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: P1501608

Luminaire Tested: GSS-SB5D-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:	P1501608
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5D-850-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 302W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(130) 5000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	40760.3 lumens
Efficiency:	N/A
Efficacy:	135.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G3

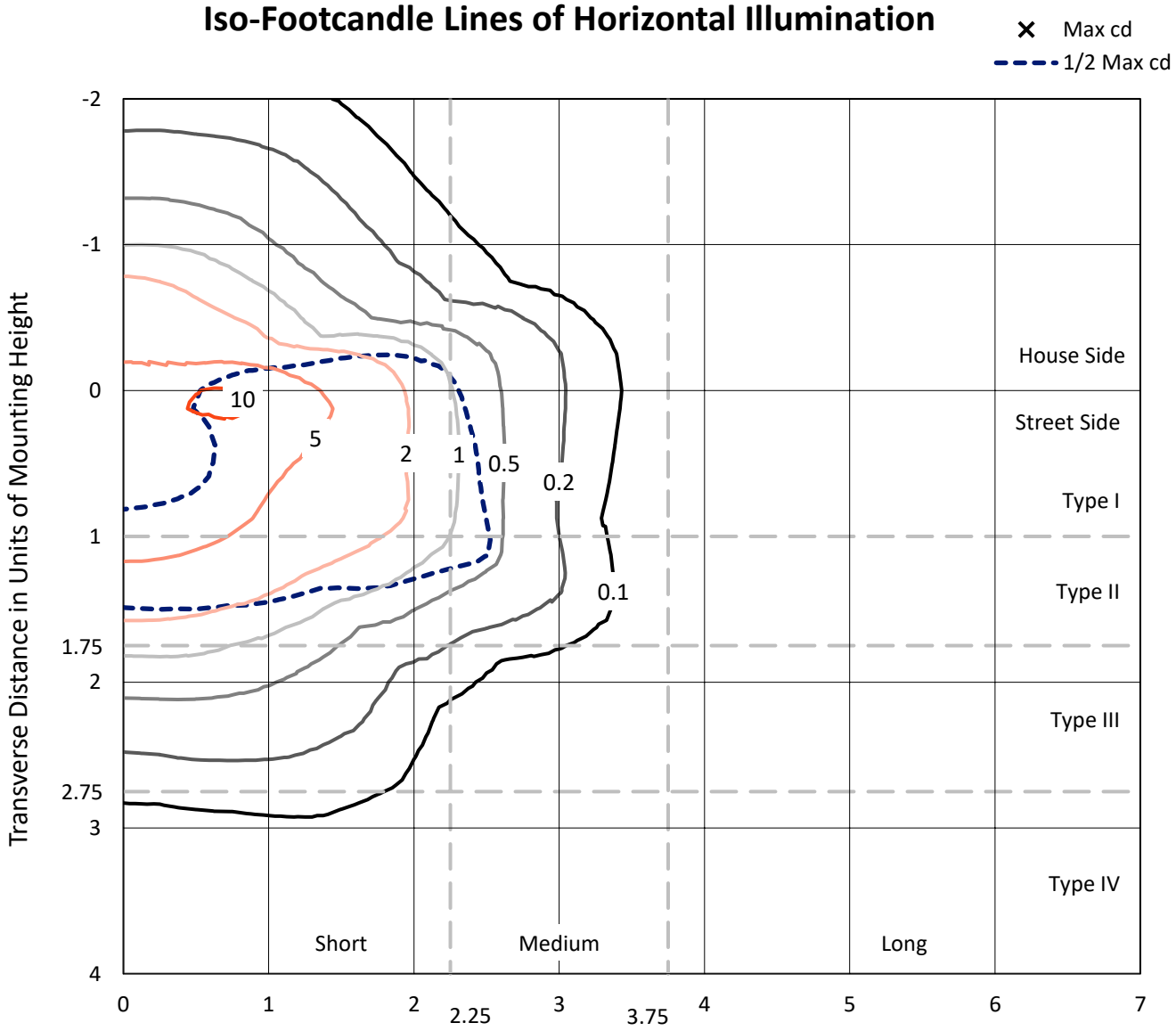
Input Watts (W):	302
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



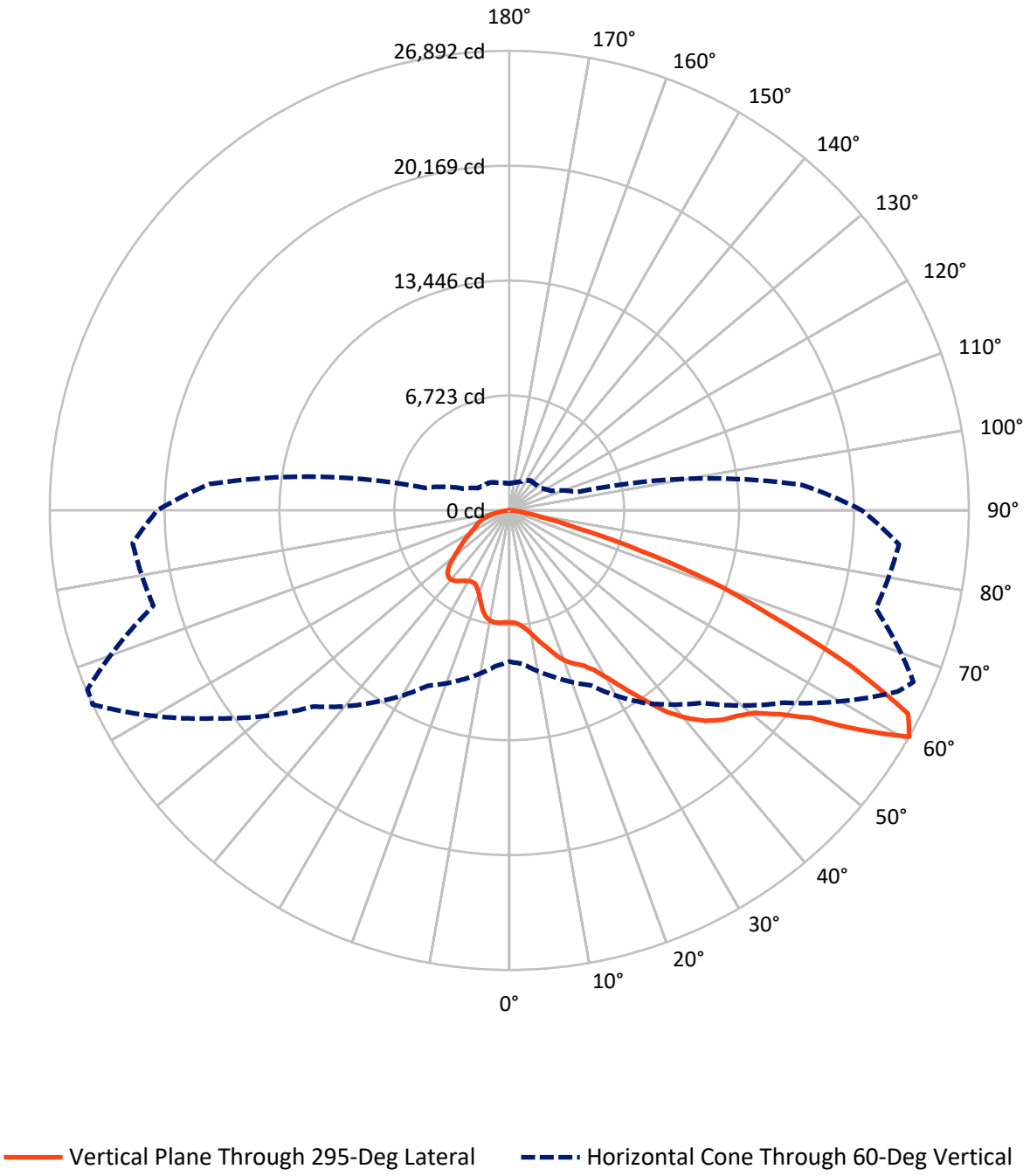
Based on 30 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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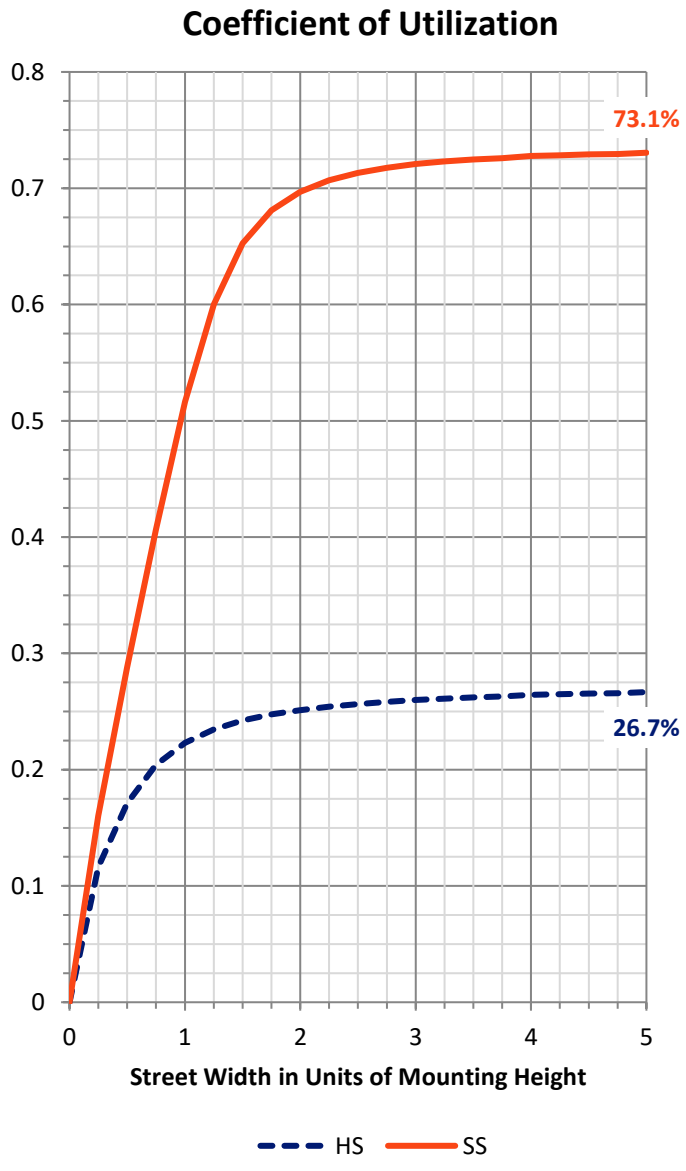
REPORT NUMBER: P1501608
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10960.9	0.0	10960.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	29799.3	0.0	29799.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	40760.3	0.0	40760.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.6	1.5
10°-20°	1772.6	4.3
20°-30°	3357.6	8.2
30°-40°	5919.2	14.5
40°-50°	8753.9	21.5
50°-60°	10279.4	25.2
60°-70°	7447.9	18.3
70°-80°	2296.9	5.6
80°-90°	316.2	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°	40760.3	100.0
0°-180°	40760.3	100.0



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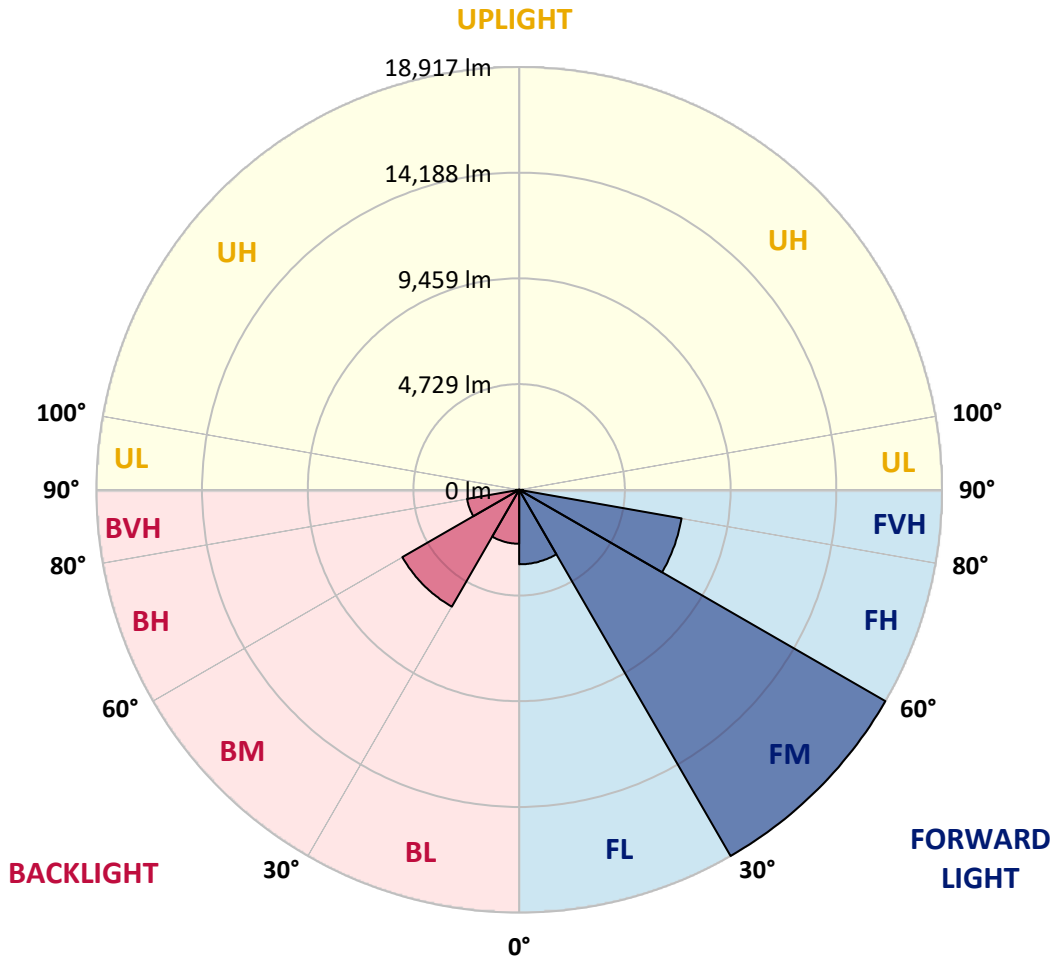
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3332.8	8.2			
FM	(30°-60°)	18917.1	46.4			
FH	(60°-80°)	7378.9	18.1			G3/7500
FVH	(80°-90°)	170.6	0.4			G2/225
BL	(0°-30°)	2414.0	5.9	B3/2500		
BM	(30°-60°)	6035.4	14.8	B4/8500		
BH	(60°-80°)	2365.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	145.6	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°	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	6688.2	6706.8	6678.9	6697.5	6697.5	6669.6	6660.3	6623.2	6641.7	6632.4	6623.2
5°	6846.1	6855.4	6836.8	6864.7	6864.7	6874.0	6864.7	6818.2	6818.2	6818.2	6799.7
7.5°	6799.7	6799.7	6808.9	6901.8	6994.7	7115.5	7115.5	7096.9	7115.5	7106.2	7022.6
10°	6409.5	6446.7	6530.3	6762.5	6985.4	7245.5	7422.0	7477.8	7477.8	7487.0	7347.7
12.5°	5712.8	5740.7	5935.8	6288.7	6753.2	7227.0	7654.3	7932.9	7960.8	8007.2	7821.5
15°	5090.4	5109.0	5248.4	5610.6	6140.1	6976.1	7784.3	8360.2	8453.1	8648.2	8369.5
17.5°	5146.2	5136.9	5174.1	5313.4	5694.2	6567.4	7756.4	8861.8	9029.0	9372.7	9131.2
20°	5480.6	5480.6	5508.5	5536.3	5675.7	6270.2	7552.1	9270.6	9595.7	10264.5	9985.8
22.5°	6010.1	6010.1	6000.8	6047.2	6047.2	6400.2	7561.4	9577.1	10060.1	11258.4	10989.1
25°	6743.9	6706.8	6706.8	6725.3	6641.7	6892.5	7793.6	9892.9	10524.6	12438.2	12205.9
27.5°	7570.6	7598.5	7579.9	7514.9	7403.4	7598.5	8350.9	10385.3	11044.8	13682.9	13590.0
30°	8471.7	8481.0	8499.6	8462.4	8369.5	8508.9	9224.1	11128.4	11732.2	14983.4	15187.7
32.5°	9354.2	9484.2	9437.8	9344.9	9382.0	9632.8	10301.7	12131.6	12754.0	16191.0	16915.5
35°	10478.2	10524.6	10710.4	10366.7	10376.0	10803.3	11676.4	13450.7	14054.5	17445.0	18643.3
37.5°	12113.0	12196.6	12113.0	11574.3	11490.7	12085.2	13014.1	14751.2	15187.7	18392.5	20250.3
40°	13720.1	13822.2	13961.6	13329.9	12800.4	13292.8	14277.4	15745.1	16200.3	18912.7	21318.6
42.5°	15048.4	15215.6	15067.0	14881.2	14398.2	14491.1	15159.9	16516.1	16971.3	19572.2	22396.1
45°	16172.4	16200.3	16265.3	16135.2	15893.7	15810.1	15912.3	17194.2	17695.8	19869.5	22925.6
47.5°	16636.9	16757.6	16813.3	17036.3	17287.1	17119.9	16553.2	17510.0	17965.2	19850.9	23092.8
50°	16386.0	16506.8	16804.1	17333.5	17937.3	18234.6	17305.7	17946.6	18457.5	20185.3	23436.5
52.5°	15726.5	15856.6	16339.6	16943.4	17955.9	18634.0	18364.6	18857.0	19349.3	20779.8	24012.4
55°	14128.8	14323.9	15002.0	16005.2	17398.6	18420.4	19479.3	20194.6	20733.4	21495.1	24606.9
57.5°	11806.5	12010.9	12772.6	14277.4	16367.5	17537.9	19804.4	22702.7	22944.2	22349.7	24662.7
60°	*8843.3*	*9010.5*	*10088.0*	*11295.6*	*13747.9*	*15921.6*	*19618.7*	*25080.7*	*25693.8*	*22201.0*	*22888.4*
62.5°	7004.0	7208.4	8165.2	8722.5	10478.2	13153.4	18968.4	25740.2	26269.7	20974.9	20417.5
65°	5471.3	5610.6	6502.4	7301.3	7728.6	8982.6	16256.0	22516.9	22990.6	18977.7	16850.5
67.5°	3613.5	3827.1	4886.1	5982.2	6205.1	5712.8	11184.1	17324.2	17547.2	15085.6	12670.4
70°	2591.7	2693.9	3483.4	4653.9	4988.3	3827.1	6093.7	13116.3	13181.3	10125.2	8536.7
72.5°	1764.9	1783.5	2368.7	3567.0	3975.8	2777.5	3353.4	8638.9	8416.0	4997.6	4886.1
75°	1198.3	1216.9	1514.1	2378.0	2814.6	1932.1	2182.9	4709.6	4523.8	2758.9	2963.2
77.5°	808.2	826.7	1040.4	1597.7	1876.4	1337.6	1597.7	2489.5	2443.0	1830.0	1588.4
80°	613.1	641.0	771.0	1021.8	1309.8	780.3	910.3	1179.7	1198.3	975.4	808.2
82.5°	343.7	380.9	464.5	520.2	845.3	436.6	436.6	706.0	678.1	603.8	436.6
85°	148.6	157.9	185.8	195.1	343.7	185.8	157.9	306.5	315.8	297.3	139.3
87.5°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	37.2	37.2	37.2	37.2
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°	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	6576.7	6632.4	6576.7	6548.8	6548.8	6502.4	6483.8	6483.8	6418.8	6446.7	6428.1
5°	6725.3	6743.9	6678.9	6595.3	6483.8	6390.9	6260.9	6093.7	5991.5	5982.2	5991.5
7.5°	6957.6	6966.9	6790.4	6604.6	6325.9	5991.5	5592.1	5266.9	4979.0	4932.5	4988.3
10°	7282.7	7264.1	7004.0	6567.4	5982.2	5276.2	4663.1	4365.9	4198.7	4189.4	4180.1
12.5°	7719.3	7598.5	7199.1	6409.5	5387.7	4570.3	4254.4	4235.8	4282.3	4319.5	4328.7
15°	8220.9	8063.0	7357.0	6103.0	4783.9	4310.2	4328.7	4486.7	4542.4	4579.5	4579.5
17.5°	8843.3	8638.9	7533.5	5666.4	4477.4	4365.9	4495.9	4644.6	4737.5	4774.6	4765.3
20°	9670.0	9242.7	7672.8	5248.4	4393.8	4458.8	4570.3	4718.9	4811.8	4858.2	4858.2
22.5°	10496.7	9967.2	7700.7	4960.4	4393.8	4468.1	4570.3	4718.9	4821.1	4867.5	4858.2
25°	11620.7	10896.2	7710.0	4756.0	4403.1	4421.6	4514.5	4644.6	4793.2	4839.6	4858.2
27.5°	12819.0	11918.0	7756.4	4709.6	4365.9	4356.6	4421.6	4542.4	4691.0	4811.8	4821.1
30°	14305.3	13069.8	7775.0	4756.0	4375.2	4254.4	4300.9	4421.6	4579.5	4700.3	4737.5
32.5°	15763.7	14138.1	7737.9	4858.2	4393.8	4189.4	4198.7	4273.0	4440.2	4523.8	4588.8
35°	17305.7	15271.3	7672.8	4997.6	4403.1	4161.5	4077.9	4115.1	4226.6	4235.8	4263.7
37.5°	18513.3	16116.7	7477.8	5183.3	4421.6	4059.4	3892.1	3864.3	3817.8	3724.9	3743.5
40°	19507.2	16683.3	7152.6	5276.2	4375.2	3938.6	3659.9	3529.9	3353.4	3214.0	3241.9
42.5°	20222.5	17064.2	6762.5	5294.8	4300.9	3734.2	3390.5	3167.6	2972.5	2823.9	2833.2
45°	20538.3	17027.0	6344.5	5155.5	4124.4	3483.4	3139.7	2926.1	2712.4	2554.5	2535.9
47.5°	20547.6	16664.7	5768.6	4821.1	3827.1	3195.5	2907.5	2675.3	2498.8	2387.3	2378.0
50°	20621.9	16460.4	5229.8	4338.0	3437.0	2888.9	2703.1	2470.9	2368.7	2210.8	2164.4
52.5°	21086.3	16794.8	4858.2	3808.5	3074.7	2666.0	2526.6	2322.3	2155.1	2052.9	2043.6
55°	21838.8	17370.7	4653.9	3409.1	2731.0	2452.3	2359.4	2182.9	2034.3	1932.1	1904.3
57.5°	21931.7	17667.9	4412.3	3037.5	2452.3	2285.1	2248.0	2052.9	1839.2	1764.9	1737.1
60°	*20631.2*	*17166.3*	*4115.1*	*2693.9*	*2248.0*	*2155.1*	*2136.5*	*1876.4*	*1699.9*	*1607.0*	*1569.9*
62.5°	18857.0	15912.3	3659.9	2378.0	2090.1	2025.0	1950.7	1746.4	1523.4	1421.2	1393.4
65°	15410.7	13376.4	3111.9	2164.4	1932.1	1857.8	1839.2	1560.6	1411.9	1356.2	1346.9
67.5°	11676.4	10747.5	2740.3	2006.5	1764.9	1737.1	1672.0	1579.2	1514.1	1449.1	1430.5
70°	8258.0	7756.4	2331.6	1802.1	1597.7	1551.3	1820.7	1718.5	1486.3	1402.7	1393.4
72.5°	5006.8	4867.5	2015.7	1616.3	1374.8	1449.1	1681.3	1551.3	1337.6	1235.5	1198.3
75°	3158.3	2888.9	1690.6	1374.8	1096.1	1179.7	1467.7	1384.1	1151.9	1049.7	1021.8
77.5°	1718.5	1597.7	1272.6	1124.0	863.9	956.8	1281.9	1142.6	919.6	1003.2	891.8
80°	752.4	836.0	845.3	650.2	575.9	706.0	919.6	891.8	706.0	715.3	594.5
82.5°	362.3	473.7	548.1	445.9	325.1	418.0	613.1	510.9	473.7	445.9	427.3
85°	111.5	176.5	241.5	213.7	148.6	176.5	288.0	278.7	334.4	288.0	269.4
87.5°	37.2	37.2	27.9	27.9	27.9	37.2	46.4	27.9	9.3	9.3	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°	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	6418.8	6428.1	6428.1	6437.4	6437.4	6465.2	6502.4	6539.6	6511.7	6548.8	6558.1
5°	5972.9	6019.4	6056.5	6195.9	6307.3	6400.2	6502.4	6595.3	6623.2	6641.7	6688.2
7.5°	4923.2	5053.3	5294.8	5610.6	5963.6	6307.3	6539.6	6781.1	6818.2	6864.7	6929.7
10°	4189.4	4245.1	4412.3	4737.5	5369.1	6047.2	6613.9	6994.7	7152.6	7245.5	7310.6
12.5°	4310.2	4273.0	4245.1	4291.6	4700.3	5573.5	6567.4	7301.3	7598.5	7700.7	7784.3
15°	4598.1	4561.0	4458.8	4328.7	4375.2	5071.9	6409.5	7589.2	8063.0	8230.2	8406.7
17.5°	4765.3	4728.2	4644.6	4505.2	4384.5	4653.9	6112.3	7849.3	8796.8	9001.2	9252.0
20°	4858.2	4821.1	4737.5	4598.1	4458.8	4495.9	5731.4	8174.4	9632.8	9958.0	10329.5
22.5°	4876.8	4830.4	4737.5	4598.1	4514.5	4486.7	5369.1	8369.5	10533.9	11035.5	11462.8
25°	4867.5	4783.9	4663.1	4561.0	4514.5	4505.2	5118.3	8481.0	11509.2	12308.1	12791.1
27.5°	4802.5	4700.3	4579.5	4505.2	4486.7	4542.4	5006.8	8611.0	12651.8	13673.6	14444.6
30°	4728.2	4579.5	4430.9	4403.1	4449.5	4626.0	5099.7	8657.5	13850.1	15159.9	15949.5
32.5°	4533.1	4421.6	4273.0	4263.7	4375.2	4691.0	5313.4	8592.5	14909.1	16646.1	17640.1
35°	4254.4	4189.4	4105.8	4133.7	4310.2	4746.8	5462.0	8388.1	15875.1	18030.2	19191.4
37.5°	3762.1	3808.5	3855.0	3920.0	4143.0	4737.5	5527.0	8063.0	16674.0	19135.6	20621.9
40°	3214.0	3372.0	3520.6	3687.8	3985.0	4663.1	5545.6	7663.5	17138.5	19971.7	21894.5
42.5°	2870.3	3019.0	3204.8	3446.3	3771.4	4495.9	5527.0	7217.7	17287.1	20547.6	22702.7
45°	2554.5	2731.0	2963.2	3214.0	3585.6	4254.4	5359.8	6734.6	17361.4	20817.0	23046.4
47.5°	2387.3	2489.5	2703.1	2953.9	3344.1	3957.2	5034.7	6381.6	17249.9	20872.7	23464.4
50°	2192.2	2331.6	2470.9	2712.4	3093.3	3585.6	4644.6	6177.3	17435.7	21420.8	24123.9
52.5°	2043.6	2117.9	2266.6	2489.5	2768.2	3241.9	4273.0	6010.1	17946.6	21978.1	24811.3
55°	1932.1	2015.7	2108.6	2294.4	2508.1	2898.2	3892.1	5759.3	18541.1	22572.6	25498.7
57.5°	1755.6	1811.4	1941.4	2136.5	2275.8	2563.8	3446.3	5462.0	18494.7	22108.2	24309.7
60°	*1597.7*	*1653.5*	*1792.8*	*1987.9*	*2071.5*	*2266.6*	*3009.7*	*5081.2*	*17602.9*	*20594.0*	*22117.4*
62.5°	1421.2	1486.3	1653.5	1792.8	1867.1	2015.7	2554.5	4384.5	15745.1	18318.2	19553.6
65°	1346.9	1384.1	1495.6	1662.8	1653.5	1792.8	2155.1	3446.3	12670.4	13998.7	15122.7
67.5°	1430.5	1486.3	1467.7	1514.1	1486.3	1560.6	1932.1	2768.2	9958.0	10543.2	11193.4
70°	1411.9	1542.0	1607.0	1514.1	1300.5	1384.1	1672.0	2210.8	7124.8	7069.0	7041.2
72.5°	1235.5	1365.5	1551.3	1644.2	1272.6	1151.9	1449.1	1913.6	4570.3	4551.7	4115.1
75°	1049.7	1142.6	1365.5	1486.3	1096.1	928.9	1244.7	1625.6	2731.0	2768.2	2470.9
77.5°	966.1	919.6	1142.6	1309.8	891.8	715.3	1003.2	1226.2	1504.8	1523.4	1411.9
80°	696.7	668.8	854.6	956.8	678.1	510.9	566.6	761.7	808.2	724.6	752.4
82.5°	445.9	455.2	510.9	613.1	418.0	278.7	390.1	510.9	436.6	353.0	418.0
85°	288.0	325.1	269.4	315.8	130.0	130.0	167.2	222.9	148.6	102.2	111.5
87.5°	0.0	0.0	18.6	37.2	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: P1501608
CATALOG NUMBER: GSS-SB5D-850-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	6558.1	6558.1	*6558.1*	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	6586.0	6576.7	*6576.7*	6595.3	6641.7	6660.3	6688.2	6678.9	6706.8	6688.2
5°	6716.0	6725.3	*6753.2*	6762.5	6790.4	6827.5	6836.8	6827.5	6846.1	6846.1
7.5°	6976.1	7013.3	*6994.7*	7041.2	7004.0	6957.6	6883.3	6827.5	6781.1	6799.7
10°	7412.7	7394.2	*7384.9*	7301.3	7134.1	6892.5	6697.5	6483.8	6446.7	6409.5
12.5°	7895.8	7877.2	*7877.2*	7589.2	7115.5	6613.9	6168.0	5833.6	5722.1	5712.8
15°	8573.9	8453.1	*8341.6*	7737.9	6790.4	5935.8	5415.6	5155.5	5090.4	5090.4
17.5°	9419.2	9103.4	*8917.6*	7626.4	6260.9	5489.9	5183.3	5118.3	5099.7	5146.2
20°	10468.9	9670.0	*9400.6*	7375.6	6065.8	5545.6	5397.0	5406.3	5415.6	5480.6
22.5°	11620.7	10190.2	*9744.3*	7375.6	6260.9	5898.6	5824.3	5926.5	5954.3	6010.1
25°	12902.6	10654.6	*10050.9*	7765.7	6836.8	6567.4	6474.5	6576.7	6651.0	6743.9
27.5°	14342.4	11137.7	*10580.3*	8471.7	7579.9	7412.7	7310.6	7357.0	7459.2	7570.6
30°	15633.6	11945.8	*11388.5*	9549.2	8592.5	8388.1	8211.6	8285.9	8397.4	8471.7
32.5°	16776.2	12930.5	*12456.7*	10682.5	9753.6	9400.6	9205.5	9187.0	9409.9	9354.2
35°	17825.9	14091.6	*13636.5*	11973.7	10933.3	10496.7	10236.6	10571.0	10422.4	10478.2
37.5°	18652.6	15299.2	*14936.9*	13209.2	12159.5	11565.0	11407.1	11815.8	12048.0	12113.0
40°	19330.7	16348.9	*15968.0*	14435.3	13283.5	12846.9	13097.7	13775.8	13747.9	13720.1
42.5°	19850.9	17249.9	*16831.9*	15364.2	14361.0	14444.6	14639.7	15094.9	15206.3	15048.4
45°	20083.1	17816.6	*17482.2*	16098.1	15587.2	16070.2	16153.8	16348.9	16274.6	16172.4
47.5°	20352.5	18318.2	*17965.2*	16766.9	16915.5	17389.3	17222.1	17064.2	16794.8	16636.9
50°	20807.7	18912.7	*18615.4*	17742.3	18281.0	18123.1	17472.9	17119.9	16571.8	16386.0
52.5°	21671.6	20036.7	*19813.7*	19284.3	18922.0	18011.6	17222.1	16590.4	15977.3	15726.5
55°	22442.6	21560.1	*21430.0*	20724.1	18726.9	17426.4	16367.5	15392.1	14342.4	14128.8
57.5°	22888.4	24086.7	*24235.4*	21337.2	17835.2	16098.1	14537.5	12976.9	11983.0	11806.5
60°	*21560.1*	*26817.7*	*26892.1*	*21216.4*	*16228.1*	*13701.5*	*11323.5*	*10218.1*	*9149.8*	*8843.3*
62.5°	19730.1	26251.1	*26186.1*	20491.8	12921.2	9995.1	8601.7	8081.6	7254.8	7004.0
65°	16962.0	21866.6	*21941.0*	17705.1	8592.5	7227.0	7227.0	6567.4	5647.8	5471.3
67.5°	13822.2	16859.8	*16692.6*	11481.4	5276.2	5787.1	6065.8	5118.3	3827.1	3613.5
70°	8982.6	12874.7	*12642.5*	6623.2	3316.2	4821.1	4774.6	3845.7	2740.3	2591.7
72.5°	3864.3	7440.6	*7914.3*	3381.2	2498.8	3882.9	3808.5	2693.9	1830.0	1764.9
75°	2331.6	3743.5	*4077.9*	2155.1	1820.7	2926.1	2638.1	1709.2	1244.7	1198.3
77.5°	1477.0	2052.9	*2034.3*	1616.3	1365.5	1978.6	1774.2	1179.7	845.3	808.2
80°	854.6	1012.5	*1049.7*	1012.5	919.6	1411.9	1133.3	854.6	659.5	613.1
82.5°	548.1	631.7	*641.0*	492.3	510.9	910.3	613.1	501.6	380.9	343.7
85°	241.5	269.4	*260.1*	167.2	167.2	371.6	213.7	204.4	148.6	148.6
87.5°	9.3	18.6	*9.3*	9.3	9.3	37.2	18.6	27.9	27.9	27.9
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

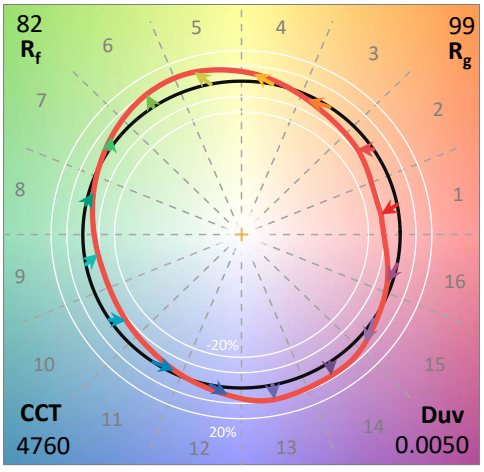
Test Information

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

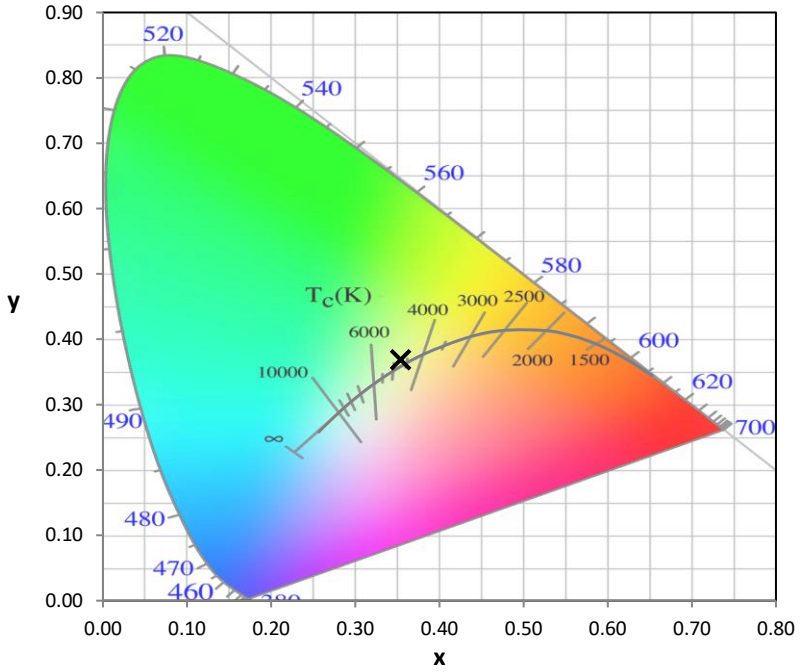
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

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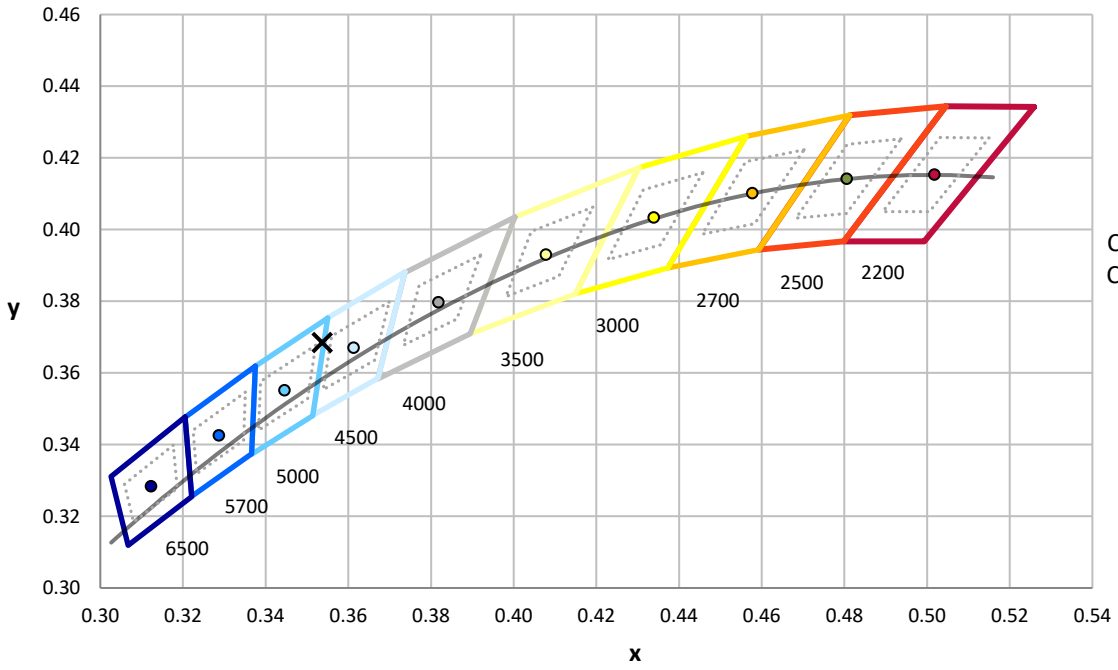
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

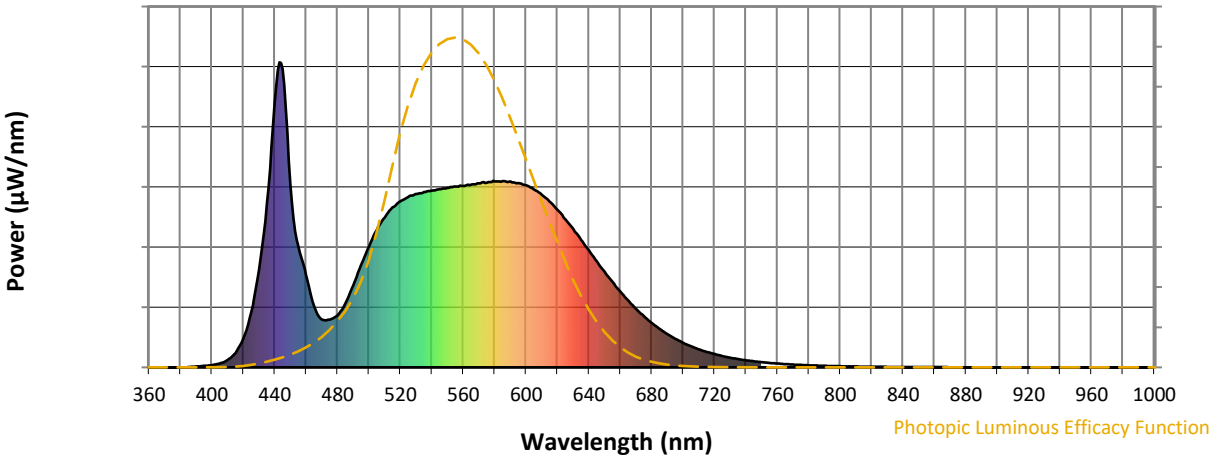


CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

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Photopic Flux vs. Wavelength

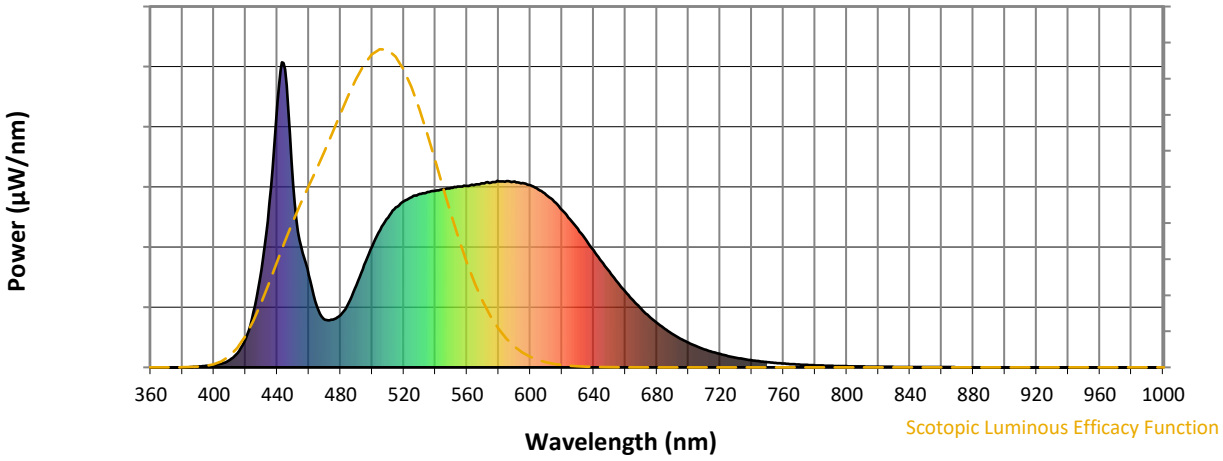


Photopic Lumens: NR

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	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			

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Scotopic Flux vs. Wavelength

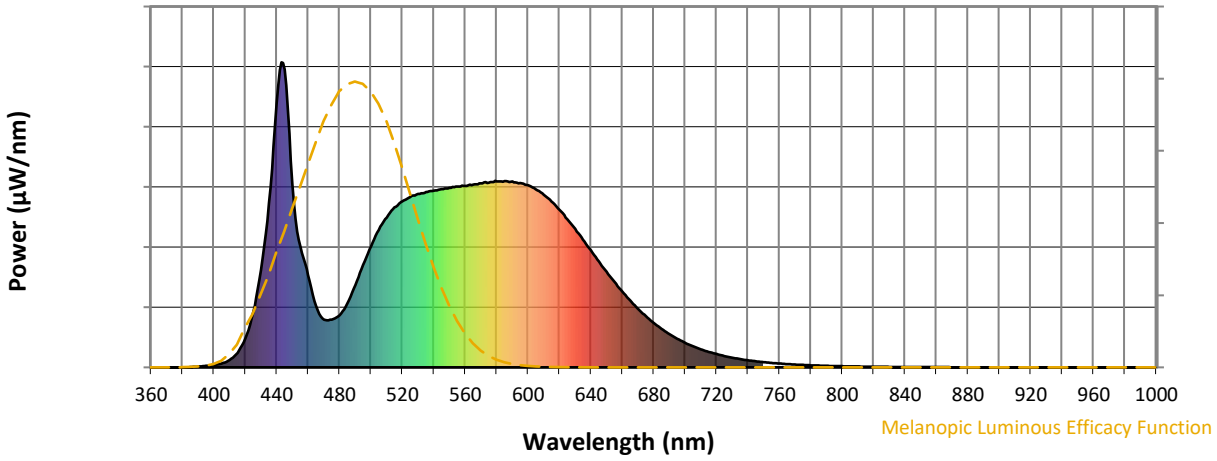


Scotopic Lumens: NR **S/P: 1.83**

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			

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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			

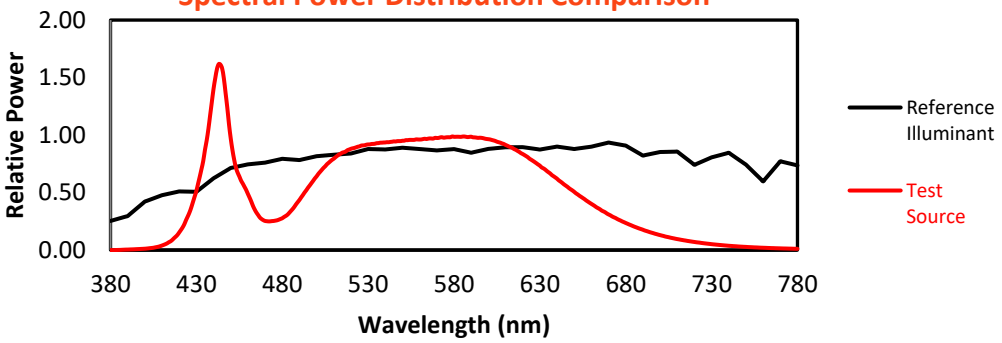
REPORT NUMBER: SP1-2407-184-12

TM-30-18

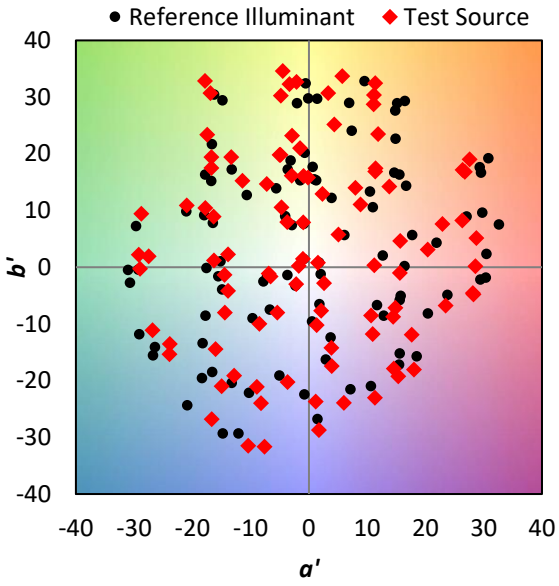
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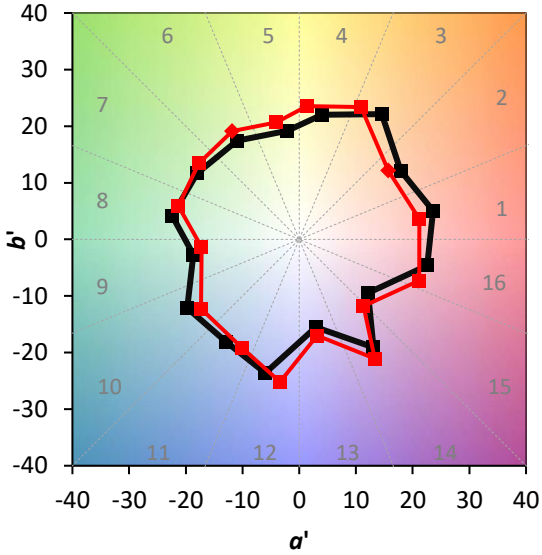
R_f = 82
R_g = 99.4
CIE R_a = 81.1
R_9 = 8.7

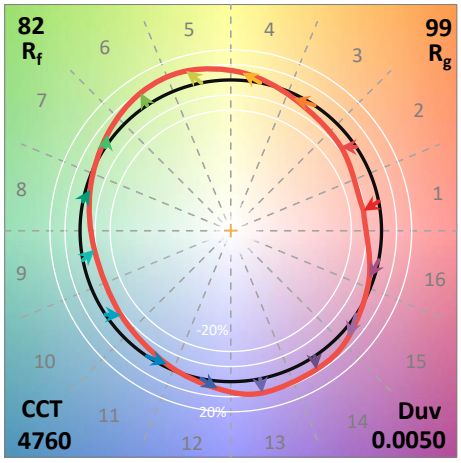
Spectral Power Distribution Comparison

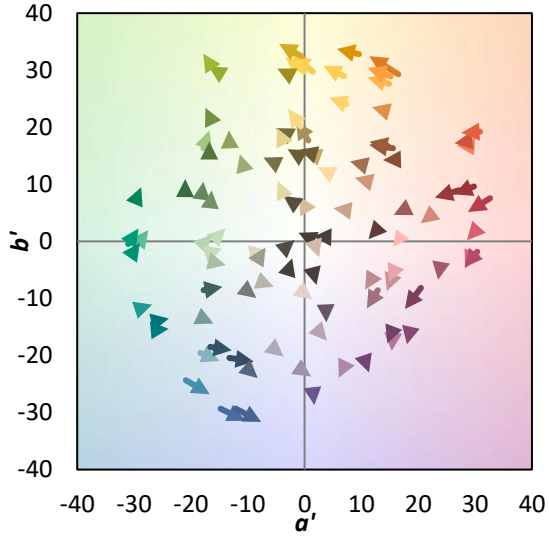


Color Vector Graphics







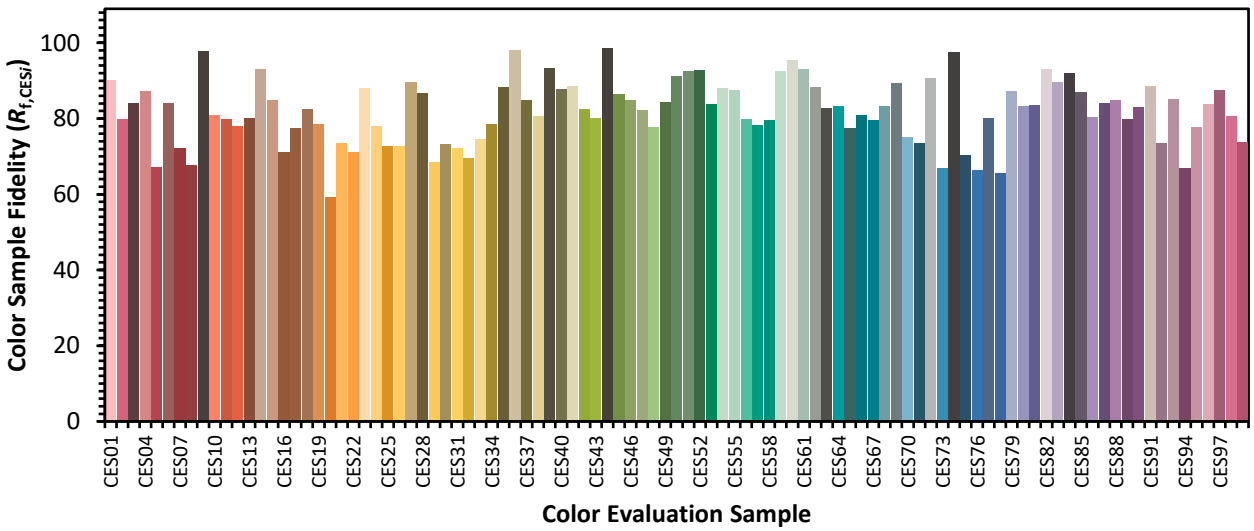


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Individual Sample Fidelity Index ($R_{f,i}$)

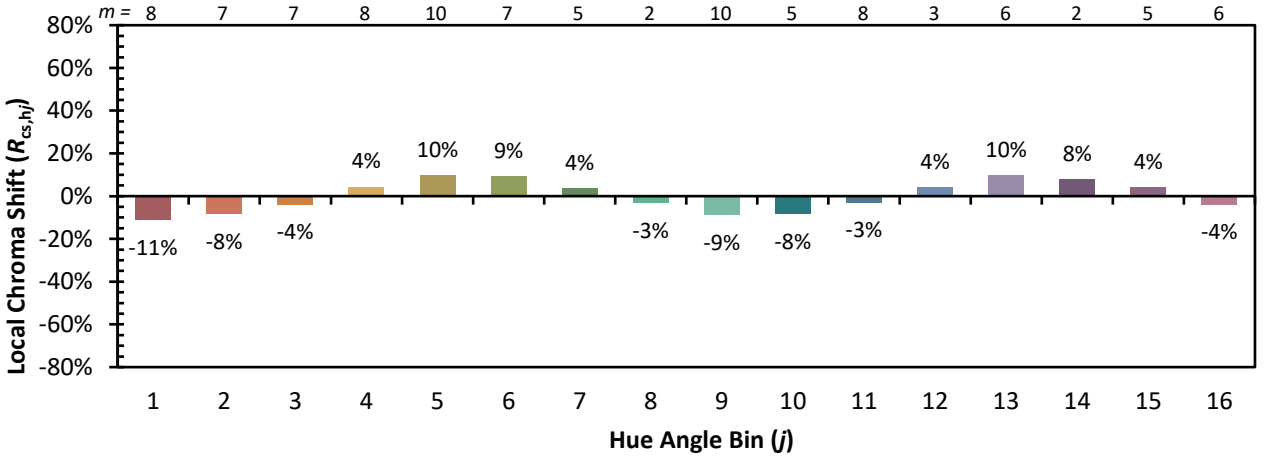
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 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	

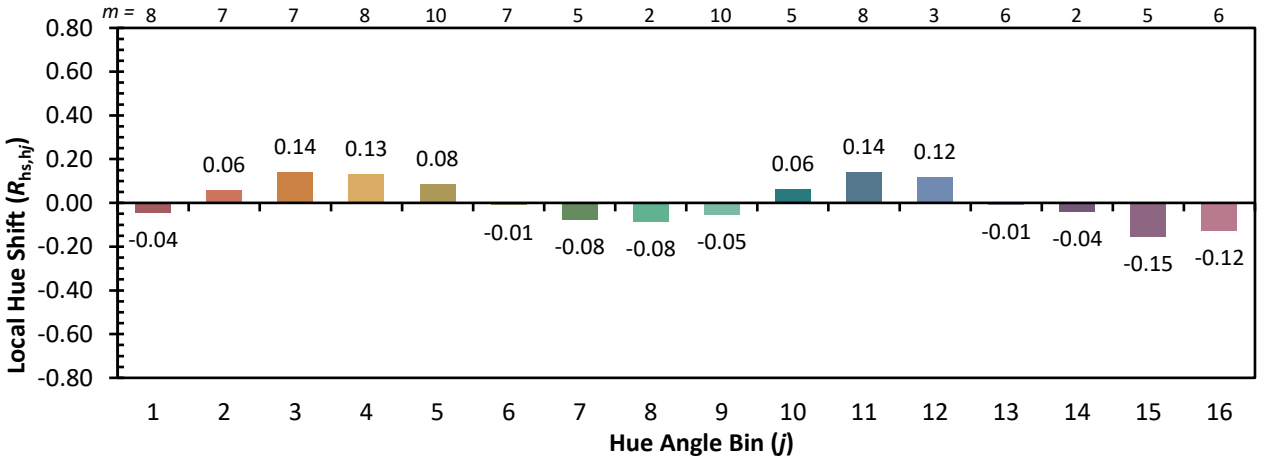


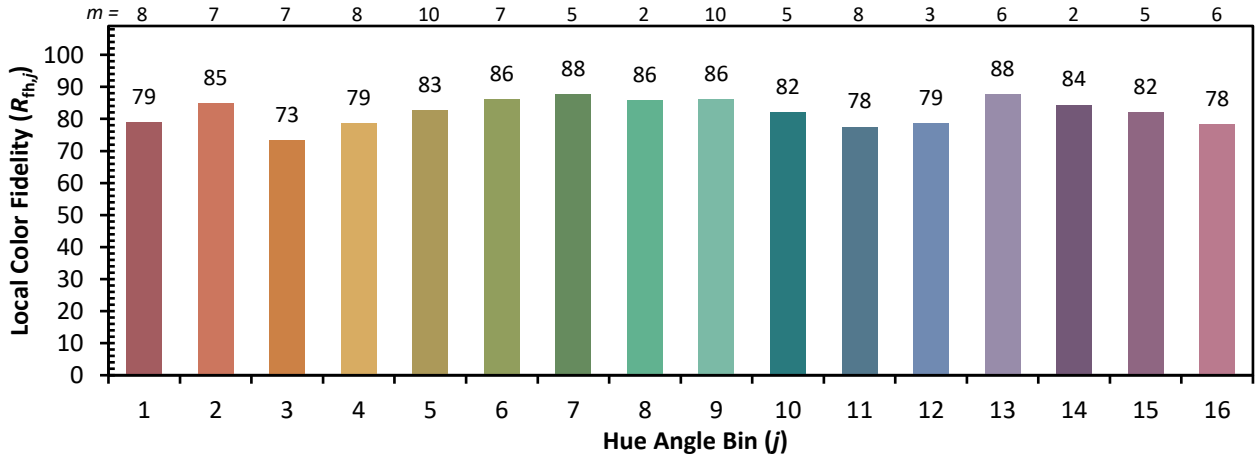
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Color Rendition by Hue-Angle Bin



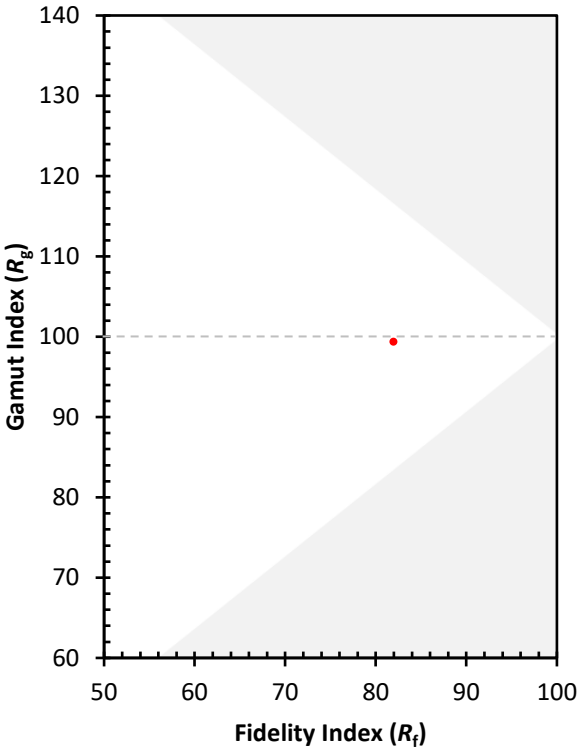


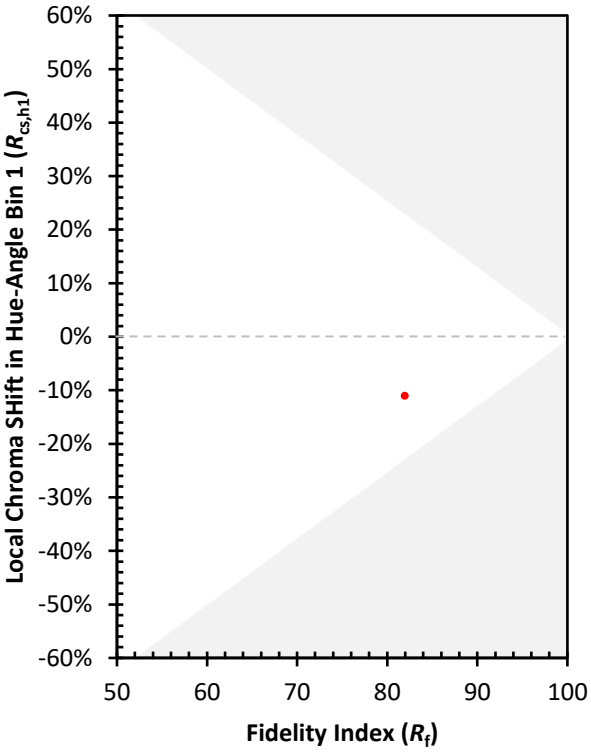


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Measure Comparisons





(END OF REPORT)