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: P1501536

Luminaire Tested: GSS-SB5D-830-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501536
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5D-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 302W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(130) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38280.4 lumens
Efficiency:	N/A
Efficacy:	126.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G3

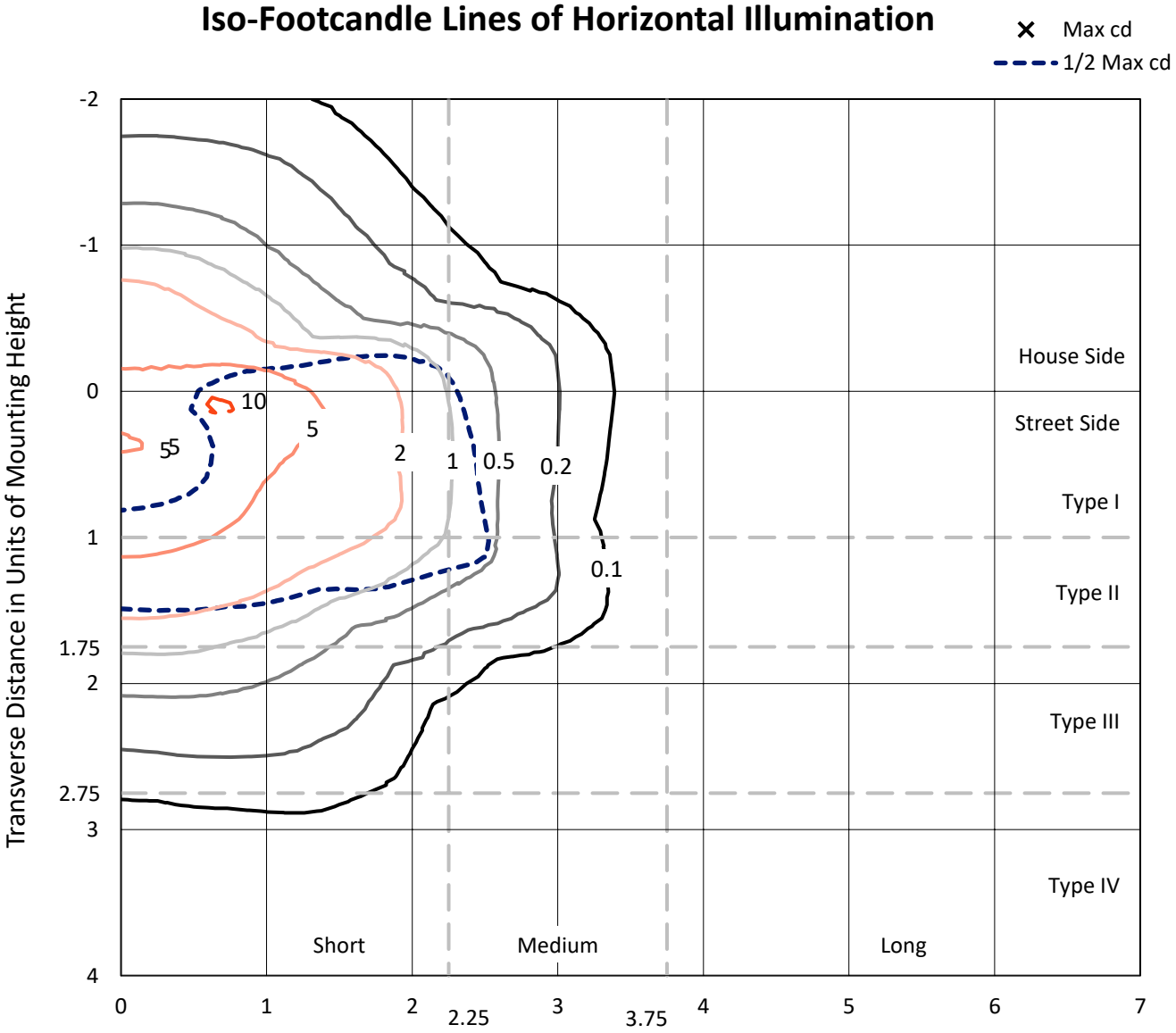
Input Watts (W):	302
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



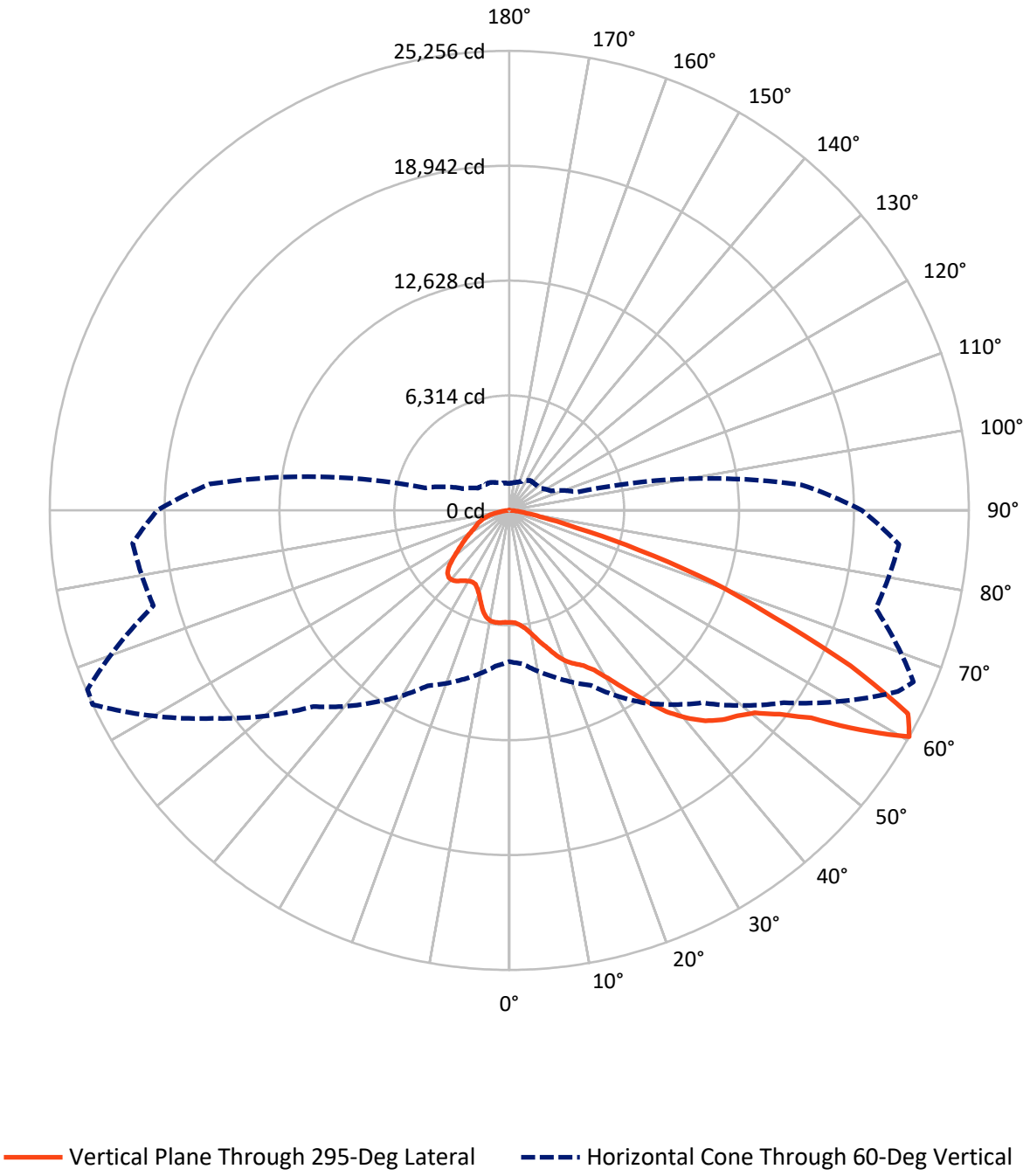
Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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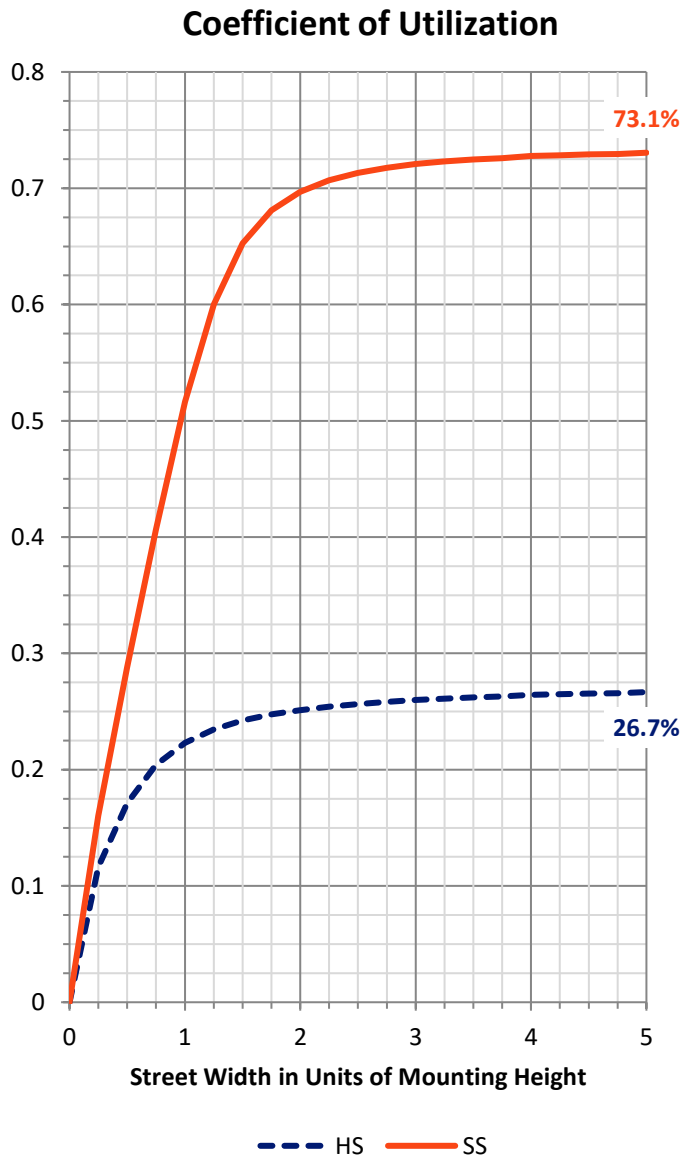
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10294.1	0.0	10294.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27986.3	0.0	27986.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	38280.4	0.0	38280.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.1	1.5
10°-20°	1664.7	4.3
20°-30°	3153.3	8.2
30°-40°	5559.1	14.5
40°-50°	8221.3	21.5
50°-60°	9654.0	25.2
60°-70°	6994.8	18.3
70°-80°	2157.1	5.6
80°-90°	297.0	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°	38280.4	100.0
0°-180°	38280.4	100.0



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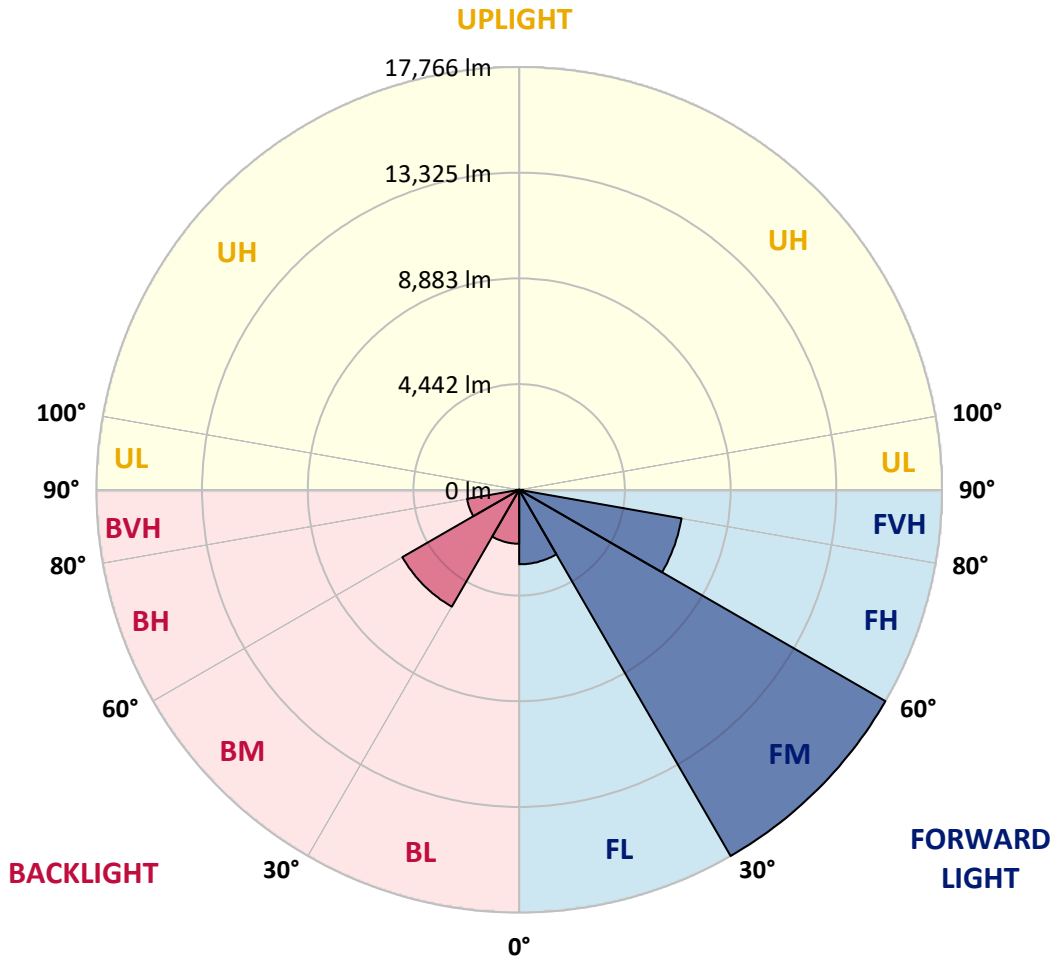
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3130.0	8.2			
FM	(30°-60°)	17766.2	46.4			
FH	(60°-80°)	6929.9	18.1			G3/7500
FVH	(80°-90°)	160.2	0.4			G2/225
BL	(0°-30°)	2267.1	5.9	B3/2500		
BM	(30°-60°)	5668.2	14.8	B4/8500		
BH	(60°-80°)	2222.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	136.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6281.3	6298.7	6272.5	6290.0	6290.0	6263.8	6255.1	6220.2	6237.6	6228.9	6220.2
5°	6429.6	6438.3	6420.9	6447.0	6447.0	6455.7	6447.0	6403.4	6403.4	6403.4	6386.0
7.5°	6386.0	6386.0	6394.7	6481.9	6569.2	6682.6	6682.6	6665.1	6682.6	6673.8	6595.3
10°	6019.5	6054.4	6133.0	6351.1	6560.4	6804.7	6970.5	7022.8	7022.8	7031.5	6900.7
12.5°	5365.2	5391.4	5574.6	5906.1	6342.3	6787.3	7188.6	7450.3	7476.5	7520.1	7345.6
15°	4780.7	4798.2	4929.1	5269.3	5766.6	6551.7	7310.7	7851.6	7938.8	8122.0	7860.3
17.5°	4833.1	4824.4	4859.3	4990.1	5347.8	6167.9	7284.5	8322.7	8479.7	8802.5	8575.7
20°	5147.1	5147.1	5173.3	5199.5	5330.4	5888.7	7092.6	8706.5	9011.9	9640.0	9378.3
22.5°	5644.4	5644.4	5635.7	5679.3	5679.3	6010.8	7101.3	8994.4	9448.1	10573.5	10320.5
25°	6333.6	6298.7	6298.7	6316.2	6237.6	6473.2	7319.4	9291.0	9884.3	11681.4	11463.3
27.5°	7110.0	7136.2	7118.8	7057.7	6953.0	7136.2	7842.9	9753.4	10372.8	12850.4	12763.2
30°	7956.3	7965.0	7982.4	7947.5	7860.3	7991.2	8662.9	10451.3	11018.4	14071.8	14263.7
32.5°	8785.1	8907.2	8863.6	8776.3	8811.2	9046.8	9674.9	11393.5	11978.0	15205.9	15886.4
35°	9840.7	9884.3	10058.8	9736.0	9744.7	10146.0	10966.0	12632.3	13199.4	16383.6	17509.0
37.5°	11376.1	11454.6	11376.1	10870.1	10791.6	11349.9	12222.3	13853.7	14263.7	17273.5	19018.3
40°	12885.3	12981.3	13112.1	12518.9	12021.6	12484.0	13408.8	14787.2	15214.6	17762.0	20021.5
42.5°	14132.9	14289.9	14150.3	13975.8	13522.2	13609.4	14237.5	15511.2	15938.7	18381.4	21033.5
45°	15188.5	15214.6	15275.7	15153.6	14926.7	14848.2	14944.2	16148.1	16619.2	18660.6	21530.8
47.5°	15624.7	15738.1	15790.4	15999.8	16235.3	16078.3	15546.1	16444.7	16872.2	18643.2	21687.8
50°	15389.1	15502.5	15781.7	16279.0	16846.0	17125.2	16252.8	16854.7	17334.6	18957.2	22010.6
52.5°	14769.7	14891.8	15345.5	15912.5	16863.5	17500.3	17247.3	17709.7	18172.1	19515.5	22551.5
55°	13269.2	13452.4	14089.2	15031.4	16340.0	17299.7	18294.2	18965.9	19471.9	20187.3	23109.8
57.5°	11088.2	11280.1	11995.5	13408.8	15371.7	16470.9	18599.5	21321.4	21548.2	20989.9	23162.2
60°	*8305.2*	*8462.3*	*9474.2*	*10608.4*	*12911.5*	*14952.9*	*18425.1*	*23554.8*	*24130.5*	*20850.3*	*21495.9*
62.5°	6577.9	6769.8	7668.4	8191.8	9840.7	12353.2	17814.4	24174.2	24671.4	19698.8	19175.3
65°	5138.4	5269.3	6106.8	6857.1	7258.4	8436.1	15267.0	21146.9	21591.9	17823.1	15825.3
67.5°	3393.6	3594.3	4588.8	5618.2	5827.6	5365.2	10503.7	16270.2	16479.6	14167.7	11899.5
70°	2434.0	2530.0	3271.5	4370.7	4684.8	3594.3	5722.9	12318.3	12379.3	9509.1	8017.3
72.5°	1657.6	1675.0	2224.6	3350.0	3733.9	2608.5	3149.4	8113.3	7903.9	4693.5	4588.8
75°	1125.4	1142.8	1422.0	2233.3	2643.4	1814.6	2050.1	4423.1	4248.6	2591.0	2783.0
77.5°	759.0	776.4	977.1	1500.5	1762.2	1256.3	1500.5	2338.0	2294.4	1718.6	1491.8
80°	575.8	602.0	724.1	959.6	1230.1	732.8	855.0	1107.9	1125.4	916.0	759.0
82.5°	322.8	357.7	436.2	488.5	793.9	410.0	410.0	663.0	636.9	567.1	410.0
85°	139.6	148.3	174.5	183.2	322.8	174.5	148.3	287.9	296.6	279.2	130.9
87.5°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	34.9	34.9	34.9	34.9
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°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6176.6	6228.9	6176.6	6150.4	6150.4	6106.8	6089.3	6089.3	6028.3	6054.4	6037.0
5°	6316.2	6333.6	6272.5	6194.0	6089.3	6002.1	5880.0	5722.9	5627.0	5618.2	5627.0
7.5°	6534.3	6543.0	6377.2	6202.8	5941.0	5627.0	5251.8	4946.5	4676.1	4632.4	4684.8
10°	6839.6	6822.2	6577.9	6167.9	5618.2	4955.2	4379.4	4100.3	3943.2	3934.5	3925.8
12.5°	7249.6	7136.2	6761.1	6019.5	5059.9	4292.2	3995.6	3978.1	4021.8	4056.7	4065.4
15°	7720.7	7572.4	6909.4	5731.7	4492.9	4047.9	4065.4	4213.7	4266.0	4300.9	4300.9
17.5°	8305.2	8113.3	7075.2	5321.6	4205.0	4100.3	4222.4	4362.0	4449.2	4484.1	4475.4
20°	9081.7	8680.4	7206.0	4929.1	4126.4	4187.5	4292.2	4431.8	4519.0	4562.6	4562.6
22.5°	9858.1	9360.8	7232.2	4658.6	4126.4	4196.2	4292.2	4431.8	4527.7	4571.4	4562.6
25°	10913.7	10233.2	7240.9	4466.7	4135.2	4152.6	4239.9	4362.0	4501.6	4545.2	4562.6
27.5°	12039.1	11192.9	7284.5	4423.1	4100.3	4091.5	4152.6	4266.0	4405.6	4519.0	4527.7
30°	13434.9	12274.6	7302.0	4466.7	4109.0	3995.6	4039.2	4152.6	4300.9	4414.3	4449.2
32.5°	14804.6	13277.9	7267.1	4562.6	4126.4	3934.5	3943.2	4013.0	4170.1	4248.6	4309.6
35°	16252.8	14342.2	7206.0	4693.5	4135.2	3908.3	3829.8	3864.7	3969.4	3978.1	4004.3
37.5°	17386.9	15136.1	7022.8	4868.0	4152.6	3812.4	3655.3	3629.2	3585.6	3498.3	3515.8
40°	18320.4	15668.3	6717.5	4955.2	4109.0	3699.0	3437.2	3315.1	3149.4	3018.5	3044.7
42.5°	18992.1	16026.0	6351.1	4972.7	4039.2	3507.0	3184.3	2974.9	2791.7	2652.1	2660.8
45°	19288.7	15991.1	5958.5	4841.8	3873.4	3271.5	2948.7	2748.1	2547.4	2399.1	2381.6
47.5°	19297.5	15650.8	5417.6	4527.7	3594.3	3001.1	2730.6	2512.5	2346.8	2242.1	2233.3
50°	19367.2	15458.9	4911.6	4074.1	3227.9	2713.2	2538.7	2320.6	2224.6	2076.3	2032.7
52.5°	19803.4	15773.0	4562.6	3576.8	2887.6	2503.8	2372.9	2181.0	2024.0	1928.0	1919.3
55°	20510.1	16313.8	4370.7	3201.7	2564.9	2303.1	2215.9	2050.1	1910.6	1814.6	1788.4
57.5°	20597.3	16593.0	4143.9	2852.7	2303.1	2146.1	2111.2	1928.0	1727.3	1657.6	1631.4
60°	*19376.0*	*16121.9*	*3864.7*	*2530.0*	*2111.2*	*2024.0*	*2006.5*	*1762.2*	*1596.5*	*1509.2*	*1474.4*
62.5°	17709.7	14944.2	3437.2	2233.3	1962.9	1901.8	1832.0	1640.1	1430.7	1334.8	1308.6
65°	14473.1	12562.5	2922.5	2032.7	1814.6	1744.8	1727.3	1465.6	1326.0	1273.7	1265.0
67.5°	10966.0	10093.6	2573.6	1884.4	1657.6	1631.4	1570.3	1483.1	1422.0	1360.9	1343.5
70°	7755.6	7284.5	2189.7	1692.5	1500.5	1456.9	1709.9	1613.9	1395.8	1317.3	1308.6
72.5°	4702.2	4571.4	1893.1	1518.0	1291.1	1360.9	1579.0	1456.9	1256.3	1160.3	1125.4
75°	2966.2	2713.2	1587.8	1291.1	1029.4	1107.9	1378.4	1299.9	1081.8	985.8	959.6
77.5°	1613.9	1500.5	1195.2	1055.6	811.3	898.6	1203.9	1073.0	863.7	942.2	837.5
80°	706.6	785.2	793.9	610.7	540.9	663.0	863.7	837.5	663.0	671.7	558.3
82.5°	340.2	444.9	514.7	418.8	305.3	392.6	575.8	479.8	444.9	418.8	401.3
85°	104.7	165.8	226.8	200.7	139.6	165.8	270.4	261.7	314.1	270.4	253.0
87.5°	34.9	34.9	26.2	26.2	26.2	34.9	43.6	26.2	8.7	8.7	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°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6028.3	6037.0	6037.0	6045.7	6045.7	6071.9	6106.8	6141.7	6115.5	6150.4	6159.1
5°	5609.5	5653.1	5688.0	5818.9	5923.6	6010.8	6106.8	6194.0	6220.2	6237.6	6281.3
7.5°	4623.7	4745.8	4972.7	5269.3	5600.8	5923.6	6141.7	6368.5	6403.4	6447.0	6508.1
10°	3934.5	3986.9	4143.9	4449.2	5042.5	5679.3	6211.5	6569.2	6717.5	6804.7	6865.8
12.5°	4047.9	4013.0	3986.9	4030.5	4414.3	5234.4	6167.9	6857.1	7136.2	7232.2	7310.7
15°	4318.4	4283.5	4187.5	4065.4	4109.0	4763.3	6019.5	7127.5	7572.4	7729.4	7895.2
17.5°	4475.4	4440.5	4362.0	4231.1	4117.7	4370.7	5740.4	7371.8	8261.6	8453.5	8689.1
20°	4562.6	4527.7	4449.2	4318.4	4187.5	4222.4	5382.7	7677.1	9046.8	9352.1	9701.1
22.5°	4580.1	4536.5	4449.2	4318.4	4239.9	4213.7	5042.5	7860.3	9893.0	10364.1	10765.4
25°	4571.4	4492.9	4379.4	4283.5	4239.9	4231.1	4806.9	7965.0	10809.0	11559.3	12012.9
27.5°	4510.3	4414.3	4300.9	4231.1	4213.7	4266.0	4702.2	8087.1	11882.1	12841.7	13565.8
30°	4440.5	4300.9	4161.3	4135.2	4178.8	4344.5	4789.5	8130.8	13007.5	14237.5	14979.1
32.5°	4257.3	4152.6	4013.0	4004.3	4109.0	4405.6	4990.1	8069.7	14002.0	15633.4	16566.8
35°	3995.6	3934.5	3856.0	3882.2	4047.9	4458.0	5129.7	7877.8	14909.3	16933.3	18023.7
37.5°	3533.2	3576.8	3620.5	3681.5	3890.9	4449.2	5190.8	7572.4	15659.5	17971.4	19367.2
40°	3018.5	3166.8	3306.4	3463.4	3742.6	4379.4	5208.2	7197.3	16095.7	18756.6	20562.4
42.5°	2695.7	2835.3	3009.8	3236.6	3541.9	4222.4	5190.8	6778.5	16235.3	19297.5	21321.4
45°	2399.1	2564.9	2783.0	3018.5	3367.5	3995.6	5033.7	6324.9	16305.1	19550.4	21644.2
47.5°	2242.1	2338.0	2538.7	2774.2	3140.6	3716.4	4728.4	5993.4	16200.4	19602.8	22036.8
50°	2058.9	2189.7	2320.6	2547.4	2905.1	3367.5	4362.0	5801.4	16374.9	20117.5	22656.2
52.5°	1919.3	1989.1	2128.7	2338.0	2599.7	3044.7	4013.0	5644.4	16854.7	20640.9	23301.8
55°	1814.6	1893.1	1980.3	2154.8	2355.5	2721.9	3655.3	5408.9	17413.1	21199.3	23947.3
57.5°	1648.8	1701.2	1823.3	2006.5	2137.4	2407.8	3236.6	5129.7	17369.4	20763.1	22830.7
60°	*1500.5*	*1552.9*	*1683.7*	*1866.9*	*1945.4*	*2128.7*	*2826.6*	*4772.0*	*16531.9*	*19341.1*	*20771.8*
62.5°	1334.8	1395.8	1552.9	1683.7	1753.5	1893.1	2399.1	4117.7	14787.2	17203.7	18364.0
65°	1265.0	1299.9	1404.6	1561.6	1552.9	1683.7	2024.0	3236.6	11899.5	13147.0	14202.6
67.5°	1343.5	1395.8	1378.4	1422.0	1395.8	1465.6	1814.6	2599.7	9352.1	9901.7	10512.4
70°	1326.0	1448.2	1509.2	1422.0	1221.4	1299.9	1570.3	2076.3	6691.3	6639.0	6612.8
72.5°	1160.3	1282.4	1456.9	1544.1	1195.2	1081.8	1360.9	1797.1	4292.2	4274.8	3864.7
75°	985.8	1073.0	1282.4	1395.8	1029.4	872.4	1169.0	1526.7	2564.9	2599.7	2320.6
77.5°	907.3	863.7	1073.0	1230.1	837.5	671.7	942.2	1151.6	1413.3	1430.7	1326.0
80°	654.3	628.1	802.6	898.6	636.9	479.8	532.2	715.4	759.0	680.5	706.6
82.5°	418.8	427.5	479.8	575.8	392.6	261.7	366.4	479.8	410.0	331.5	392.6
85°	270.4	305.3	253.0	296.6	122.1	122.1	157.0	209.4	139.6	96.0	104.7
87.5°	0.0	0.0	17.4	34.9	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

REPORT NUMBER: P1501536
CATALOG NUMBER: GSS-SB5D-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	6159.1	6159.1	*6159.1*	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6185.3	6176.6	*6176.6*	6194.0	6237.6	6255.1	6281.3	6272.5	6298.7	6281.3
5°	6307.4	6316.2	*6342.3*	6351.1	6377.2	6412.1	6420.9	6412.1	6429.6	6429.6
7.5°	6551.7	6586.6	*6569.2*	6612.8	6577.9	6534.3	6464.5	6412.1	6368.5	6386.0
10°	6961.7	6944.3	*6935.6*	6857.1	6700.0	6473.2	6290.0	6089.3	6054.4	6019.5
12.5°	7415.4	7397.9	*7397.9*	7127.5	6682.6	6211.5	5792.7	5478.7	5374.0	5365.2
15°	8052.2	7938.8	*7834.1*	7267.1	6377.2	5574.6	5086.1	4841.8	4780.7	4780.7
17.5°	8846.1	8549.5	*8375.0*	7162.4	5880.0	5155.9	4868.0	4806.9	4789.5	4833.1
20°	9831.9	9081.7	*8828.7*	6926.8	5696.8	5208.2	5068.6	5077.4	5086.1	5147.1
22.5°	10913.7	9570.2	*9151.5*	6926.8	5880.0	5539.7	5469.9	5565.9	5592.1	5644.4
25°	12117.6	10006.4	*9439.3*	7293.2	6420.9	6167.9	6080.6	6176.6	6246.4	6333.6
27.5°	13469.8	10460.1	*9936.6*	7956.3	7118.8	6961.7	6865.8	6909.4	7005.4	7110.0
30°	14682.5	11219.0	*10695.6*	8968.3	8069.7	7877.8	7712.0	7781.8	7886.5	7956.3
32.5°	15755.5	12143.8	*11698.9*	10032.6	9160.2	8828.7	8645.5	8628.0	8837.4	8785.1
35°	16741.3	13234.3	*12806.8*	11245.2	10268.1	9858.1	9613.8	9927.9	9788.3	9840.7
37.5°	17517.8	14368.4	*14028.2*	12405.5	11419.7	10861.4	10713.1	11096.9	11315.0	11376.1
40°	18154.6	15354.2	*14996.5*	13557.1	12475.3	12065.3	12300.8	12937.7	12911.5	12885.3
42.5°	18643.2	16200.4	*15807.9*	14429.5	13487.3	13565.8	13749.0	14176.5	14281.2	14132.9
45°	18861.3	16732.6	*16418.5*	15118.7	14638.8	15092.5	15171.0	15354.2	15284.4	15188.5
47.5°	19114.2	17203.7	*16872.2*	15746.8	15886.4	16331.3	16174.3	16026.0	15773.0	15624.7
50°	19541.7	17762.0	*17482.9*	16662.8	17168.8	17020.5	16409.8	16078.3	15563.6	15389.1
52.5°	20353.1	18817.6	*18608.3*	18111.0	17770.8	16915.8	16174.3	15581.0	15005.3	14769.7
55°	21077.1	20248.4	*20126.2*	19463.2	17587.5	16366.2	15371.7	14455.6	13469.8	13269.2
57.5°	21495.9	22621.3	*22760.9*	20039.0	16750.0	15118.7	13653.0	12187.4	11253.9	11088.2
60°	*20248.4*	*25186.1*	*25255.9*	*19925.6*	*15240.8*	*12867.9*	*10634.5*	*9596.4*	*8593.1*	*8305.2*
62.5°	18529.7	24654.0	*24592.9*	19245.1	12135.1	9387.0	8078.4	7589.9	6813.4	6577.9
65°	15930.0	20536.3	*20606.0*	16627.9	8069.7	6787.3	6787.3	6167.9	5304.2	5138.4
67.5°	12981.3	15834.0	*15677.0*	10782.8	4955.2	5435.0	5696.8	4806.9	3594.3	3393.6
70°	8436.1	12091.4	*11873.3*	6220.2	3114.5	4527.7	4484.1	3611.7	2573.6	2434.0
72.5°	3629.2	6987.9	*7432.8*	3175.5	2346.8	3646.6	3576.8	2530.0	1718.6	1657.6
75°	2189.7	3515.8	*3829.8*	2024.0	1709.9	2748.1	2477.6	1605.2	1169.0	1125.4
77.5°	1387.1	1928.0	*1910.6*	1518.0	1282.4	1858.2	1666.3	1107.9	793.9	759.0
80°	802.6	950.9	*985.8*	950.9	863.7	1326.0	1064.3	802.6	619.4	575.8
82.5°	514.7	593.2	*602.0*	462.4	479.8	855.0	575.8	471.1	357.7	322.8
85°	226.8	253.0	*244.3*	157.0	157.0	349.0	200.7	191.9	139.6	139.6
87.5°	8.7	17.4	*8.7*	8.7	8.7	34.9	17.4	26.2	26.2	26.2
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

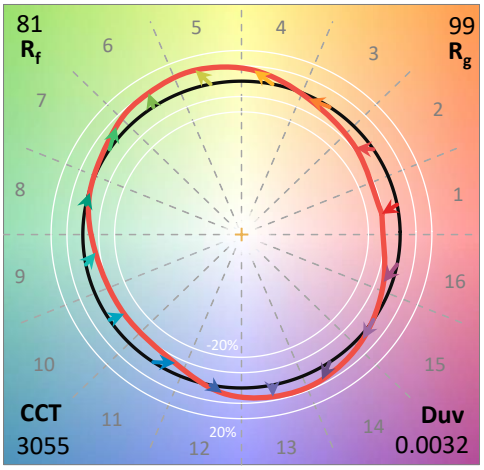
Test Information

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

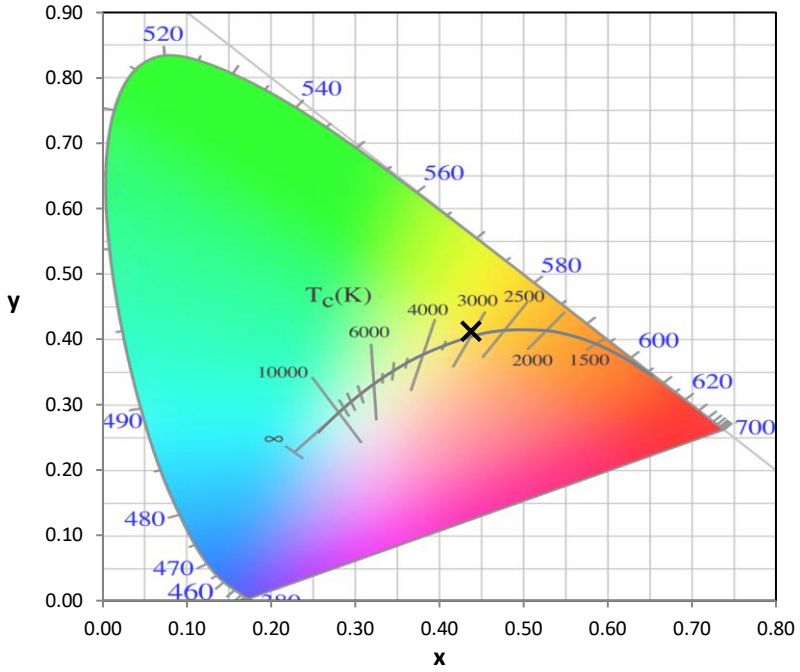
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

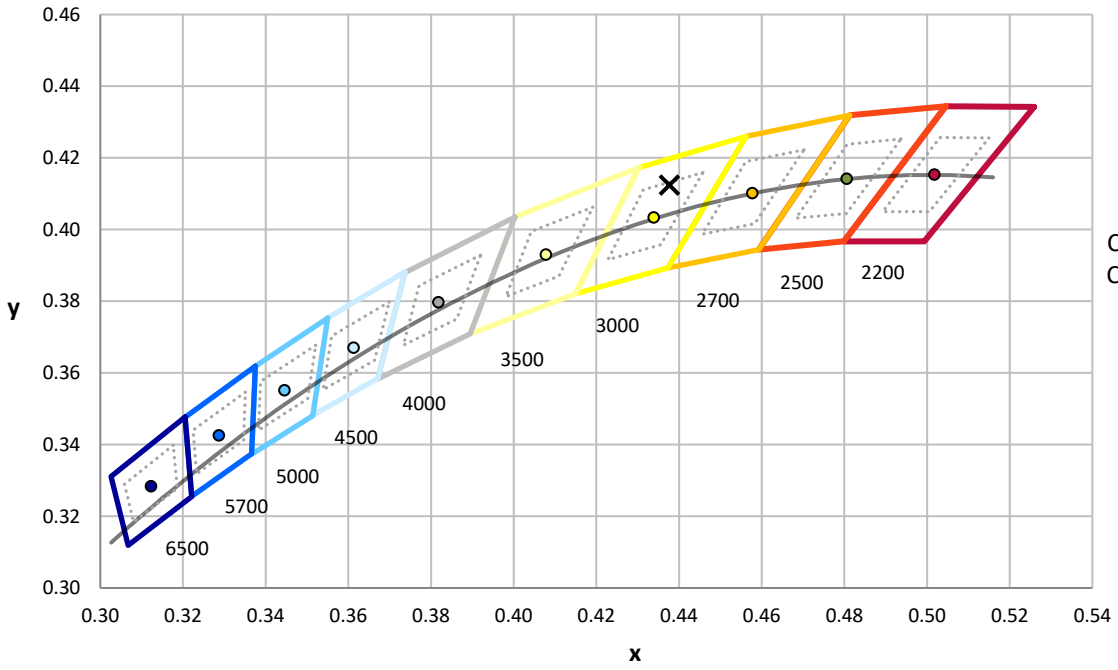
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

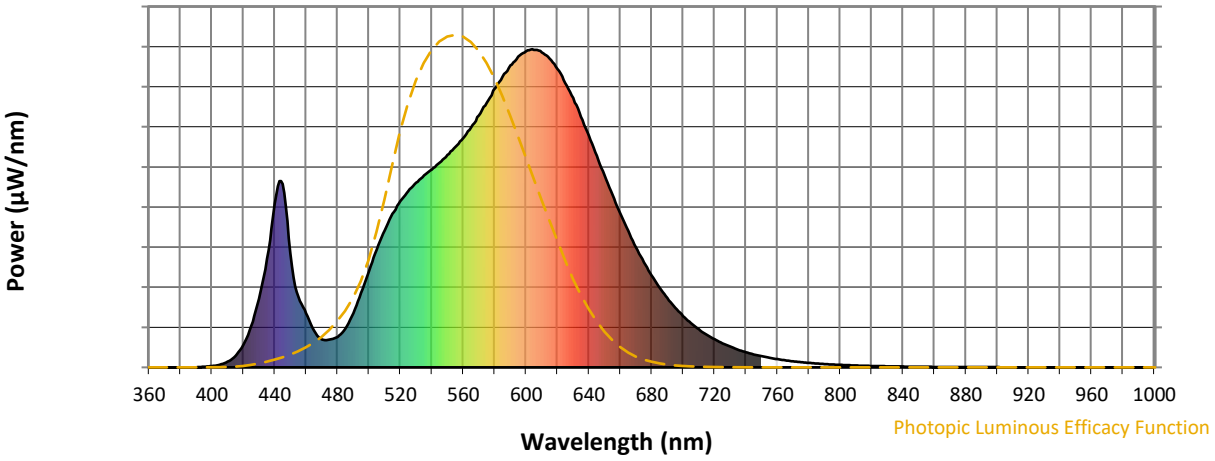


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

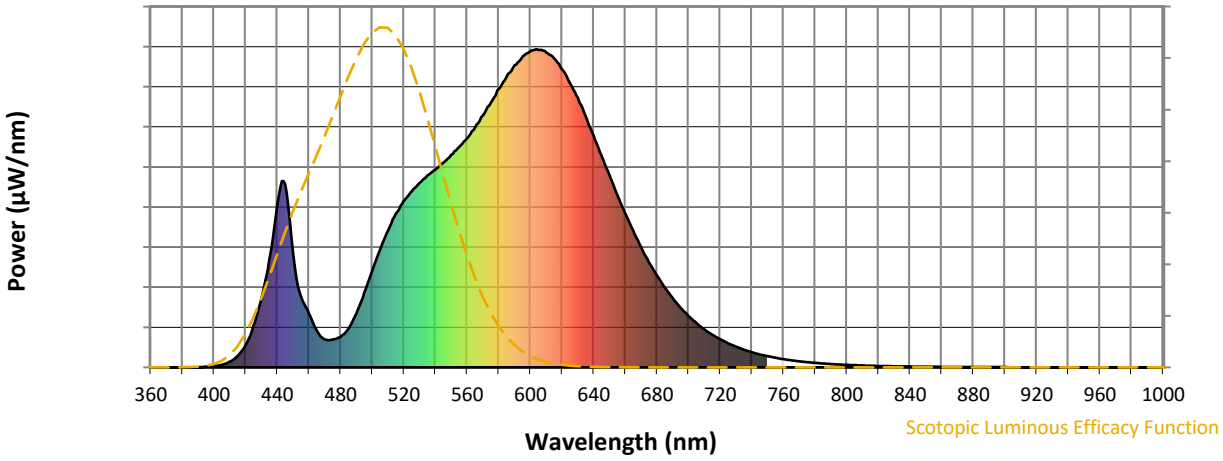


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

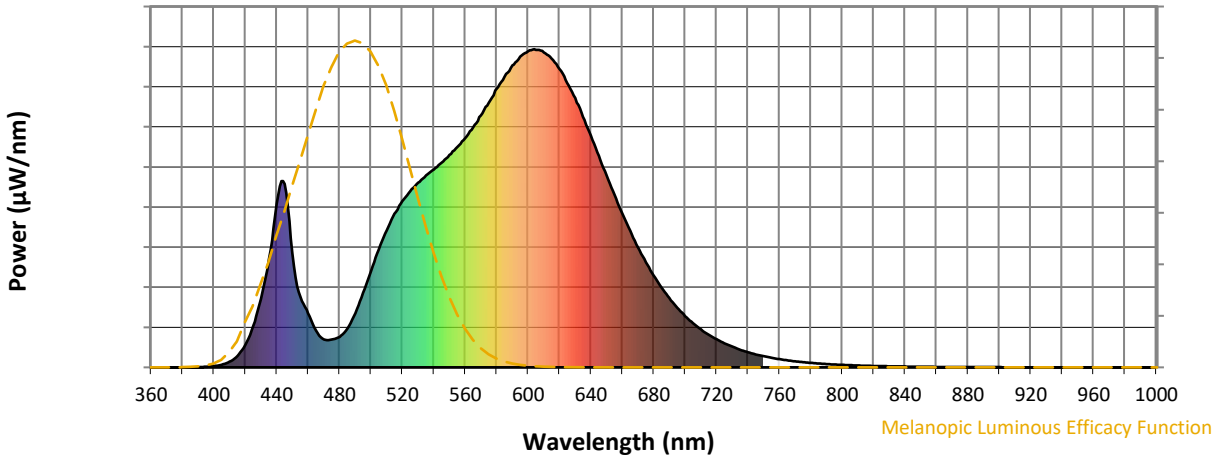


Scotopic Lumens: NR **S/P: 1.28**

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			

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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			

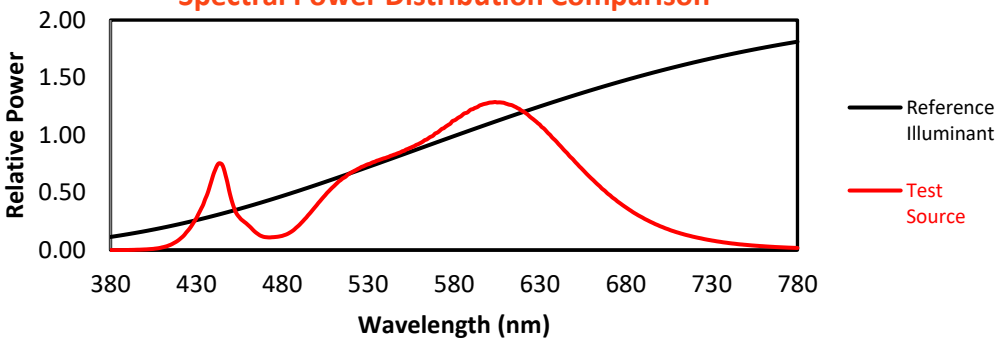
REPORT NUMBER: SP1-2407-184-9

TM-30-18

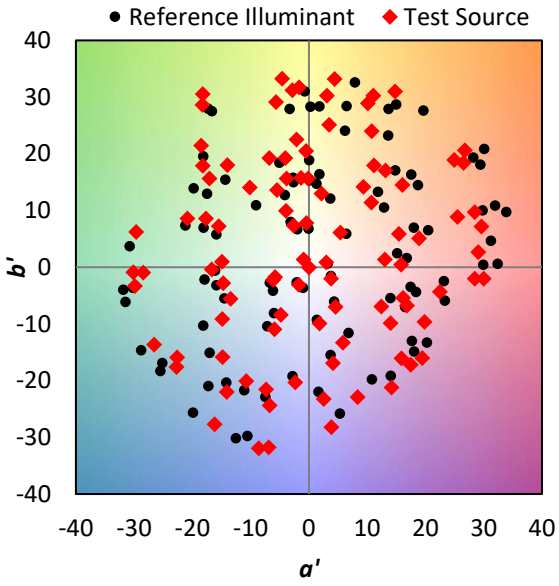
Summary

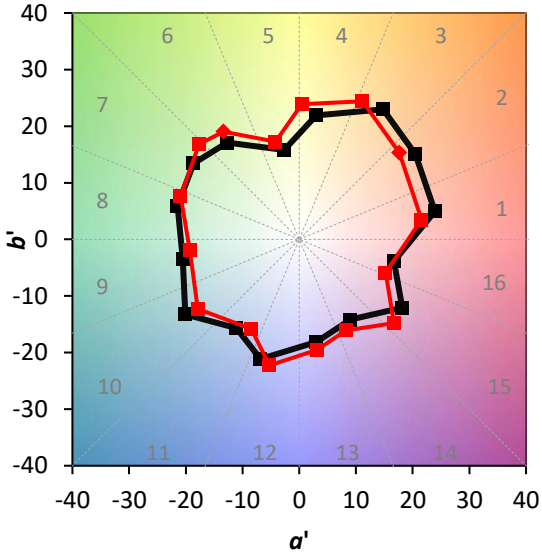
R_f = 81.5
R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

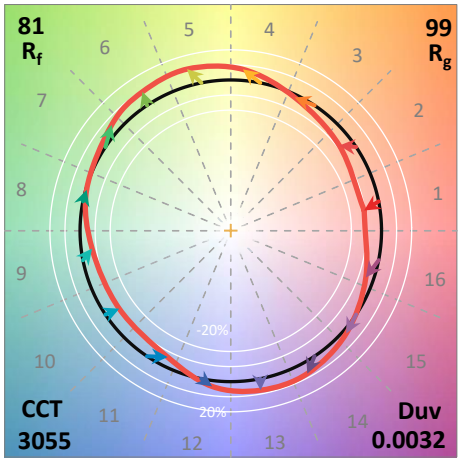
Spectral Power Distribution Comparison

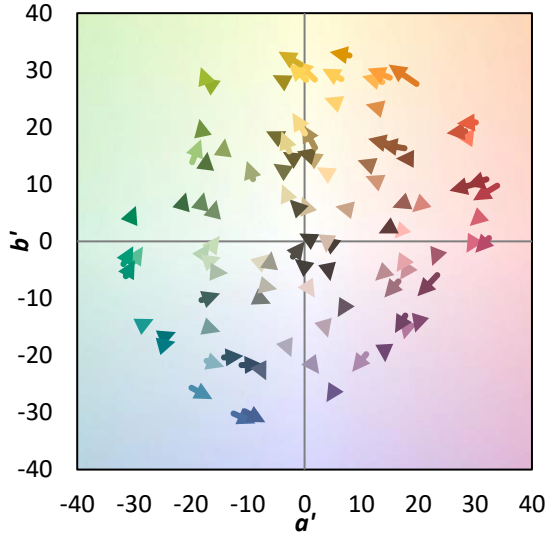


Color Vector Graphics







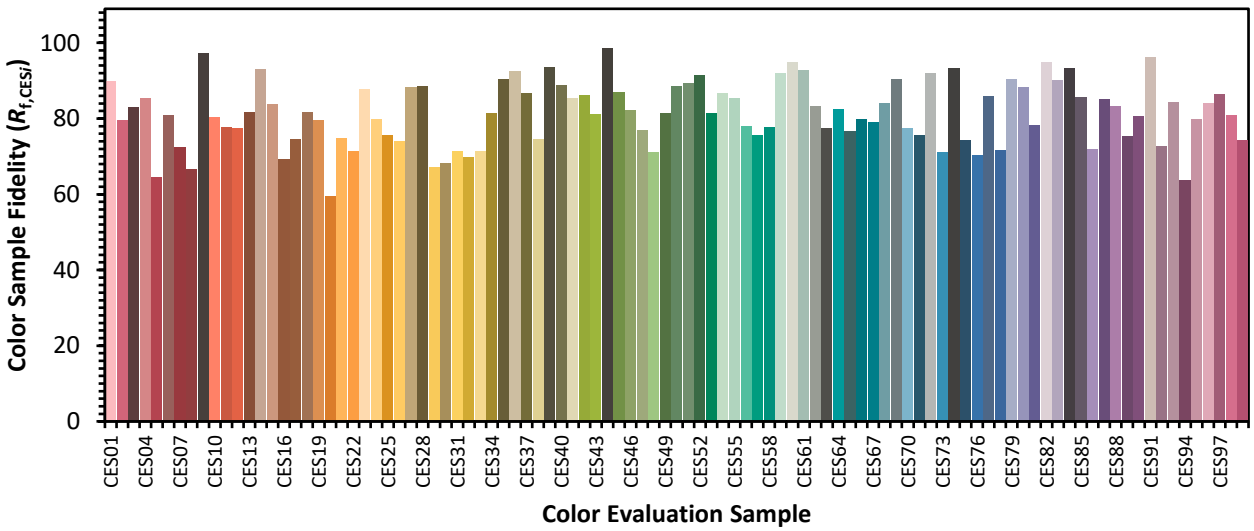


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Individual Sample Fidelity Index ($R_{f,i}$)

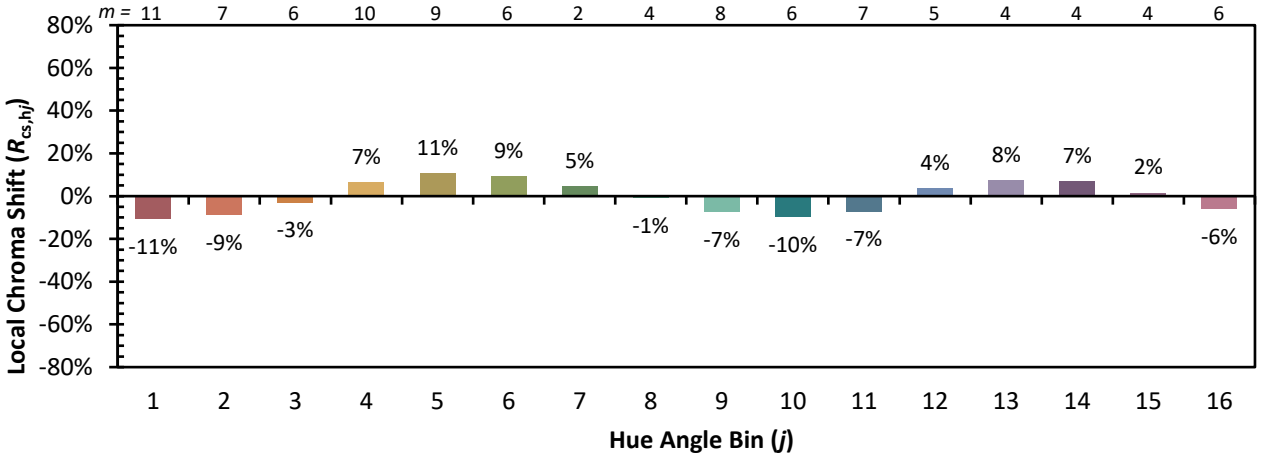
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

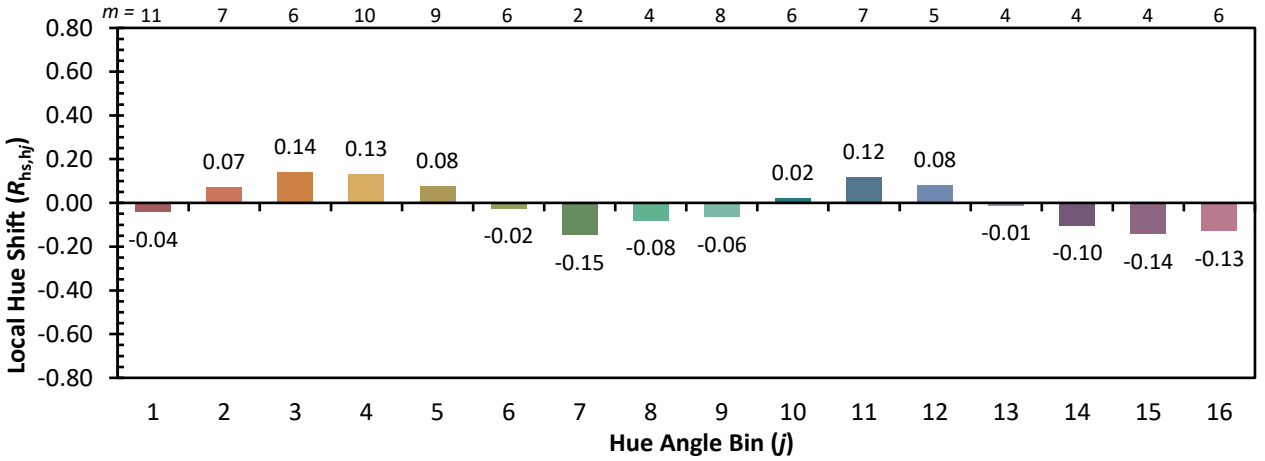


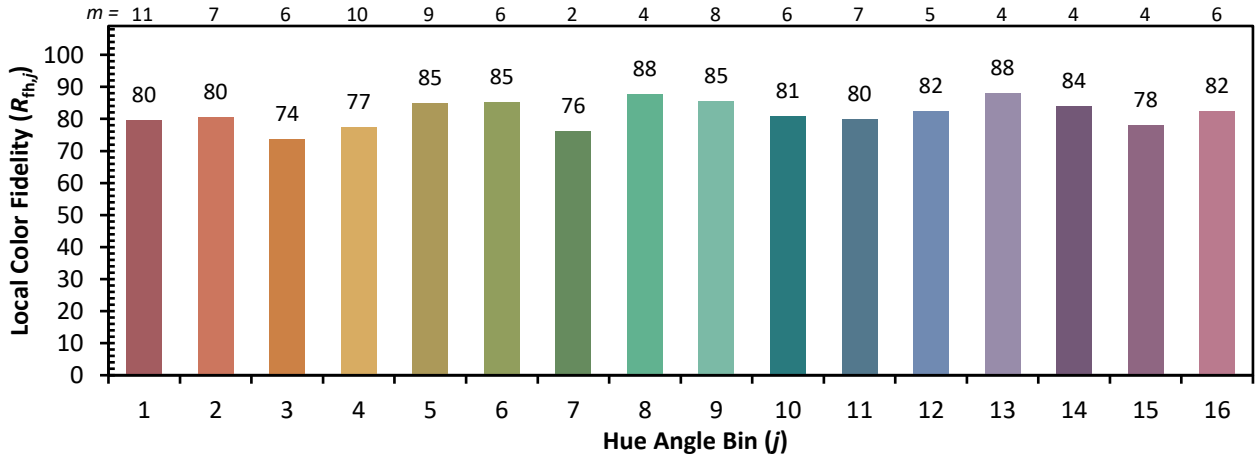
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Color Rendition by Hue-Angle Bin



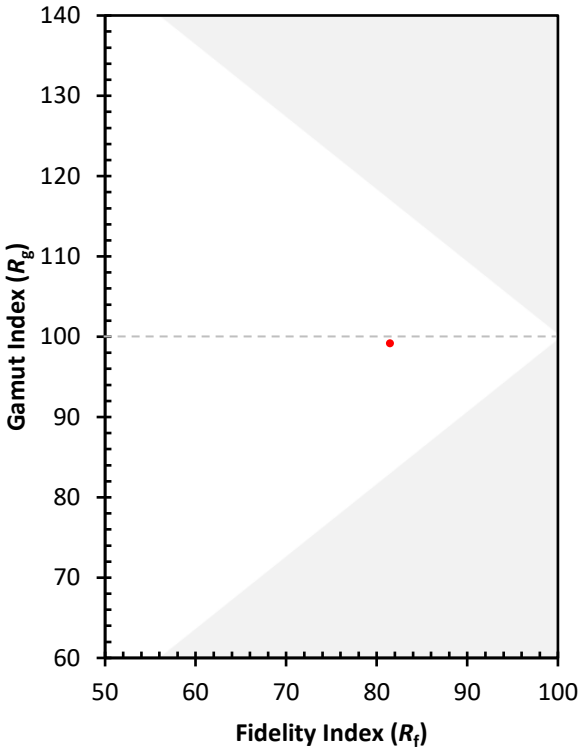


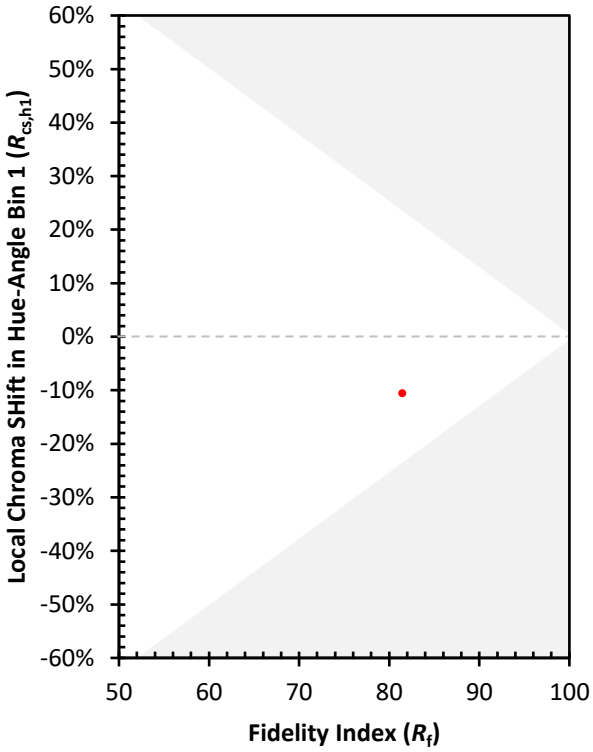


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Measure Comparisons





(END OF REPORT)