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: P1364596

Luminaire Tested: **GSS-SB6B-730-U-SLR-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:	P1364596
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6B-730-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 3000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(156) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24865.7 lumens
Efficiency:	N/A
Efficacy:	113.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

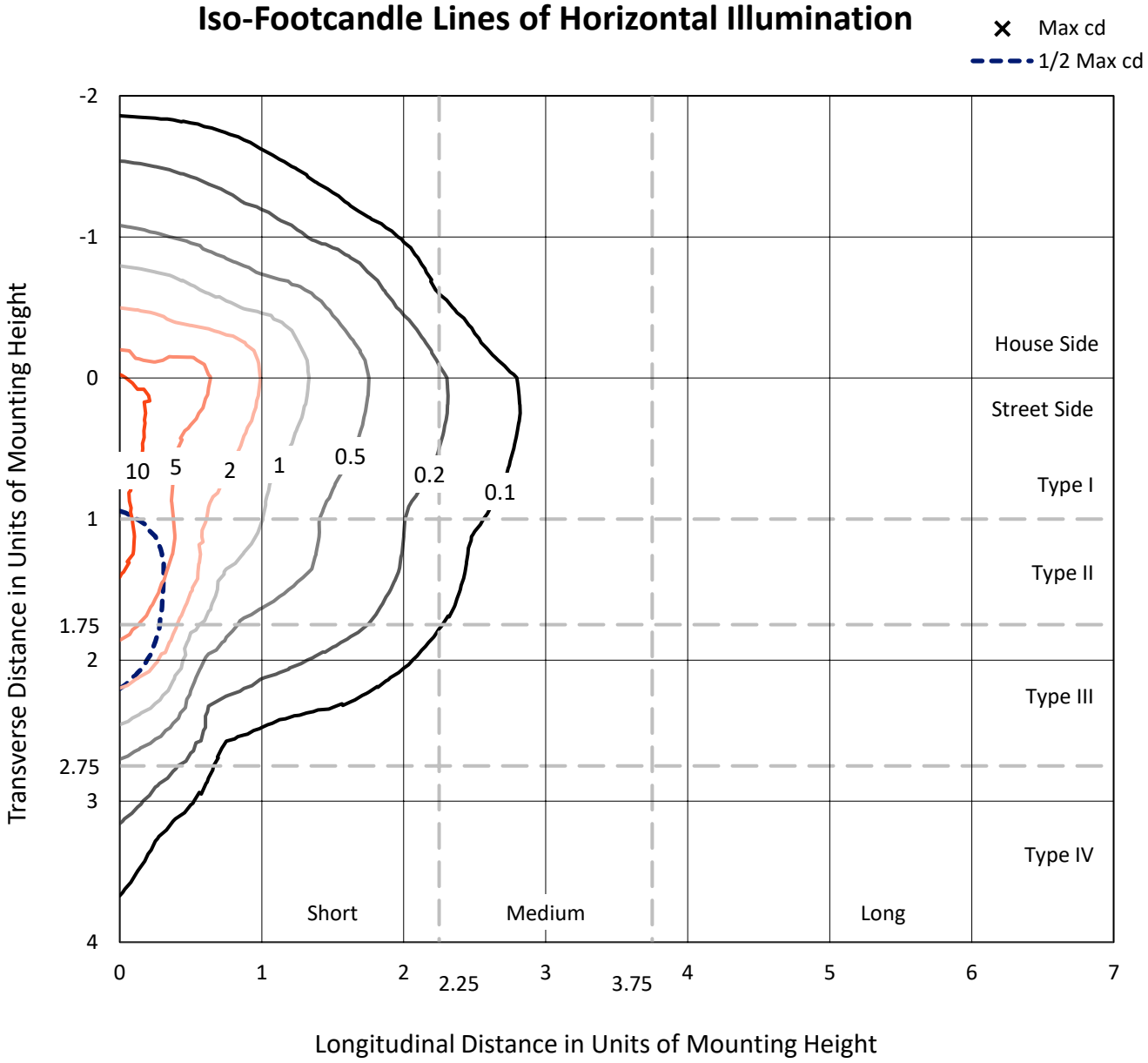
Input Watts (W):	219
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



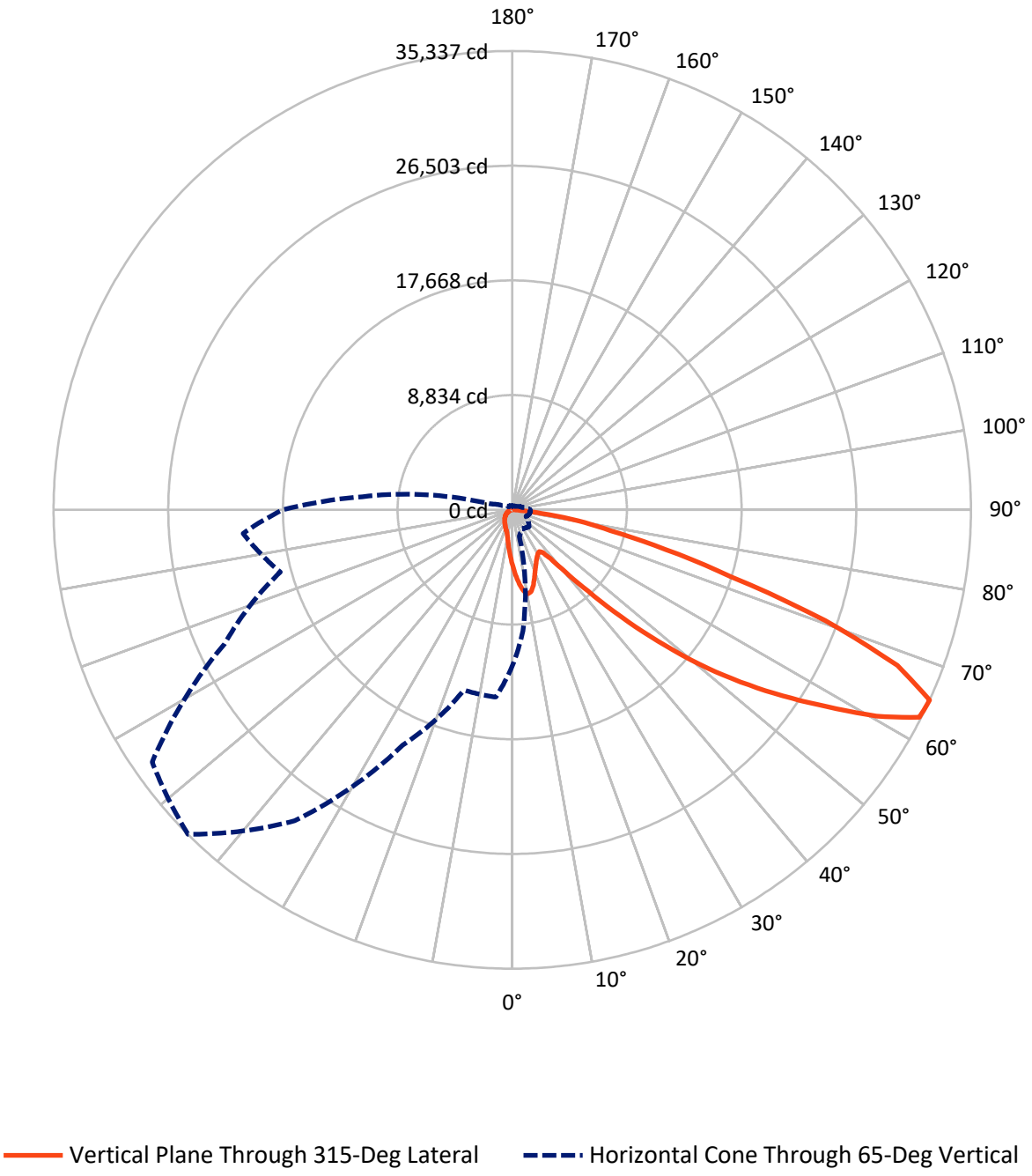
Based on 20 foot mounting height. Maximum calculated value = 13.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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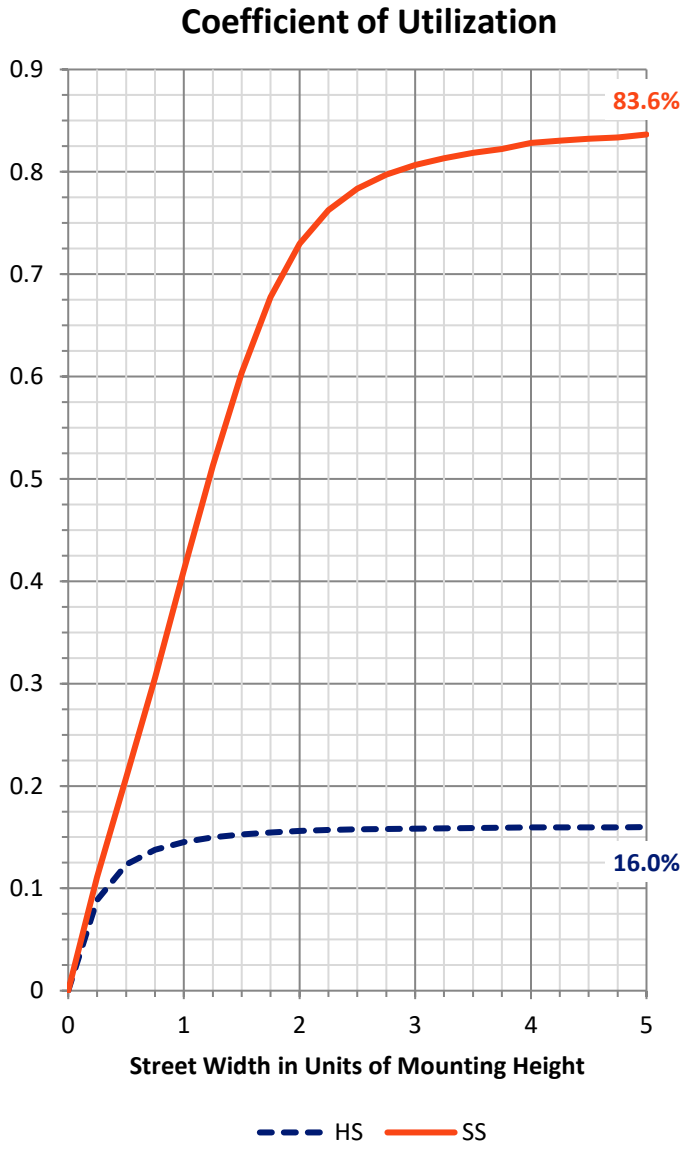
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.6	0.0	4019.6
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	20846.0	0.0	20846.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	24865.7	0.0	24865.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	1.7
10°-20°	1142.6	4.6
20°-30°	1636.5	6.6
30°-40°	2052.6	8.3
40°-50°	3371.8	13.6
50°-60°	6084.7	24.5
60°-70°	6752.7	27.2
70°-80°	3050.9	12.3
80°-90°	360.7	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°	24865.7	100.0
0°-180°	24865.7	100.0



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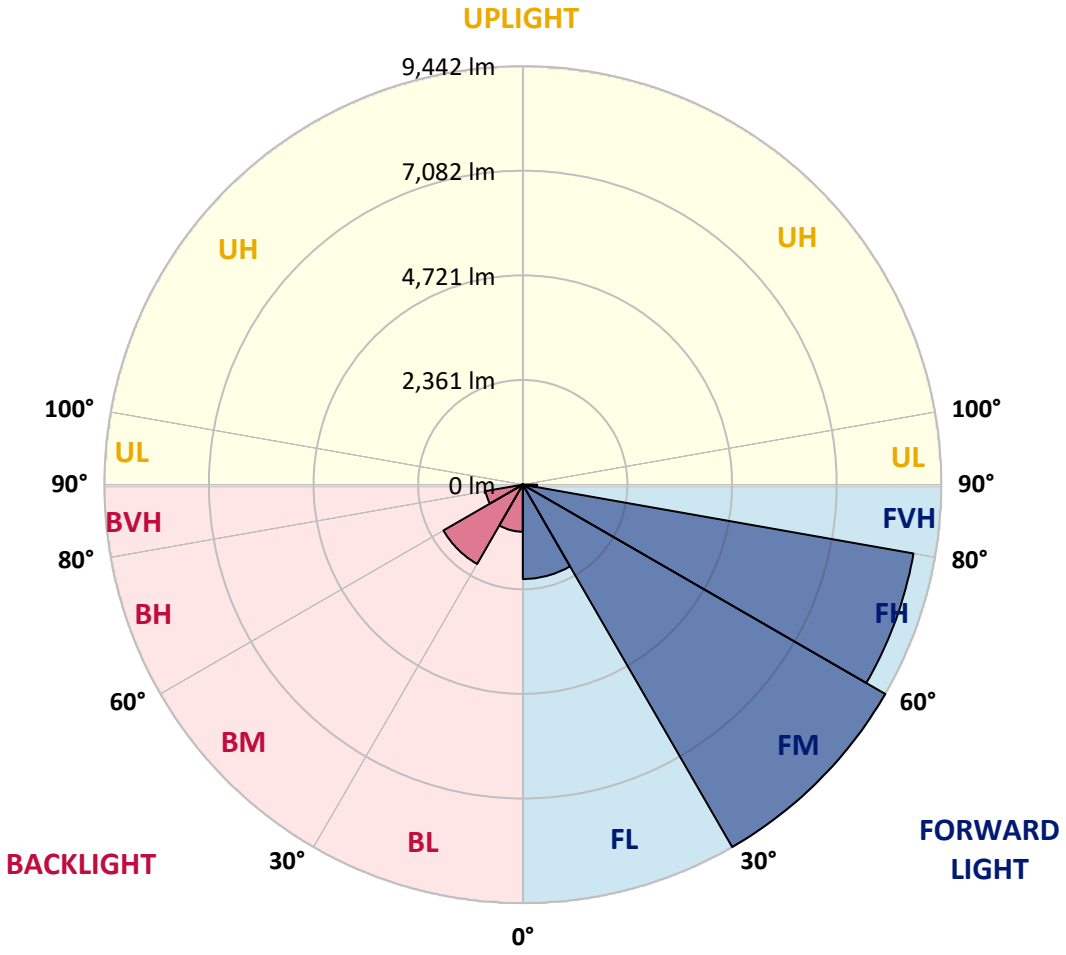
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2130.0	8.6			
FM	(30°-60°)	9442.2	38.0			
FH	(60°-80°)	8950.0	36.0			G4/12000
FVH	(80°-90°)	323.8	1.3			G3/500
BL	(0°-30°)	1062.2	4.3	B3/2500		
BM	(30°-60°)	2066.9	8.3	B2/2500		
BH	(60°-80°)	853.6	3.4	B2/1000		G2/1000
BVH	(80°-90°)	36.9	0.1			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°	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8
2.5°	4848.5	4843.9	4825.6	4711.1	4596.5	4497.3	4398.0	4298.8	4161.3	4054.4	3962.8
5°	5306.6	5282.2	5184.5	5008.9	4818.0	4650.0	4459.1	4275.9	4069.7	3901.7	3726.1
7.5°	5619.7	5595.3	5497.5	5207.4	4917.2	4711.1	4504.9	4314.0	4085.0	3863.5	3611.6
10°	5764.8	5737.3	5627.3	5314.3	4978.3	4726.3	4520.2	4344.6	4153.7	3932.3	3619.2
12.5°	5864.0	5830.4	5696.0	5337.2	4993.6	4741.6	4527.8	4359.8	4222.4	4092.6	3787.2
15°	5925.1	5894.6	5772.4	5398.3	5001.2	4718.7	4466.7	4306.4	4260.6	4283.5	4138.4
17.5°	6016.7	5987.7	5871.7	5474.6	5047.0	4680.5	4336.9	4161.3	4260.6	4466.7	4512.6
20°	6138.9	6108.4	5986.2	5573.9	5085.2	4566.0	4092.6	3924.6	4176.6	4520.2	4756.9
22.5°	6276.3	6251.9	6154.2	5688.4	5123.4	4398.0	3771.9	3695.6	4001.0	4367.5	4672.9
25°	6444.3	6421.4	6329.8	5848.8	5161.6	4169.0	3497.0	3512.3	3771.9	4062.1	4375.1
27.5°	6673.4	6652.0	6566.5	6047.3	5207.4	3932.3	3275.6	3352.0	3542.9	3741.4	3932.3
30°	6925.4	6908.6	6841.4	6284.0	5299.0	3710.8	3145.8	3191.6	3321.4	3481.8	3596.3
32.5°	7269.0	7241.5	7131.5	6505.4	5291.4	3542.9	3084.7	3038.9	3077.1	3206.9	3321.4
35°	7696.5	7675.2	7589.6	6734.5	5153.9	3390.1	3054.2	2893.8	2870.9	2947.3	3061.8
37.5°	8322.6	8304.3	8231.0	7108.6	4940.1	3199.3	2977.8	2741.1	2664.8	2718.2	2794.6
40°	9261.8	9214.5	9025.1	7536.2	4703.4	3008.4	2840.4	2557.9	2451.0	2489.2	2573.1
42.5°	10536.9	10446.8	10086.4	8108.9	4382.8	2825.1	2634.2	2374.6	2260.1	2283.0	2359.4
45°	12170.9	12035.0	11491.4	8895.3	4046.8	2680.0	2420.4	2183.7	2061.6	2084.5	2168.5
47.5°	14079.8	13893.5	13148.3	9719.9	3687.9	2596.1	2252.5	1992.9	1901.2	1954.7	2038.7
50°	16332.2	16144.4	15393.1	10246.8	3397.8	2542.6	2122.7	1817.2	1779.1	1847.8	1916.5
52.5°	18790.9	18523.6	17454.6	9910.8	3161.1	2496.8	2076.8	1695.1	1710.3	1763.8	1832.5
55°	21180.8	20586.7	18210.6	8796.0	2855.7	2443.3	2107.4	1603.4	1641.6	1710.3	1763.8
57.5°	22738.4	21706.1	17576.8	7085.7	2535.0	2382.3	2130.3	1557.6	1588.2	1664.5	1725.6
60°	21379.3	20340.9	16187.2	5306.6	2260.1	2252.5	2092.1	1542.4	1496.5	1603.4	1656.9
62.5°	17515.7	16660.6	13239.9	3390.1	2000.5	2008.1	2008.1	1534.7	1343.8	1481.3	1527.1
65°	*12033.5*	*11499.0*	*9361.1*	*2099.7*	*1634.0*	*1710.3*	*1824.9*	*1488.9*	*1183.5*	*1343.8*	*1389.7*
67.5°	7910.3	7517.9	5948.0	1298.0	1259.8	1404.9	1580.5	1397.3	1061.3	1206.4	1236.9
70°	4291.1	3993.3	2802.2	855.2	824.6	1099.5	1244.6	1183.5	954.4	1076.6	1107.1
72.5°	2832.8	2588.4	1611.1	603.2	603.2	862.8	870.4	969.7	855.2	954.4	985.0
75°	2130.3	1911.9	1038.4	419.9	465.8	549.8	679.6	694.8	717.7	809.4	847.5
77.5°	977.3	858.2	381.8	252.0	343.6	381.8	519.2	442.9	534.5	603.2	618.5
80°	565.0	494.8	213.8	168.0	221.4	244.3	427.6	259.6	320.7	427.6	450.5
82.5°	236.7	210.7	106.9	114.5	137.4	145.1	236.7	183.3	206.2	282.5	274.9
85°	68.7	68.7	68.7	76.4	84.0	84.0	137.4	129.8	122.2	129.8	129.8
87.5°	45.8	45.8	45.8	45.8	53.4	53.4	61.1	68.7	76.4	76.4	76.4
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°	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8
2.5°	3924.6	3871.2	3802.5	3703.2	3687.9	3634.5	3596.3	3634.5	3672.7	3741.4	3749.0
5°	3634.5	3550.5	3390.1	3268.0	3130.5	3061.8	3054.2	3038.9	3084.7	3184.0	3245.1
7.5°	3474.1	3336.7	3046.5	2832.8	2641.9	2573.1	2519.7	2565.5	2557.9	2687.7	2741.1
10°	3436.0	3222.2	2817.5	2496.8	2260.1	2168.5	2115.0	2107.4	2122.7	2199.0	2252.5
12.5°	3573.4	3298.5	2725.9	2252.5	1977.6	1878.3	1817.2	1763.8	1763.8	1779.1	1847.8
15°	3878.8	3550.5	2779.3	2137.9	1840.1	1710.3	1611.1	1542.4	1488.9	1496.5	1504.2
17.5°	4306.4	3917.0	2916.7	2099.7	1756.2	1618.7	1496.5	1427.8	1366.7	1351.5	1351.5
20°	4642.4	4268.2	3023.6	2069.2	1687.4	1511.8	1404.9	1343.8	1290.4	1267.5	1267.5
22.5°	4680.5	4413.3	3115.3	2031.0	1603.4	1404.9	1305.7	1252.2	1214.0	1206.4	1206.4
25°	4428.6	4298.8	3084.7	1985.2	1519.5	1305.7	1229.3	1183.5	1145.3	1137.7	1145.3
27.5°	4008.6	3939.9	2977.8	1924.1	1450.7	1229.3	1160.6	1122.4	1084.2	1076.6	1084.2
30°	3634.5	3558.1	2794.6	1824.9	1397.3	1168.2	1091.9	1053.7	1015.5	1015.5	1023.2
32.5°	3329.1	3252.7	2611.3	1710.3	1328.6	1099.5	1030.8	992.6	954.4	954.4	969.7
35°	3054.2	2993.1	2466.3	1595.8	1259.8	1038.4	962.1	931.5	901.0	893.3	908.6
37.5°	2817.5	2786.9	2336.4	1473.6	1191.1	977.3	908.6	878.1	839.9	832.3	847.5
40°	2588.4	2573.1	2191.4	1366.7	1107.1	916.3	847.5	817.0	771.2	771.2	786.5
42.5°	2374.6	2367.0	2061.6	1298.0	1030.8	855.2	778.8	748.3	710.1	710.1	725.4
45°	2206.6	2199.0	1939.4	1259.8	954.4	786.5	717.7	679.6	649.0	656.6	671.9
47.5°	2053.9	2038.7	1809.6	1267.5	916.3	740.6	649.0	610.8	587.9	603.2	626.1
50°	1931.8	1916.5	1718.0	1275.1	855.2	679.6	595.6	557.4	542.1	565.0	587.9
52.5°	1855.4	1840.1	1626.4	1229.3	778.8	633.7	542.1	519.2	519.2	542.1	557.4
55°	1779.1	1763.8	1473.6	1130.0	694.8	587.9	503.9	488.7	488.7	511.6	526.8
57.5°	1733.2	1702.7	1313.3	1015.5	626.1	534.5	465.8	465.8	465.8	473.4	481.0
60°	1664.5	1588.2	1145.3	870.4	572.7	481.0	435.2	427.6	427.6	419.9	427.6
62.5°	1519.5	1389.7	962.1	740.6	511.6	435.2	397.0	389.4	366.5	343.6	351.2
65°	*1374.4*	*1175.9*	*763.5*	*618.5*	*442.9*	*374.1*	*351.2*	*343.6*	*305.4*	*274.9*	*282.5*
67.5°	1191.1	939.2	572.7	519.2	381.8	320.7	297.8	297.8	274.9	252.0	252.0
70°	1061.3	733.0	481.0	389.4	305.4	252.0	252.0	267.2	244.3	213.8	213.8
72.5°	939.2	595.6	389.4	313.1	236.7	198.5	213.8	221.4	198.5	175.6	175.6
75°	801.7	465.8	305.4	244.3	175.6	152.7	160.3	175.6	160.3	137.4	145.1
77.5°	580.3	320.7	206.2	160.3	129.8	114.5	122.2	122.2	114.5	106.9	106.9
80°	404.7	213.8	137.4	106.9	91.6	84.0	84.0	76.4	76.4	84.0	84.0
82.5°	244.3	152.7	99.3	84.0	68.7	53.4	53.4	61.1	61.1	68.7	68.7
85°	106.9	91.6	68.7	61.1	45.8	38.2	45.8	45.8	53.4	61.1	61.1
87.5°	68.7	68.7	53.4	45.8	38.2	30.5	30.5	38.2	38.2	45.8	53.4
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°	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8
2.5°	3779.5	3855.9	3947.5	4077.3	4191.9	4329.3	4466.7	4596.5	4718.7	4734.0	4787.4
5°	3290.9	3436.0	3619.2	3833.0	4092.6	4367.5	4634.7	4917.2	5146.3	5230.3	5352.5
7.5°	2786.9	2970.2	3237.4	3565.8	3932.3	4344.6	4756.9	5153.9	5497.5	5657.9	5818.2
10°	2305.9	2481.5	2809.8	3206.9	3680.3	4237.7	4787.4	5321.9	5741.9	5925.1	6077.8
12.5°	1870.7	2046.3	2313.5	2771.7	3344.3	4016.2	4741.6	5383.0	5848.8	6039.6	6184.7
15°	1527.1	1672.2	1924.1	2351.7	2954.9	3710.8	4581.3	5337.2	5871.7	6054.9	6161.8
17.5°	1343.8	1382.0	1542.4	1931.8	2588.4	3436.0	4375.1	5276.1	5886.9	6054.9	6116.0
20°	1267.5	1267.5	1298.0	1504.2	2145.6	3145.8	4222.4	5237.9	5909.8	6077.8	6070.2
22.5°	1198.8	1214.0	1214.0	1259.8	1634.0	2741.1	4062.1	5222.7	5978.6	6108.4	6001.5
25°	1137.7	1160.6	1160.6	1175.9	1282.8	2260.1	3863.5	5253.2	6100.7	6169.4	5955.7
27.5°	1084.2	1107.1	1107.1	1122.4	1145.3	1679.8	3535.2	5260.8	6238.2	6245.8	5894.6
30°	1030.8	1053.7	1069.0	1069.0	1084.2	1236.9	3122.9	5215.0	6390.9	6345.1	5886.9
32.5°	969.7	1000.2	1007.9	1023.2	1030.8	1076.6	2588.4	5138.7	6581.8	6482.5	5894.6
35°	916.3	954.4	962.1	962.1	977.3	1023.2	2069.2	5054.7	6841.4	6665.8	5925.1
37.5°	862.8	893.3	901.0	908.6	923.9	969.7	1641.6	4932.5	7062.8	6894.8	6077.8
40°	801.7	839.9	847.5	855.2	870.4	916.3	1412.6	4779.8	7398.8	7276.6	6306.9
42.5°	740.6	778.8	794.1	801.7	809.4	870.4	1290.4	4672.9	7940.9	7811.1	6772.6
45°	687.2	725.4	740.6	740.6	755.9	839.9	1183.5	4909.6	8689.1	8628.1	7398.8
47.5°	641.4	679.6	687.2	687.2	694.8	794.1	1091.9	5543.3	9834.5	9674.1	8376.1
50°	603.2	633.7	649.0	633.7	641.4	755.9	1145.3	6589.4	11300.5	11353.9	9811.6
52.5°	572.7	603.2	610.8	580.3	580.3	702.5	1214.0	7444.6	13171.2	13659.8	12086.9
55°	534.5	565.0	572.7	534.5	534.5	618.5	1053.7	7498.0	15301.5	16874.4	15049.5
57.5°	496.3	526.8	526.8	496.3	488.7	534.5	855.2	6650.5	16950.7	20516.5	19103.9
60°	450.5	481.0	473.4	458.1	442.9	488.7	786.5	5069.9	16729.3	22891.1	23753.9
62.5°	366.5	412.3	427.6	419.9	389.4	442.9	733.0	3306.2	14476.8	20829.5	23608.8
65°	*305.4*	*343.6*	*366.5*	*366.5*	*343.6*	*488.7*	*641.4*	*1740.9*	*11590.6*	*17676.1*	*20814.2*
67.5°	267.2	305.4	320.7	313.1	297.8	435.2	404.7	839.9	8887.7	15232.7	18630.5
70°	236.7	267.2	282.5	259.6	244.3	351.2	290.1	496.3	5948.0	12713.0	16591.8
72.5°	190.9	221.4	236.7	213.8	190.9	259.6	221.4	328.3	3871.2	10834.7	14744.1
75°	152.7	183.3	190.9	175.6	152.7	190.9	175.6	229.1	2527.3	8964.0	12537.4
77.5°	114.5	129.8	145.1	137.4	114.5	137.4	122.2	160.3	1443.1	6291.6	8796.0
80°	91.6	99.3	99.3	99.3	91.6	84.0	84.0	106.9	649.0	3100.0	4588.9
82.5°	76.4	84.0	84.0	76.4	68.7	61.1	53.4	61.1	190.9	1389.7	2115.0
85°	68.7	76.4	61.1	53.4	45.8	38.2	22.9	22.9	53.4	221.4	412.3
87.5°	53.4	45.8	38.2	30.5	15.3	7.6	7.6	0.0	7.6	7.6	7.6
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: P1364596
CATALOG NUMBER: GSS-SB6B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8	4298.8
2.5°	4871.4	4947.8	5001.2	5047.0	5031.8	4993.6	4917.2	4863.8	4851.6	4848.5
5°	5512.8	5635.0	5741.9	5726.6	5741.9	5627.3	5512.8	5375.4	5320.4	5306.6
7.5°	6047.3	6200.0	6329.8	6314.5	6268.7	6138.9	5948.0	5741.9	5644.1	5619.7
10°	6337.4	6513.0	6619.9	6581.8	6505.4	6337.4	6146.5	5902.2	5792.3	5764.8
12.5°	6390.9	6505.4	6482.5	6467.2	6452.0	6368.0	6222.9	6001.5	5891.5	5864.0
15°	6253.4	6207.6	6077.8	6047.3	6161.8	6268.7	6238.2	6054.9	5951.1	5925.1
17.5°	6024.4	5787.7	5551.0	5520.4	5711.3	6009.1	6245.8	6138.9	6041.2	6016.7
20°	5772.4	5329.5	5069.9	5016.5	5253.2	5696.0	6161.8	6222.9	6155.7	6138.9
22.5°	5474.6	4955.4	4680.5	4650.0	4825.6	5344.8	6039.6	6314.5	6284.0	6276.3
25°	5215.0	4627.1	4367.5	4321.7	4550.7	5054.7	5917.5	6467.2	6448.9	6444.3
27.5°	5001.2	4390.4	4115.5	4085.0	4306.4	4810.3	5764.8	6597.0	6658.1	6673.4
30°	4833.2	4214.8	3939.9	3901.7	4146.1	4642.4	5657.9	6780.3	6896.3	6925.4
32.5°	4703.4	4115.5	3855.9	3833.0	4092.6	4573.6	5596.8	6971.2	7209.4	7269.0
35°	4657.6	4146.1	3970.4	4023.9	4222.4	4642.4	5642.6	7284.2	7614.1	7696.5
37.5°	4756.9	4482.0	4604.2	4741.6	4818.0	4970.7	5856.4	7788.2	8215.7	8322.6
40°	5077.6	5383.0	5955.7	6222.9	6192.4	5841.1	6345.1	8498.3	9109.1	9261.8
42.5°	5894.6	6887.2	8101.2	8551.7	8292.1	7230.8	7123.9	9666.5	10362.8	10536.9
45°	7108.6	8704.4	10697.3	11712.8	10819.4	8994.6	8353.2	11331.0	12002.9	12170.9
47.5°	8322.6	10735.4	13904.2	15110.6	13354.4	10743.1	9964.3	13323.9	13928.6	14079.8
50°	9559.6	12980.3	17103.4	18714.5	15881.7	12522.1	11674.6	15782.5	16222.3	16332.2
52.5°	10834.7	14988.4	20631.0	22020.7	18523.6	13896.5	13629.3	18462.5	18725.2	18790.9
55°	12254.9	16889.6	24166.2	25288.6	20928.8	15095.3	15919.9	21264.7	21197.5	21180.8
57.5°	14148.5	18890.1	27014.2	28579.5	23112.5	16714.0	18981.7	24380.0	23066.7	22738.4
60°	17454.6	21997.7	30557.1	32259.8	26036.9	19081.0	21234.2	24311.3	21965.7	21379.3
62.5°	21287.6	24990.8	33764.0	35199.4	29114.0	21432.7	19439.9	20417.2	18096.0	17515.7
65°	18493.1	24464.0	33863.2	35336.9	29228.5	19997.3	14369.9	14476.8	12522.1	12033.5
67.5°	15736.7	21684.7	30839.6	32000.2	26075.1	16530.8	9529.0	9445.1	8217.3	7910.3
70°	14011.1	18997.0	26579.0	25578.8	21921.4	13972.9	6329.8	5245.6	4482.0	4291.1
72.5°	12590.9	15072.4	21539.6	17630.3	18187.7	11369.2	4023.9	3573.4	2980.9	2832.8
75°	11399.7	12468.7	13438.4	12186.2	12919.2	9368.7	3413.0	2756.4	2255.5	2130.3
77.5°	9070.9	9704.7	7956.1	7727.1	9048.0	6665.8	1695.1	1160.6	1014.0	977.3
80°	5398.3	4588.9	4512.6	5146.3	6024.4	3458.9	1038.4	641.4	580.3	565.0
82.5°	3268.0	1656.9	1802.0	2275.4	3206.9	1572.9	618.5	274.9	244.3	236.7
85°	549.8	450.5	694.8	664.3	626.1	336.0	168.0	76.4	70.2	68.7
87.5°	15.3	22.9	30.5	38.2	38.2	38.2	38.2	38.2	44.3	45.8
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

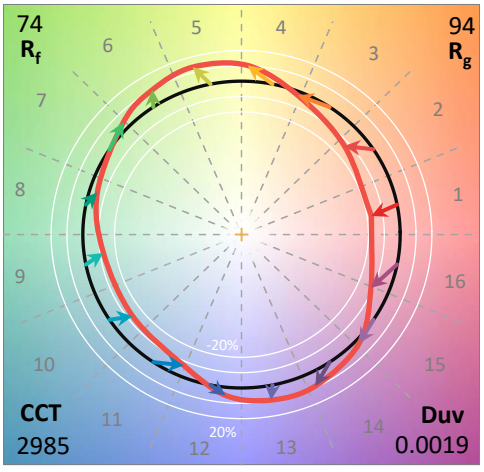
Test Information

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

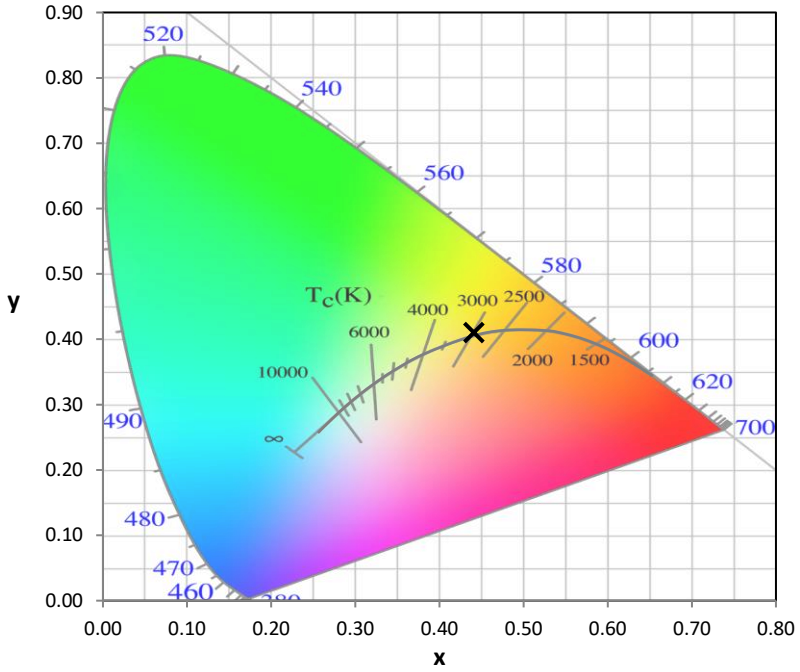
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

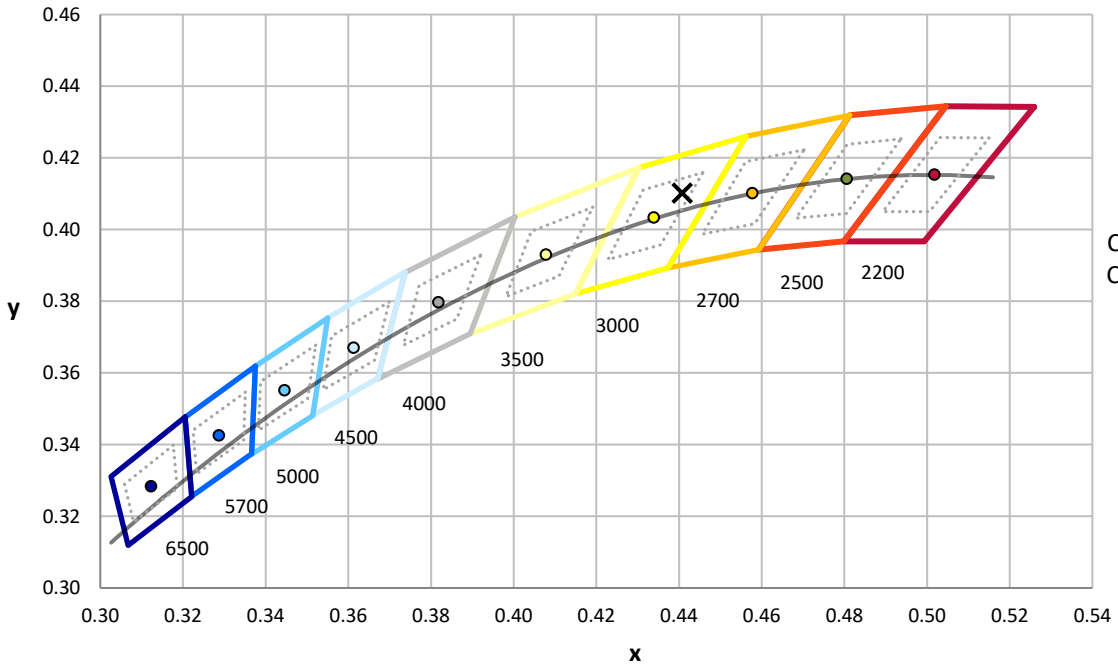
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

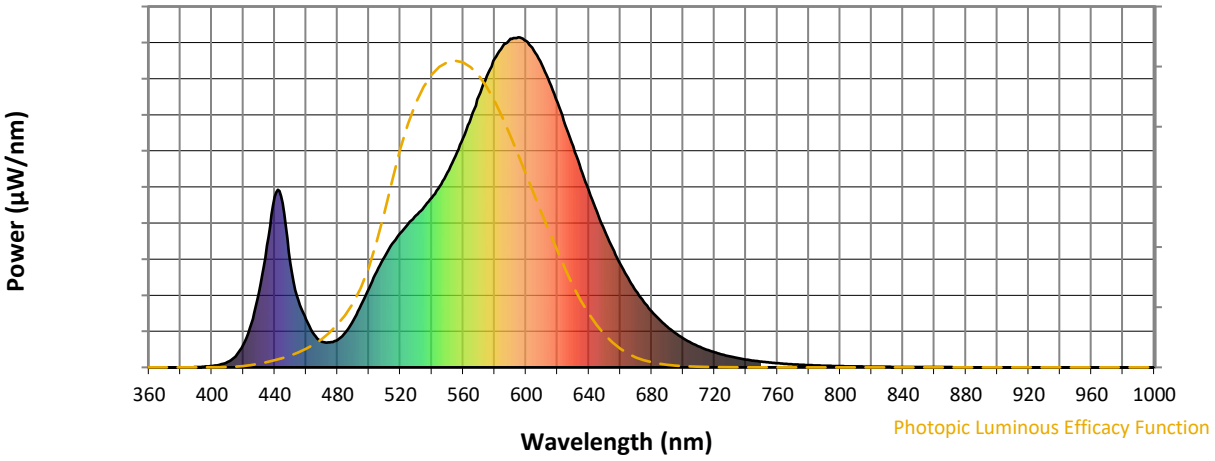


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

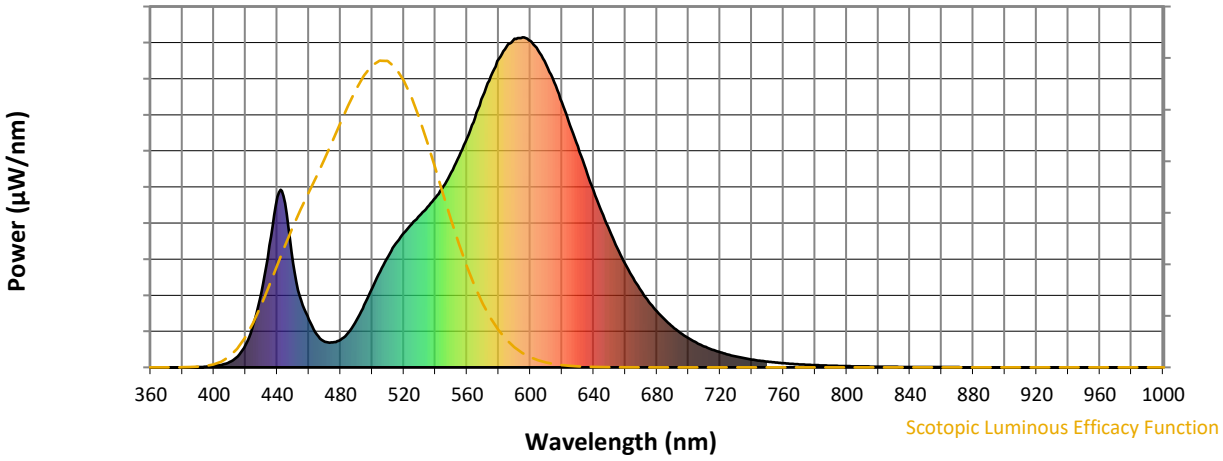


Photopic Lumens: NR

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

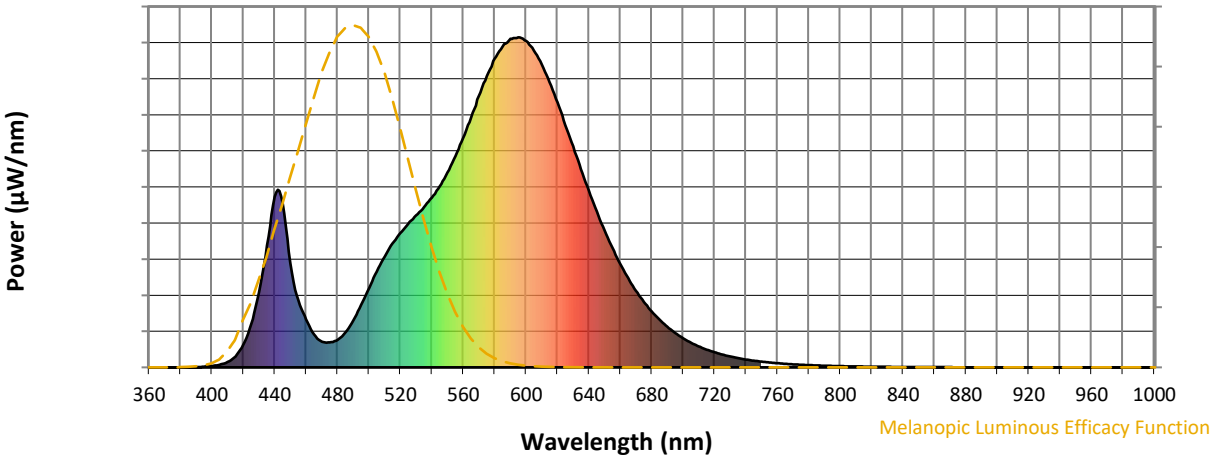


Scotopic Lumens: NR **S/P: 1.19**

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			

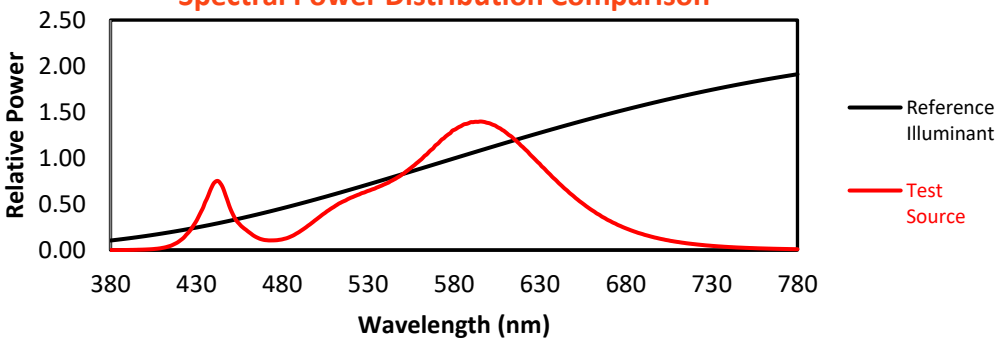
REPORT NUMBER: SP1-2407-184-4

TM-30-18

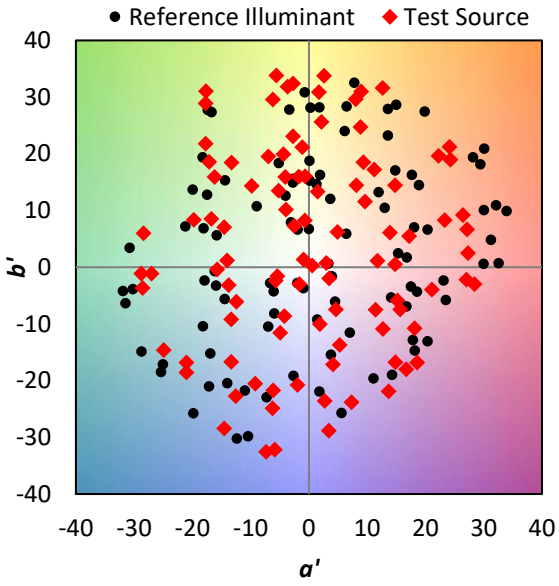
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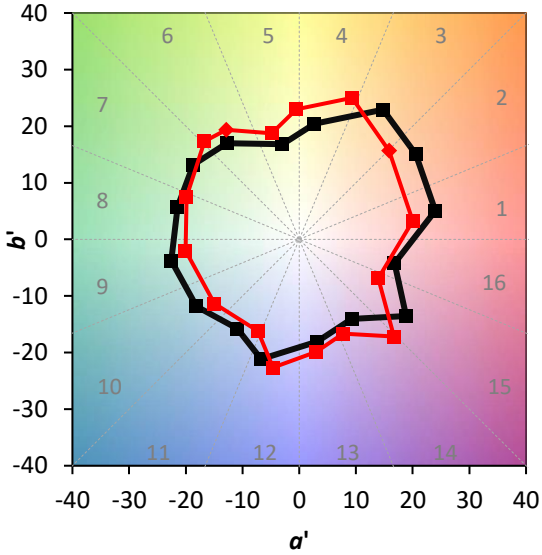
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

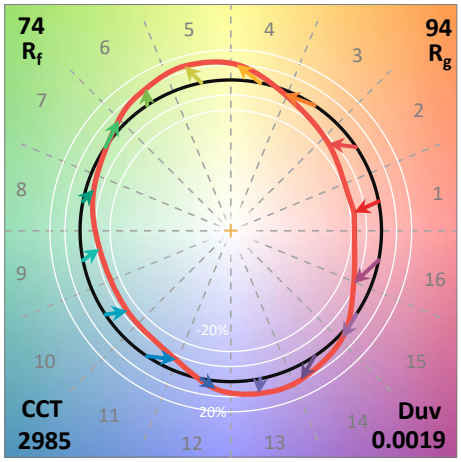
Spectral Power Distribution Comparison

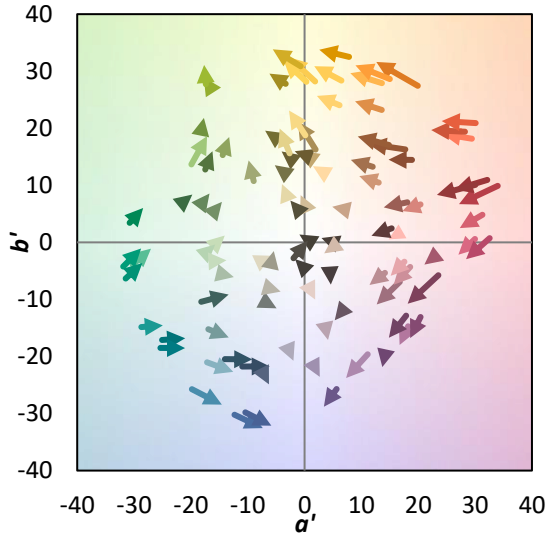


Color Vector Graphics







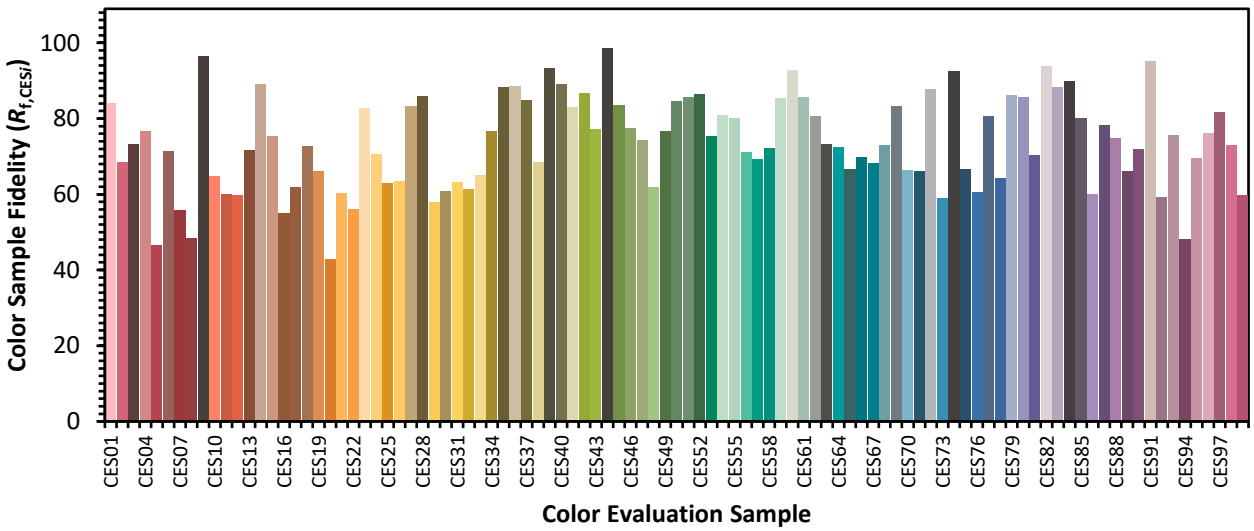


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Individual Sample Fidelity Index ($R_{f,i}$)

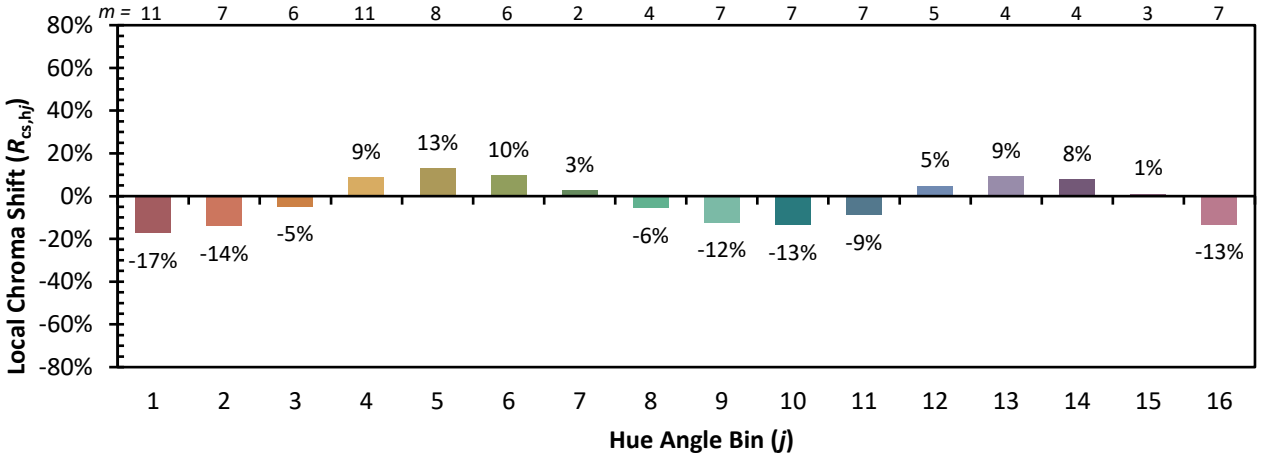
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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

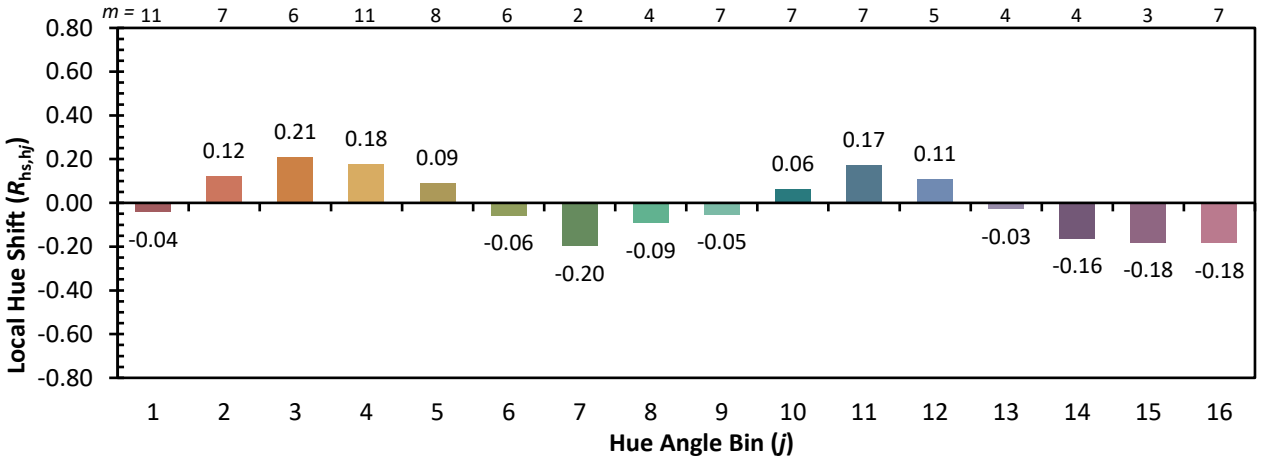


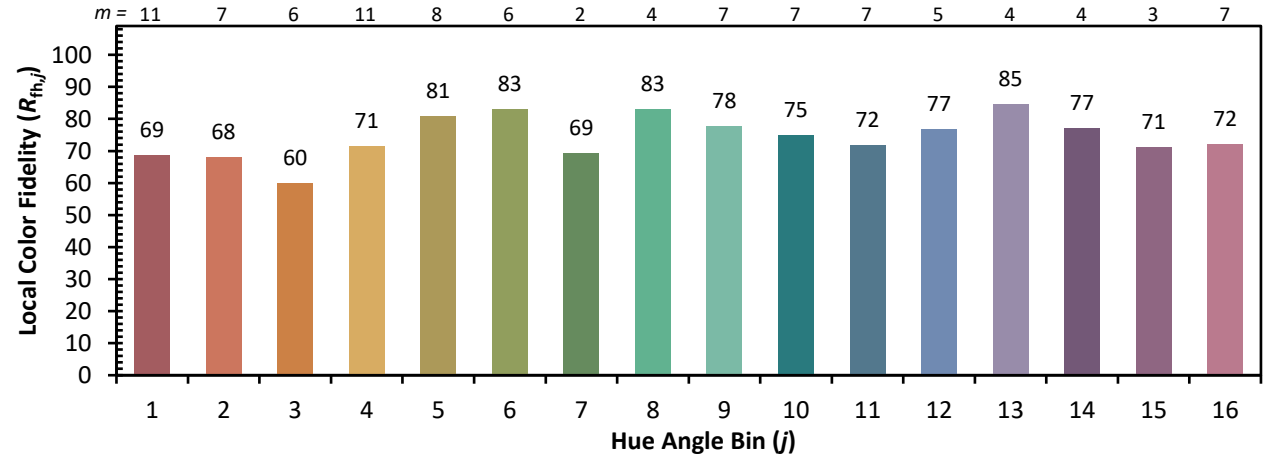
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Color Rendition by Hue-Angle Bin



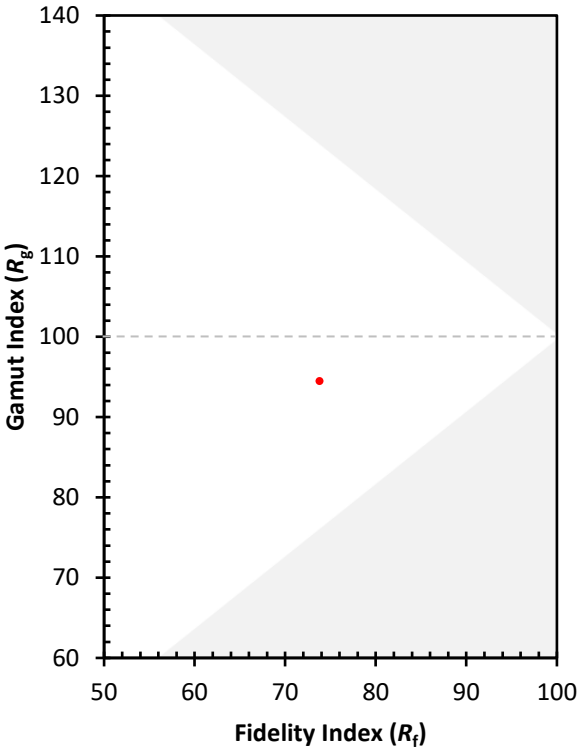


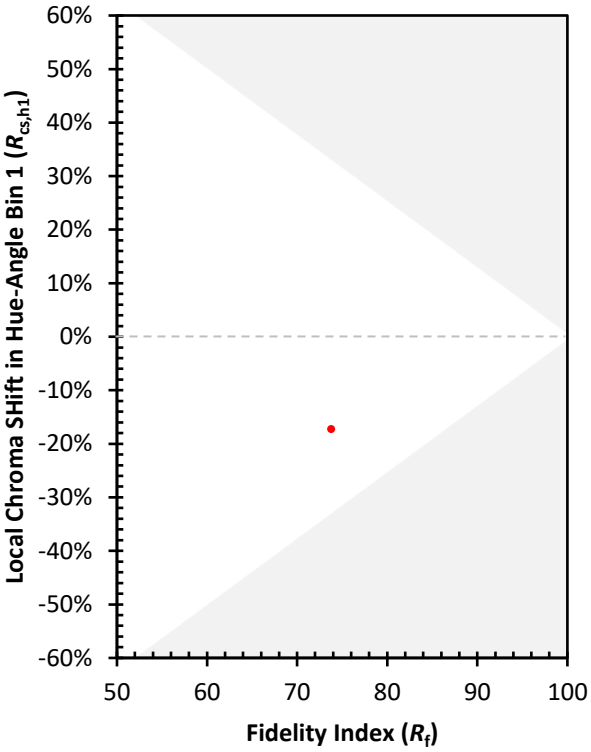


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Measure Comparisons





(END OF REPORT)