Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1365361

Luminaire Tested: **GSS-SB5C-730-U-SLL-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1365361
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5C-730-U-SLL-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 70CRI 3000K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD
Light Source:	(130) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27330.8 lumens
Efficiency:	N/A
Efficacy:	108.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

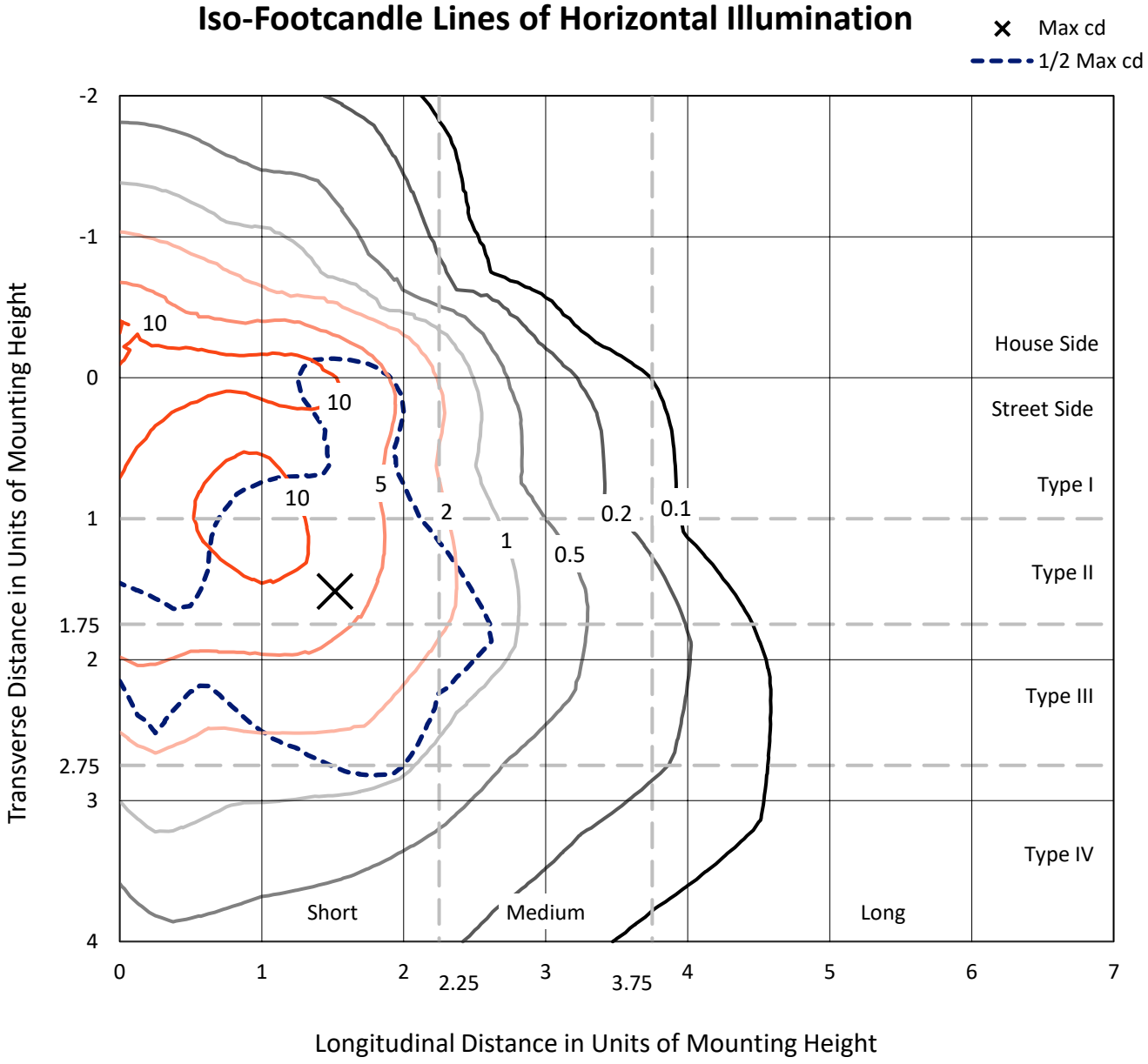
Input Watts (W):	252
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	7.9%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



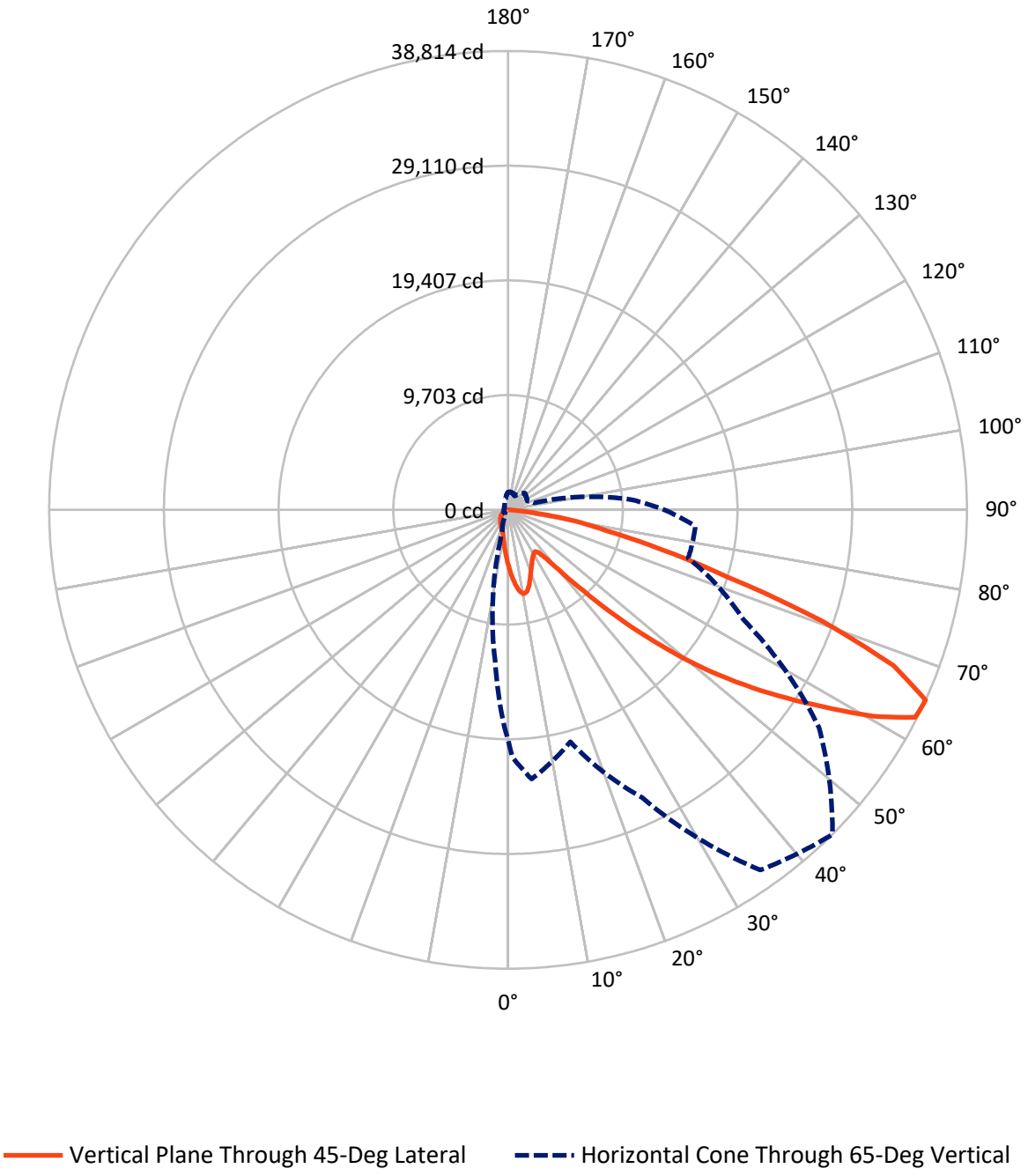
Based on 20 foot mounting height. Maximum calculated value = 17.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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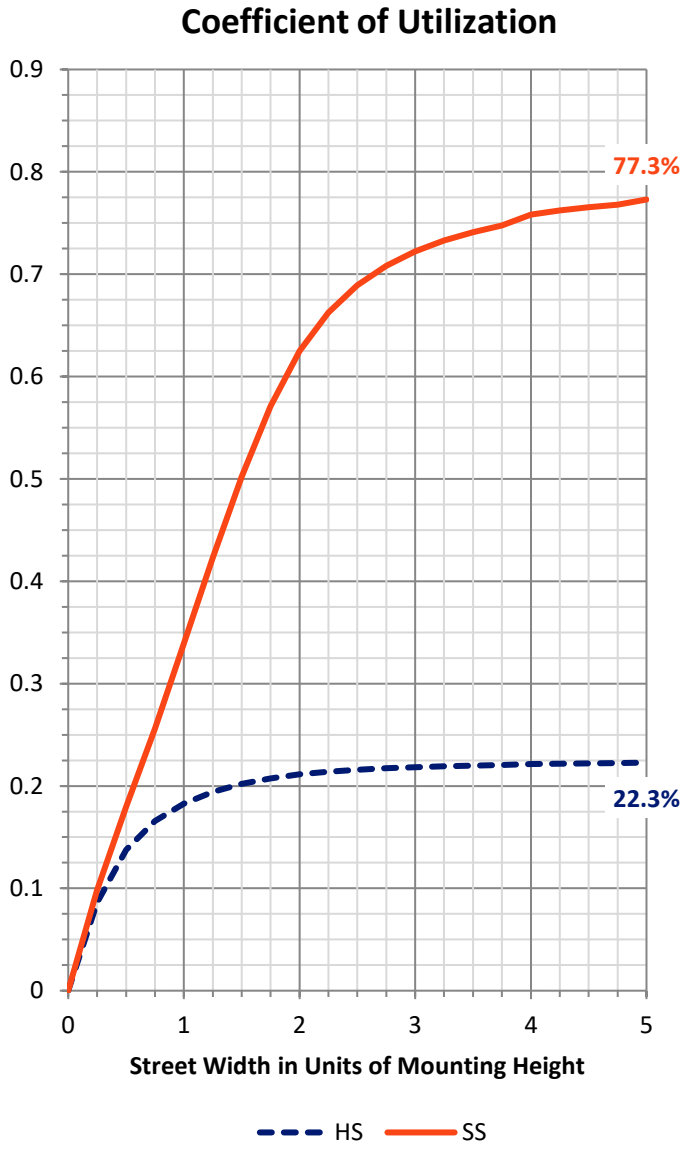
REPORT NUMBER: P1365361
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6148.0	0.0	6148.0
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	21182.8	0.0	21182.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	27330.8	0.0	27330.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	1.7
10°-20°	1255.0	4.6
20°-30°	1797.6	6.6
30°-40°	2254.9	8.3
40°-50°	3704.0	13.6
50°-60°	6687.7	24.5
60°-70°	7424.5	27.2
70°-80°	3356.0	12.3
80°-90°	397.2	1.5
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°	27330.8	100.0
0°-180°	27330.8	100.0



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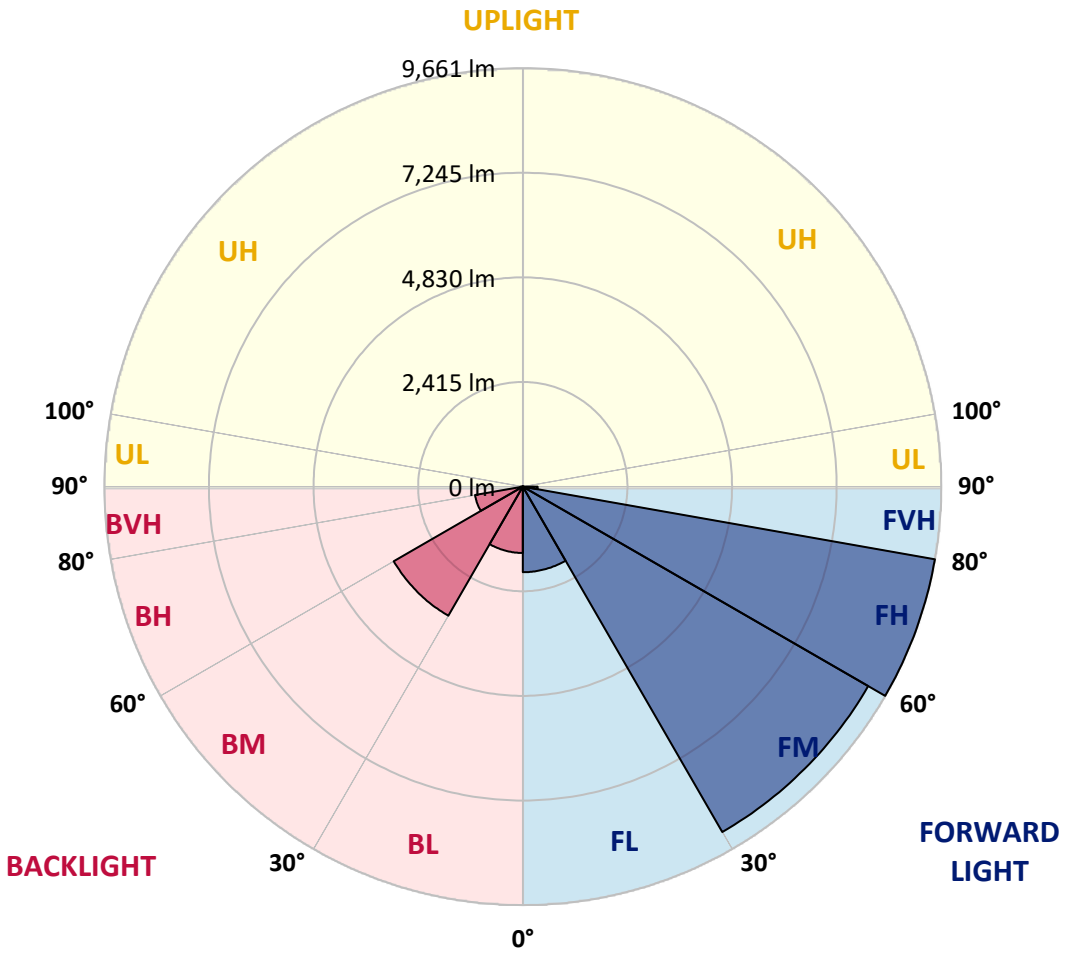
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1974.4	7.2			
FM	(30°-60°)	9206.7	33.7			
FH	(60°-80°)	9660.6	35.3			G4/12000
FVH	(80°-90°)	341.1	1.2			G3/500
BL	(0°-30°)	1532.1	5.6	B3/2500		
BM	(30°-60°)	3439.9	12.6	B3/5000		
BH	(60°-80°)	1119.9	4.1	B3/2500		G3/2500
BVH	(80°-90°)	56.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	5199.8	5266.9	5258.5	5350.7	5434.6	5493.3	5543.6	5526.9	5484.9	5401.1	5342.3
5°	5744.9	5795.2	5879.1	6055.2	6189.4	6306.8	6290.0	6306.8	6181.0	6055.2	5904.3
7.5°	6214.6	6273.3	6390.7	6642.3	6810.0	6952.6	6935.8	6885.5	6742.9	6533.3	6306.8
10°	6508.1	6550.0	6675.8	6961.0	7153.9	7271.3	7229.4	7145.5	6961.0	6751.3	6482.9
12.5°	6633.9	6684.2	6793.2	7019.7	7145.5	7120.3	7103.6	7086.8	6994.5	6835.2	6592.0
15°	6650.7	6684.2	6768.1	6868.7	6818.4	6675.8	6642.3	6768.1	6885.5	6852.0	6650.7
17.5°	6650.7	6701.0	6717.8	6617.1	6357.1	6097.1	6063.6	6273.3	6600.4	6860.3	6742.9
20°	6675.8	6701.0	6667.4	6340.4	5853.9	5568.8	5510.1	5770.1	6256.5	6768.1	6835.2
22.5°	6709.4	6734.5	6592.0	6013.3	5443.0	5141.1	5107.5	5300.4	5870.7	6633.9	6935.8
25°	6776.5	6759.7	6541.6	5728.1	5082.4	4797.2	4746.9	4998.5	5552.0	6499.7	7103.6
27.5°	6860.3	6784.9	6474.6	5493.3	4822.4	4520.4	4486.9	4730.1	5283.6	6332.0	7246.1
30°	6969.4	6893.9	6466.2	5308.8	4629.5	4327.6	4285.6	4554.0	5099.1	6214.6	7447.4
32.5°	7120.3	7011.3	6474.6	5166.2	4520.4	4235.3	4210.1	4495.3	5023.6	6147.5	7657.1
35°	7321.6	7162.3	6508.1	5115.9	4554.0	4361.1	4419.8	4637.9	5099.1	6197.8	8000.9
37.5°	7573.2	7422.3	6675.8	5224.9	4923.0	5057.2	5208.2	5292.0	5459.8	6432.6	8554.5
40°	7992.5	7782.9	6927.4	5577.2	5912.6	6541.6	6835.2	6801.6	6415.8	6969.4	9334.4
42.5°	8579.6	8386.7	7439.0	6474.6	7564.8	8898.3	9393.1	9108.0	7942.2	7824.8	10617.6
45°	9477.0	9158.3	8126.7	7808.0	9560.9	11749.8	12865.2	11884.0	9879.6	9175.1	12445.9
47.5°	10626.0	10307.3	9200.2	9141.5	11791.7	15272.2	16597.3	14668.4	11800.1	10944.7	14634.8
50°	12471.1	12118.8	10776.9	10500.2	14257.4	18786.3	20555.9	17444.4	13754.2	12823.3	17335.4
52.5°	15003.9	14769.0	13276.2	11900.8	16463.1	22660.9	24187.3	20346.2	15263.8	14970.3	20279.1
55°	18534.7	18308.2	16530.2	13460.7	18551.4	26544.0	27776.8	22988.0	16580.6	17486.3	23357.0
57.5°	22535.1	22912.5	20983.6	15540.6	20748.8	29672.2	31391.5	25386.6	18358.5	20849.4	26778.8
60°	25143.4	26334.3	26091.1	19172.1	24162.2	33563.7	35433.9	28598.7	20958.4	23323.5	26703.3
62.5°	22879.0	24069.9	25931.8	23382.2	27449.8	37086.1	38662.8	31978.6	23541.5	21352.6	22426.1
65°	19415.3	20899.7	22862.2	20312.6	26871.1	37195.1	38813.8	32104.4	21964.8	15783.8	15901.2
67.5°	16731.5	18048.2	20463.6	17285.0	23818.3	33874.0	35148.8	28640.7	18157.3	10466.6	10374.4
70°	13963.9	15171.6	18224.4	15389.6	20866.2	29194.2	28095.5	24078.3	15347.7	6952.6	5761.7
72.5°	11900.8	13016.2	16194.8	13829.7	16555.4	23659.0	19364.9	19977.2	12487.8	4419.8	3925.0
75°	9846.0	10869.2	13771.0	12521.4	13695.5	14760.6	13385.2	14190.3	10290.5	3748.9	3027.6
77.5°	6910.7	7548.1	9661.5	9963.4	10659.5	8739.0	8487.4	9938.3	7321.6	1861.9	1274.8
80°	3405.0	3799.2	5040.4	5929.4	5040.4	4956.6	5652.7	6617.1	3799.2	1140.6	704.5
82.5°	1526.4	1811.5	2323.1	3589.5	1819.9	1979.3	2499.2	3522.4	1727.7	679.3	301.9
85°	243.2	268.4	452.9	603.8	494.8	763.2	729.6	687.7	369.0	184.5	83.9
87.5°	8.4	8.4	8.4	16.8	25.2	33.5	41.9	41.9	41.9	41.9	41.9
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°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	5325.6	5300.4	5174.6	5048.8	4939.8	4830.8	4721.7	4570.8	4453.4	4352.7	4310.8
5°	5828.8	5694.6	5501.7	5292.0	5107.5	4897.8	4696.6	4470.1	4285.6	4092.7	3992.1
7.5°	6172.6	6038.4	5719.7	5401.1	5174.6	4948.2	4738.5	4486.9	4243.7	3966.9	3816.0
10°	6332.0	6181.0	5837.2	5468.1	5191.4	4964.9	4772.0	4562.4	4319.2	3975.3	3774.0
12.5°	6441.0	6256.5	5862.3	5484.9	5208.2	4973.3	4788.8	4637.9	4495.3	4159.8	3925.0
15°	6508.1	6340.4	5929.4	5493.3	5183.0	4906.2	4730.1	4679.8	4705.0	4545.6	4260.5
17.5°	6608.7	6449.4	6013.3	5543.6	5141.1	4763.7	4570.8	4679.8	4906.2	4956.6	4730.1
20°	6742.9	6575.2	6122.3	5585.6	5015.3	4495.3	4310.8	4587.5	4964.9	5224.9	5099.1
22.5°	6893.9	6759.7	6248.1	5627.5	4830.8	4143.0	4059.2	4394.6	4797.2	5132.7	5141.1
25°	7078.4	6952.6	6424.2	5669.4	4579.2	3841.1	3857.9	4143.0	4461.7	4805.6	4864.3
27.5°	7330.0	7212.6	6642.3	5719.7	4319.2	3597.9	3681.8	3891.4	4109.5	4319.2	4403.0
30°	7606.8	7514.5	6902.3	5820.4	4075.9	3455.3	3505.7	3648.2	3824.3	3950.1	3992.1
32.5°	7984.2	7833.2	7145.5	5812.0	3891.4	3388.2	3337.9	3379.9	3522.4	3648.2	3656.6
35°	8453.8	8336.4	7397.1	5661.0	3723.7	3354.7	3178.6	3153.4	3237.3	3363.1	3354.7
37.5°	9141.5	9040.9	7808.0	5426.2	3514.0	3270.8	3010.8	2927.0	2985.7	3069.5	3094.7
40°	10173.1	9913.1	8277.7	5166.2	3304.4	3119.9	2809.6	2692.1	2734.1	2826.3	2843.1
42.5°	11573.7	11078.9	8906.7	4814.0	3103.1	2893.4	2608.3	2482.5	2507.6	2591.5	2608.3
45°	13368.4	12622.0	9770.5	4445.0	2943.7	2658.6	2398.6	2264.4	2289.6	2381.8	2423.8
47.5°	15465.1	14441.9	10676.3	4050.8	2851.5	2474.1	2188.9	2088.3	2147.0	2239.3	2256.0
50°	17939.2	16907.6	11255.0	3732.1	2792.8	2331.5	1996.0	1954.1	2029.6	2105.1	2121.8
52.5°	20639.7	19172.1	10886.0	3472.1	2742.5	2281.2	1861.9	1878.6	1937.3	2012.8	2038.0
55°	23264.8	20002.3	9661.5	3136.6	2683.8	2314.7	1761.2	1803.1	1878.6	1937.3	1954.1
57.5°	24975.7	19306.2	7782.9	2784.4	2616.7	2339.9	1710.9	1744.4	1828.3	1895.4	1903.8
60°	23482.8	17779.9	5828.8	2482.5	2474.1	2298.0	1694.1	1643.8	1761.2	1819.9	1828.3
62.5°	19239.1	14542.6	3723.7	2197.3	2205.7	2205.7	1685.7	1476.1	1627.0	1677.3	1669.0
65°	*13217.5*	*10282.1*	*2306.3*	*1794.8*	*1878.6*	*2004.4*	*1635.4*	*1299.9*	*1476.1*	*1526.4*	*1509.6*
67.5°	8688.6	6533.3	1425.7	1383.8	1543.2	1736.1	1534.8	1165.8	1325.1	1358.6	1308.3
70°	4713.3	3077.9	939.3	905.8	1207.7	1367.0	1299.9	1048.3	1182.5	1216.1	1165.8
72.5°	3111.5	1769.6	662.6	662.6	947.7	956.1	1065.1	939.3	1048.3	1081.9	1031.6
75°	2339.9	1140.6	461.3	511.6	603.8	746.4	763.2	788.4	889.0	930.9	880.6
77.5°	1073.5	419.3	276.8	377.4	419.3	570.3	486.4	587.1	662.6	679.3	637.4
80°	620.6	234.8	184.5	243.2	268.4	469.7	285.1	352.2	469.7	494.8	444.5
82.5°	260.0	117.4	125.8	151.0	159.3	260.0	201.3	226.4	310.3	301.9	268.4
85°	75.5	75.5	83.9	92.3	92.3	151.0	142.6	134.2	142.6	142.6	117.4
87.5°	50.3	50.3	50.3	58.7	58.7	67.1	75.5	83.9	83.9	83.9	75.5
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°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	4252.1	4176.6	4067.6	4050.8	3992.1	3950.1	3992.1	4034.0	4109.5	4117.9	4151.4
5°	3899.8	3723.7	3589.5	3438.6	3363.1	3354.7	3337.9	3388.2	3497.3	3564.4	3614.7
7.5°	3665.0	3346.3	3111.5	2901.8	2826.3	2767.6	2817.9	2809.6	2952.1	3010.8	3061.2
10°	3539.2	3094.7	2742.5	2482.5	2381.8	2323.1	2314.7	2331.5	2415.4	2474.1	2532.8
12.5°	3623.1	2994.1	2474.1	2172.2	2063.1	1996.0	1937.3	1937.3	1954.1	2029.6	2054.7
15°	3899.8	3052.8	2348.3	2021.2	1878.6	1769.6	1694.1	1635.4	1643.8	1652.2	1677.3
17.5°	4302.4	3203.7	2306.3	1928.9	1778.0	1643.8	1568.3	1501.2	1484.5	1484.5	1476.1
20°	4688.2	3321.1	2272.8	1853.5	1660.6	1543.2	1476.1	1417.4	1392.2	1392.2	1392.2
22.5°	4847.5	3421.8	2230.9	1761.2	1543.2	1434.1	1375.4	1333.5	1325.1	1325.1	1316.7
25°	4721.7	3388.2	2180.5	1669.0	1434.1	1350.3	1299.9	1258.0	1249.6	1258.0	1249.6
27.5°	4327.6	3270.8	2113.5	1593.5	1350.3	1274.8	1232.8	1190.9	1182.5	1190.9	1190.9
30°	3908.2	3069.5	2004.4	1534.8	1283.2	1199.3	1157.4	1115.4	1115.4	1123.8	1132.2
32.5°	3572.7	2868.3	1878.6	1459.3	1207.7	1132.2	1090.3	1048.3	1048.3	1065.1	1065.1
35°	3287.6	2708.9	1752.8	1383.8	1140.6	1056.7	1023.2	989.6	981.2	998.0	1006.4
37.5°	3061.2	2566.3	1618.6	1308.3	1073.5	998.0	964.5	922.5	914.2	930.9	947.7
40°	2826.3	2407.0	1501.2	1216.1	1006.4	930.9	897.4	847.1	847.1	863.8	880.6
42.5°	2599.9	2264.4	1425.7	1132.2	939.3	855.4	821.9	780.0	780.0	796.7	813.5
45°	2415.4	2130.2	1383.8	1048.3	863.8	788.4	746.4	712.9	721.3	738.0	754.8
47.5°	2239.3	1987.7	1392.2	1006.4	813.5	712.9	670.9	645.8	662.6	687.7	704.5
50°	2105.1	1887.0	1400.6	939.3	746.4	654.2	612.2	595.5	620.6	645.8	662.6
52.5°	2021.2	1786.4	1350.3	855.4	696.1	595.5	570.3	570.3	595.5	612.2	629.0
55°	1937.3	1618.6	1241.2	763.2	645.8	553.5	536.8	536.8	561.9	578.7	587.1
57.5°	1870.2	1442.5	1115.4	687.7	587.1	511.6	511.6	511.6	520.0	528.4	545.1
60°	1744.4	1258.0	956.1	629.0	528.4	478.0	469.7	469.7	461.3	469.7	494.8
62.5°	1526.4	1056.7	813.5	561.9	478.0	436.1	427.7	402.6	377.4	385.8	402.6
65°	*1291.6*	*838.7*	*679.3*	*486.4*	*410.9*	*385.8*	*377.4*	*335.5*	*301.9*	*310.3*	*335.5*
67.5°	1031.6	629.0	570.3	419.3	352.2	327.1	327.1	301.9	276.8	276.8	293.5
70°	805.1	528.4	427.7	335.5	276.8	276.8	293.5	268.4	234.8	234.8	260.0
72.5°	654.2	427.7	343.9	260.0	218.1	234.8	243.2	218.1	192.9	192.9	209.7
75°	511.6	335.5	268.4	192.9	167.7	176.1	192.9	176.1	151.0	159.3	167.7
77.5°	352.2	226.4	176.1	142.6	125.8	134.2	134.2	125.8	117.4	117.4	125.8
80°	234.8	151.0	117.4	100.6	92.3	92.3	83.9	83.9	92.3	92.3	100.6
82.5°	167.7	109.0	92.3	75.5	58.7	58.7	67.1	67.1	75.5	75.5	83.9
85°	100.6	75.5	67.1	50.3	41.9	50.3	50.3	58.7	67.1	67.1	75.5
87.5°	75.5	58.7	50.3	41.9	33.5	33.5	41.9	41.9	50.3	58.7	58.7
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: P1365361
CATALOG NUMBER: GSS-SB5C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	4235.3	4335.9	4478.5	4604.3	4755.3	4906.2	5048.8	5183.0	5191.4	5199.8
5°	3774.0	3975.3	4210.1	4495.3	4797.2	5090.7	5401.1	5652.7	5711.4	5744.9
7.5°	3262.4	3556.0	3916.6	4319.2	4772.0	5224.9	5661.0	6038.4	6181.0	6214.6
10°	2725.7	3086.3	3522.4	4042.4	4654.6	5258.5	5845.5	6306.8	6474.6	6508.1
12.5°	2247.6	2541.2	3044.4	3673.4	4411.4	5208.2	5912.6	6424.2	6592.0	6633.9
15°	1836.7	2113.5	2583.1	3245.7	4075.9	5032.0	5862.3	6449.4	6617.1	6650.7
17.5°	1518.0	1694.1	2121.8	2843.1	3774.0	4805.6	5795.2	6466.2	6625.5	6650.7
20°	1392.2	1425.7	1652.2	2356.7	3455.3	4637.9	5753.3	6491.3	6650.7	6675.8
22.5°	1333.5	1333.5	1383.8	1794.8	3010.8	4461.7	5736.5	6566.8	6684.2	6709.4
25°	1274.8	1274.8	1291.6	1409.0	2482.5	4243.7	5770.1	6701.0	6776.5	6776.5
27.5°	1216.1	1216.1	1232.8	1258.0	1845.1	3883.1	5778.5	6852.0	6885.5	6860.3
30°	1157.4	1174.1	1174.1	1190.9	1358.6	3430.2	5728.1	7019.7	7019.7	6969.4
32.5°	1098.7	1107.0	1123.8	1132.2	1182.5	2843.1	5644.3	7229.4	7187.4	7120.3
35°	1048.3	1056.7	1056.7	1073.5	1123.8	2272.8	5552.0	7514.5	7397.1	7321.6
37.5°	981.2	989.6	998.0	1014.8	1065.1	1803.1	5417.8	7757.7	7673.9	7573.2
40°	922.5	930.9	939.3	956.1	1006.4	1551.5	5250.1	8126.7	8110.0	7992.5
42.5°	855.4	872.2	880.6	889.0	956.1	1417.4	5132.7	8722.2	8722.2	8579.6
45°	796.7	813.5	813.5	830.3	922.5	1299.9	5392.7	9544.1	9611.2	9477.0
47.5°	746.4	754.8	754.8	763.2	872.2	1199.3	6088.8	10802.1	10718.2	10626.0
50°	696.1	712.9	696.1	704.5	830.3	1258.0	7237.7	12412.4	12630.4	12471.1
52.5°	662.6	670.9	637.4	637.4	771.6	1333.5	8177.1	14467.1	15196.7	15003.9
55°	620.6	629.0	587.1	587.1	679.3	1157.4	8235.8	16807.0	18408.9	18534.7
57.5°	578.7	578.7	545.1	536.8	587.1	939.3	7304.8	18618.5	22250.0	22535.1
60°	528.4	520.0	503.2	486.4	536.8	863.8	5568.8	18375.3	24153.8	25143.4
62.5°	452.9	469.7	461.3	427.7	486.4	805.1	3631.5	15901.2	22006.8	22879.0
65°	*377.4*	*402.6*	*402.6*	*377.4*	*536.8*	*704.5*	*1912.2*	*12731.0*	*18366.9*	*19415.3*
67.5°	335.5	352.2	343.9	327.1	478.0	444.5	922.5	9762.1	15725.1	16731.5
70°	293.5	310.3	285.1	268.4	385.8	318.7	545.1	6533.3	12982.7	13963.9
72.5°	243.2	260.0	234.8	209.7	285.1	243.2	360.6	4252.1	10810.5	11900.8
75°	201.3	209.7	192.9	167.7	209.7	192.9	251.6	2776.0	9040.9	9846.0
77.5°	142.6	159.3	151.0	125.8	151.0	134.2	176.1	1585.1	6306.8	6910.7
80°	109.0	109.0	109.0	100.6	92.3	92.3	117.4	712.9	3061.2	3405.0
82.5°	92.3	92.3	83.9	75.5	67.1	58.7	67.1	209.7	1442.5	1526.4
85°	83.9	67.1	58.7	50.3	41.9	25.2	25.2	58.7	293.5	243.2
87.5°	50.3	41.9	33.5	16.8	8.4	8.4	0.0	8.4	8.4	8.4
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

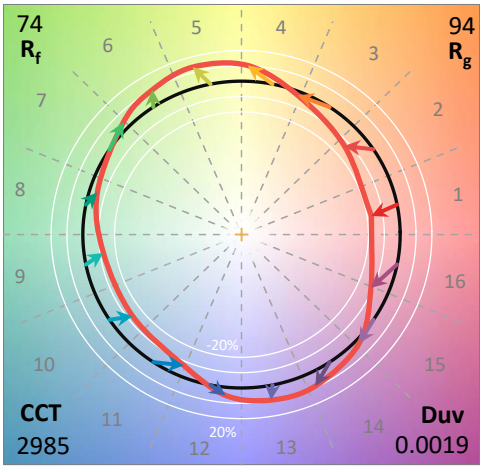
Test Information

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

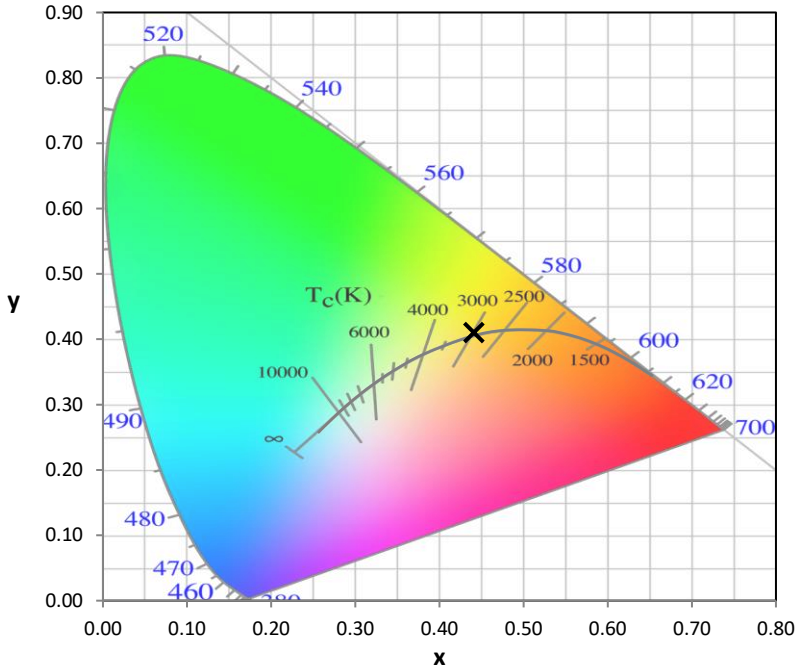
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

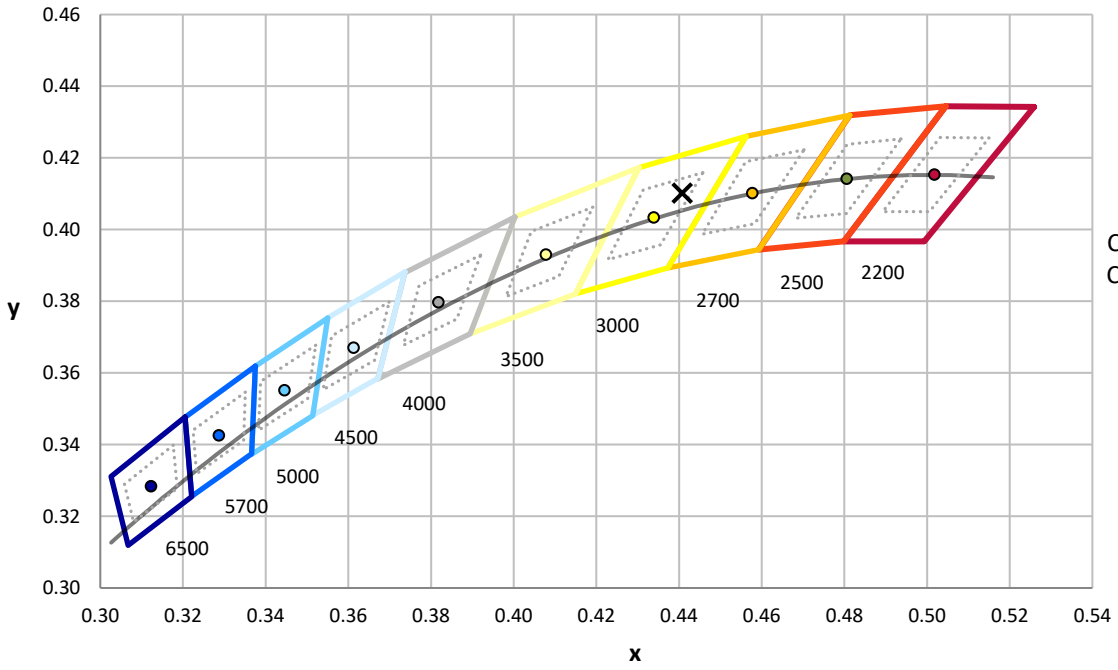
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

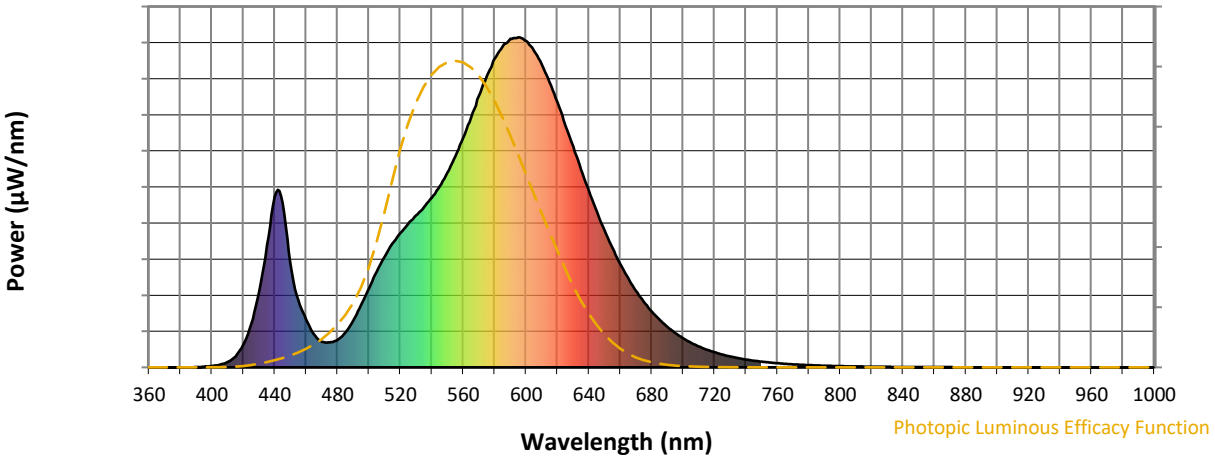


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

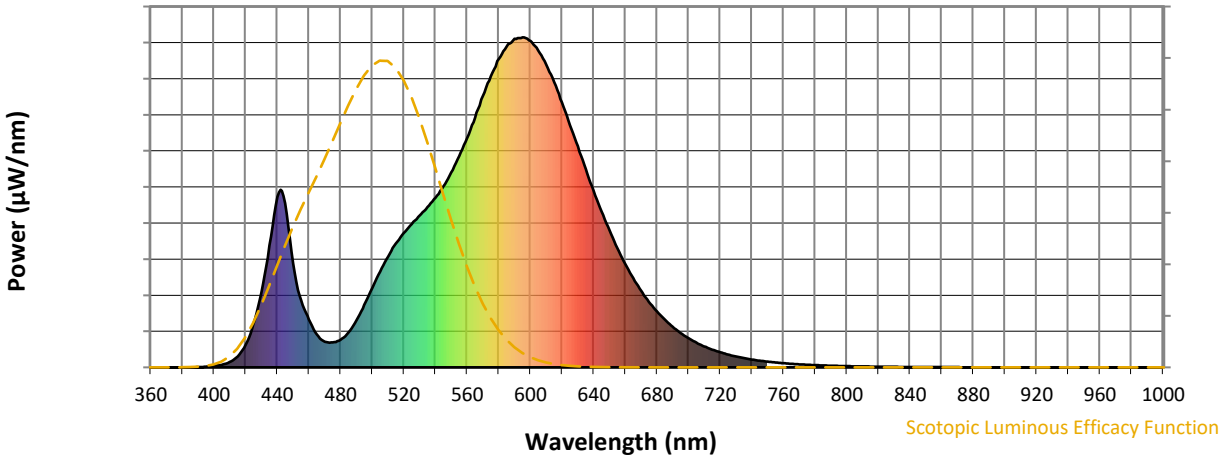


Photopic Lumens: NR

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

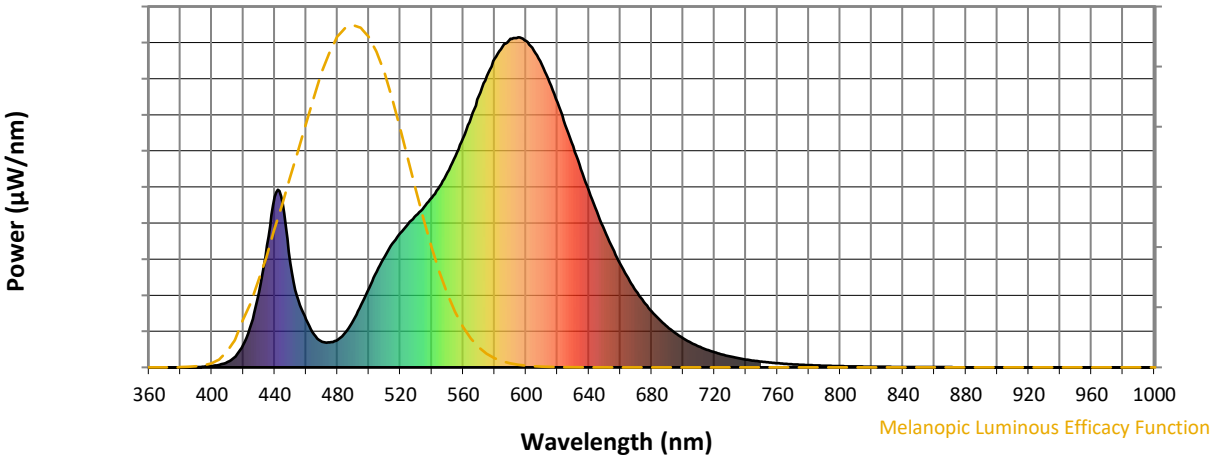


Scotopic Lumens: NR **S/P: 1.19**

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			

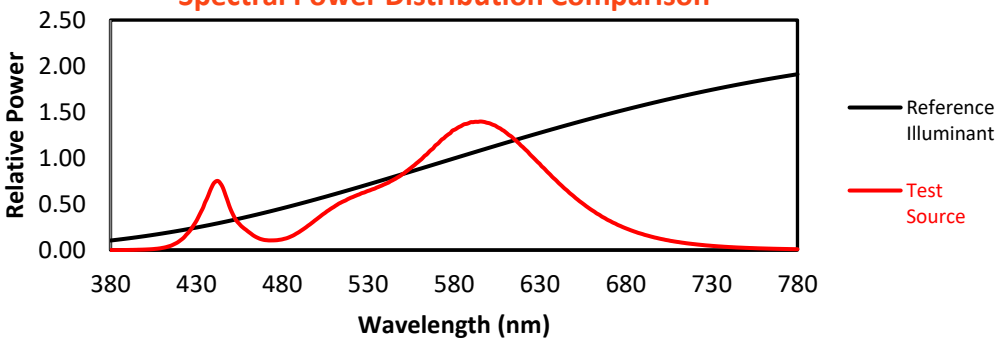
REPORT NUMBER: SP1-2407-184-4

TM-30-18

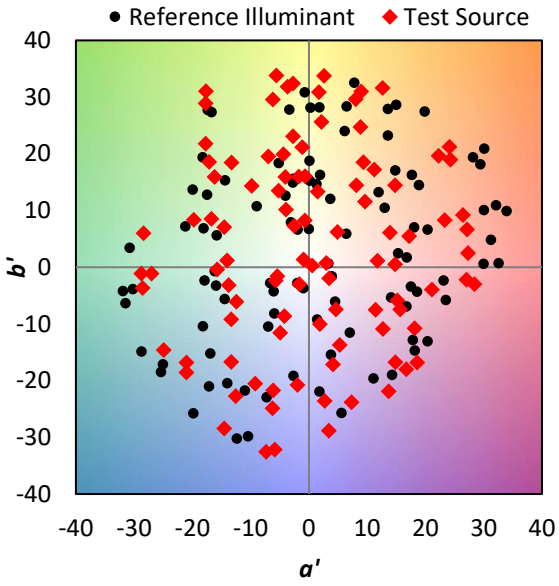
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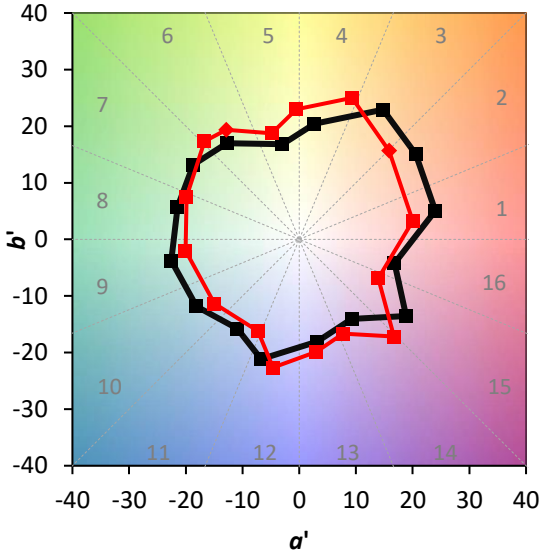
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

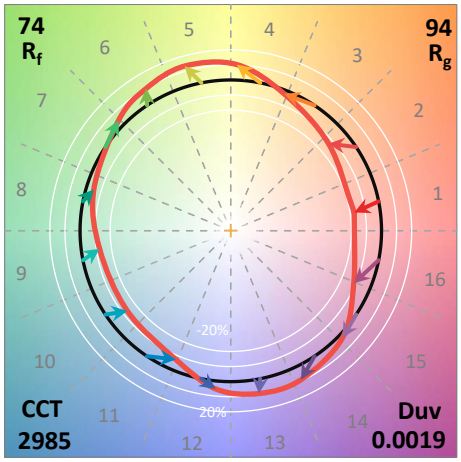
Spectral Power Distribution Comparison

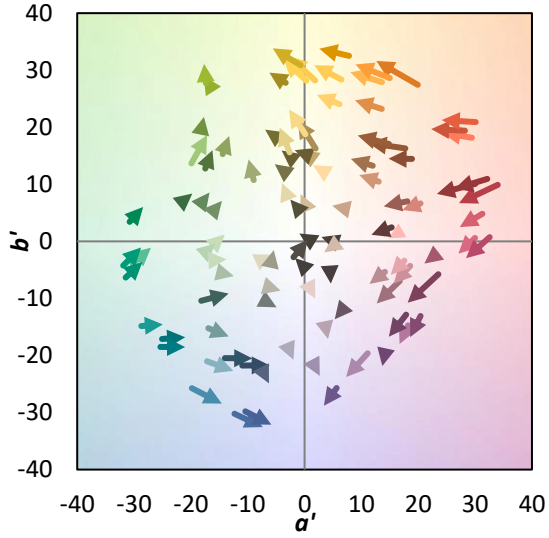


Color Vector Graphics







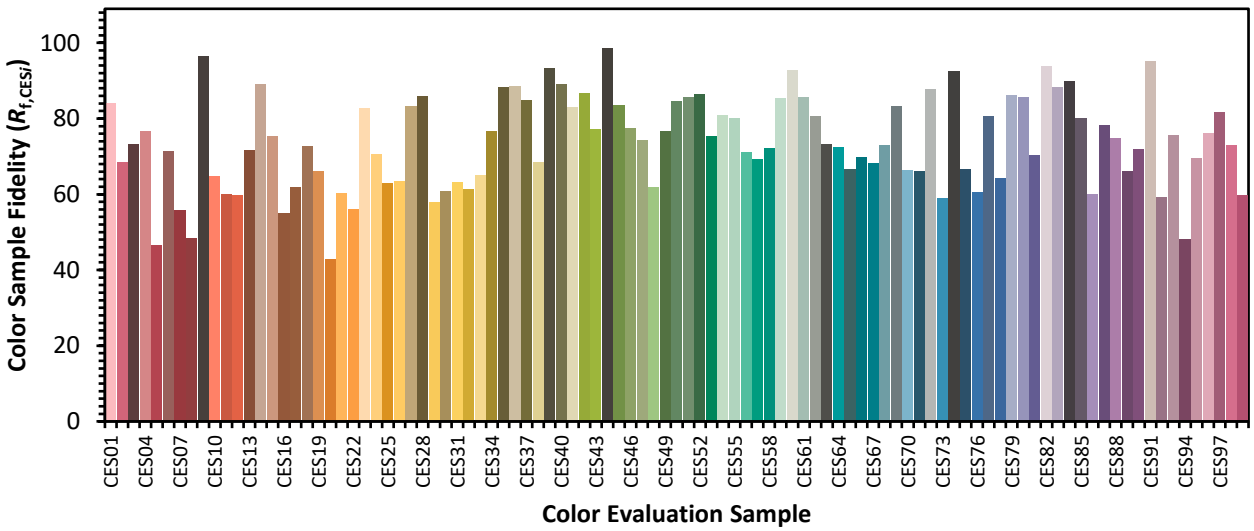


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Individual Sample Fidelity Index ($R_{f,i}$)

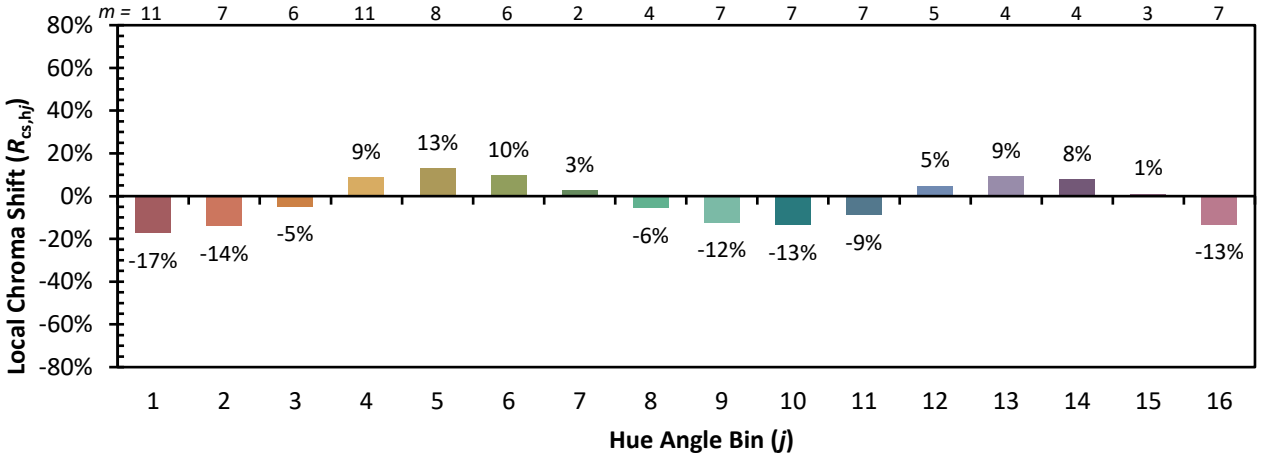
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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	

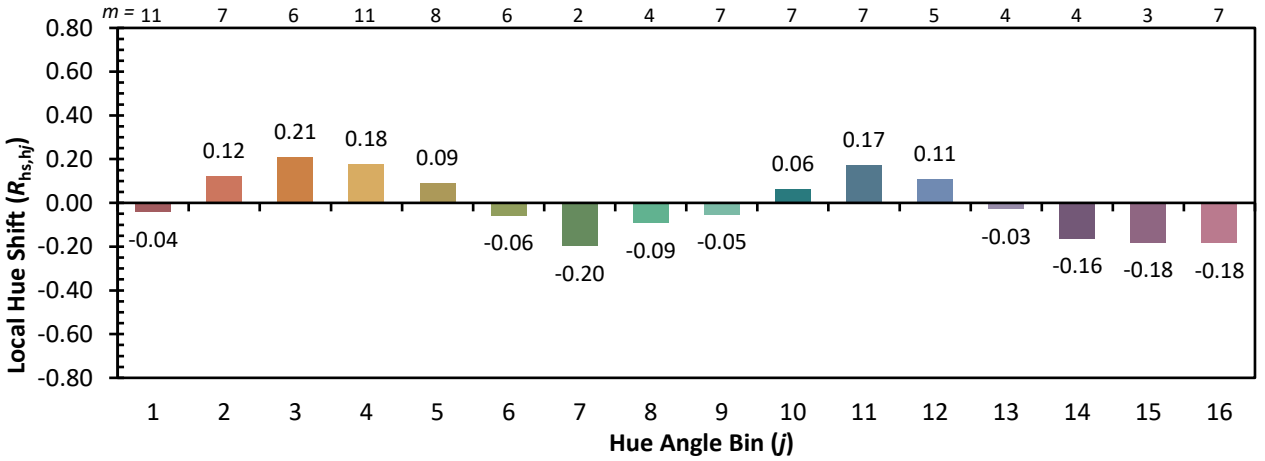


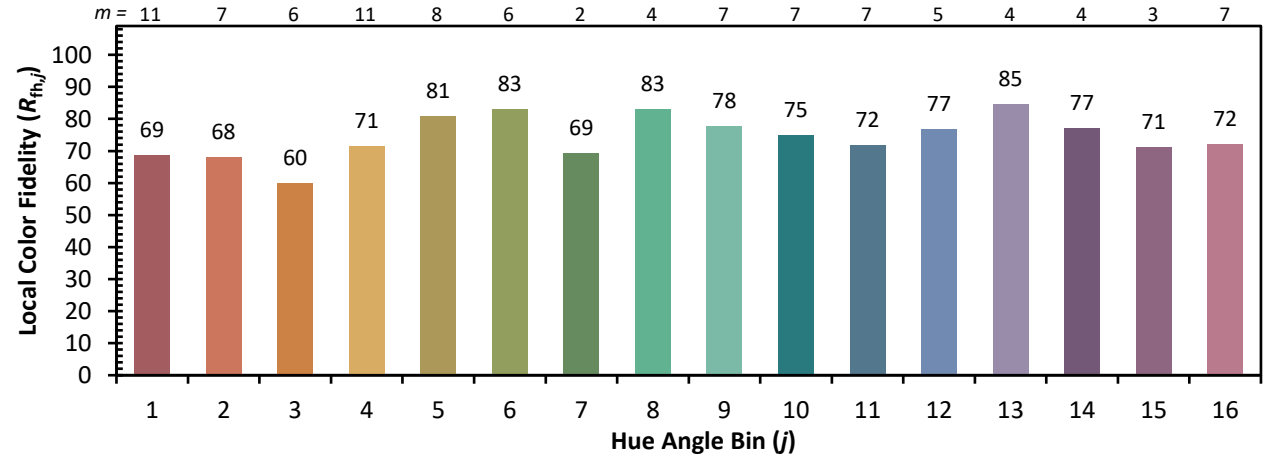
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Color Rendition by Hue-Angle Bin



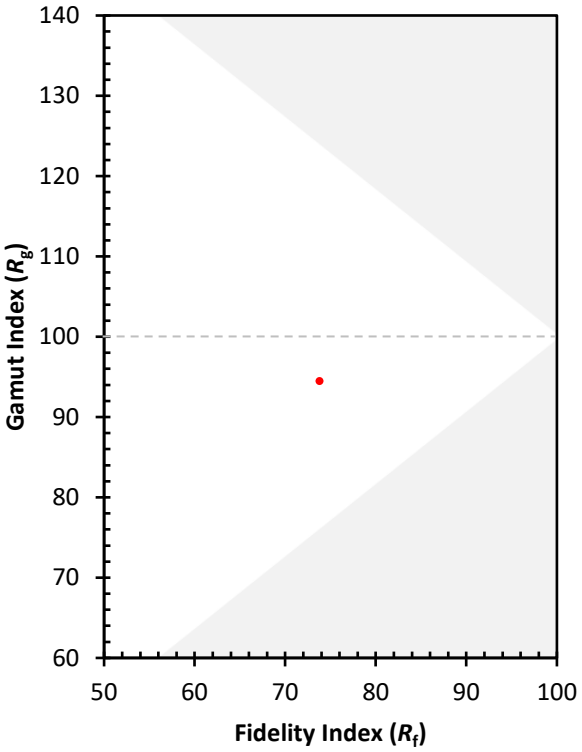


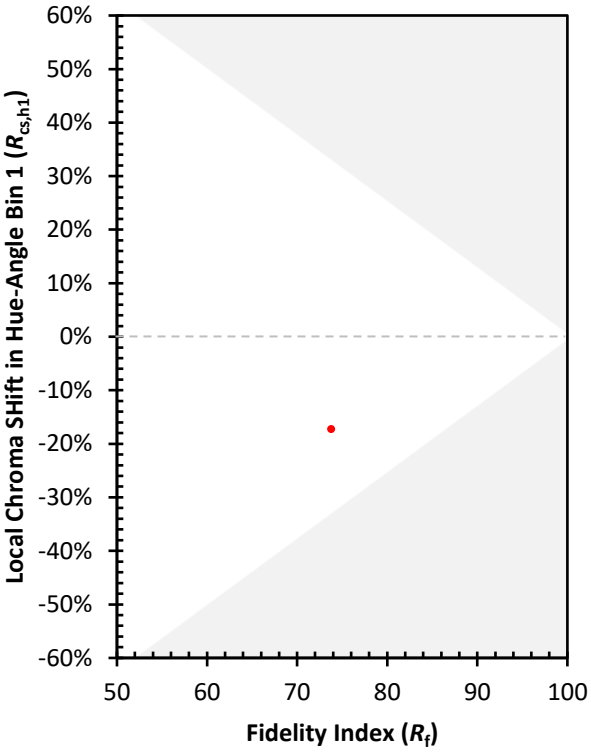


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Measure Comparisons





(END OF REPORT)