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: P1364520

Luminaire Tested: **GSS-SB5B-740-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364520
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5B-740-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 184W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(130) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21916.1 lumens
Efficiency:	N/A
Efficacy:	119.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

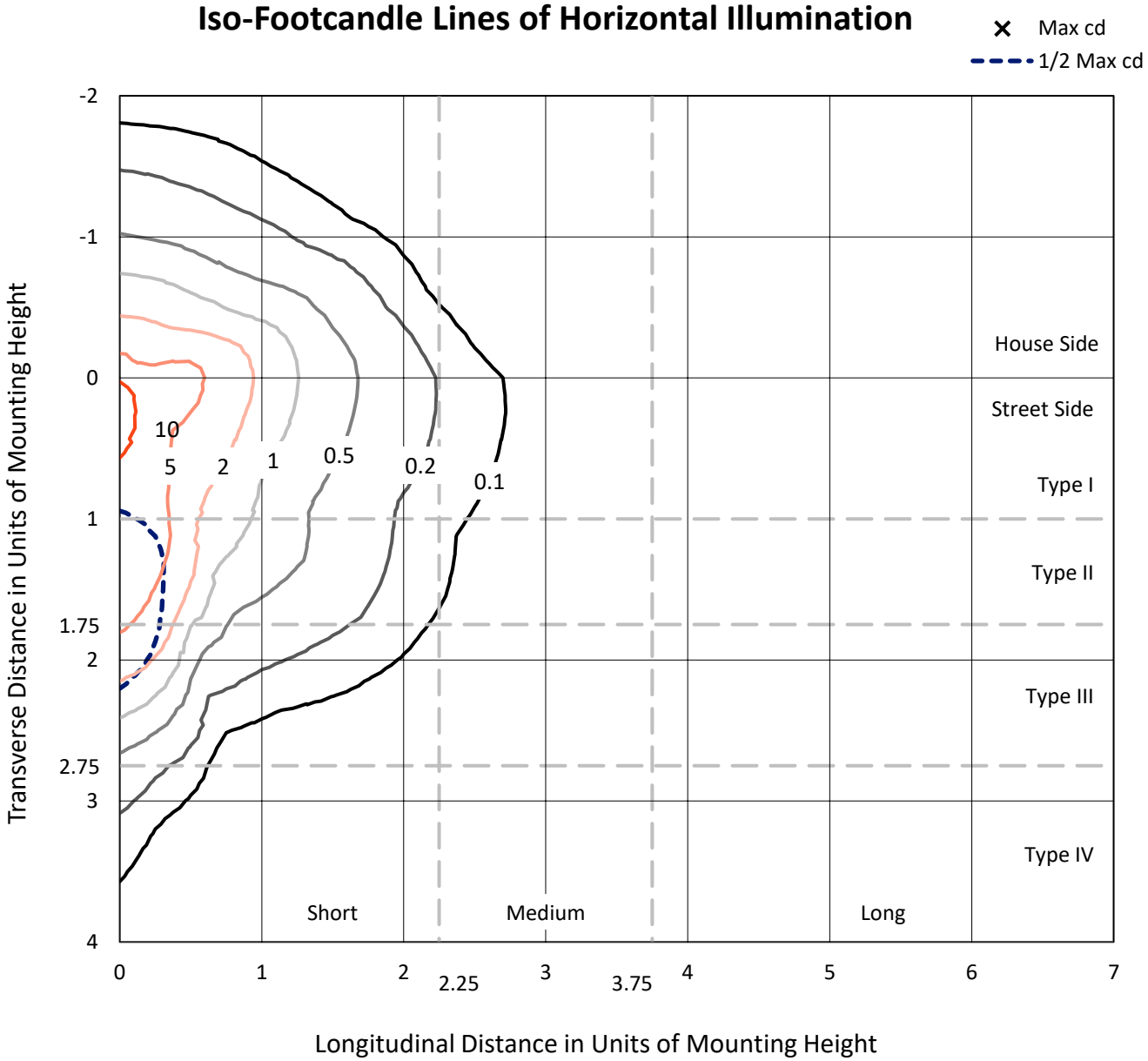
Input Watts (W):	184
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



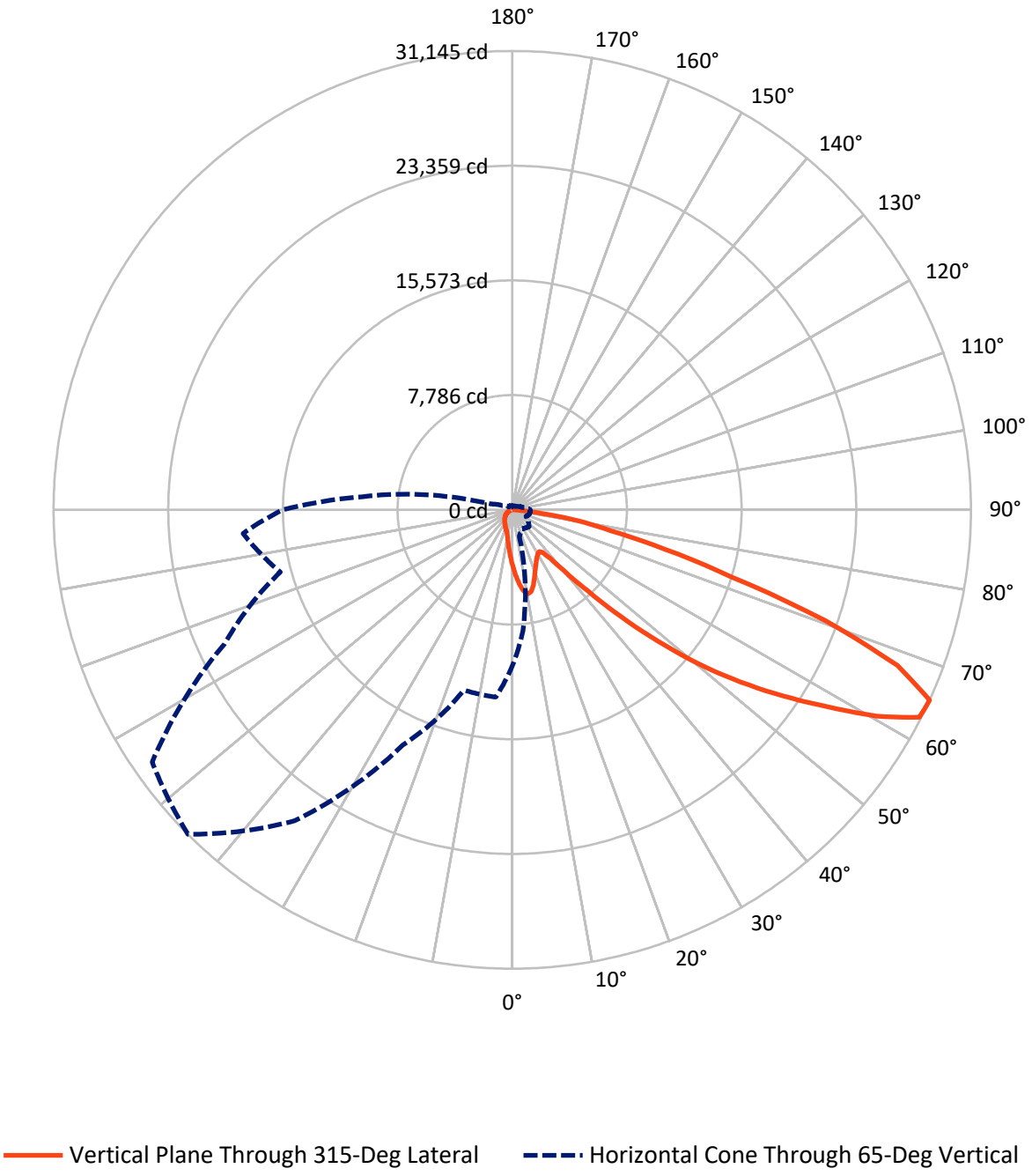
Based on 20 foot mounting height. Maximum calculated value = 12 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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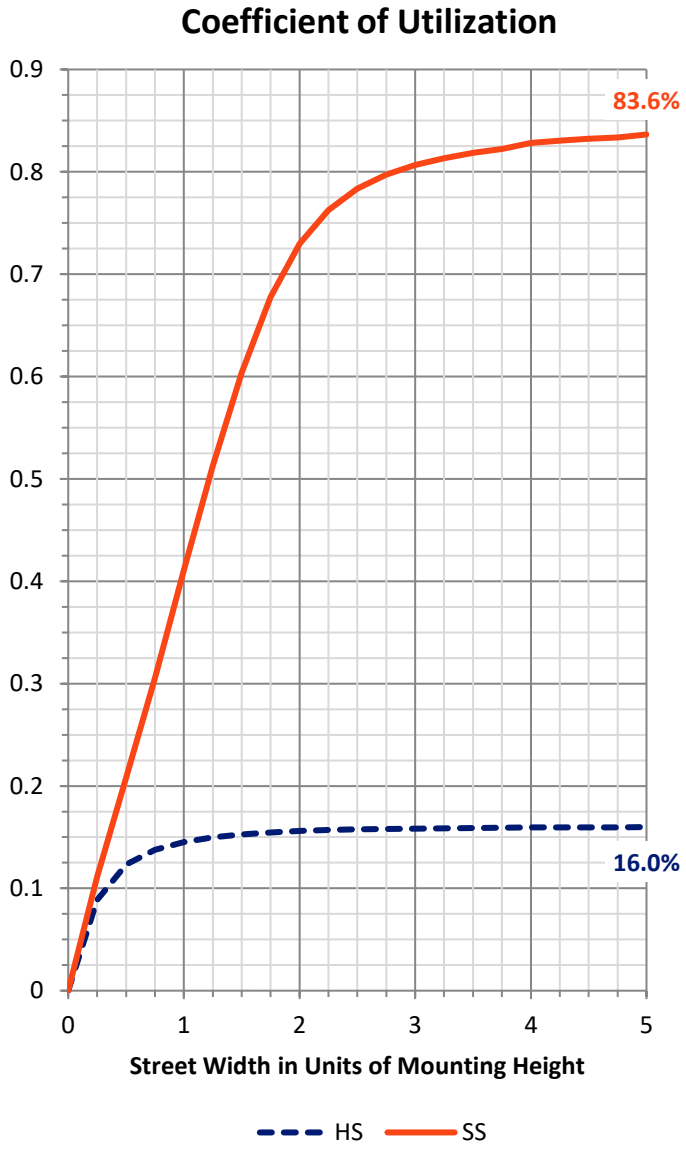
REPORT NUMBER: P1364520
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3542.8	0.0	3542.8
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	18373.3	0.0	18373.3
	% Fixture	83.8	0.0	83.8
Total	Lumens	21916.1	0.0	21916.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	1.7
10°-20°	1007.0	4.6
20°-30°	1442.3	6.6
30°-40°	1809.1	8.3
40°-50°	2971.8	13.6
50°-60°	5362.9	24.5
60°-70°	5951.7	27.2
70°-80°	2689.0	12.3
80°-90°	317.9	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°	21916.1	100.0
0°-180°	21916.1	100.0



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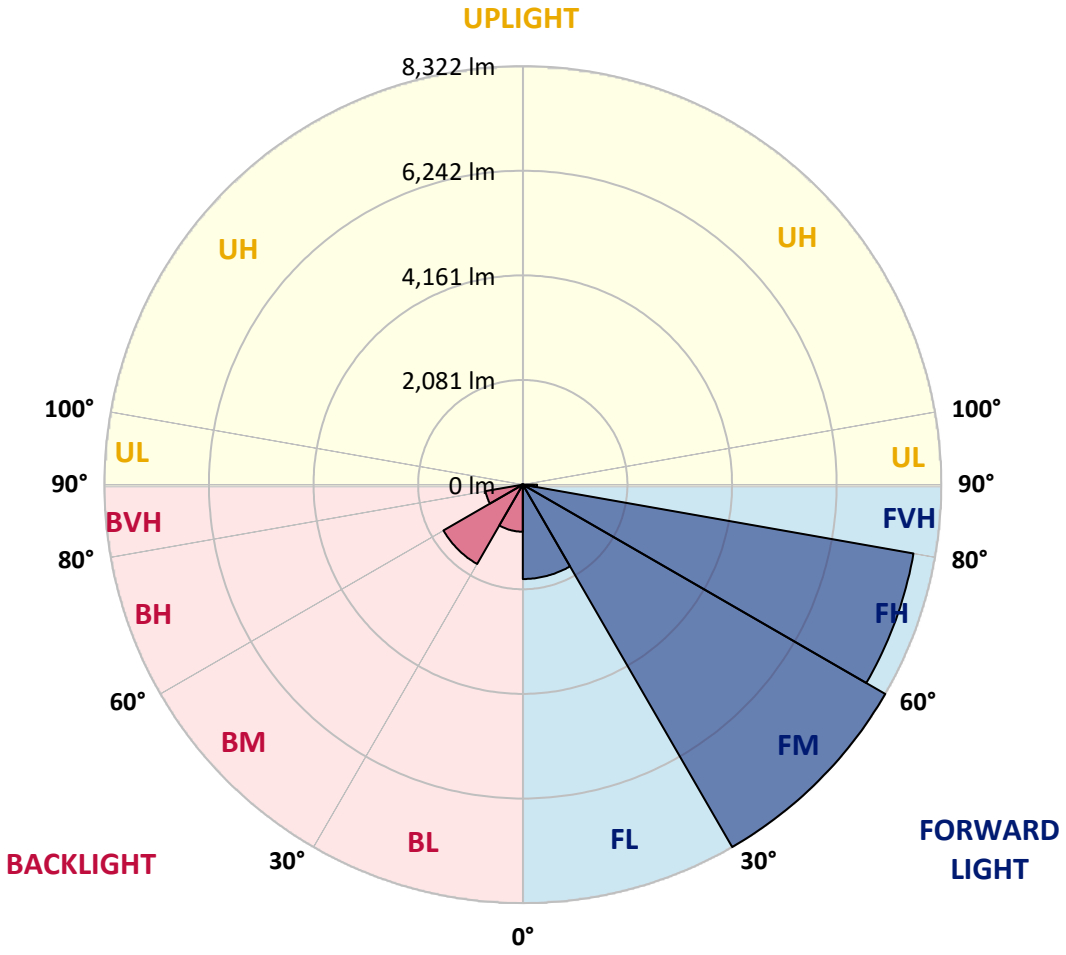
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1877.3	8.6			
FM	(30°-60°)	8322.1	38.0			
FH	(60°-80°)	7888.4	36.0			G4/12000
FVH	(80°-90°)	285.4	1.3			G3/500
BL	(0°-30°)	936.2	4.3	B2/1000		
BM	(30°-60°)	1821.7	8.3	B2/2500		
BH	(60°-80°)	752.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	32.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	4273.4	4269.3	4253.2	4152.2	4051.3	3963.8	3876.3	3788.8	3667.7	3573.5	3492.7
5°	4677.2	4655.6	4569.5	4414.7	4246.5	4098.4	3930.2	3768.7	3586.9	3438.9	3284.1
7.5°	4953.1	4931.5	4845.4	4589.7	4333.9	4152.2	3970.5	3802.3	3600.4	3405.2	3183.2
10°	5080.9	5056.7	4959.8	4683.9	4387.8	4165.7	3984.0	3829.2	3661.0	3465.8	3189.9
12.5°	5168.4	5138.8	5020.4	4704.1	4401.2	4179.2	3990.7	3842.7	3721.5	3607.1	3337.9
15°	5222.3	5195.4	5087.7	4757.9	4408.0	4159.0	3936.9	3795.6	3755.2	3775.4	3647.5
17.5°	5303.0	5277.5	5175.2	4825.2	4448.4	4125.3	3822.5	3667.7	3755.2	3936.9	3977.3
20°	5410.7	5383.8	5276.1	4912.7	4482.0	4024.4	3607.1	3459.1	3681.2	3984.0	4192.6
22.5°	5531.8	5510.3	5424.2	5013.7	4515.7	3876.3	3324.5	3257.2	3526.4	3849.4	4118.6
25°	5679.9	5659.7	5578.9	5155.0	4549.3	3674.4	3082.2	3095.7	3324.5	3580.2	3856.1
27.5°	5881.8	5862.9	5787.6	5329.9	4589.7	3465.8	2887.1	2954.4	3122.6	3297.6	3465.8
30°	6103.9	6089.1	6029.8	5538.6	4670.4	3270.7	2772.7	2813.0	2927.4	3068.8	3169.7
32.5°	6406.7	6382.5	6285.6	5733.7	4663.7	3122.6	2718.8	2678.4	2712.1	2826.5	2927.4
35°	6783.6	6764.7	6689.4	5935.6	4542.6	2988.0	2691.9	2550.6	2530.4	2597.7	2698.6
37.5°	7335.4	7319.3	7254.7	6265.4	4354.1	2819.8	2624.6	2416.0	2348.7	2395.8	2463.1
40°	8163.2	8121.4	7954.5	6642.2	4145.5	2651.5	2503.5	2254.5	2160.2	2193.9	2267.9
42.5°	9287.0	9207.6	8890.0	7147.0	3862.9	2490.0	2321.8	2092.9	1992.0	2012.2	2079.5
45°	10727.2	10607.4	10128.2	7840.1	3566.8	2362.1	2133.3	1924.7	1817.0	1837.2	1911.2
47.5°	12409.6	12245.4	11588.6	8567.0	3250.5	2288.1	1985.3	1756.5	1675.7	1722.8	1796.8
50°	14394.9	14229.3	13567.1	9031.3	2994.7	2241.0	1870.9	1601.7	1568.0	1628.6	1689.2
52.5°	16561.9	16326.3	15384.2	8735.2	2786.1	2200.6	1830.5	1494.0	1507.5	1554.6	1615.1
55°	18668.3	18144.7	16050.4	7752.7	2516.9	2153.5	1857.4	1413.2	1446.9	1507.5	1554.6
57.5°	20041.1	19131.3	15491.8	6245.2	2234.3	2099.7	1877.6	1372.9	1399.8	1467.1	1520.9
60°	18843.3	17928.0	14267.0	4677.2	1992.0	1985.3	1843.9	1359.4	1319.0	1413.2	1460.4
62.5°	15438.0	14684.3	11669.4	2988.0	1763.2	1769.9	1769.9	1352.7	1184.4	1305.6	1345.9
65°	*10606.1*	*10135.0*	*8250.7*	*1850.7*	*1440.2*	*1507.5*	*1608.4*	*1312.3*	*1043.1*	*1184.4*	*1224.8*
67.5°	6972.0	6626.1	5242.5	1144.1	1110.4	1238.3	1393.1	1231.5	935.4	1063.3	1090.2
70°	3782.1	3519.7	2469.8	753.7	726.8	969.1	1096.9	1043.1	841.2	948.9	975.8
72.5°	2496.7	2281.4	1420.0	531.6	531.6	760.5	767.2	854.7	753.7	841.2	868.1
75°	1877.6	1685.1	915.2	370.1	410.5	484.5	598.9	612.4	632.6	713.4	747.0
77.5°	861.4	756.4	336.5	222.1	302.8	336.5	457.6	390.3	471.1	531.6	545.1
80°	498.0	436.1	188.4	148.1	195.2	215.4	376.9	228.8	282.6	376.9	397.1
82.5°	208.6	185.7	94.2	100.9	121.1	127.9	208.6	161.5	181.7	249.0	242.3
85°	60.6	60.6	60.6	67.3	74.0	74.0	121.1	114.4	107.7	114.4	114.4
87.5°	40.4	40.4	40.4	40.4	47.1	47.1	53.8	60.6	67.3	67.3	67.3
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°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	3459.1	3412.0	3351.4	3263.9	3250.5	3203.4	3169.7	3203.4	3237.0	3297.6	3304.3
5°	3203.4	3129.3	2988.0	2880.3	2759.2	2698.6	2691.9	2678.4	2718.8	2806.3	2860.1
7.5°	3062.0	2940.9	2685.2	2496.7	2328.5	2267.9	2220.8	2261.2	2254.5	2368.9	2416.0
10°	3028.4	2839.9	2483.3	2200.6	1992.0	1911.2	1864.1	1857.4	1870.9	1938.2	1985.3
12.5°	3149.5	2907.2	2402.5	1985.3	1743.0	1655.5	1601.7	1554.6	1554.6	1568.0	1628.6
15°	3418.7	3129.3	2449.6	1884.3	1621.9	1507.5	1420.0	1359.4	1312.3	1319.0	1325.8
17.5°	3795.6	3452.4	2570.8	1850.7	1547.8	1426.7	1319.0	1258.5	1204.6	1191.2	1191.2
20°	4091.7	3761.9	2665.0	1823.8	1487.3	1332.5	1238.3	1184.4	1137.3	1117.1	1117.1
22.5°	4125.3	3889.8	2745.7	1790.1	1413.2	1238.3	1150.8	1103.7	1070.0	1063.3	1063.3
25°	3903.2	3788.8	2718.8	1749.7	1339.2	1150.8	1083.5	1043.1	1009.5	1002.7	1009.5
27.5°	3533.1	3472.5	2624.6	1695.9	1278.6	1083.5	1022.9	989.3	955.6	948.9	955.6
30°	3203.4	3136.1	2463.1	1608.4	1231.5	1029.6	962.4	928.7	895.1	895.1	901.8
32.5°	2934.2	2866.9	2301.6	1507.5	1171.0	969.1	908.5	874.9	841.2	841.2	854.7
35°	2691.9	2638.1	2173.7	1406.5	1110.4	915.2	847.9	821.0	794.1	787.4	800.8
37.5°	2483.3	2456.4	2059.3	1298.8	1049.8	861.4	800.8	773.9	740.3	733.5	747.0
40°	2281.4	2267.9	1931.4	1204.6	975.8	807.6	747.0	720.1	679.7	679.7	693.2
42.5°	2092.9	2086.2	1817.0	1144.1	908.5	753.7	686.4	659.5	625.9	625.9	639.3
45°	1944.9	1938.2	1709.4	1110.4	841.2	693.2	632.6	598.9	572.0	578.8	592.2
47.5°	1810.3	1796.8	1594.9	1117.1	807.6	652.8	572.0	538.4	518.2	531.6	551.8
50°	1702.6	1689.2	1514.2	1123.9	753.7	598.9	524.9	491.3	477.8	498.0	518.2
52.5°	1635.3	1621.9	1433.4	1083.5	686.4	558.6	477.8	457.6	457.6	477.8	491.3
55°	1568.0	1554.6	1298.8	996.0	612.4	518.2	444.2	430.7	430.7	450.9	464.4
57.5°	1527.6	1500.7	1157.5	895.1	551.8	471.1	410.5	410.5	410.5	417.2	424.0
60°	1467.1	1399.8	1009.5	767.2	504.7	424.0	383.6	376.9	376.9	370.1	376.9
62.5°	1339.2	1224.8	847.9	652.8	450.9	383.6	349.9	343.2	323.0	302.8	309.6
65°	*1211.4*	*1036.4*	*673.0*	*545.1*	*390.3*	*329.8*	*309.6*	*302.8*	*269.2*	*242.3*	*249.0*
67.5°	1049.8	827.8	504.7	457.6	336.5	282.6	262.5	262.5	242.3	222.1	222.1
70°	935.4	646.1	424.0	343.2	269.2	222.1	222.1	235.5	215.4	188.4	188.4
72.5°	827.8	524.9	343.2	275.9	208.6	175.0	188.4	195.2	175.0	154.8	154.8
75°	706.6	410.5	269.2	215.4	154.8	134.6	141.3	154.8	141.3	121.1	127.9
77.5°	511.5	282.6	181.7	141.3	114.4	100.9	107.7	107.7	100.9	94.2	94.2
80°	356.7	188.4	121.1	94.2	80.8	74.0	74.0	67.3	67.3	74.0	74.0
82.5°	215.4	134.6	87.5	74.0	60.6	47.1	47.1	53.8	53.8	60.6	60.6
85°	94.2	80.8	60.6	53.8	40.4	33.6	40.4	40.4	47.1	53.8	53.8
87.5°	60.6	60.6	47.1	40.4	33.6	26.9	26.9	33.6	33.6	40.4	47.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	3331.2	3398.5	3479.3	3593.7	3694.6	3815.8	3936.9	4051.3	4159.0	4172.4	4219.5
5°	2900.5	3028.4	3189.9	3378.3	3607.1	3849.4	4084.9	4333.9	4535.8	4609.9	4717.5
7.5°	2456.4	2617.9	2853.4	3142.8	3465.8	3829.2	4192.6	4542.6	4845.4	4986.7	5128.1
10°	2032.4	2187.2	2476.5	2826.5	3243.7	3735.0	4219.5	4690.6	5060.8	5222.3	5356.9
12.5°	1648.8	1803.6	2039.1	2442.9	2947.6	3539.8	4179.2	4744.5	5155.0	5323.2	5451.1
15°	1345.9	1473.8	1695.9	2072.8	2604.4	3270.7	4037.8	4704.1	5175.2	5336.7	5430.9
17.5°	1184.4	1218.1	1359.4	1702.6	2281.4	3028.4	3856.1	4650.2	5188.6	5336.7	5390.5
20°	1117.1	1117.1	1144.1	1325.8	1891.1	2772.7	3721.5	4616.6	5208.8	5356.9	5350.1
22.5°	1056.6	1070.0	1070.0	1110.4	1440.2	2416.0	3580.2	4603.1	5269.4	5383.8	5289.6
25°	1002.7	1022.9	1022.9	1036.4	1130.6	1992.0	3405.2	4630.1	5377.1	5437.6	5249.2
27.5°	955.6	975.8	975.8	989.3	1009.5	1480.5	3115.9	4636.8	5498.2	5504.9	5195.4
30°	908.5	928.7	942.2	942.2	955.6	1090.2	2752.5	4596.4	5632.8	5592.4	5188.6
32.5°	854.7	881.6	888.3	901.8	908.5	948.9	2281.4	4529.1	5801.0	5713.5	5195.4
35°	807.6	841.2	847.9	847.9	861.4	901.8	1823.8	4455.1	6029.8	5875.1	5222.3
37.5°	760.5	787.4	794.1	800.8	814.3	854.7	1446.9	4347.4	6225.0	6076.9	5356.9
40°	706.6	740.3	747.0	753.7	767.2	807.6	1245.0	4212.8	6521.1	6413.4	5558.8
42.5°	652.8	686.4	699.9	706.6	713.4	767.2	1137.3	4118.6	6998.9	6884.5	5969.3
45°	605.7	639.3	652.8	652.8	666.2	740.3	1043.1	4327.2	7658.4	7604.6	6521.1
47.5°	565.3	598.9	605.7	605.7	612.4	699.9	962.4	4885.8	8667.9	8526.6	7382.5
50°	531.6	558.6	572.0	558.6	565.3	666.2	1009.5	5807.8	9960.0	10007.1	8647.7
52.5°	504.7	531.6	538.4	511.5	511.5	619.1	1070.0	6561.5	11608.8	12039.5	10653.2
55°	471.1	498.0	504.7	471.1	471.1	545.1	928.7	6608.6	13486.4	14872.7	13264.3
57.5°	437.4	464.4	464.4	437.4	430.7	471.1	753.7	5861.6	14940.0	18082.8	16837.8
60°	397.1	424.0	417.2	403.8	390.3	430.7	693.2	4468.5	14744.8	20175.7	20936.2
62.5°	323.0	363.4	376.9	370.1	343.2	390.3	646.1	2914.0	12759.6	18358.7	20808.3
65°	*269.2*	*302.8*	*323.0*	*323.0*	*302.8*	*430.7*	*565.3*	*1534.4*	*10215.7*	*15579.3*	*18345.3*
67.5°	235.5	269.2	282.6	275.9	262.5	383.6	356.7	740.3	7833.4	13425.8	16420.5
70°	208.6	235.5	249.0	228.8	215.4	309.6	255.7	437.4	5242.5	11205.0	14623.7
72.5°	168.2	195.2	208.6	188.4	168.2	228.8	195.2	289.4	3412.0	9549.5	12995.1
75°	134.6	161.5	168.2	154.8	134.6	168.2	154.8	201.9	2227.5	7900.7	11050.2
77.5°	100.9	114.4	127.9	121.1	100.9	121.1	107.7	141.3	1271.9	5545.3	7752.7
80°	80.8	87.5	87.5	87.5	80.8	74.0	74.0	94.2	572.0	2732.3	4044.6
82.5°	67.3	74.0	74.0	67.3	60.6	53.8	47.1	53.8	168.2	1224.8	1864.1
85°	60.6	67.3	53.8	47.1	40.4	33.6	20.2	20.2	47.1	195.2	363.4
87.5°	47.1	40.4	33.6	26.9	13.5	6.7	6.7	0.0	6.7	6.7	6.7
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: P1364520
CATALOG NUMBER: GSS-SB5B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	4293.6	4360.9	4408.0	4448.4	4434.9	4401.2	4333.9	4286.8	4276.1	4273.4
5°	4858.9	4966.5	5060.8	5047.3	5060.8	4959.8	4858.9	4737.7	4689.3	4677.2
7.5°	5329.9	5464.5	5578.9	5565.5	5525.1	5410.7	5242.5	5060.8	4974.6	4953.1
10°	5585.7	5740.5	5834.7	5801.0	5733.7	5585.7	5417.4	5202.1	5105.2	5080.9
12.5°	5632.8	5733.7	5713.5	5700.1	5686.6	5612.6	5484.7	5289.6	5192.7	5168.4
15°	5511.7	5471.3	5356.9	5329.9	5430.9	5525.1	5498.2	5336.7	5245.2	5222.3
17.5°	5309.8	5101.1	4892.5	4865.6	5033.8	5296.3	5504.9	5410.7	5324.6	5303.0
20°	5087.7	4697.4	4468.5	4421.4	4630.1	5020.4	5430.9	5484.7	5425.5	5410.7
22.5°	4825.2	4367.6	4125.3	4098.4	4253.2	4710.8	5323.2	5565.5	5538.6	5531.8
25°	4596.4	4078.2	3849.4	3809.0	4010.9	4455.1	5215.5	5700.1	5683.9	5679.9
27.5°	4408.0	3869.6	3627.3	3600.4	3795.6	4239.7	5080.9	5814.5	5868.3	5881.8
30°	4259.9	3714.8	3472.5	3438.9	3654.2	4091.7	4986.7	5976.0	6078.3	6103.9
32.5°	4145.5	3627.3	3398.5	3378.3	3607.1	4031.1	4932.9	6144.2	6354.2	6406.7
35°	4105.1	3654.2	3499.5	3546.6	3721.5	4091.7	4973.3	6420.2	6710.9	6783.6
37.5°	4192.6	3950.4	4058.0	4179.2	4246.5	4381.1	5161.7	6864.3	7241.2	7335.4
40°	4475.3	4744.5	5249.2	5484.7	5457.8	5148.2	5592.4	7490.2	8028.6	8163.2
42.5°	5195.4	6070.2	7140.2	7537.3	7308.5	6373.1	6278.8	8519.8	9133.6	9287.0
45°	6265.4	7671.9	9428.4	10323.4	9536.0	7927.6	7362.3	9986.9	10579.1	10727.2
47.5°	7335.4	9462.0	12254.8	13318.1	11770.3	9468.7	8782.3	11743.4	12276.4	12409.6
50°	8425.6	11440.5	15074.6	16494.6	13997.8	11036.8	10289.8	13910.4	14298.0	14394.9
52.5°	9549.5	13210.5	18183.7	19408.6	16326.3	12248.1	12012.6	16272.5	16504.0	16561.9
55°	10801.2	14886.2	21299.6	22288.9	18446.2	13304.7	14031.5	18742.3	18683.1	18668.3
57.5°	12470.2	16649.4	23809.8	25189.4	20370.9	14731.4	16730.1	21488.0	20330.5	20041.1
60°	15384.2	19388.4	26932.4	28433.1	22948.4	16817.6	18715.4	21427.5	19360.1	18843.3
62.5°	18762.5	22026.4	29758.9	31024.1	25660.5	18890.4	17133.9	17995.3	15949.5	15438.0
65°	16299.4	21562.1	29846.4	31145.2	25761.4	17625.2	12665.4	12759.6	11036.8	10606.1
67.5°	13870.0	19112.4	27181.4	28204.3	22982.0	14569.9	8398.7	8324.7	7242.5	6972.0
70°	12349.1	16743.6	23426.2	22544.6	19321.1	12315.4	5578.9	4623.3	3950.4	3782.1
72.5°	11097.3	13284.5	18984.6	15539.0	16030.2	10020.6	3546.6	3149.5	2627.3	2496.7
75°	10047.5	10989.7	11844.3	10740.7	11386.7	8257.4	3008.2	2429.4	1988.0	1877.6
77.5°	7994.9	8553.5	7012.4	6810.5	7974.7	5875.1	1494.0	1022.9	893.7	861.4
80°	4757.9	4044.6	3977.3	4535.8	5309.8	3048.6	915.2	565.3	511.5	498.0
82.5°	2880.3	1460.4	1588.2	2005.5	2826.5	1386.3	545.1	242.3	215.4	208.6
85°	484.5	397.1	612.4	585.5	551.8	296.1	148.1	67.3	61.9	60.6
87.5°	13.5	20.2	26.9	33.6	33.6	33.6	33.6	33.6	39.0	40.4
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

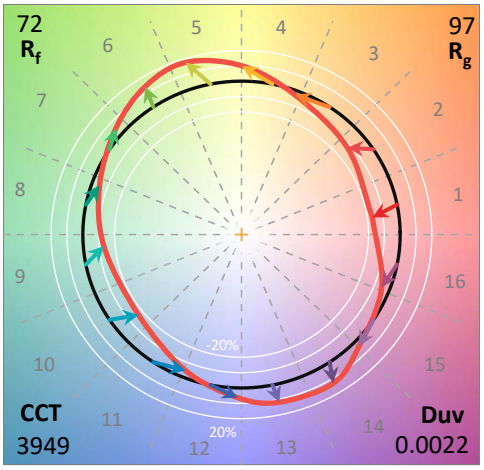
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
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-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

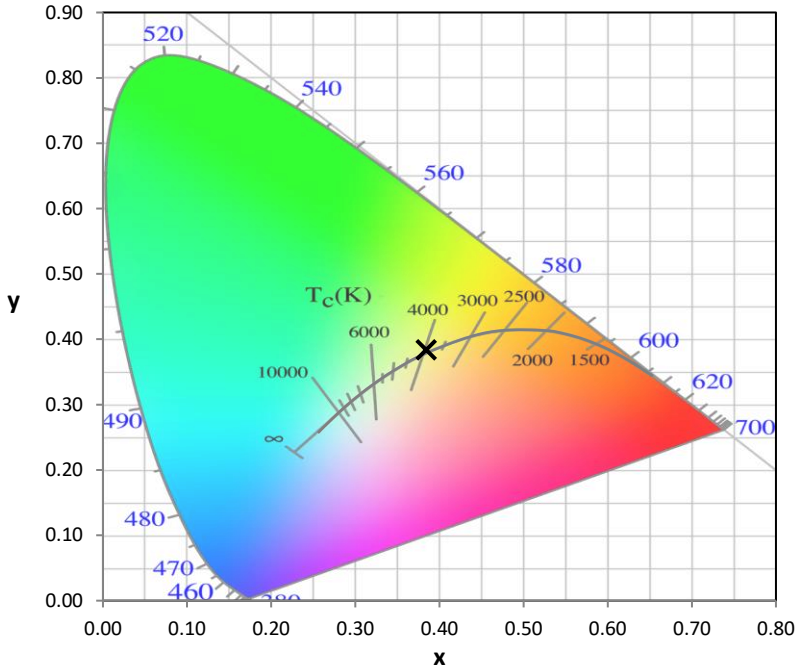
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

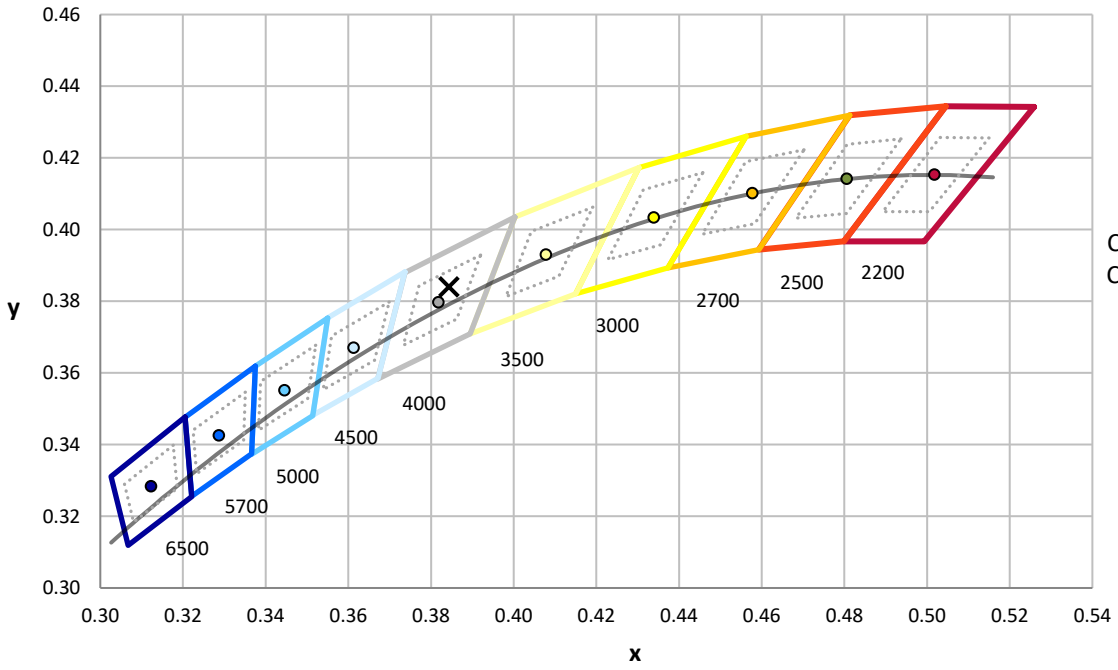
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

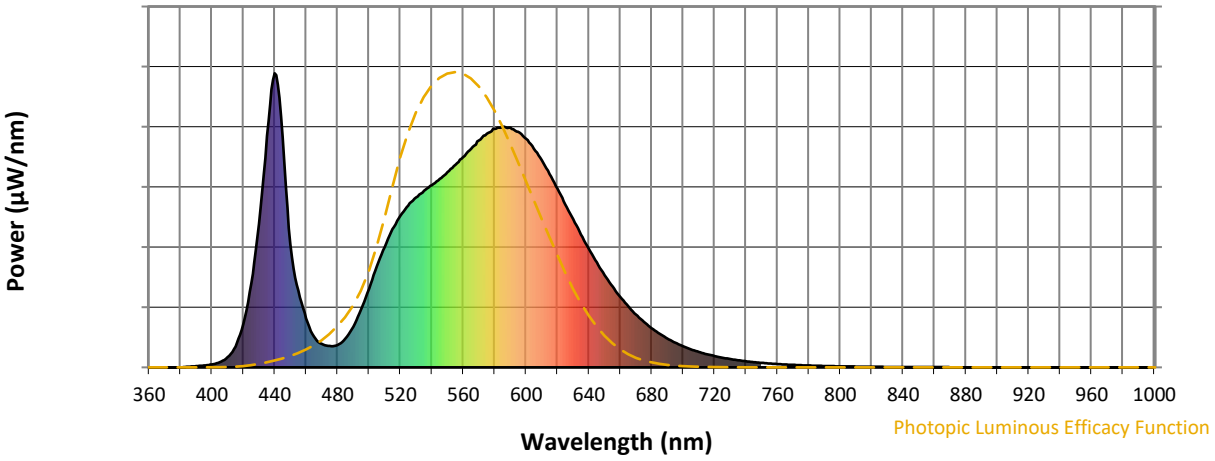


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

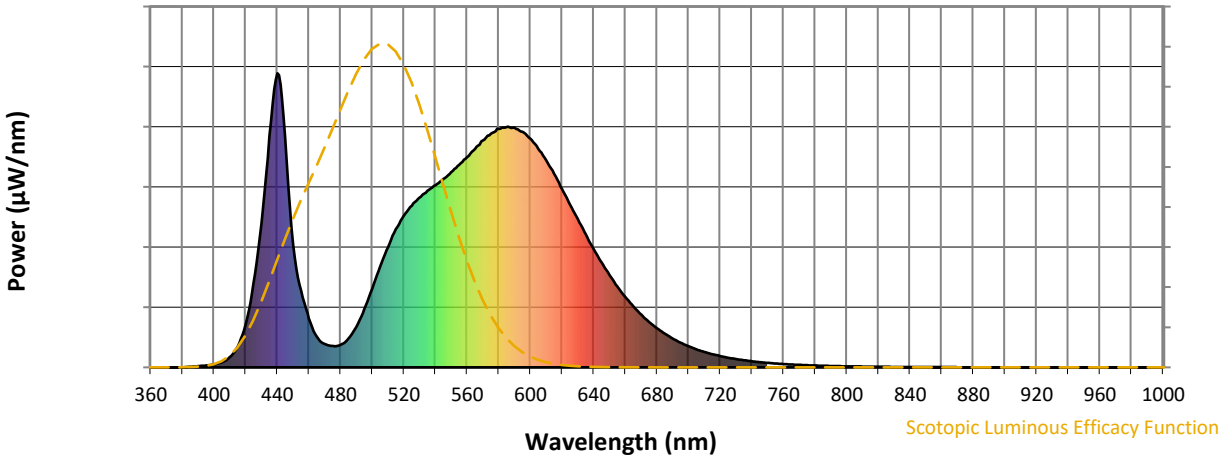


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

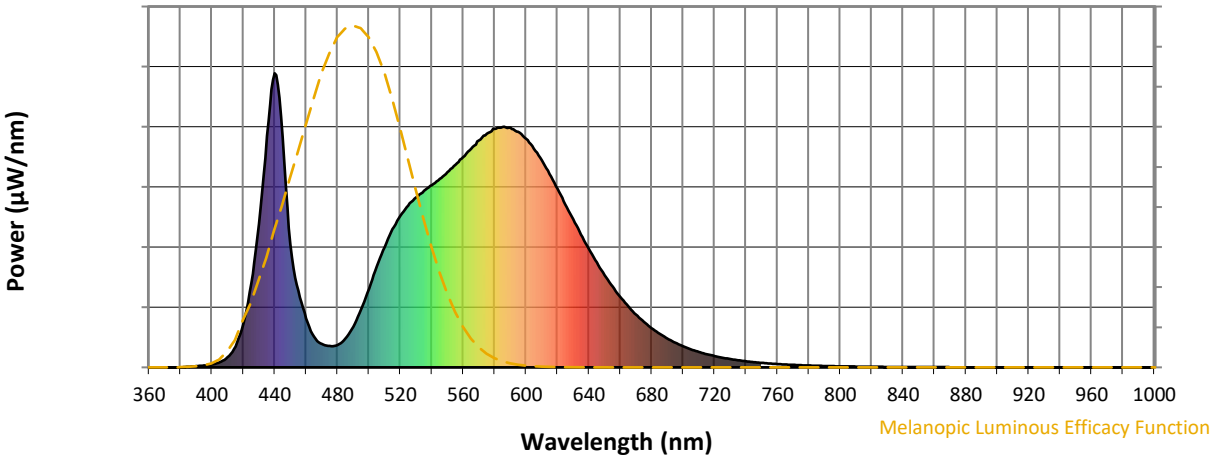


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

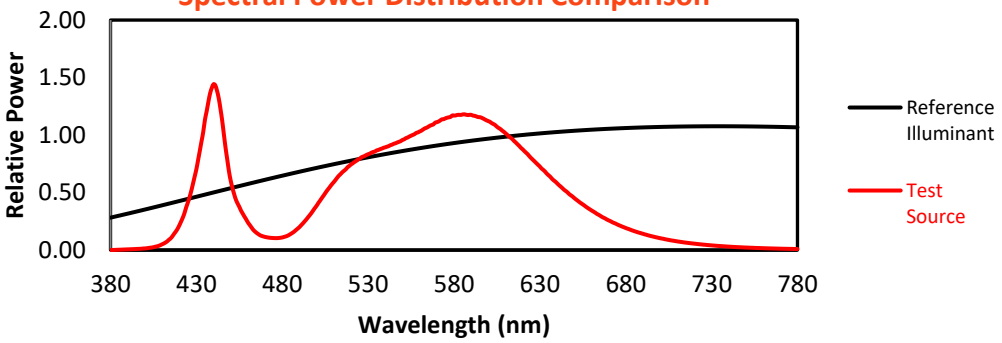
REPORT NUMBER: SP1-2407-184-1

TM-30-18

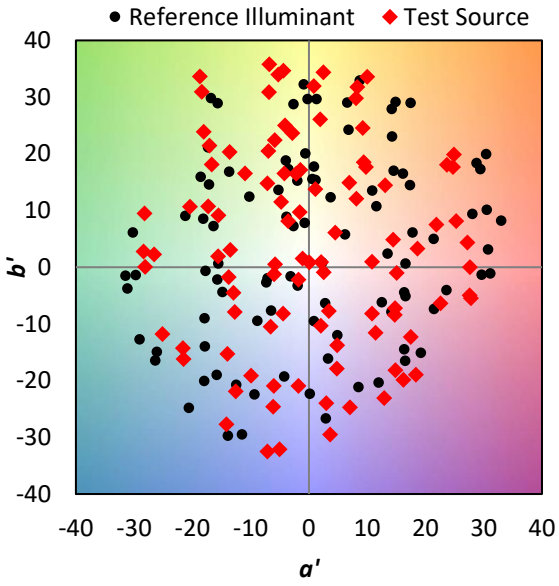
Summary

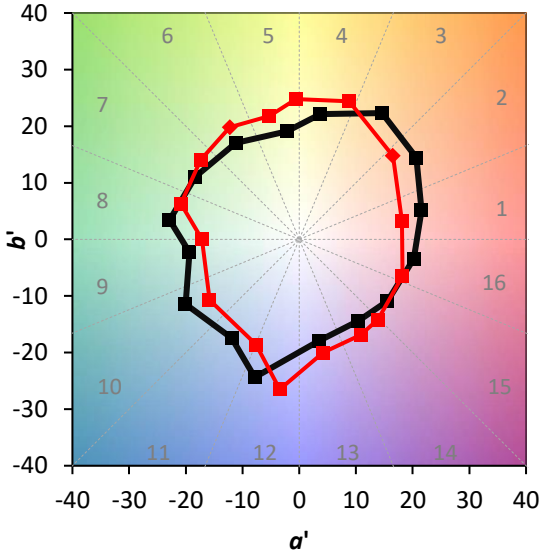
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

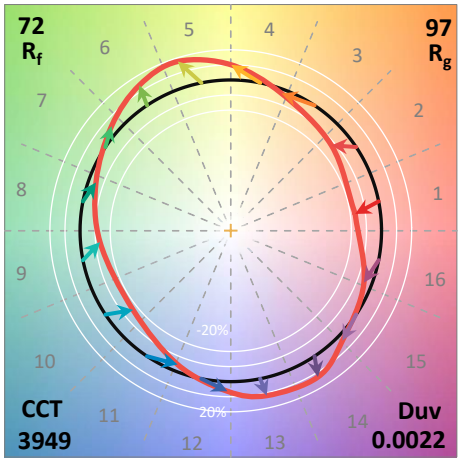
Spectral Power Distribution Comparison

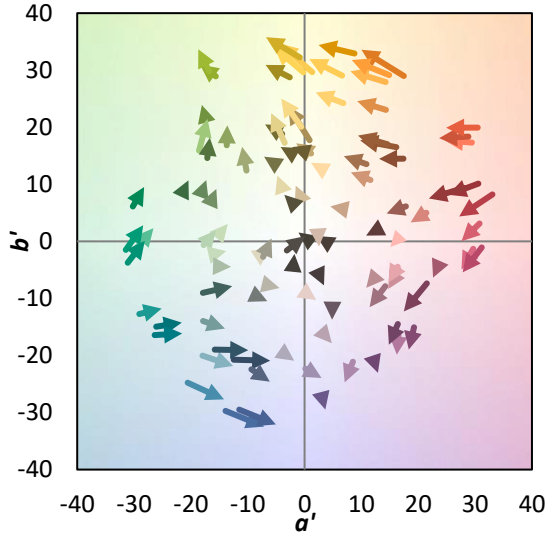


Color Vector Graphics







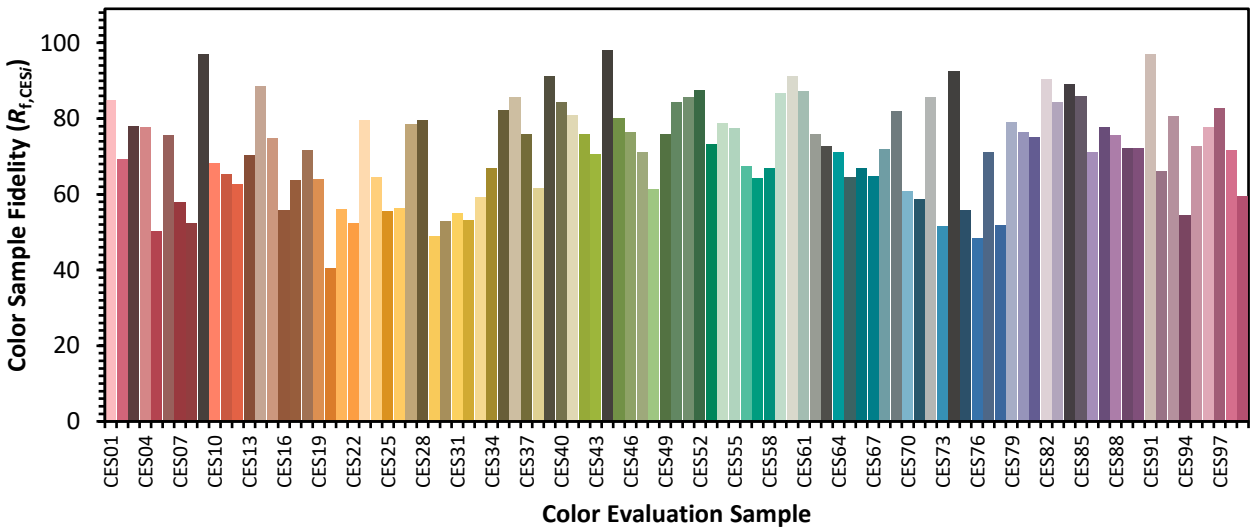


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Individual Sample Fidelity Index ($R_{f,i}$)

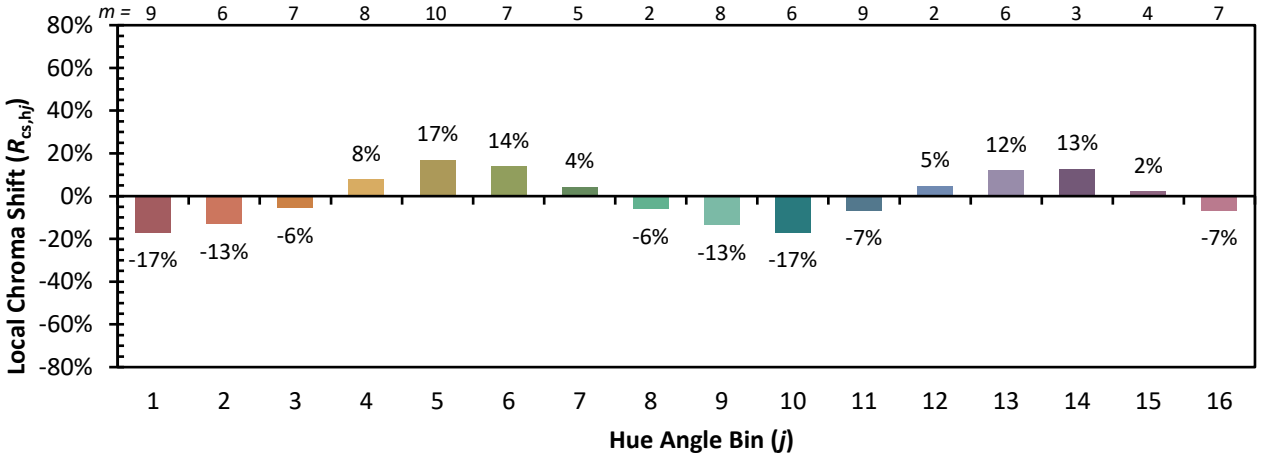
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

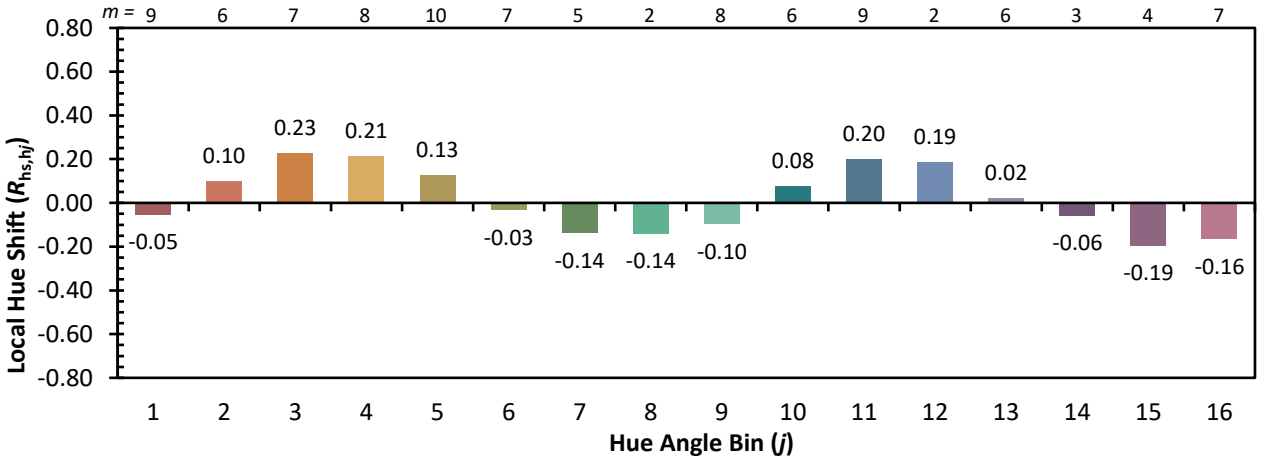


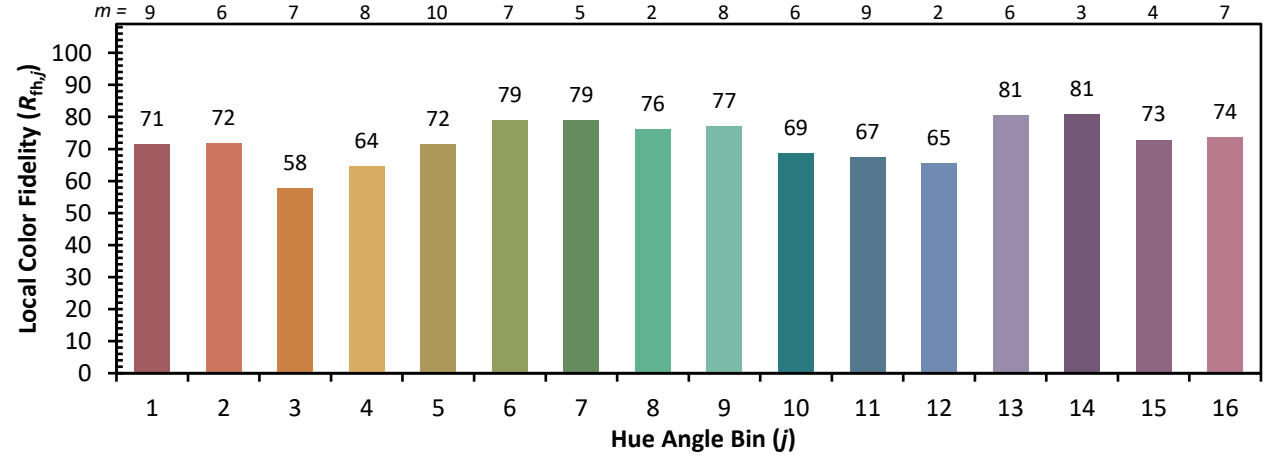
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Color Rendition by Hue-Angle Bin



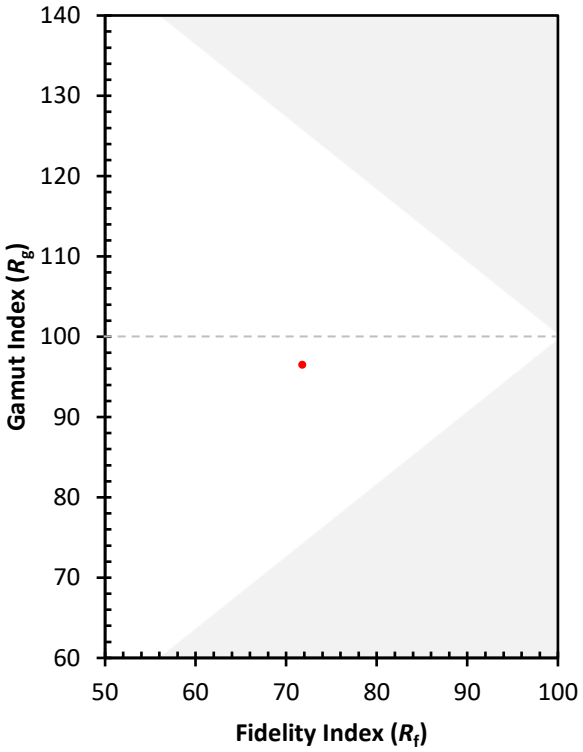


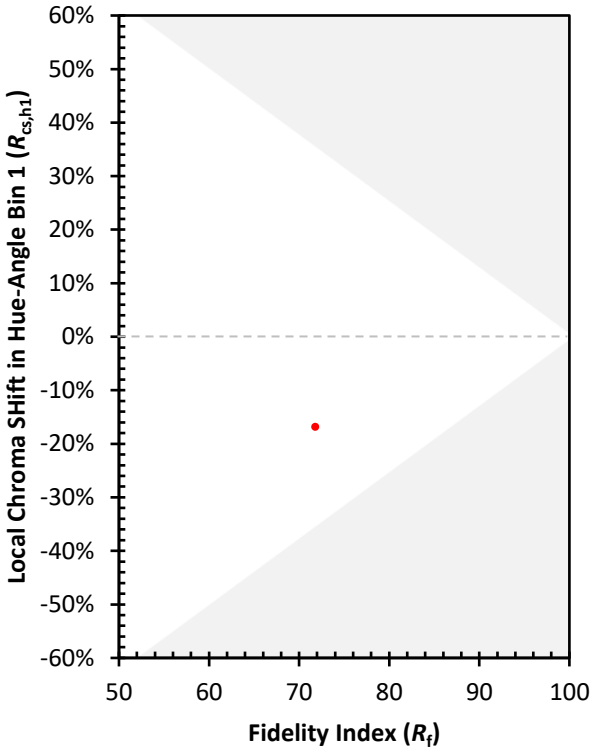


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Measure Comparisons





(END OF REPORT)