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: P1501580

Luminaire Tested: GSS-SB4D-840-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:	P1501580
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4D-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30522.3 lumens
Efficiency:	N/A
Efficacy:	128.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

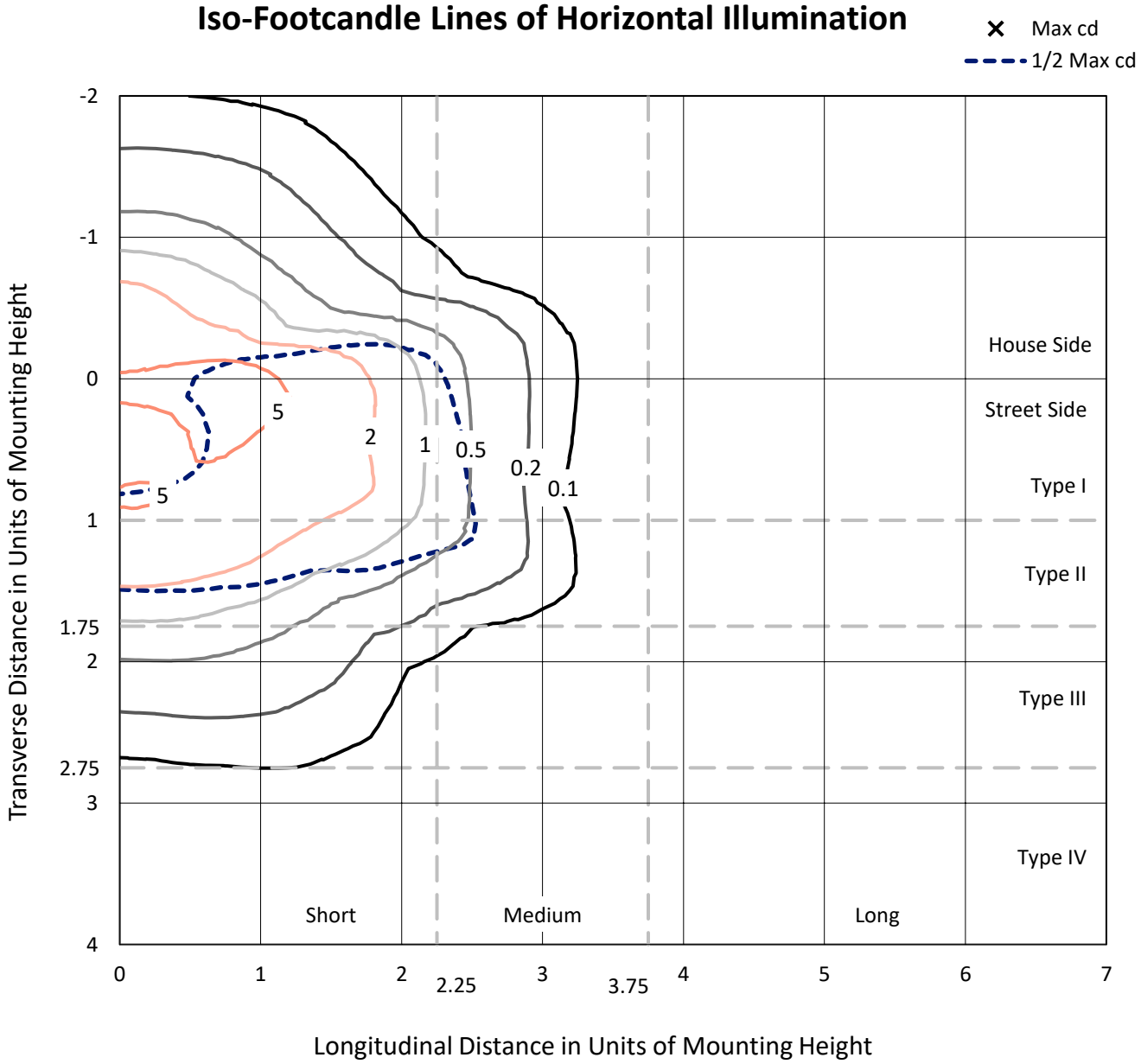
Input Watts (W):	238
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



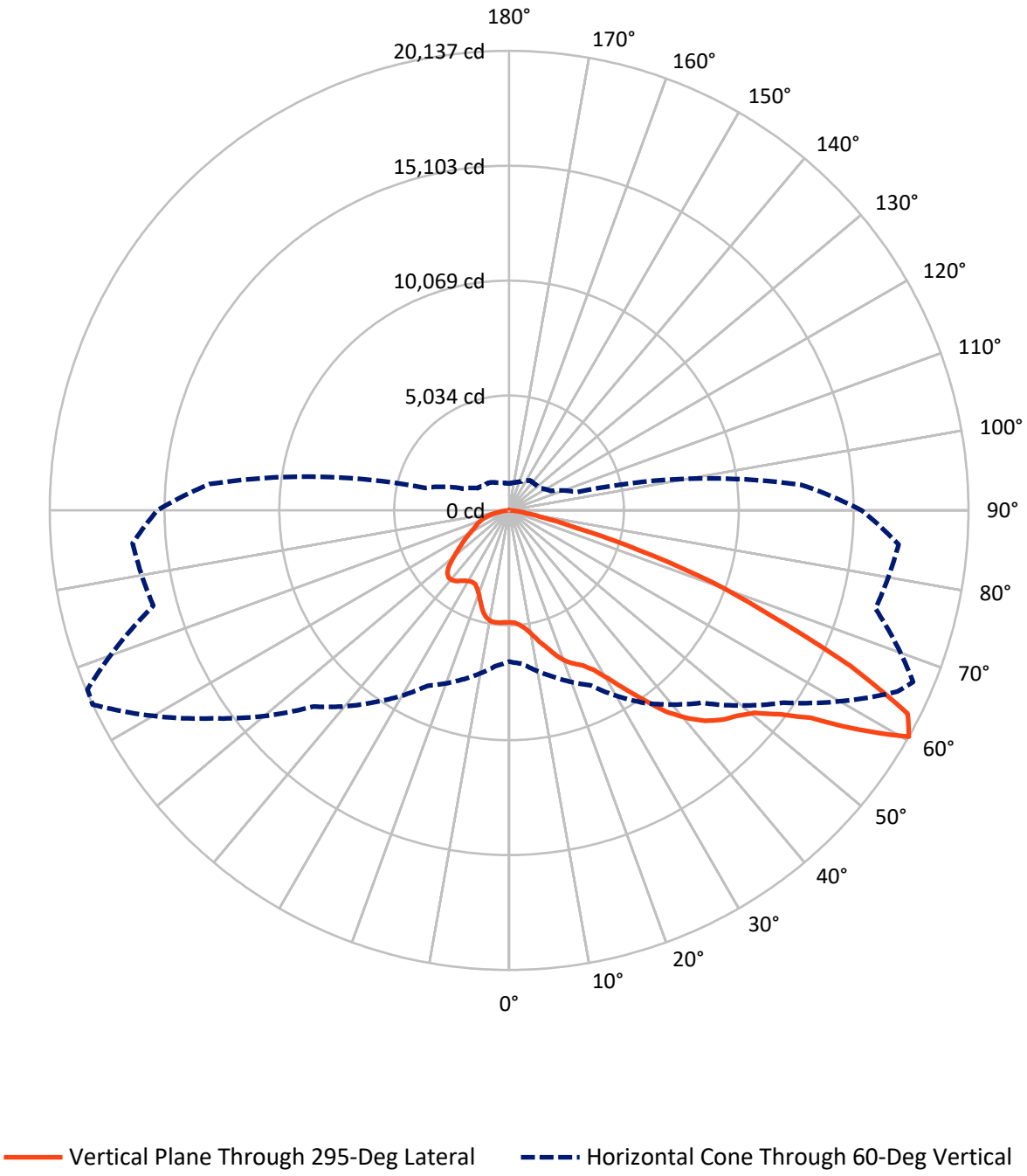
Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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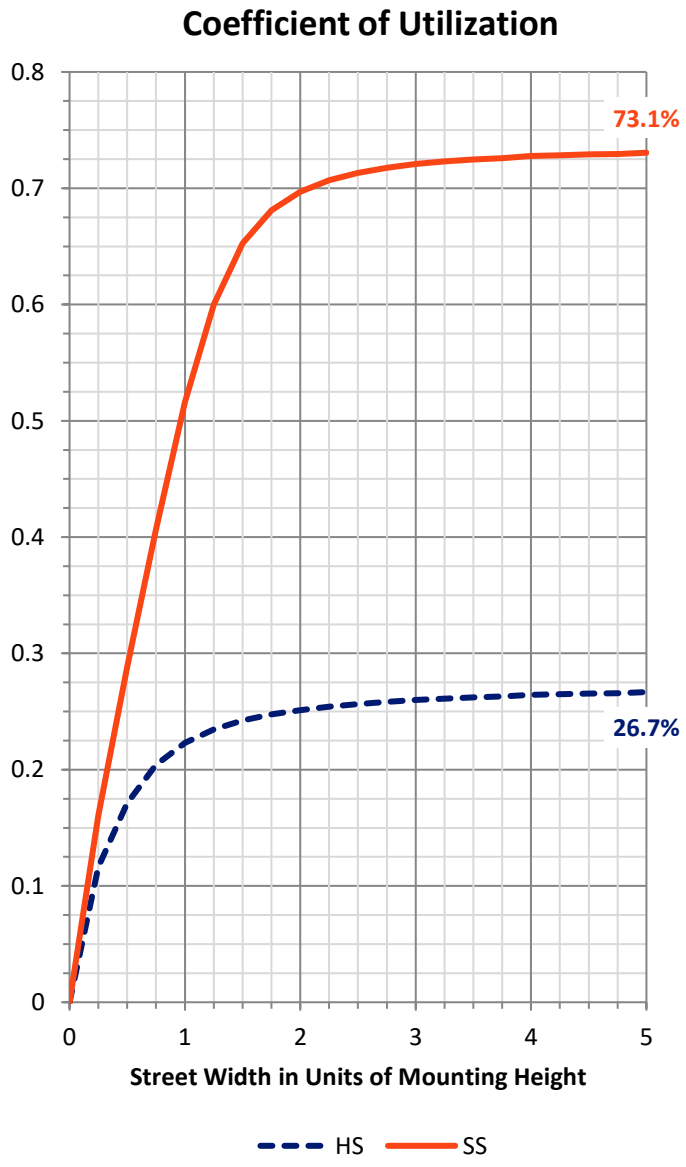
REPORT NUMBER: P1501580
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8207.8	0.0	8207.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22314.5	0.0	22314.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	30522.3	0.0	30522.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	1.5
10°-20°	1327.3	4.3
20°-30°	2514.2	8.2
30°-40°	4432.4	14.5
40°-50°	6555.1	21.5
50°-60°	7697.5	25.2
60°-70°	5577.2	18.3
70°-80°	1719.9	5.6
80°-90°	236.8	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°	30522.3	100.0
0°-180°	30522.3	100.0



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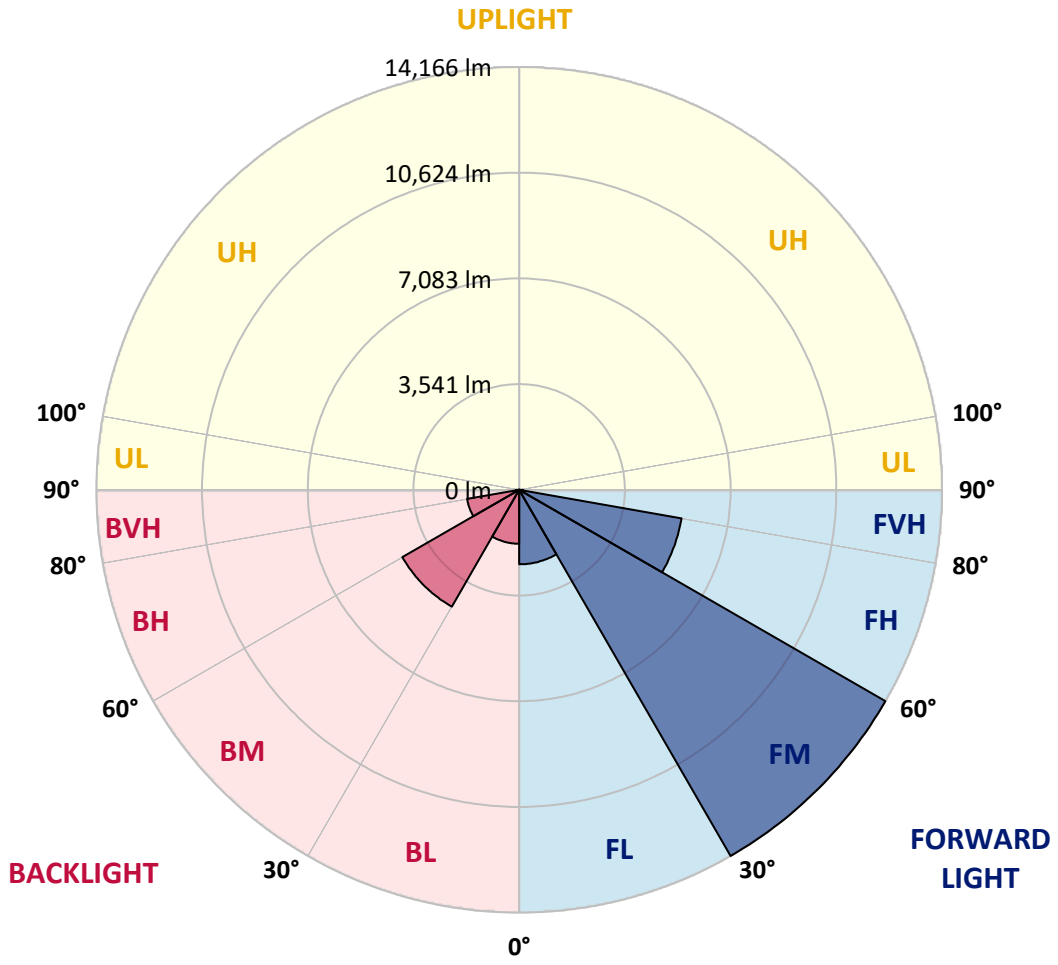
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2495.7	8.2			
FM	(30°-60°)	14165.6	46.4			
FH	(60°-80°)	5525.5	18.1			G3/7500
FVH	(80°-90°)	127.7	0.4			G2/225
BL	(0°-30°)	1807.6	5.9	B3/2500		
BM	(30°-60°)	4519.5	14.8	B3/5000		
BH	(60°-80°)	1771.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	109.1	0.4			G2/225
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°	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	5008.3	5022.2	5001.3	5015.2	5015.2	4994.4	4987.4	4959.6	4973.5	4966.5	4959.6
5°	5126.5	5133.5	5119.6	5140.4	5140.4	5147.4	5140.4	5105.7	5105.7	5105.7	5091.7
7.5°	5091.7	5091.7	5098.7	5168.3	5237.8	5328.2	5328.2	5314.3	5328.2	5321.3	5258.7
10°	4799.6	4827.4	4890.0	5063.9	5230.9	5425.6	5557.8	5599.5	5599.5	5606.5	5502.1
12.5°	4277.9	4298.8	4444.8	4709.2	5057.0	5411.7	5731.7	5940.4	5961.2	5996.0	5856.9
15°	3811.9	3825.8	3930.1	4201.4	4597.9	5223.9	5829.1	6260.3	6329.9	6476.0	6267.3
17.5°	3853.6	3846.6	3874.5	3978.8	4264.0	4917.8	5808.2	6636.0	6761.2	7018.5	6837.7
20°	4104.0	4104.0	4124.9	4145.7	4250.1	4695.3	5655.2	6942.0	7185.5	7686.3	7477.6
22.5°	4500.5	4500.5	4493.5	4528.3	4528.3	4792.6	5662.1	7171.6	7533.3	8430.6	8228.9
25°	5050.0	5022.2	5022.2	5036.1	4973.5	5161.3	5836.0	7408.1	7881.1	9314.0	9140.1
27.5°	5669.1	5690.0	5676.0	5627.4	5543.9	5690.0	6253.4	7776.7	8270.6	10246.1	10176.5
30°	6343.8	6350.8	6364.7	6336.9	6267.3	6371.6	6907.2	8333.2	8785.3	11219.9	11373.0
32.5°	7004.6	7102.0	7067.2	6997.7	7025.5	7213.3	7714.1	9084.4	9550.5	12124.2	12666.8
35°	7846.3	7881.1	8020.2	7762.8	7769.8	8089.8	8743.6	10072.2	10524.3	13063.2	13960.6
37.5°	9070.5	9133.1	9070.5	8667.1	8604.5	9049.7	9745.3	11046.0	11373.0	13772.7	15163.9
40°	10273.9	10350.4	10454.8	9981.8	9585.3	9953.9	10691.3	11790.3	12131.1	14162.3	15963.9
42.5°	11268.6	11393.8	11282.5	11143.4	10781.7	10851.3	11352.1	12367.7	12708.5	14656.2	16770.8
45°	12110.3	12131.1	12179.8	12082.5	11901.6	11839.0	11915.5	12875.4	13251.1	14878.7	17167.2
47.5°	12458.1	12548.5	12590.2	12757.2	12945.0	12819.8	12395.5	13111.9	13452.8	14864.8	17292.5
50°	12270.3	12360.7	12583.3	12979.8	13431.9	13654.5	12958.9	13438.9	13821.4	15115.2	17549.8
52.5°	11776.4	11873.8	12235.5	12687.6	13445.8	13953.6	13751.9	14120.5	14489.2	15560.4	17981.1
55°	10580.0	10726.1	11233.8	11985.1	13028.5	13793.6	14586.6	15122.2	15525.6	16096.0	18426.3
57.5°	8841.0	8994.0	9564.4	10691.3	12256.4	13132.8	14830.1	17000.3	17181.2	16736.0	18468.0
60°	*6622.0*	*6747.3*	*7554.1*	*8458.4*	*10294.8*	*11922.5*	*14690.9*	*18781.0*	*19240.1*	*16624.7*	*17139.4*
62.5°	5244.8	5397.8	6114.3	6531.6	7846.3	9849.6	14204.0	19274.9	19671.4	15706.5	15289.1
65°	4097.0	4201.4	4869.2	5467.4	5787.3	6726.4	12172.9	16861.2	17215.9	14211.0	12618.1
67.5°	2705.9	2865.8	3658.8	4479.6	4646.6	4277.9	8374.9	12972.8	13139.8	11296.4	9487.9
70°	1940.7	2017.2	2608.5	3484.9	3735.3	2865.8	4563.1	9821.8	9870.5	7582.0	6392.5
72.5°	1321.6	1335.5	1773.8	2671.1	2977.1	2079.8	2511.1	6469.0	6302.1	3742.3	3658.8
75°	897.3	911.2	1133.8	1780.7	2107.6	1446.8	1634.6	3526.7	3387.5	2065.9	2218.9
77.5°	605.2	619.1	779.1	1196.4	1405.1	1001.7	1196.4	1864.2	1829.4	1370.3	1189.5
80°	459.1	480.0	577.3	765.2	980.8	584.3	681.7	883.4	897.3	730.4	605.2
82.5°	257.4	285.2	347.8	389.5	633.0	326.9	326.9	528.7	507.8	452.1	326.9
85°	111.3	118.3	139.1	146.1	257.4	139.1	118.3	229.5	236.5	222.6	104.3
87.5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	27.8	27.8	27.8	27.8
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°	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	4924.8	4966.5	4924.8	4903.9	4903.9	4869.2	4855.2	4855.2	4806.6	4827.4	4813.5
5°	5036.1	5050.0	5001.3	4938.7	4855.2	4785.7	4688.3	4563.1	4486.6	4479.6	4486.6
7.5°	5210.0	5217.0	5084.8	4945.7	4737.0	4486.6	4187.5	3944.0	3728.4	3693.6	3735.3
10°	5453.5	5439.5	5244.8	4917.8	4479.6	3951.0	3491.9	3269.3	3144.1	3137.1	3130.2
12.5°	5780.4	5690.0	5390.8	4799.6	4034.4	3422.3	3185.8	3171.9	3206.7	3234.5	3241.5
15°	6156.0	6037.8	5509.1	4570.0	3582.3	3227.6	3241.5	3359.7	3401.5	3429.3	3429.3
17.5°	6622.0	6469.0	5641.3	4243.1	3352.8	3269.3	3366.7	3478.0	3547.5	3575.4	3568.4
20°	7241.1	6921.2	5745.6	3930.1	3290.2	3338.8	3422.3	3533.6	3603.2	3638.0	3638.0
22.5°	7860.2	7463.7	5766.5	3714.5	3290.2	3345.8	3422.3	3533.6	3610.1	3644.9	3638.0
25°	8701.9	8159.3	5773.4	3561.4	3297.1	3311.0	3380.6	3478.0	3589.3	3624.0	3638.0
27.5°	9599.2	8924.5	5808.2	3526.7	3269.3	3262.3	3311.0	3401.5	3512.7	3603.2	3610.1
30°	10712.1	9787.0	5822.1	3561.4	3276.2	3185.8	3220.6	3311.0	3429.3	3519.7	3547.5
32.5°	11804.2	10586.9	5794.3	3638.0	3290.2	3137.1	3144.1	3199.7	3324.9	3387.5	3436.2
35°	12958.9	11435.6	5745.6	3742.3	3297.1	3116.3	3053.7	3081.5	3164.9	3171.9	3192.8
37.5°	13863.2	12068.5	5599.5	3881.4	3311.0	3039.7	2914.5	2893.7	2858.9	2789.3	2803.2
40°	14607.5	12492.9	5356.1	3951.0	3276.2	2949.3	2740.6	2643.3	2511.1	2406.8	2427.6
42.5°	15143.1	12778.1	5063.9	3964.9	3220.6	2796.3	2538.9	2372.0	2225.9	2114.6	2121.6
45°	15379.6	12750.2	4750.9	3860.5	3088.4	2608.5	2351.1	2191.1	2031.1	1912.9	1899.0
47.5°	15386.5	12478.9	4319.6	3610.1	2865.8	2392.8	2177.2	2003.3	1871.1	1787.7	1780.7
50°	15442.2	12325.9	3916.2	3248.4	2573.7	2163.3	2024.2	1850.3	1773.8	1655.5	1620.7
52.5°	15790.0	12576.3	3638.0	2851.9	2302.4	1996.4	1892.0	1739.0	1613.8	1537.3	1530.3
55°	16353.4	13007.6	3484.9	2552.8	2045.0	1836.4	1766.8	1634.6	1523.3	1446.8	1426.0
57.5°	16423.0	13230.2	3304.1	2274.6	1836.4	1711.2	1683.3	1537.3	1377.3	1321.6	1300.8
60°	*15449.1*	*12854.6*	*3081.5*	*2017.2*	*1683.3*	*1613.8*	*1599.9*	*1405.1*	*1272.9*	*1203.4*	*1175.6*
62.5°	14120.5	11915.5	2740.6	1780.7	1565.1	1516.4	1460.7	1307.7	1140.8	1064.3	1043.4
65°	11539.9	10016.5	2330.2	1620.7	1446.8	1391.2	1377.3	1168.6	1057.3	1015.6	1008.6
67.5°	8743.6	8048.0	2052.0	1502.5	1321.6	1300.8	1252.1	1182.5	1133.8	1085.1	1071.2
70°	6183.8	5808.2	1745.9	1349.5	1196.4	1161.6	1363.4	1286.8	1112.9	1050.3	1043.4
72.5°	3749.2	3644.9	1509.4	1210.3	1029.5	1085.1	1259.0	1161.6	1001.7	925.1	897.3
75°	2365.0	2163.3	1266.0	1029.5	820.8	883.4	1099.0	1036.4	862.5	786.0	765.2
77.5°	1286.8	1196.4	953.0	841.7	646.9	716.5	959.9	855.6	688.6	751.2	667.8
80°	563.4	626.0	633.0	486.9	431.3	528.7	688.6	667.8	528.7	535.6	445.2
82.5°	271.3	354.8	410.4	333.9	243.5	313.0	459.1	382.6	354.8	333.9	320.0
85°	83.5	132.2	180.9	160.0	111.3	132.2	215.6	208.7	250.4	215.6	201.7
87.5°	27.8	27.8	20.9	20.9	20.9	27.8	34.8	20.9	7.0	7.0	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°	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	4806.6	4813.5	4813.5	4820.5	4820.5	4841.3	4869.2	4897.0	4876.1	4903.9	4910.9
5°	4472.7	4507.4	4535.3	4639.6	4723.1	4792.6	4869.2	4938.7	4959.6	4973.5	5008.3
7.5°	3686.6	3784.0	3964.9	4201.4	4465.7	4723.1	4897.0	5077.8	5105.7	5140.4	5189.1
10°	3137.1	3178.9	3304.1	3547.5	4020.5	4528.3	4952.6	5237.8	5356.1	5425.6	5474.3
12.5°	3227.6	3199.7	3178.9	3213.6	3519.7	4173.6	4917.8	5467.4	5690.0	5766.5	5829.1
15°	3443.2	3415.4	3338.8	3241.5	3276.2	3797.9	4799.6	5683.0	6037.8	6163.0	6295.1
17.5°	3568.4	3540.6	3478.0	3373.6	3283.2	3484.9	4577.0	5877.8	6587.3	6740.3	6928.1
20°	3638.0	3610.1	3547.5	3443.2	3338.8	3366.7	4291.8	6121.2	7213.3	7456.8	7735.0
22.5°	3651.9	3617.1	3547.5	3443.2	3380.6	3359.7	4020.5	6267.3	7888.0	8263.6	8583.6
25°	3644.9	3582.3	3491.9	3415.4	3380.6	3373.6	3832.7	6350.8	8618.4	9216.6	9578.3
27.5°	3596.2	3519.7	3429.3	3373.6	3359.7	3401.5	3749.2	6448.2	9474.0	10239.1	10816.5
30°	3540.6	3429.3	3318.0	3297.1	3331.9	3464.1	3818.8	6482.9	10371.3	11352.1	11943.3
32.5°	3394.5	3311.0	3199.7	3192.8	3276.2	3512.7	3978.8	6434.2	11164.3	12465.0	13209.3
35°	3185.8	3137.1	3074.5	3095.4	3227.6	3554.5	4090.1	6281.2	11887.7	13501.5	14371.0
37.5°	2817.2	2851.9	2886.7	2935.4	3102.3	3547.5	4138.8	6037.8	12485.9	14329.2	15442.2
40°	2406.8	2525.0	2636.3	2761.5	2984.1	3491.9	4152.7	5738.6	12833.7	14955.3	16395.1
42.5°	2149.4	2260.7	2399.8	2580.7	2824.1	3366.7	4138.8	5404.8	12945.0	15386.5	17000.3
45°	1912.9	2045.0	2218.9	2406.8	2685.0	3185.8	4013.6	5043.1	13000.6	15588.2	17257.7
47.5°	1787.7	1864.2	2024.2	2212.0	2504.1	2963.2	3770.1	4778.7	12917.2	15630.0	17570.7
50°	1641.6	1745.9	1850.3	2031.1	2316.3	2685.0	3478.0	4625.7	13056.3	16040.4	18064.6
52.5°	1530.3	1586.0	1697.2	1864.2	2072.9	2427.6	3199.7	4500.5	13438.9	16457.7	18579.3
55°	1446.8	1509.4	1579.0	1718.1	1878.1	2170.3	2914.5	4312.7	13884.0	16902.9	19094.0
57.5°	1314.7	1356.4	1453.8	1599.9	1704.2	1919.8	2580.7	4090.1	13849.3	16555.1	18203.7
60°	*1196.4*	*1238.2*	*1342.5*	*1488.6*	*1551.2*	*1697.2*	*2253.7*	*3804.9*	*13181.5*	*15421.3*	*16562.1*
62.5°	1064.3	1112.9	1238.2	1342.5	1398.1	1509.4	1912.9	3283.2	11790.3	13717.1	14642.2
65°	1008.6	1036.4	1119.9	1245.1	1238.2	1342.5	1613.8	2580.7	9487.9	10482.6	11324.3
67.5°	1071.2	1112.9	1099.0	1133.8	1112.9	1168.6	1446.8	2072.9	7456.8	7895.0	8381.9
70°	1057.3	1154.7	1203.4	1133.8	973.8	1036.4	1252.1	1655.5	5335.2	5293.5	5272.6
72.5°	925.1	1022.5	1161.6	1231.2	953.0	862.5	1085.1	1432.9	3422.3	3408.4	3081.5
75°	786.0	855.6	1022.5	1112.9	820.8	695.6	932.1	1217.3	2045.0	2072.9	1850.3
77.5°	723.4	688.6	855.6	980.8	667.8	535.6	751.2	918.2	1126.9	1140.8	1057.3
80°	521.7	500.8	639.9	716.5	507.8	382.6	424.3	570.4	605.2	542.6	563.4
82.5°	333.9	340.8	382.6	459.1	313.0	208.7	292.1	382.6	326.9	264.3	313.0
85°	215.6	243.5	201.7	236.5	97.4	97.4	125.2	166.9	111.3	76.5	83.5
87.5°	0.0	0.0	13.9	27.8	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: P1501580
CATALOG NUMBER: GSS-SB4D-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4910.9	4910.9	*4910.9*	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9	4910.9
2.5°	4931.8	4924.8	*4924.8*	4938.7	4973.5	4987.4	5008.3	5001.3	5022.2	5008.3
5°	5029.1	5036.1	*5057.0*	5063.9	5084.8	5112.6	5119.6	5112.6	5126.5	5126.5
7.5°	5223.9	5251.7	*5237.8*	5272.6	5244.8	5210.0	5154.3	5112.6	5077.8	5091.7
10°	5550.8	5536.9	*5530.0*	5467.4	5342.2	5161.3	5015.2	4855.2	4827.4	4799.6
12.5°	5912.5	5898.6	*5898.6*	5683.0	5328.2	4952.6	4618.7	4368.3	4284.9	4277.9
15°	6420.3	6329.9	*6246.4*	5794.3	5084.8	4444.8	4055.3	3860.5	3811.9	3811.9
17.5°	7053.3	6816.8	*6677.7*	5710.8	4688.3	4111.0	3881.4	3832.7	3818.8	3853.6
20°	7839.3	7241.1	*7039.4*	5523.0	4542.2	4152.7	4041.4	4048.4	4055.3	4104.0
22.5°	8701.9	7630.7	*7296.8*	5523.0	4688.3	4417.0	4361.4	4437.9	4458.8	4500.5
25°	9661.8	7978.5	*7526.3*	5815.2	5119.6	4917.8	4848.3	4924.8	4980.4	5050.0
27.5°	10740.0	8340.2	*7922.8*	6343.8	5676.0	5550.8	5474.3	5509.1	5585.6	5669.1
30°	11706.8	8945.3	*8528.0*	7150.7	6434.2	6281.2	6149.0	6204.7	6288.2	6343.8
32.5°	12562.4	9682.7	*9327.9*	7999.3	7303.7	7039.4	6893.3	6879.4	7046.4	7004.6
35°	13348.4	10552.2	*10211.3*	8966.2	8187.1	7860.2	7665.4	7915.9	7804.6	7846.3
37.5°	13967.5	11456.4	*11185.1*	9891.3	9105.3	8660.1	8541.9	8847.9	9021.8	9070.5
40°	14475.3	12242.4	*11957.3*	10809.5	9947.0	9620.1	9807.9	10315.6	10294.8	10273.9
42.5°	14864.8	12917.2	*12604.2*	11505.1	10753.9	10816.5	10962.6	11303.4	11386.9	11268.6
45°	15038.7	13341.5	*13091.1*	12054.6	11672.1	12033.8	12096.4	12242.4	12186.8	12110.3
47.5°	15240.5	13717.1	*13452.8*	12555.5	12666.8	13021.5	12896.3	12778.1	12576.3	12458.1
50°	15581.3	14162.3	*13939.7*	13285.8	13689.3	13571.0	13084.1	12819.8	12409.4	12270.3
52.5°	16228.2	15003.9	*14837.0*	14440.5	14169.2	13487.6	12896.3	12423.3	11964.2	11776.4
55°	16805.5	16144.7	*16047.3*	15518.7	14023.2	13049.3	12256.4	11526.0	10740.0	10580.0
57.5°	17139.4	18036.7	*18148.0*	15977.8	13355.4	12054.6	10886.0	9717.4	8973.2	8841.0
60°	*16144.7*	*20081.8*	*20137.4*	*15887.4*	*12152.0*	*10260.0*	*8479.3*	*7651.5*	*6851.6*	*6622.0*
62.5°	14774.4	19657.5	*19608.8*	15344.8	9675.7	7484.6	6441.2	6051.7	5432.6	5244.8
65°	12701.5	16374.3	*16429.9*	13258.0	6434.2	5411.7	5411.7	4917.8	4229.2	4097.0
67.5°	10350.4	12625.0	*12499.8*	8597.5	3951.0	4333.5	4542.2	3832.7	2865.8	2705.9
70°	6726.4	9640.9	*9467.0*	4959.6	2483.3	3610.1	3575.4	2879.8	2052.0	1940.7
72.5°	2893.7	5571.7	*5926.5*	2532.0	1871.1	2907.6	2851.9	2017.2	1370.3	1321.6
75°	1745.9	2803.2	*3053.7*	1613.8	1363.4	2191.1	1975.5	1279.9	932.1	897.3
77.5°	1106.0	1537.3	*1523.3*	1210.3	1022.5	1481.6	1328.6	883.4	633.0	605.2
80°	639.9	758.2	*786.0*	758.2	688.6	1057.3	848.6	639.9	493.9	459.1
82.5°	410.4	473.0	*480.0*	368.7	382.6	681.7	459.1	375.6	285.2	257.4
85°	180.9	201.7	*194.8*	125.2	125.2	278.2	160.0	153.0	111.3	111.3
87.5°	7.0	13.9	*7.0*	7.0	7.0	27.8	13.9	20.9	20.9	20.9
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

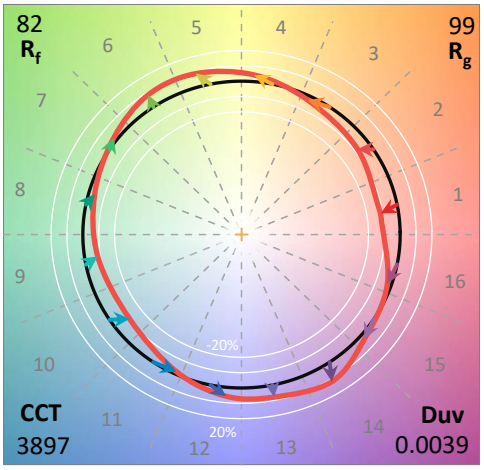
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

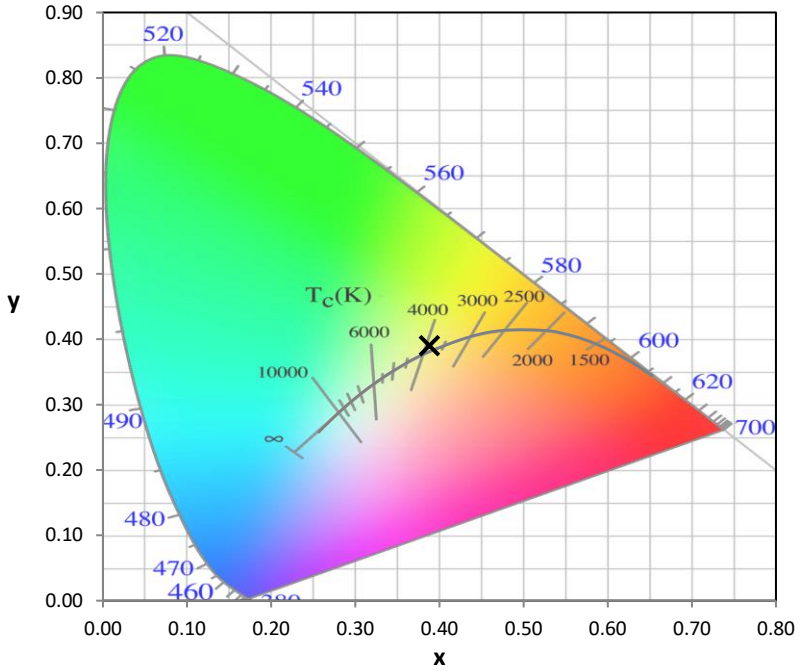
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

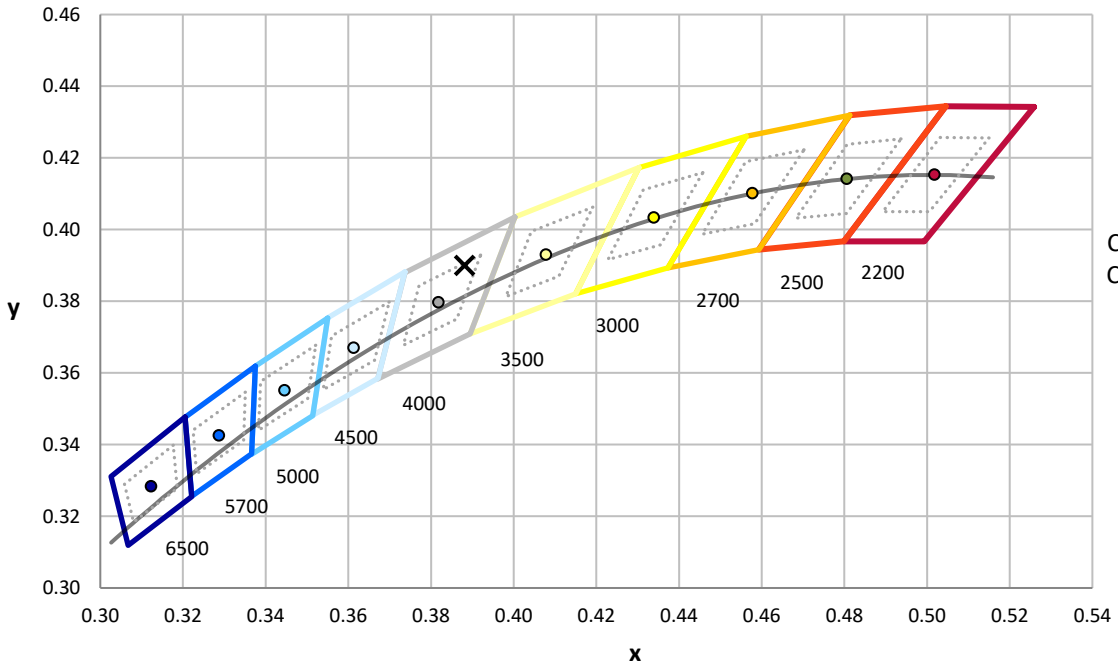
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

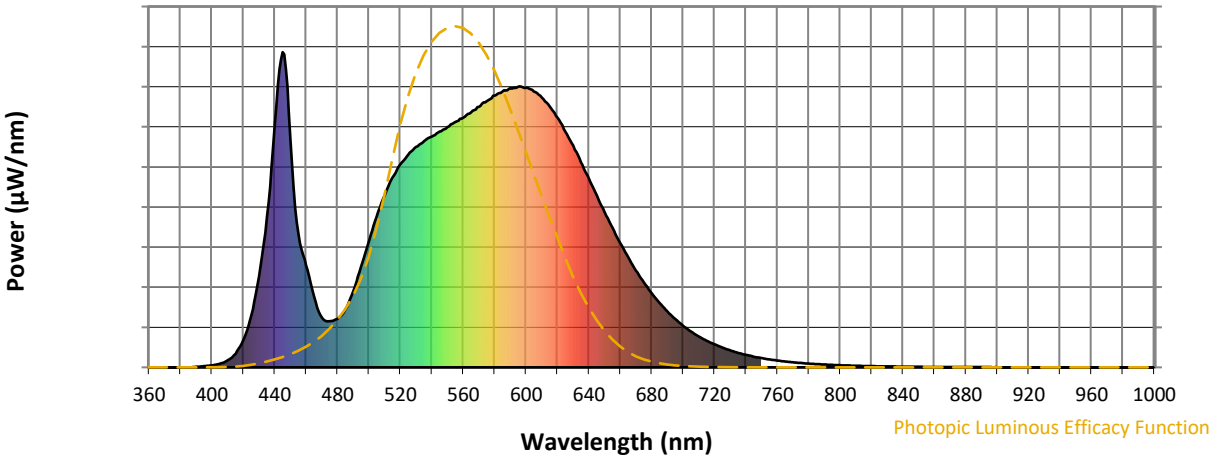


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

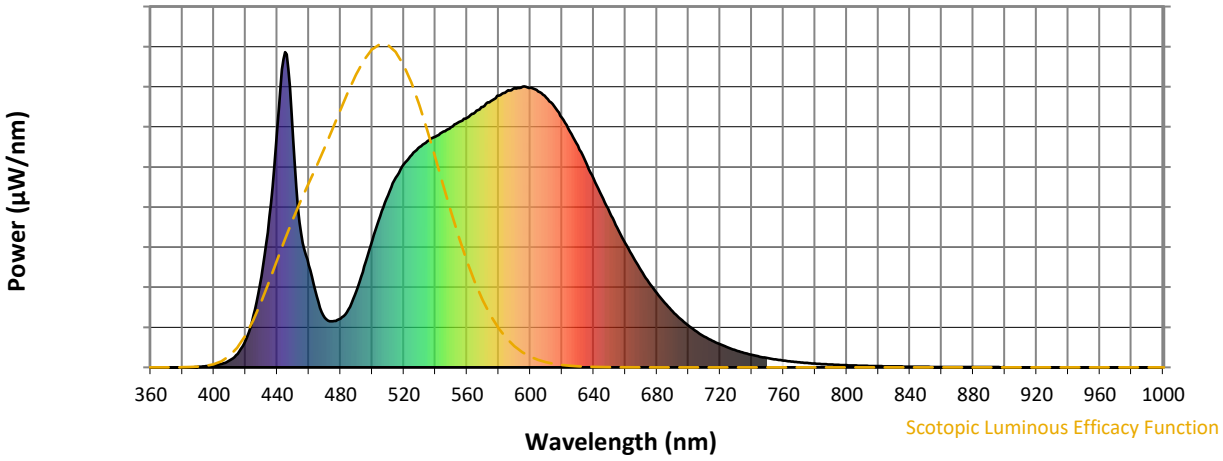


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

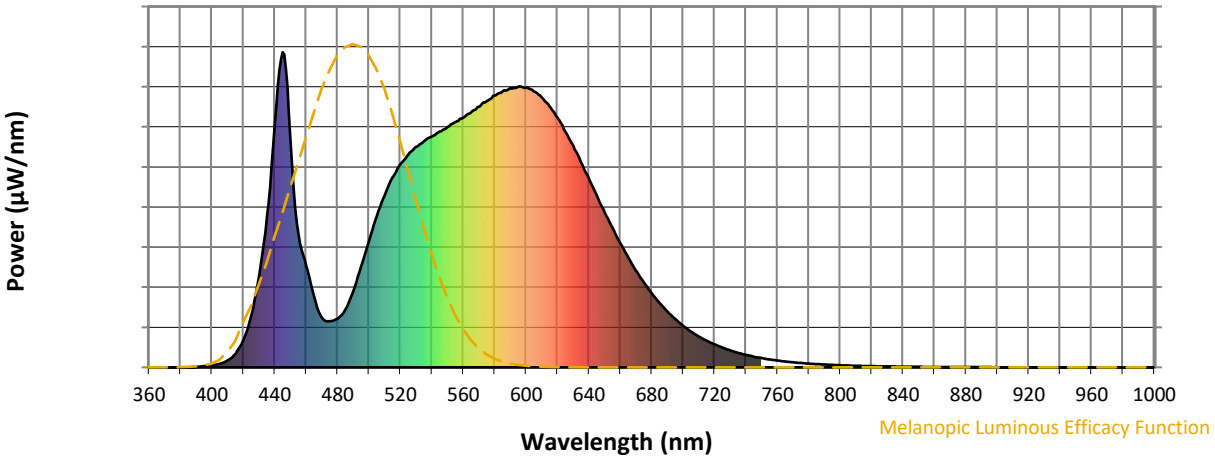


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

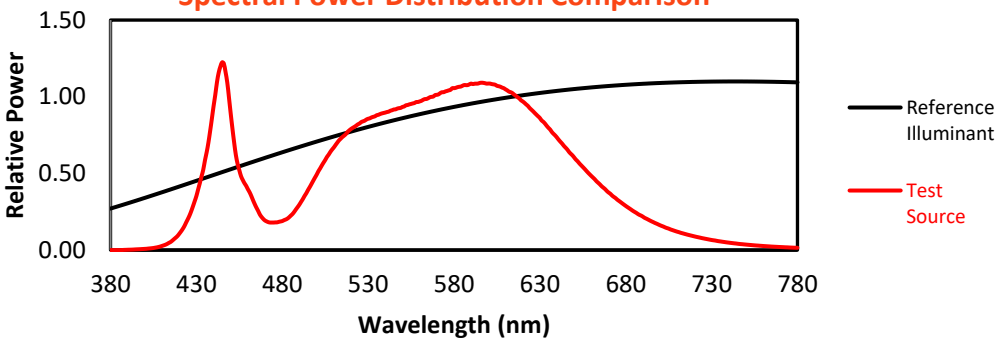
REPORT NUMBER: SP1-2407-184-11

TM-30-18

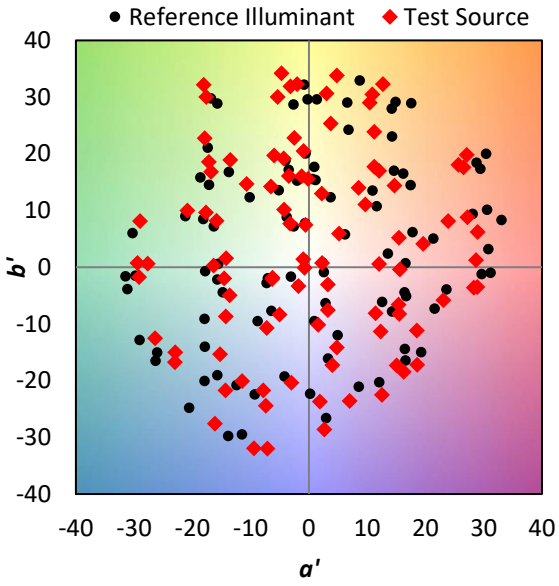
Summary

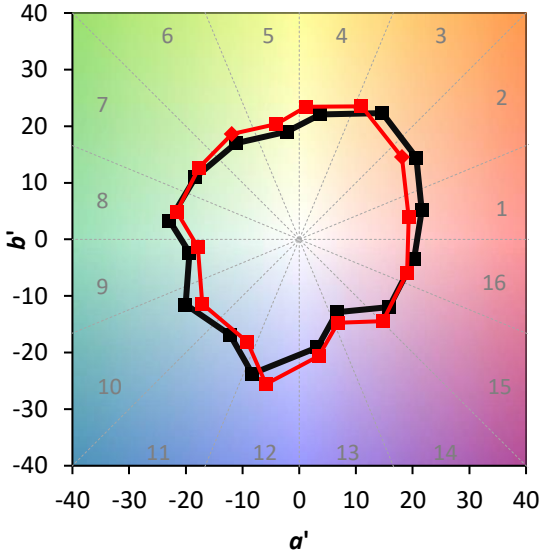
R_f = 81.8
R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

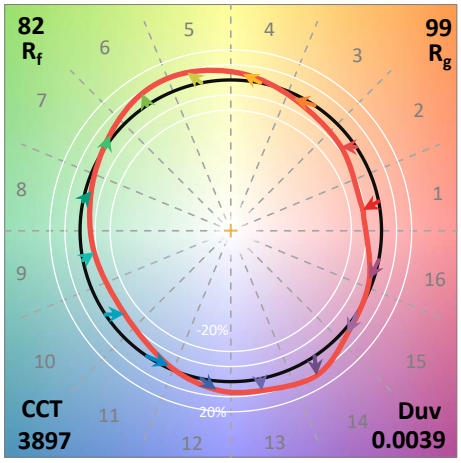
Spectral Power Distribution Comparison

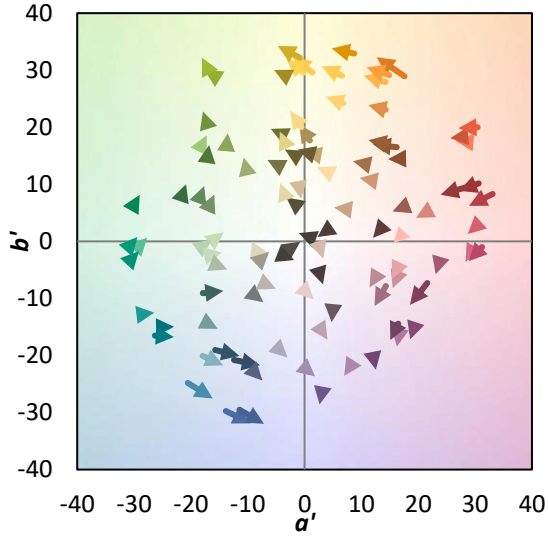


Color Vector Graphics







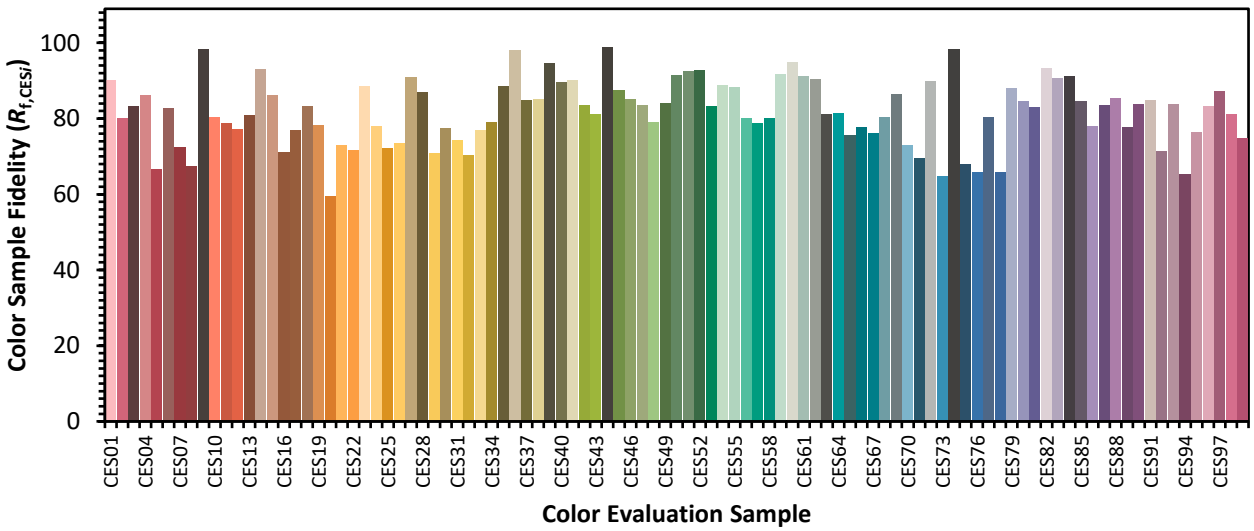


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Individual Sample Fidelity Index ($R_{f,i}$)

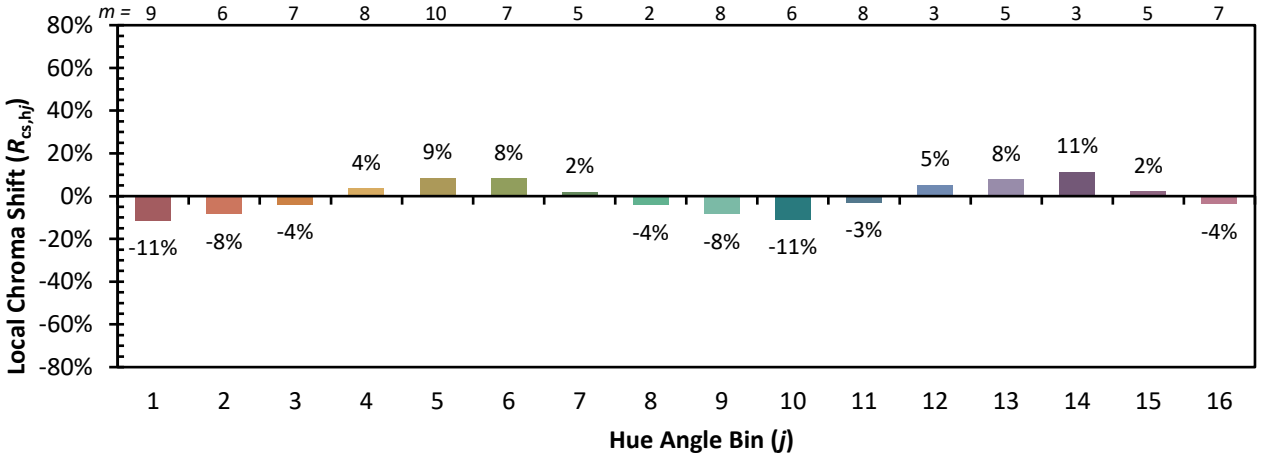
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

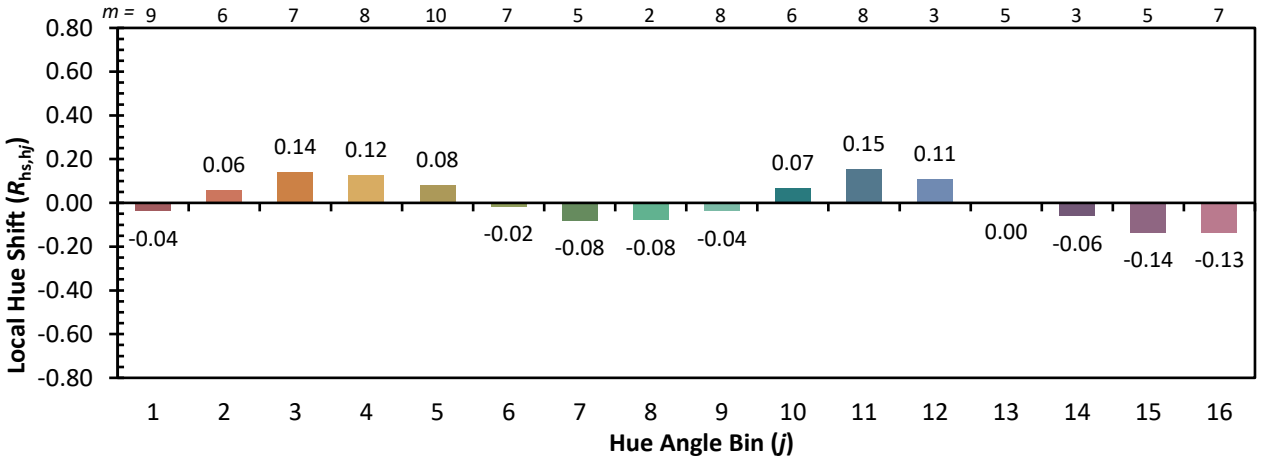


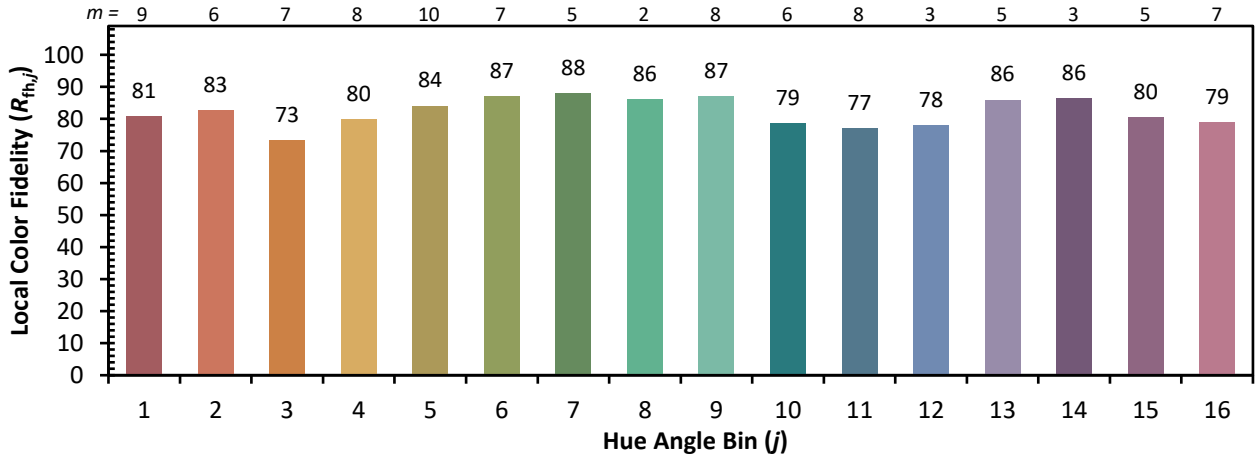
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Color Rendition by Hue-Angle Bin



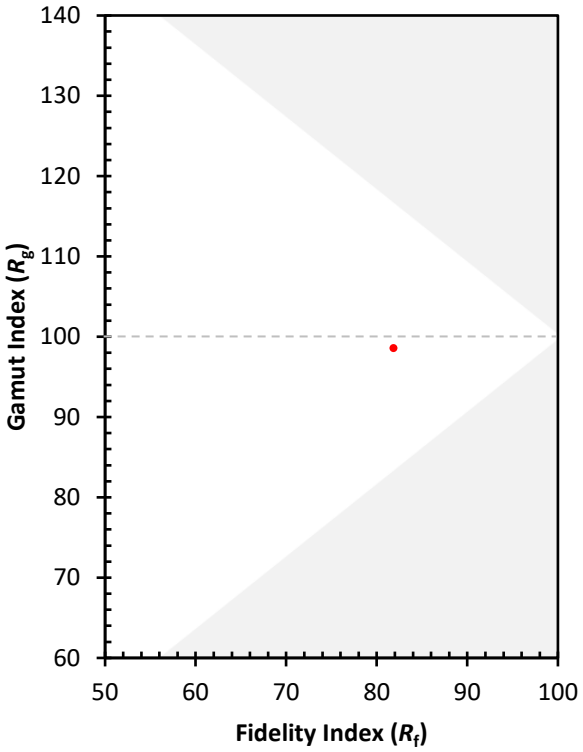


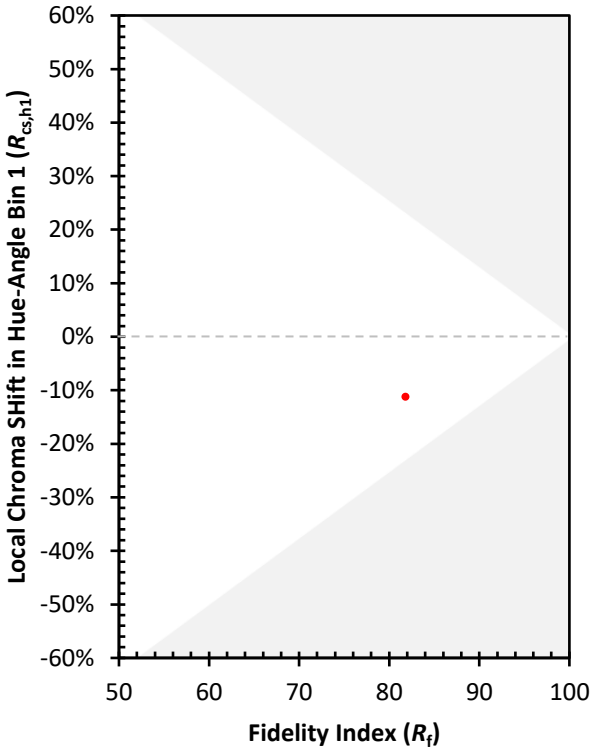


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Measure Comparisons





(END OF REPORT)