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: P1501412

Luminaire Tested: GSS-SB4D-730-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:	P1501412
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4D-730-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31906.6 lumens
Efficiency:	N/A
Efficacy:	134.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

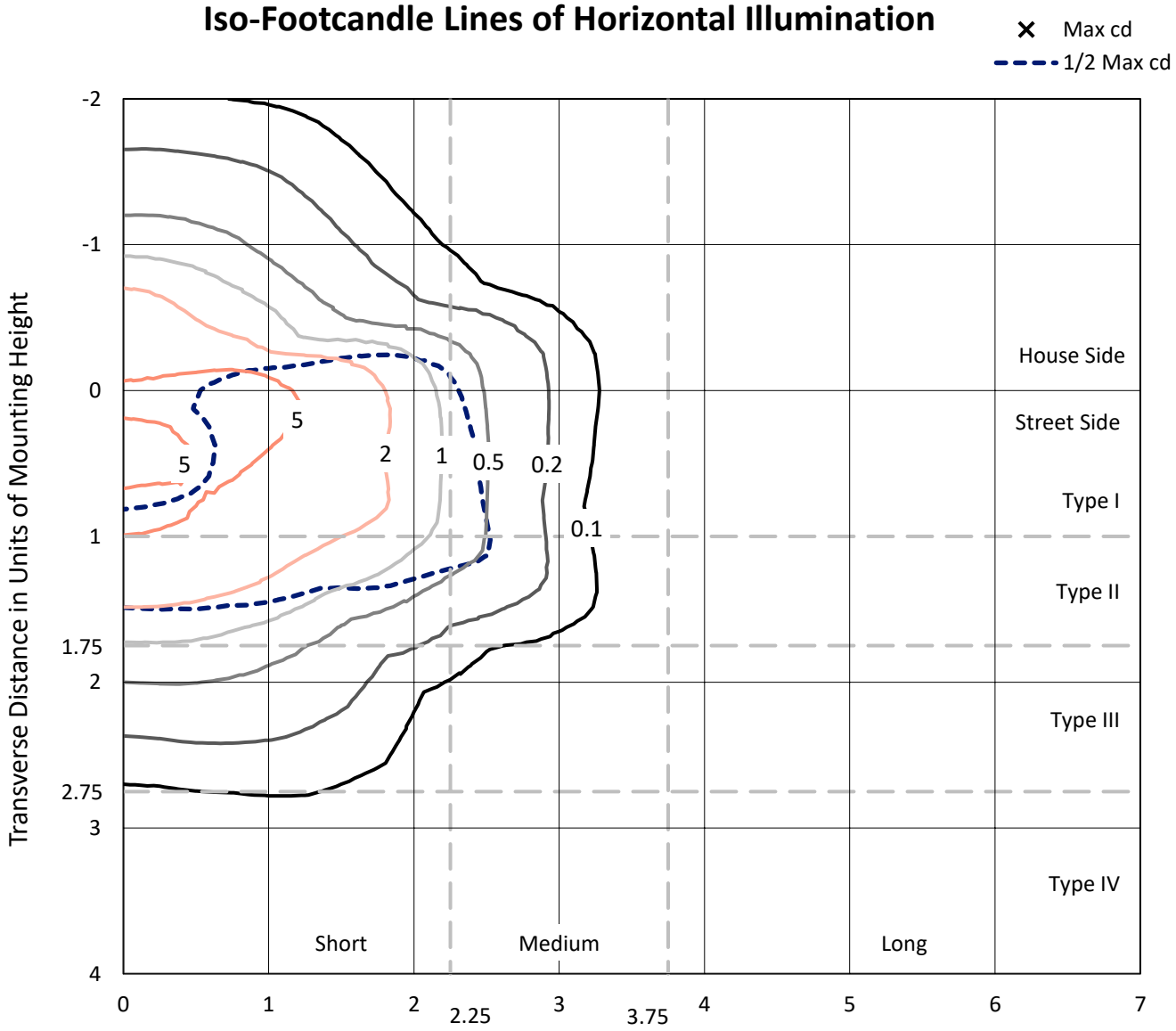
Input Watts (W):	238
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



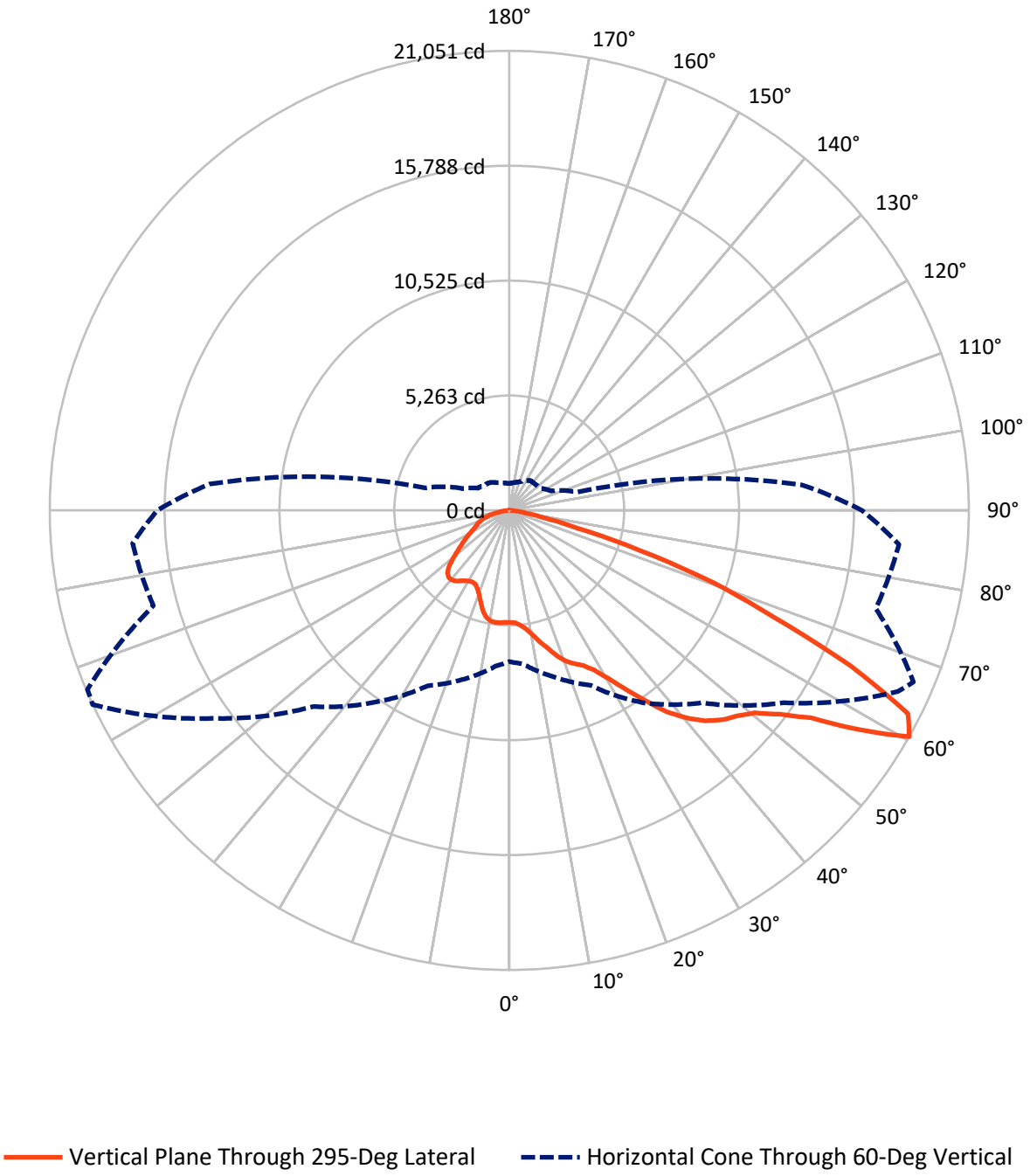
Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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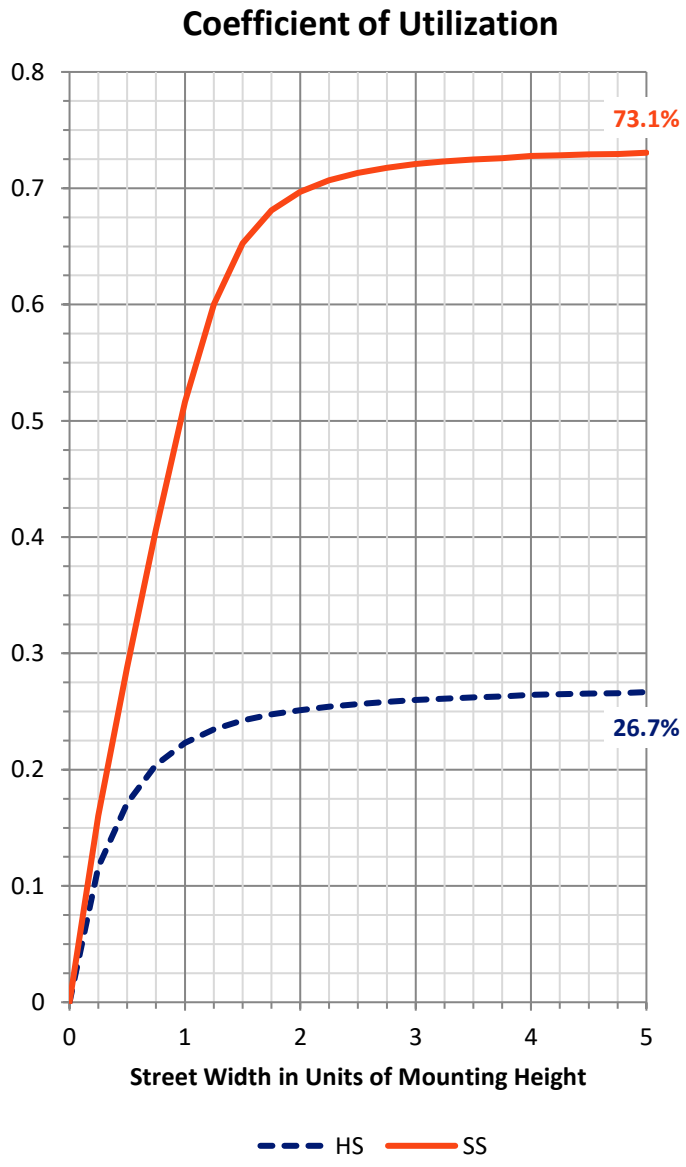
REPORT NUMBER: P1501412
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8580.1	0.0	8580.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23326.5	0.0	23326.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	31906.6	0.0	31906.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.7	1.5
10°-20°	1387.5	4.3
20°-30°	2628.3	8.2
30°-40°	4633.5	14.5
40°-50°	6852.4	21.5
50°-60°	8046.6	25.2
60°-70°	5830.1	18.3
70°-80°	1798.0	5.6
80°-90°	247.5	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°	31906.6	100.0
0°-180°	31906.6	100.0



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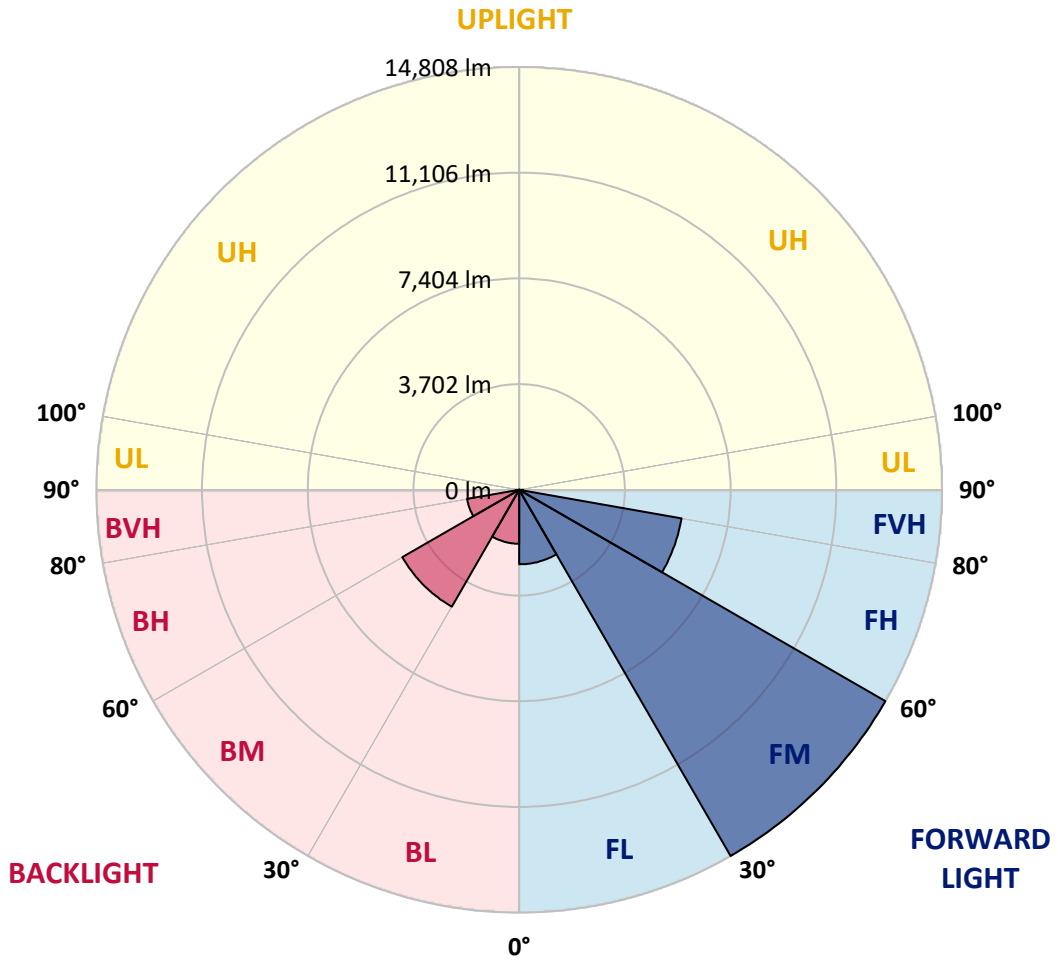
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2608.9	8.2			
FM	(30°-60°)	14808.0	46.4			
FH	(60°-80°)	5776.1	18.1			G3/7500
FVH	(80°-90°)	133.5	0.4			G2/225
BL	(0°-30°)	1889.6	5.9	B3/2500		
BM	(30°-60°)	4724.5	14.8	B3/5000		
BH	(60°-80°)	1852.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	114.0	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°	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6
2.5°	5235.4	5250.0	5228.1	5242.7	5242.7	5220.9	5213.6	5184.5	5199.1	5191.8	5184.5
5°	5359.0	5366.3	5351.8	5373.6	5373.6	5380.8	5373.6	5337.2	5337.2	5337.2	5322.7
7.5°	5322.7	5322.7	5329.9	5402.7	5475.4	5569.9	5569.9	5555.4	5569.9	5562.6	5497.2
10°	5017.3	5046.4	5111.8	5293.6	5468.1	5671.7	5809.9	5853.5	5853.5	5860.8	5751.7
12.5°	4471.9	4493.7	4646.4	4922.7	5286.3	5657.2	5991.6	6209.8	6231.6	6268.0	6122.5
15°	3984.7	3999.3	4108.3	4391.9	4806.4	5460.8	6093.4	6544.3	6617.0	6769.7	6551.5
17.5°	4028.4	4021.1	4050.2	4159.2	4457.4	5140.9	6071.6	6936.9	7067.8	7336.9	7147.8
20°	4290.1	4290.1	4311.9	4333.8	4442.8	4908.2	5911.7	7256.9	7511.4	8034.9	7816.8
22.5°	4704.6	4704.6	4697.3	4733.7	4733.7	5010.0	5918.9	7496.8	7874.9	8813.0	8602.1
25°	5279.0	5250.0	5250.0	5264.5	5199.1	5395.4	6100.7	7744.1	8238.5	9736.4	9554.6
27.5°	5926.2	5948.0	5933.5	5882.6	5795.3	5948.0	6537.0	8129.4	8645.7	10710.8	10638.1
30°	6631.5	6638.8	6653.3	6624.3	6551.5	6660.6	7220.5	8711.2	9183.8	11728.8	11888.8
32.5°	7322.3	7424.1	7387.8	7315.0	7344.1	7540.5	8064.0	9496.5	9983.7	12674.1	13241.2
35°	8202.2	8238.5	8383.9	8114.9	8122.2	8456.7	9140.2	10529.0	11001.6	13655.7	14593.7
37.5°	9481.9	9547.4	9481.9	9060.2	8994.7	9460.1	10187.2	11547.0	11888.8	14397.4	15851.7
40°	10739.9	10819.9	10928.9	10434.5	10020.0	10405.4	11176.2	12325.0	12681.3	14804.6	16687.9
42.5°	11779.7	11910.6	11794.2	11648.8	11270.7	11343.4	11866.9	12928.6	13284.9	15320.9	17531.4
45°	12659.5	12681.3	12732.2	12630.4	12441.4	12375.9	12455.9	13459.4	13852.0	15553.6	17945.8
47.5°	13023.1	13117.6	13161.3	13335.8	13532.1	13401.2	12957.7	13706.6	14062.9	15539.0	18076.7
50°	12826.8	12921.3	13154.0	13568.5	14041.1	14273.8	13546.6	14048.4	14448.3	15800.8	18345.8
52.5°	12310.5	12412.3	12790.4	13263.1	14055.6	14586.5	14375.6	14761.0	15146.4	16266.2	18796.6
55°	11059.8	11212.5	11743.3	12528.6	13619.4	14419.2	15248.2	15808.1	16229.8	16826.1	19262.0
57.5°	9242.0	9401.9	9998.2	11176.2	12812.2	13728.4	15502.7	17771.3	17960.4	17495.0	19305.6
60°	*6922.4*	*7053.3*	*7896.8*	*8842.0*	*10761.7*	*12463.2*	*15357.2*	*19632.8*	*20112.7*	*17378.7*	*17916.8*
62.5°	5482.6	5642.6	6391.6	6827.9	8202.2	10296.3	14848.2	20149.1	20563.6	16418.9	15982.6
65°	4282.9	4391.9	5090.0	5715.3	6049.8	7031.5	12725.0	17625.9	17996.7	14855.5	13190.3
67.5°	2828.6	2995.8	3824.8	4682.8	4857.3	4471.9	8754.8	13561.2	13735.7	11808.8	9918.2
70°	2028.7	2108.7	2726.8	3643.0	3904.7	2995.8	4770.0	10267.2	10318.1	7925.8	6682.4
72.5°	1381.6	1396.1	1854.2	2792.2	3112.2	2174.2	2625.0	6762.4	6587.9	3912.0	3824.8
75°	938.0	952.6	1185.2	1861.5	2203.2	1512.5	1708.8	3686.6	3541.2	2159.6	2319.6
77.5°	632.6	647.2	814.4	1250.7	1468.8	1047.1	1250.7	1948.7	1912.4	1432.5	1243.4
80°	479.9	501.7	603.5	799.9	1025.3	610.8	712.6	923.5	938.0	763.5	632.6
82.5°	269.0	298.1	363.6	407.2	661.7	341.8	341.8	552.6	530.8	472.6	341.8
85°	116.3	123.6	145.4	152.7	269.0	145.4	123.6	240.0	247.2	232.7	109.1
87.5°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	29.1	29.1	29.1	29.1
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°	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6
2.5°	5148.2	5191.8	5148.2	5126.3	5126.3	5090.0	5075.4	5075.4	5024.5	5046.4	5031.8
5°	5264.5	5279.0	5228.1	5162.7	5075.4	5002.7	4900.9	4770.0	4690.1	4682.8	4690.1
7.5°	5446.3	5453.6	5315.4	5170.0	4951.8	4690.1	4377.4	4122.9	3897.5	3861.1	3904.7
10°	5700.8	5686.2	5482.6	5140.9	4682.8	4130.2	3650.2	3417.6	3286.7	3279.4	3272.1
12.5°	6042.5	5948.0	5635.3	5017.3	4217.4	3577.5	3330.3	3315.8	3352.1	3381.2	3388.5
15°	6435.2	6311.6	5759.0	4777.3	3744.8	3373.9	3388.5	3512.1	3555.7	3584.8	3584.8
17.5°	6922.4	6762.4	5897.1	4435.6	3504.8	3417.6	3519.4	3635.7	3708.4	3737.5	3730.2
20°	7569.5	7235.1	6006.2	4108.3	3439.4	3490.3	3577.5	3693.9	3766.6	3802.9	3802.9
22.5°	8216.7	7802.2	6028.0	3882.9	3439.4	3497.5	3577.5	3693.9	3773.9	3810.2	3802.9
25°	9096.5	8529.4	6035.3	3723.0	3446.6	3461.2	3533.9	3635.7	3752.0	3788.4	3802.9
27.5°	10034.6	9329.2	6071.6	3686.6	3417.6	3410.3	3461.2	3555.7	3672.1	3766.6	3773.9
30°	11198.0	10230.9	6086.2	3723.0	3424.8	3330.3	3366.7	3461.2	3584.8	3679.3	3708.4
32.5°	12339.6	11067.1	6057.1	3802.9	3439.4	3279.4	3286.7	3344.9	3475.7	3541.2	3592.1
35°	13546.6	11954.2	6006.2	3912.0	3446.6	3257.6	3192.2	3221.2	3308.5	3315.8	3337.6
37.5°	14491.9	12615.9	5853.5	4057.4	3461.2	3177.6	3046.7	3024.9	2988.6	2915.8	2930.4
40°	15270.0	13059.5	5599.0	4130.2	3424.8	3083.1	2864.9	2763.1	2625.0	2515.9	2537.7
42.5°	15829.9	13357.6	5293.6	4144.7	3366.7	2923.1	2654.1	2479.6	2326.9	2210.5	2217.8
45°	16077.1	13328.5	4966.4	4035.6	3228.5	2726.8	2457.7	2290.5	2123.3	1999.6	1985.1
47.5°	16084.4	13044.9	4515.5	3773.9	2995.8	2501.4	2276.0	2094.2	1956.0	1868.8	1861.5
50°	16142.5	12884.9	4093.8	3395.7	2690.4	2261.4	2116.0	1934.2	1854.2	1730.6	1694.2
52.5°	16506.1	13146.7	3802.9	2981.3	2406.8	2086.9	1977.8	1817.9	1687.0	1607.0	1599.7
55°	17095.1	13597.5	3643.0	2668.6	2137.8	1919.7	1846.9	1708.8	1592.4	1512.5	1490.6
57.5°	17167.8	13830.2	3453.9	2377.8	1919.7	1788.8	1759.7	1607.0	1439.7	1381.6	1359.8
60°	*16149.8*	*13437.6*	*3221.2*	*2108.7*	*1759.7*	*1687.0*	*1672.4*	*1468.8*	*1330.7*	*1258.0*	*1228.9*
62.5°	14761.0	12455.9	2864.9	1861.5	1636.1	1585.2	1527.0	1367.0	1192.5	1112.5	1090.7
65°	12063.3	10470.8	2435.9	1694.2	1512.5	1454.3	1439.7	1221.6	1105.3	1061.6	1054.4
67.5°	9140.2	8413.0	2145.1	1570.6	1381.6	1359.8	1308.9	1236.1	1185.2	1134.3	1119.8
70°	6464.3	6071.6	1825.1	1410.7	1250.7	1214.3	1425.2	1345.2	1163.4	1098.0	1090.7
72.5°	3919.3	3810.2	1577.9	1265.2	1076.2	1134.3	1316.1	1214.3	1047.1	967.1	938.0
75°	2472.3	2261.4	1323.4	1076.2	858.0	923.5	1148.9	1083.4	901.7	821.7	799.9
77.5°	1345.2	1250.7	996.2	879.8	676.2	749.0	1003.5	894.4	719.9	785.3	698.1
80°	589.0	654.4	661.7	509.0	450.8	552.6	719.9	698.1	552.6	559.9	465.4
82.5°	283.6	370.8	429.0	349.0	254.5	327.2	479.9	399.9	370.8	349.0	334.5
85°	87.3	138.2	189.1	167.2	116.3	138.2	225.4	218.1	261.8	225.4	210.9
87.5°	29.1	29.1	21.8	21.8	21.8	29.1	36.4	21.8	7.3	7.3	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°	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6
2.5°	5024.5	5031.8	5031.8	5039.1	5039.1	5060.9	5090.0	5119.1	5097.3	5126.3	5133.6
5°	4675.5	4711.9	4741.0	4850.0	4937.3	5010.0	5090.0	5162.7	5184.5	5199.1	5235.4
7.5°	3853.8	3955.6	4144.7	4391.9	4668.2	4937.3	5119.1	5308.1	5337.2	5373.6	5424.5
10°	3279.4	3323.0	3453.9	3708.4	4202.9	4733.7	5177.2	5475.4	5599.0	5671.7	5722.6
12.5°	3373.9	3344.9	3323.0	3359.4	3679.3	4362.8	5140.9	5715.3	5948.0	6028.0	6093.4
15°	3599.3	3570.3	3490.3	3388.5	3424.8	3970.2	5017.3	5940.7	6311.6	6442.5	6580.6
17.5°	3730.2	3701.1	3635.7	3526.6	3432.1	3643.0	4784.6	6144.3	6886.0	7046.0	7242.3
20°	3802.9	3773.9	3708.4	3599.3	3490.3	3519.4	4486.5	6398.8	7540.5	7795.0	8085.8
22.5°	3817.5	3781.1	3708.4	3599.3	3533.9	3512.1	4202.9	6551.5	8245.8	8638.4	8972.9
25°	3810.2	3744.8	3650.2	3570.3	3533.9	3526.6	4006.5	6638.8	9009.3	9634.6	10012.7
27.5°	3759.3	3679.3	3584.8	3526.6	3512.1	3555.7	3919.3	6740.6	9903.7	10703.5	11307.0
30°	3701.1	3584.8	3468.5	3446.6	3483.0	3621.2	3992.0	6777.0	10841.7	11866.9	12485.0
32.5°	3548.4	3461.2	3344.9	3337.6	3424.8	3672.1	4159.2	6726.1	11670.6	13030.4	13808.4
35°	3330.3	3279.4	3214.0	3235.8	3373.9	3715.7	4275.6	6566.1	12426.8	14113.8	15022.7
37.5°	2944.9	2981.3	3017.6	3068.5	3243.1	3708.4	4326.5	6311.6	13052.2	14979.1	16142.5
40°	2515.9	2639.5	2755.9	2886.8	3119.4	3650.2	4341.0	5998.9	13415.8	15633.5	17138.7
42.5°	2246.9	2363.2	2508.6	2697.7	2952.2	3519.4	4326.5	5649.9	13532.1	16084.4	17771.3
45°	1999.6	2137.8	2319.6	2515.9	2806.8	3330.3	4195.6	5271.8	13590.3	16295.2	18040.4
47.5°	1868.8	1948.7	2116.0	2312.3	2617.7	3097.6	3941.1	4995.5	13503.0	16338.9	18367.6
50°	1716.1	1825.1	1934.2	2123.3	2421.4	2806.8	3635.7	4835.5	13648.4	16767.9	18883.9
52.5°	1599.7	1657.9	1774.2	1948.7	2166.9	2537.7	3344.9	4704.6	14048.4	17204.2	19421.9
55°	1512.5	1577.9	1650.6	1796.0	1963.3	2268.7	3046.7	4508.3	14513.7	17669.5	19960.0
57.5°	1374.3	1417.9	1519.7	1672.4	1781.5	2006.9	2697.7	4275.6	14477.4	17306.0	19029.3
60°	*1250.7*	*1294.3*	*1403.4*	*1556.1*	*1621.5*	*1774.2*	*2355.9*	*3977.5*	*13779.3*	*16120.7*	*17313.2*
62.5°	1112.5	1163.4	1294.3	1403.4	1461.6	1577.9	1999.6	3432.1	12325.0	14339.2	15306.3
65°	1054.4	1083.4	1170.7	1301.6	1294.3	1403.4	1687.0	2697.7	9918.2	10958.0	11837.9
67.5°	1119.8	1163.4	1148.9	1185.2	1163.4	1221.6	1512.5	2166.9	7795.0	8253.1	8762.1
70°	1105.3	1207.1	1258.0	1185.2	1018.0	1083.4	1308.9	1730.6	5577.2	5533.5	5511.7
72.5°	967.1	1068.9	1214.3	1287.0	996.2	901.7	1134.3	1497.9	3577.5	3563.0	3221.2
75°	821.7	894.4	1068.9	1163.4	858.0	727.1	974.4	1272.5	2137.8	2166.9	1934.2
77.5°	756.2	719.9	894.4	1025.3	698.1	559.9	785.3	959.8	1178.0	1192.5	1105.3
80°	545.4	523.5	669.0	749.0	530.8	399.9	443.6	596.3	632.6	567.2	589.0
82.5°	349.0	356.3	399.9	479.9	327.2	218.1	305.4	399.9	341.8	276.3	327.2
85°	225.4	254.5	210.9	247.2	101.8	101.8	130.9	174.5	116.3	80.0	87.3
87.5°	0.0	0.0	14.5	29.1	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: P1501412
CATALOG NUMBER: GSS-SB4D-730-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	5133.6	5133.6	*5133.6*	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6	5133.6
2.5°	5155.4	5148.2	*5148.2*	5162.7	5199.1	5213.6	5235.4	5228.1	5250.0	5235.4
5°	5257.2	5264.5	*5286.3*	5293.6	5315.4	5344.5	5351.8	5344.5	5359.0	5359.0
7.5°	5460.8	5489.9	*5475.4*	5511.7	5482.6	5446.3	5388.1	5344.5	5308.1	5322.7
10°	5802.6	5788.0	*5780.8*	5715.3	5584.4	5395.4	5242.7	5075.4	5046.4	5017.3
12.5°	6180.7	6166.2	*6166.2*	5940.7	5569.9	5177.2	4828.2	4566.4	4479.2	4471.9
15°	6711.5	6617.0	*6529.7*	6057.1	5315.4	4646.4	4239.2	4035.6	3984.7	3984.7
17.5°	7373.2	7126.0	*6980.6*	5969.8	4900.9	4297.4	4057.4	4006.5	3992.0	4028.4
20°	8194.9	7569.5	*7358.7*	5773.5	4748.2	4341.0	4224.7	4232.0	4239.2	4290.1
22.5°	9096.5	7976.7	*7627.7*	5773.5	4900.9	4617.3	4559.2	4639.2	4661.0	4704.6
25°	10100.0	8340.3	*7867.7*	6078.9	5351.8	5140.9	5068.2	5148.2	5206.3	5279.0
27.5°	11227.1	8718.4	*8282.1*	6631.5	5933.5	5802.6	5722.6	5759.0	5838.9	5926.2
30°	12237.8	9351.0	*8914.8*	7475.0	6726.1	6566.1	6427.9	6486.1	6573.4	6631.5
32.5°	13132.2	10121.8	*9751.0*	8362.1	7635.0	7358.7	7206.0	7191.4	7365.9	7322.3
35°	13953.8	11030.7	*10674.4*	9372.9	8558.5	8216.7	8013.1	8274.9	8158.5	8202.2
37.5°	14601.0	11976.0	*11692.4*	10339.9	9518.3	9052.9	8929.3	9249.2	9431.0	9481.9
40°	15131.8	12797.7	*12499.6*	11299.8	10398.1	10056.4	10252.7	10783.5	10761.7	10739.9
42.5°	15539.0	13503.0	*13175.8*	12026.9	11241.6	11307.0	11459.7	11816.0	11903.3	11779.7
45°	15720.8	13946.6	*13684.8*	12601.4	12201.4	12579.5	12645.0	12797.7	12739.5	12659.5
47.5°	15931.7	14339.2	*14062.9*	13124.9	13241.2	13612.1	13481.2	13357.6	13146.7	13023.1
50°	16288.0	14804.6	*14571.9*	13888.4	14310.1	14186.5	13677.5	13401.2	12972.2	12826.8
52.5°	16964.2	15684.4	*15509.9*	15095.5	14811.9	14099.3	13481.2	12986.7	12506.8	12310.5
55°	17567.7	16877.0	*16775.2*	16222.5	14659.2	13641.2	12812.2	12048.7	11227.1	11059.8
57.5°	17916.8	18854.8	*18971.1*	16702.4	13961.1	12601.4	11379.8	10158.2	9380.1	9242.0
60°	*16877.0*	*20992.6*	*21050.7*	*16607.9*	*12703.2*	*10725.3*	*8863.9*	*7998.6*	*7162.3*	*6922.4*
62.5°	15444.5	20549.0	*20498.1*	16040.7	10114.5	7824.0	6733.3	6326.1	5679.0	5482.6
65°	13277.6	17116.9	*17175.1*	13859.3	6726.1	5657.2	5657.2	5140.9	4421.0	4282.9
67.5°	10819.9	13197.6	*13066.7*	8987.5	4130.2	4530.1	4748.2	4006.5	2995.8	2828.6
70°	7031.5	10078.2	*9896.4*	5184.5	2595.9	3773.9	3737.5	3010.4	2145.1	2028.7
72.5°	3024.9	5824.4	*6195.2*	2646.8	1956.0	3039.5	2981.3	2108.7	1432.5	1381.6
75°	1825.1	2930.4	*3192.2*	1687.0	1425.2	2290.5	2065.1	1337.9	974.4	938.0
77.5°	1156.2	1607.0	*1592.4*	1265.2	1068.9	1548.8	1388.8	923.5	661.7	632.6
80°	669.0	792.6	*821.7*	792.6	719.9	1105.3	887.1	669.0	516.3	479.9
82.5°	429.0	494.5	*501.7*	385.4	399.9	712.6	479.9	392.7	298.1	269.0
85°	189.1	210.9	*203.6*	130.9	130.9	290.9	167.2	160.0	116.3	116.3
87.5°	7.3	14.5	*7.3*	7.3	7.3	29.1	14.5	21.8	21.8	21.8
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

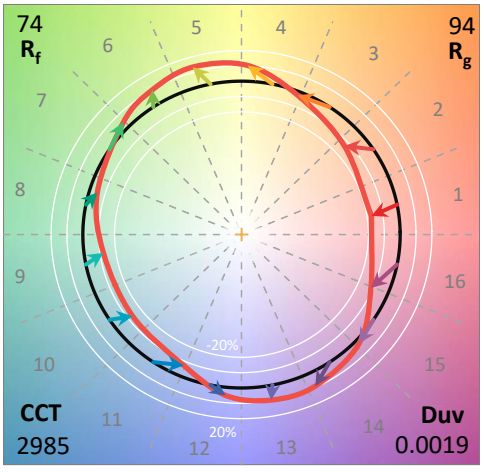
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
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-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

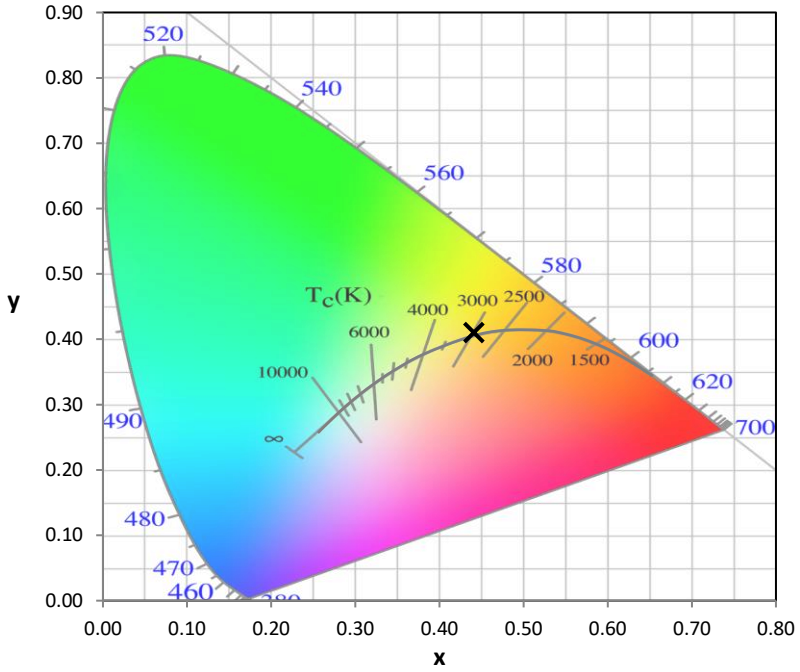
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

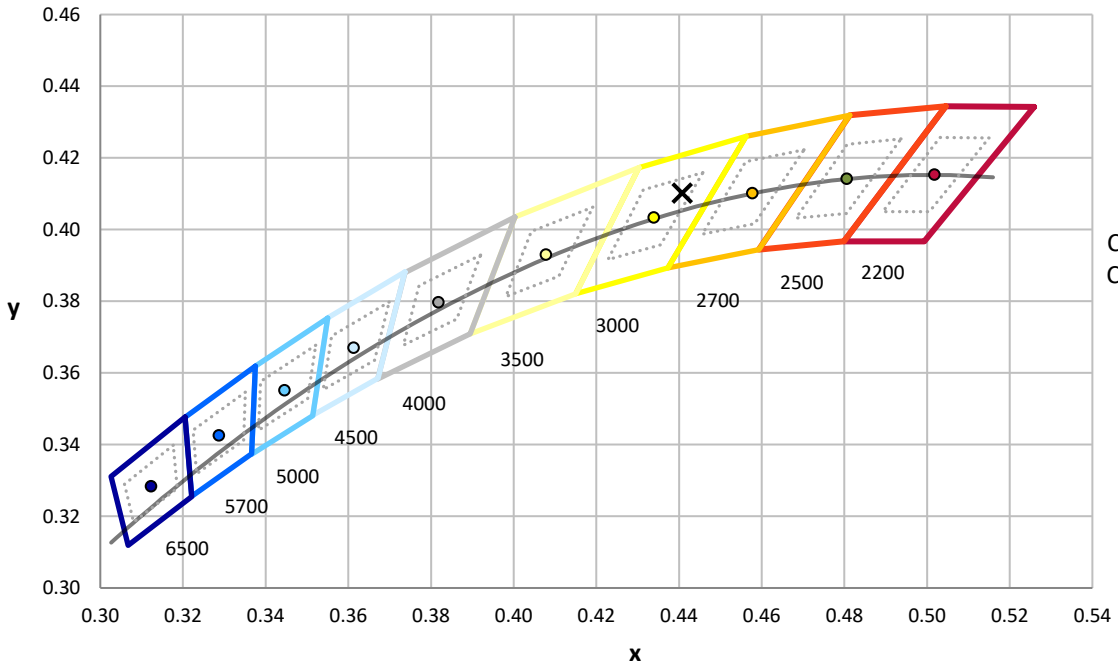
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

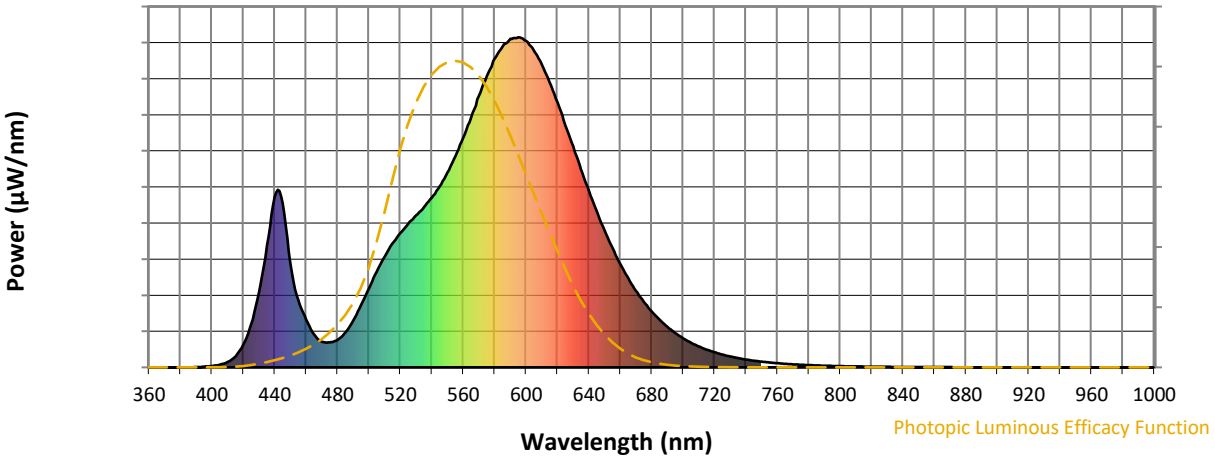


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

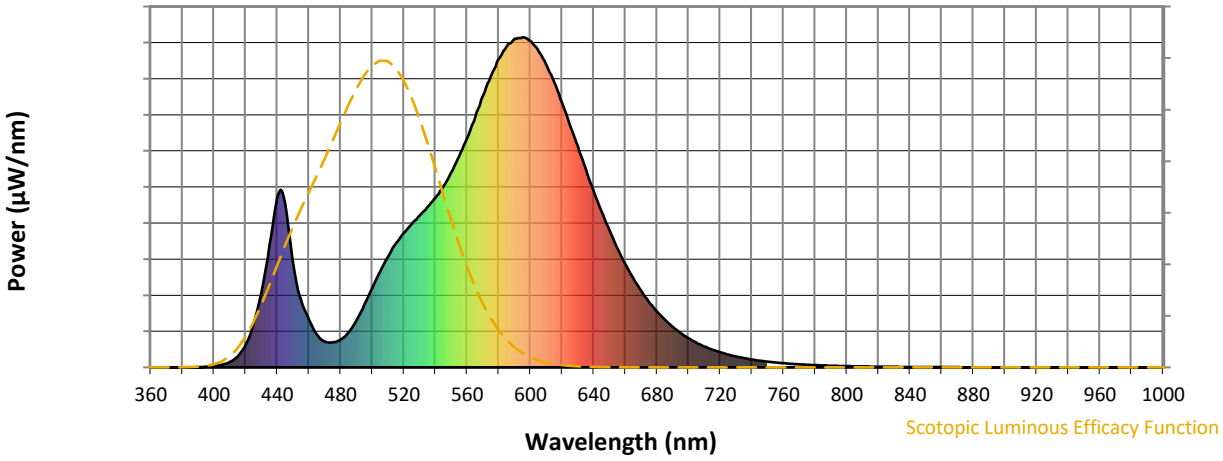


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

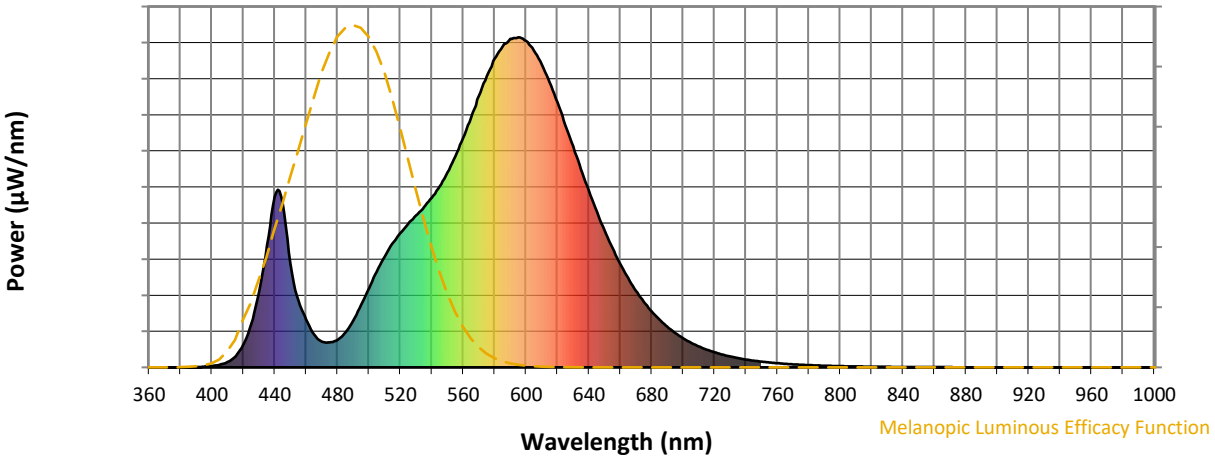


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

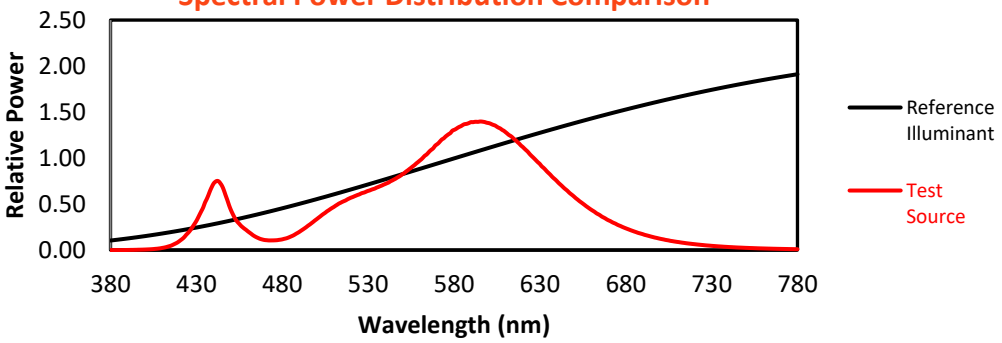
REPORT NUMBER: SP1-2407-184-4

TM-30-18

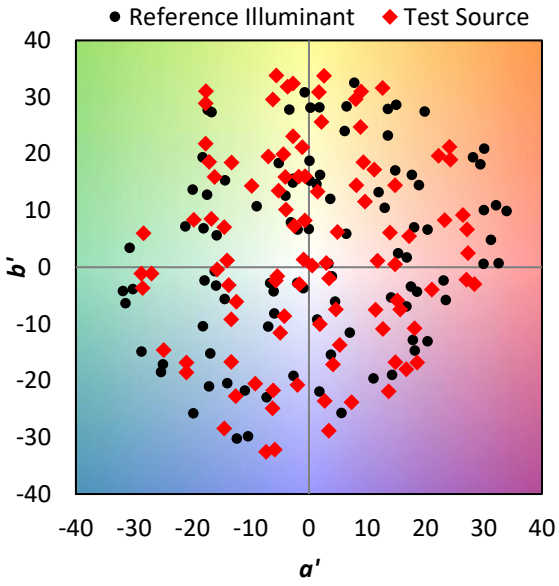
Summary

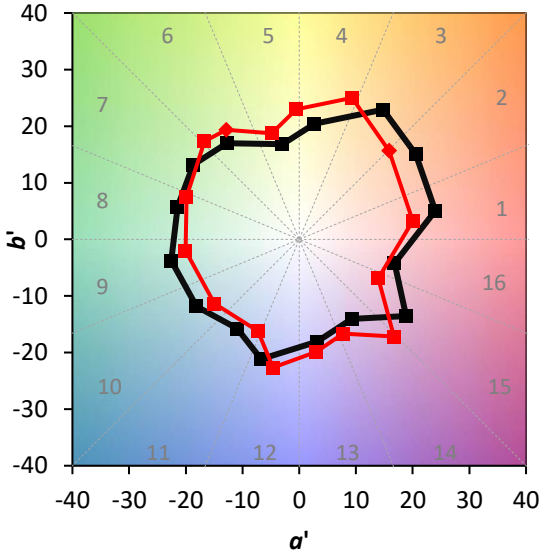
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

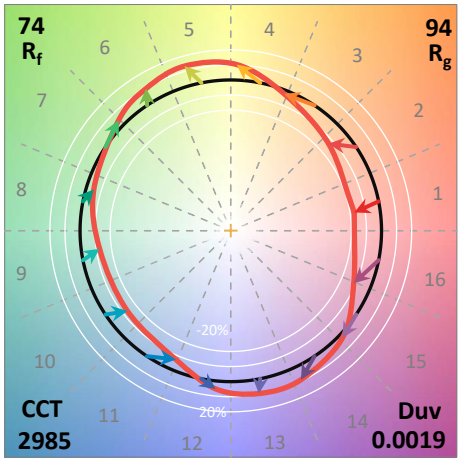
Spectral Power Distribution Comparison

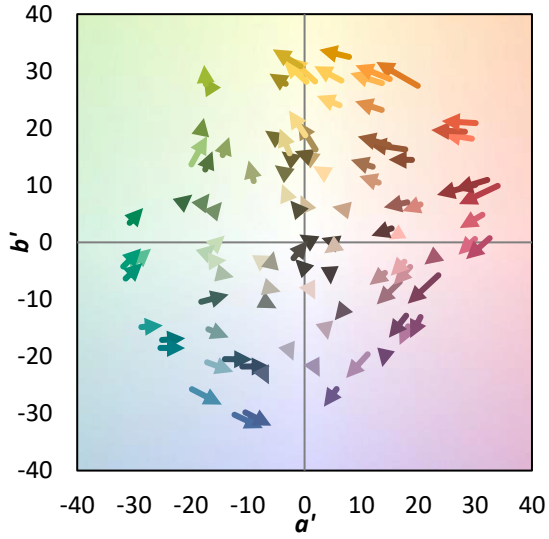


Color Vector Graphics







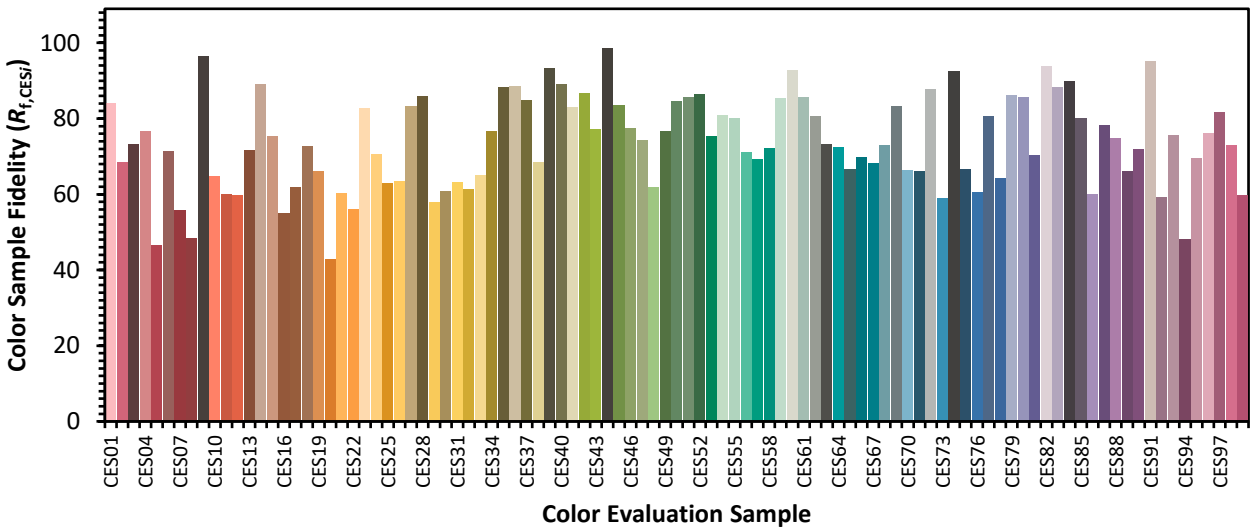


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Individual Sample Fidelity Index ($R_{f,i}$)

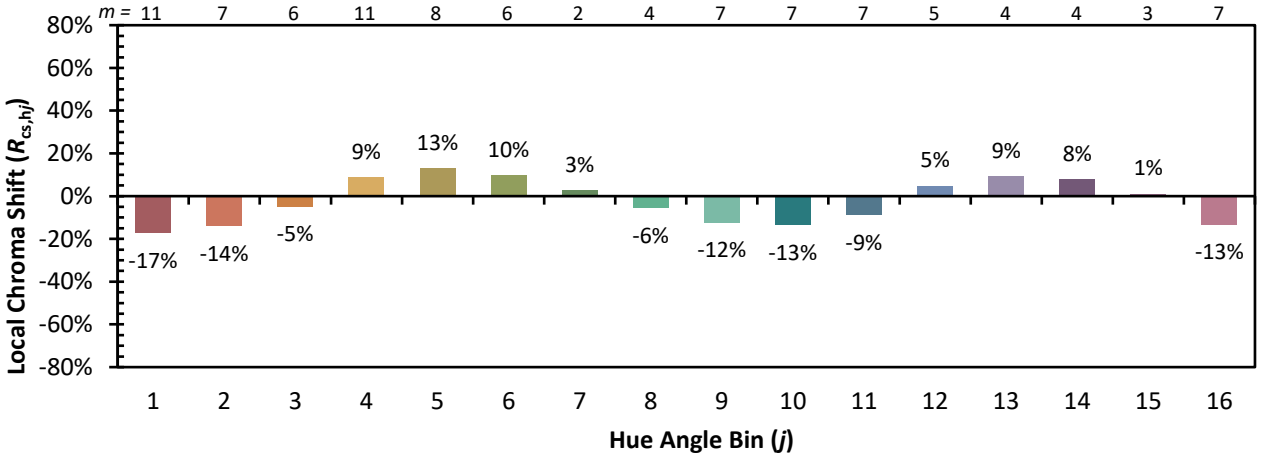
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	

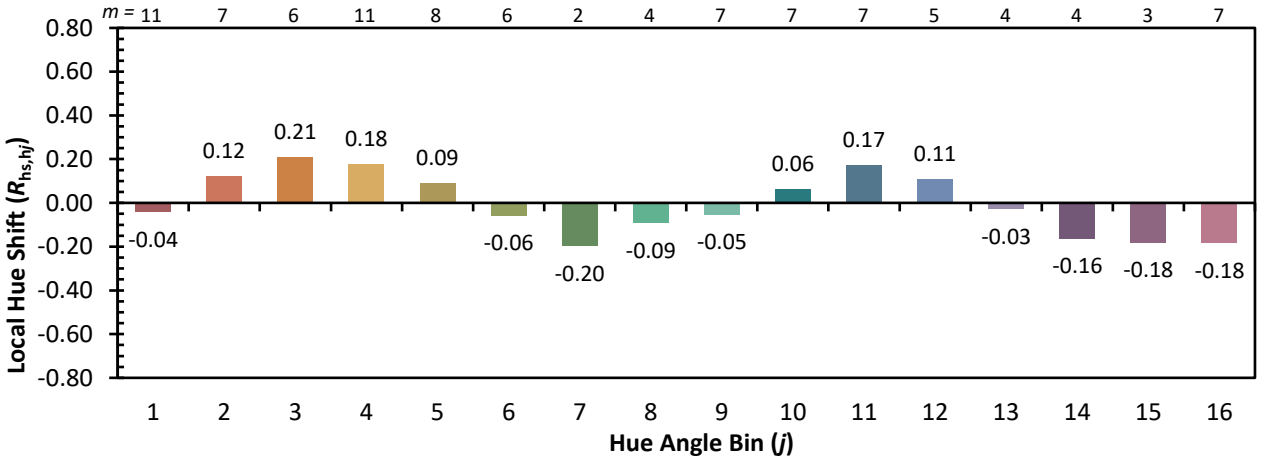


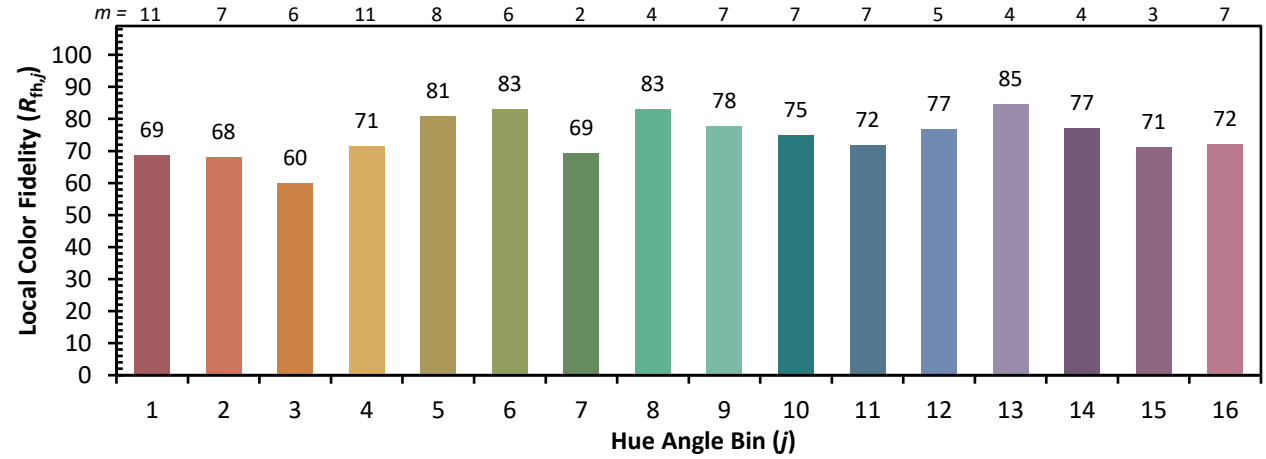
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Color Rendition by Hue-Angle Bin



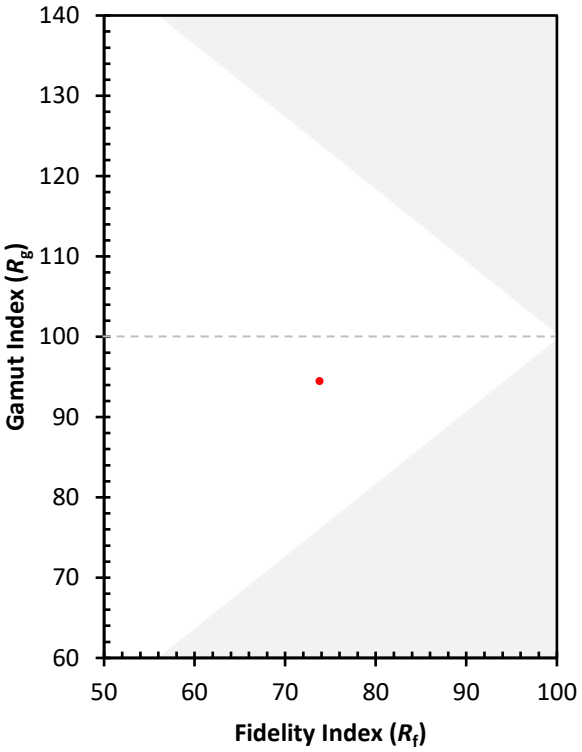


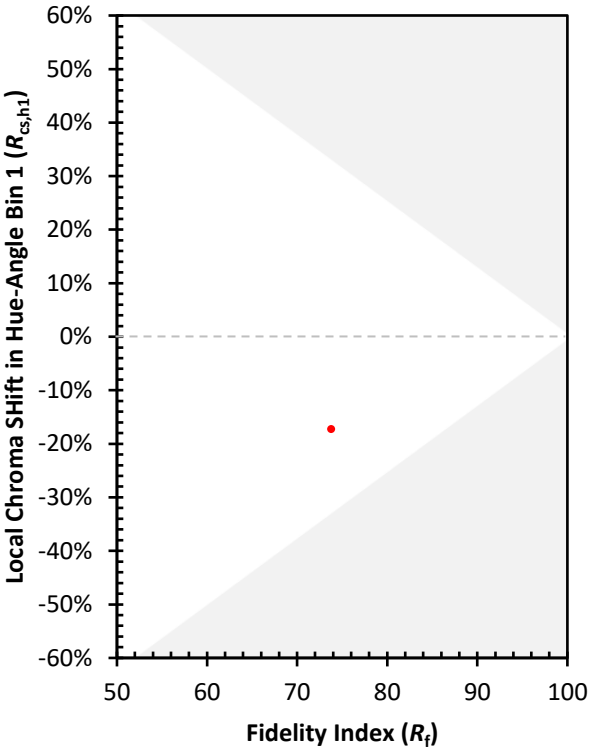


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Measure Comparisons





(END OF REPORT)