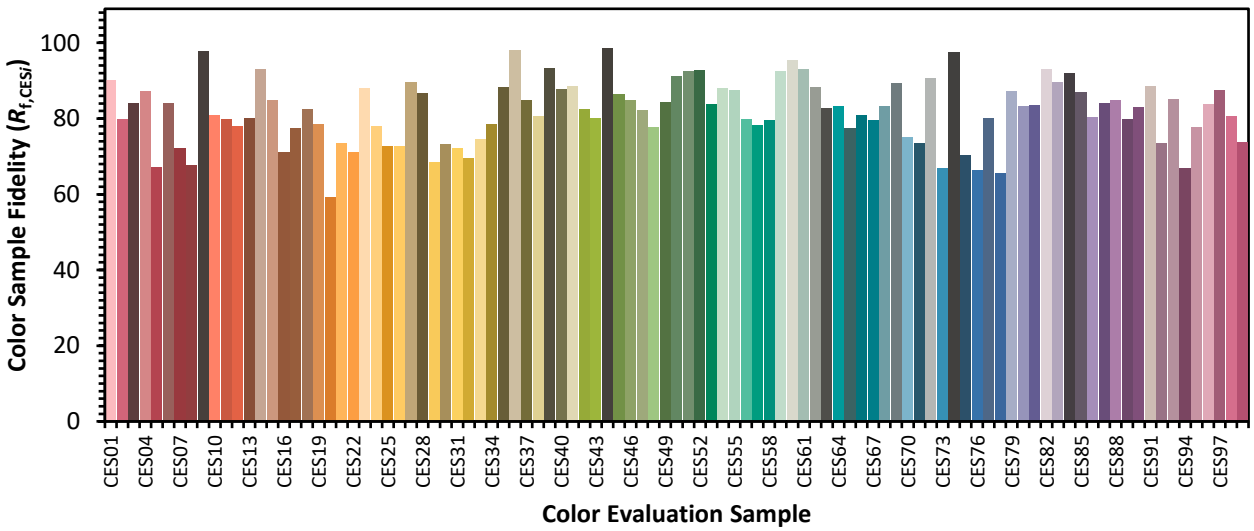


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Individual Sample Fidelity Index ($R_{f,i}$)

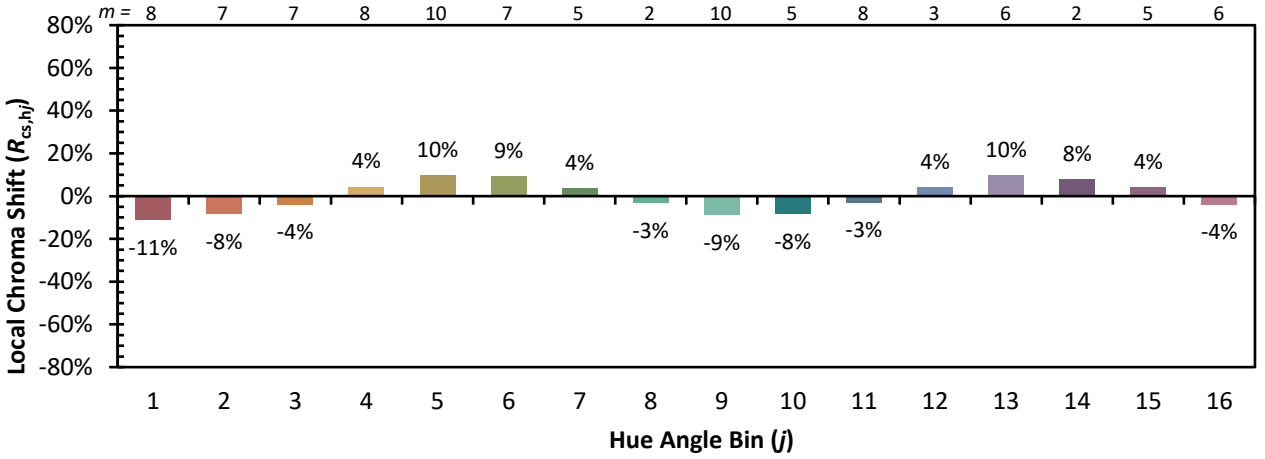
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 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
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	

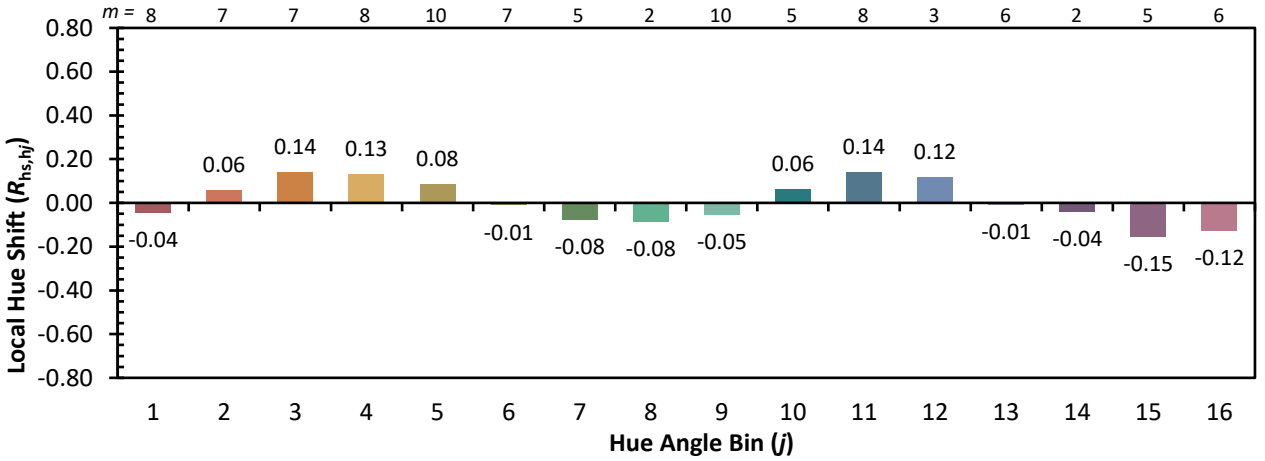


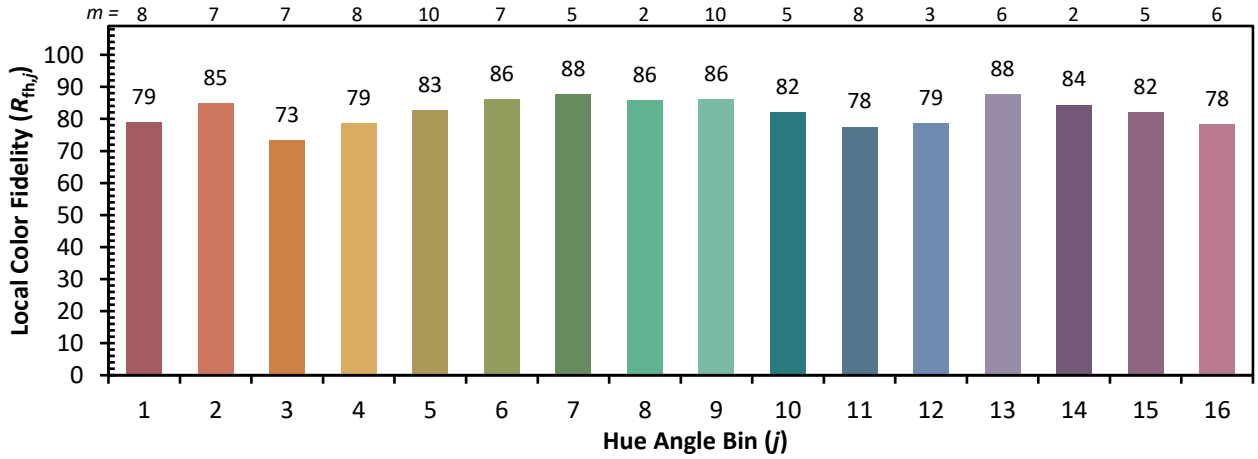
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Color Rendition by Hue-Angle Bin



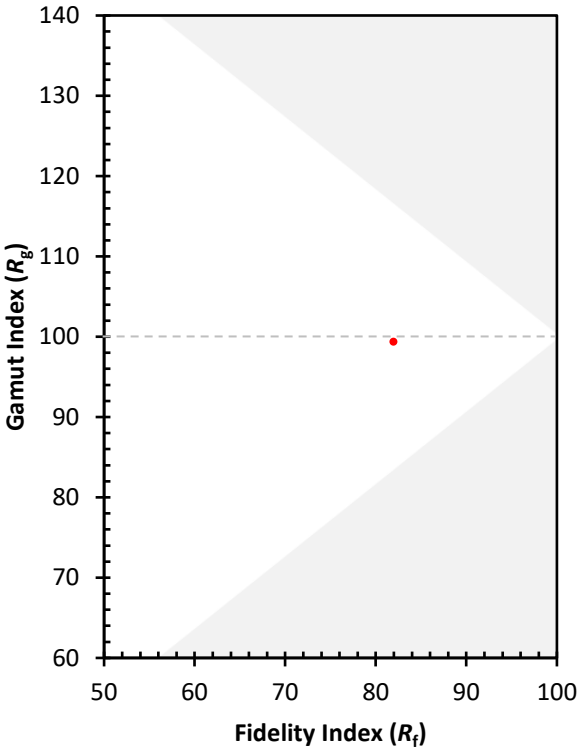


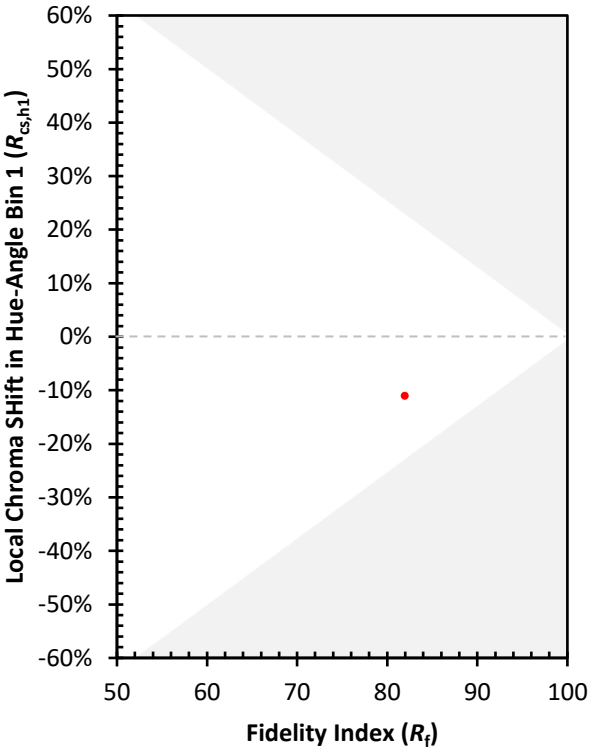


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Measure Comparisons





(END OF REPORT)