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: P1364516

Luminaire Tested: **GSS-SB4B-740-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:	P1364516
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-740-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(104) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17542.9 lumens
Efficiency:	N/A
Efficacy:	118.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

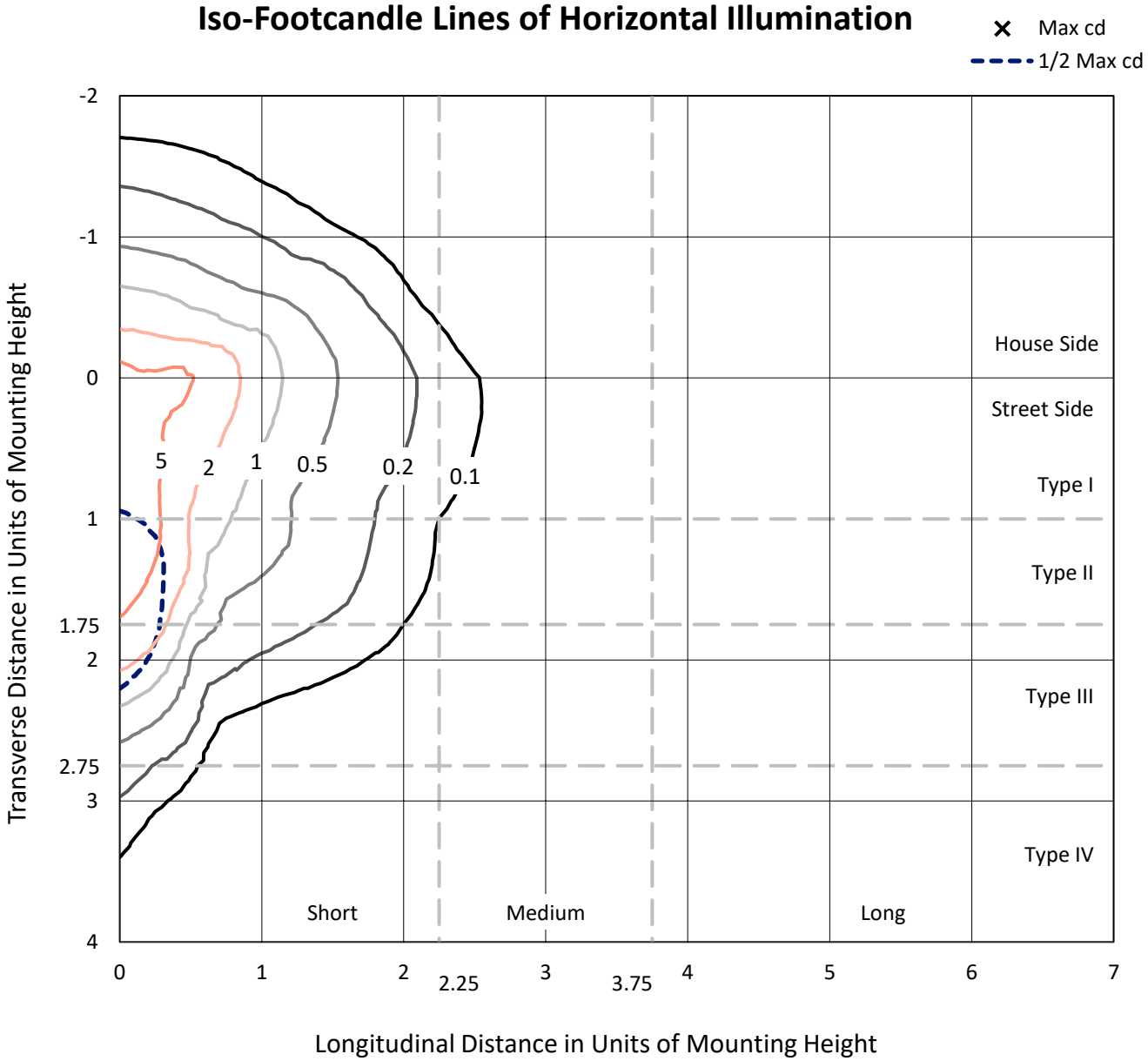
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



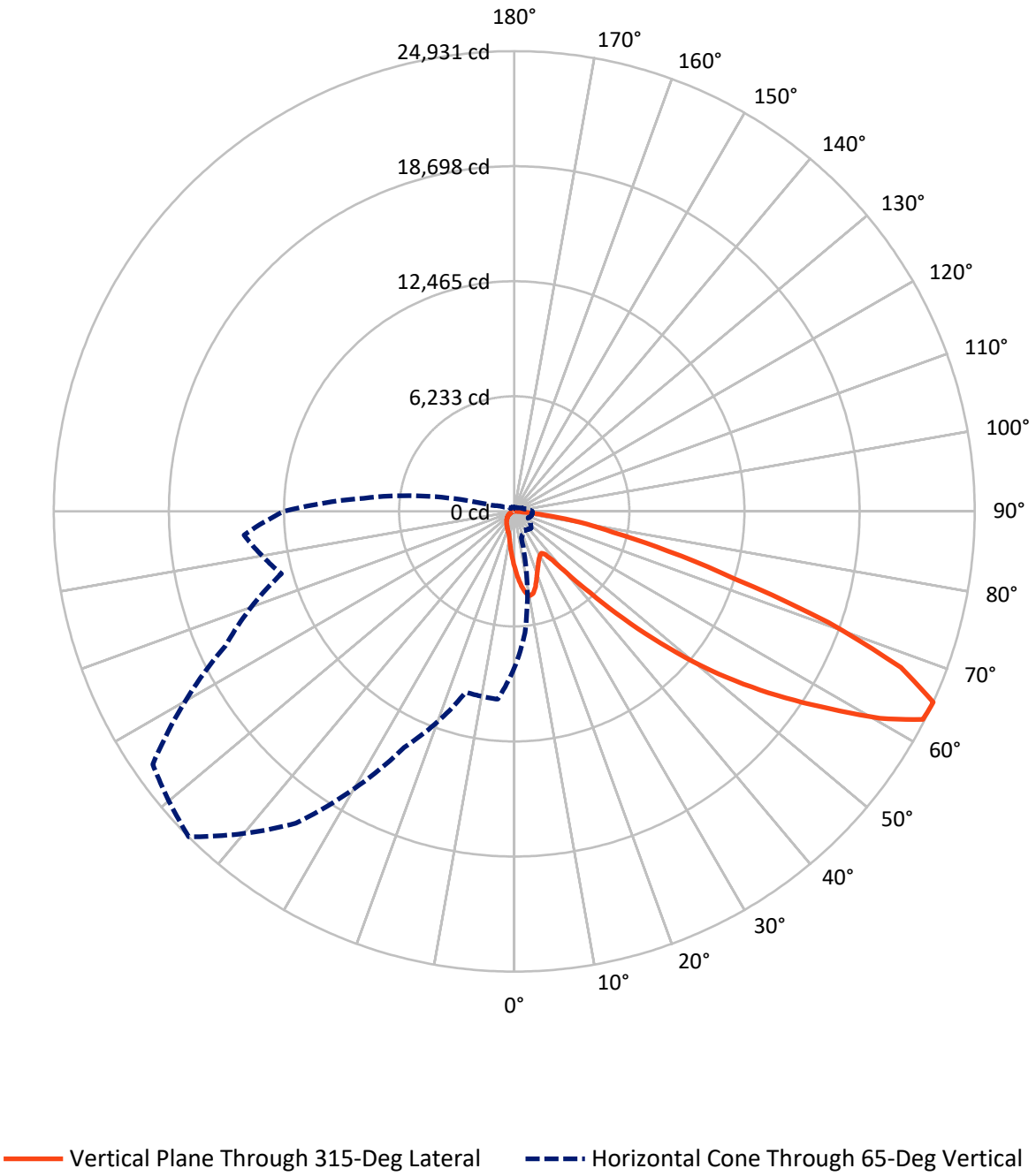
Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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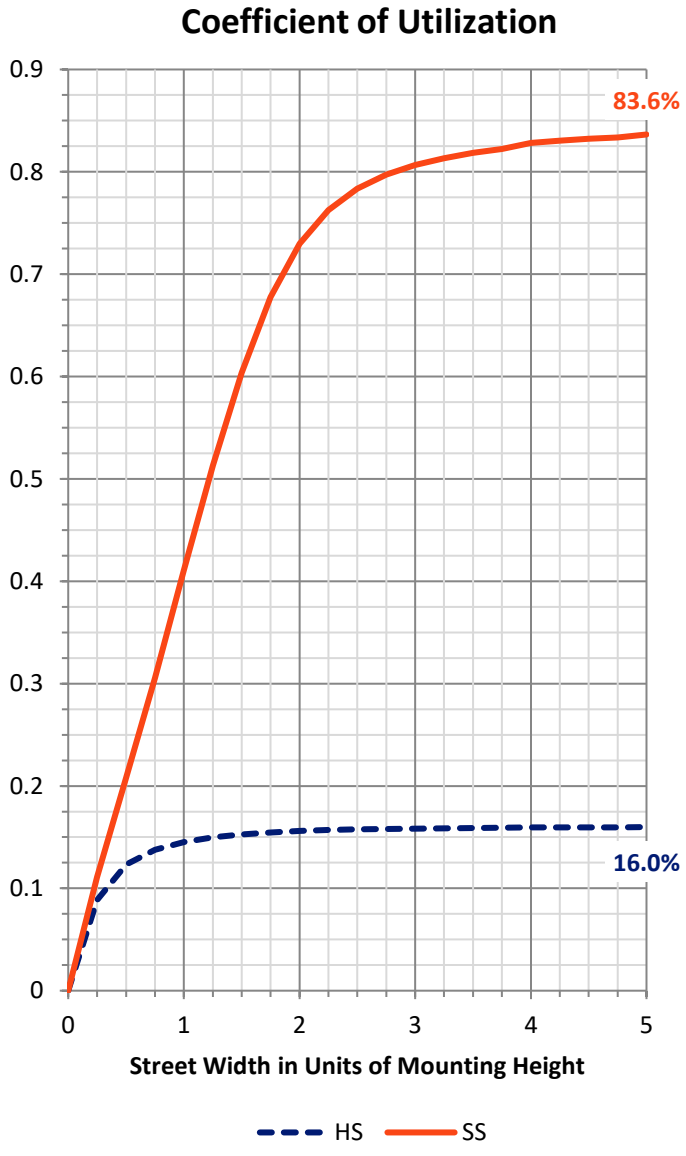
REPORT NUMBER: P1364516
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.9	0.0	2835.9
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	14707.0	0.0	14707.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	17542.9	0.0	17542.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.7
10°-20°	806.1	4.6
20°-30°	1154.5	6.6
30°-40°	1448.1	8.3
40°-50°	2378.8	13.6
50°-60°	4292.8	24.5
60°-70°	4764.1	27.2
70°-80°	2152.5	12.3
80°-90°	254.5	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°	17542.9	100.0
0°-180°	17542.9	100.0



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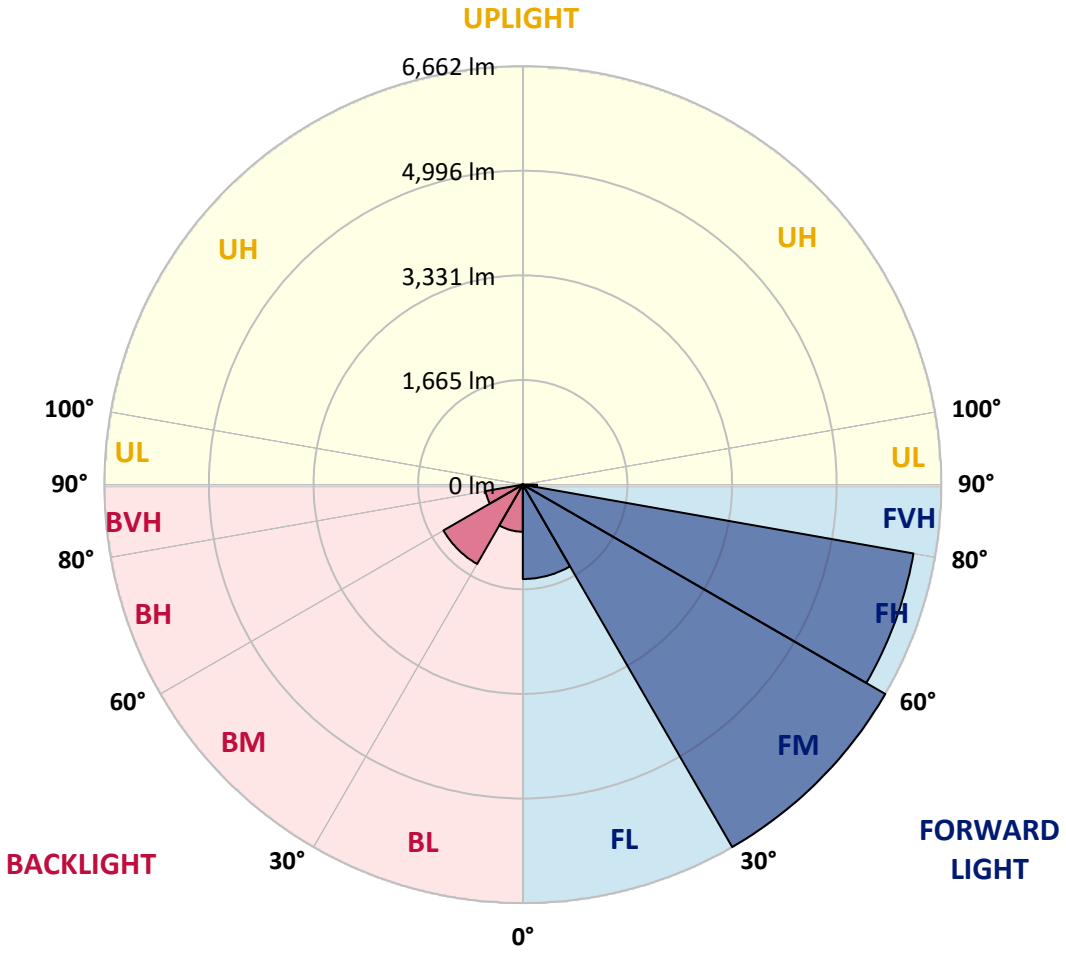
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1502.7	8.6			
FM	(30°-60°)	6661.5	38.0			
FH	(60°-80°)	6314.3	36.0			G3/7500
FVH	(80°-90°)	228.5	1.3			G3/500
BL	(0°-30°)	749.4	4.3	B2/1000		
BM	(30°-60°)	1458.2	8.3	B2/2500		
BH	(60°-80°)	602.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	26.0	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-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8
2.5°	3420.7	3417.4	3404.5	3323.7	3242.9	3172.9	3102.8	3032.8	2935.8	2860.4	2795.8
5°	3743.9	3726.6	3657.7	3533.8	3399.1	3280.6	3145.9	3016.7	2871.2	2752.7	2628.8
7.5°	3964.7	3947.5	3878.6	3673.8	3469.1	3323.7	3178.3	3043.6	2882.0	2725.8	2548.0
10°	4067.1	4047.7	3970.1	3749.3	3512.2	3334.5	3189.0	3065.1	2930.5	2774.2	2553.4
12.5°	4137.1	4113.4	4018.6	3765.4	3523.0	3345.2	3194.4	3075.9	2978.9	2887.4	2671.9
15°	4180.2	4158.7	4072.5	3808.5	3528.4	3329.1	3151.3	3038.2	3005.9	3022.0	2919.7
17.5°	4244.9	4224.4	4142.5	3862.4	3560.7	3302.2	3059.7	2935.8	3005.9	3151.3	3183.6
20°	4331.0	4309.5	4223.3	3932.4	3587.7	3221.4	2887.4	2768.9	2946.6	3189.0	3356.0
22.5°	4428.0	4410.8	4341.8	4013.2	3614.6	3102.8	2661.1	2607.2	2822.7	3081.3	3296.8
25°	4546.5	4530.4	4465.7	4126.3	3641.5	2941.2	2467.2	2478.0	2661.1	2865.8	3086.7
27.5°	4708.1	4693.0	4632.7	4266.4	3673.8	2774.2	2311.0	2364.8	2499.5	2639.6	2774.2
30°	4885.9	4874.0	4826.6	4433.4	3738.5	2618.0	2219.4	2251.7	2343.3	2456.4	2537.2
32.5°	5128.3	5108.9	5031.3	4589.6	3733.1	2499.5	2176.3	2144.0	2170.9	2262.5	2343.3
35°	5430.0	5414.9	5354.6	4751.2	3636.1	2391.8	2154.8	2041.6	2025.5	2079.3	2160.1
37.5°	5871.7	5858.8	5807.1	5015.2	3485.3	2257.1	2100.9	1933.9	1880.0	1917.7	1971.6
40°	6534.3	6500.9	6367.3	5316.8	3318.3	2122.4	2003.9	1804.6	1729.2	1756.1	1815.4
42.5°	7433.9	7370.3	7116.1	5720.9	3092.1	1993.1	1858.5	1675.3	1594.5	1610.7	1664.5
45°	8586.7	8490.8	8107.2	6275.7	2855.0	1890.8	1707.6	1540.6	1454.5	1470.6	1529.9
47.5°	9933.4	9802.0	9276.2	6857.5	2601.9	1831.5	1589.1	1406.0	1341.3	1379.0	1438.3
50°	11522.5	11390.0	10859.9	7229.2	2397.2	1793.8	1497.6	1282.1	1255.1	1303.6	1352.1
52.5°	13257.1	13068.6	12314.4	6992.2	2230.2	1761.5	1465.2	1195.9	1206.7	1244.4	1292.9
55°	14943.2	14524.1	12847.7	6205.7	2014.7	1723.8	1486.8	1131.2	1158.2	1206.7	1244.4
57.5°	16042.1	15313.8	12400.6	4999.0	1788.4	1680.7	1502.9	1098.9	1120.5	1174.3	1217.4
60°	15083.3	14350.6	11420.2	3743.9	1594.5	1589.1	1476.0	1088.1	1055.8	1131.2	1169.0
62.5°	12357.5	11754.2	9340.8	2391.8	1411.4	1416.7	1416.7	1082.8	948.1	1045.1	1077.4
65°	*8489.7*	*8112.6*	*6604.3*	*1481.4*	*1152.8*	*1206.7*	*1287.5*	*1050.4*	*835.0*	*948.1*	*980.4*
67.5°	5580.8	5303.9	4196.4	915.8	888.8	991.2	1115.1	985.8	748.8	851.1	872.7
70°	3027.4	2817.3	1977.0	603.3	581.8	775.7	878.1	835.0	673.4	759.5	781.1
72.5°	1998.5	1826.2	1136.6	425.6	425.6	608.7	614.1	684.1	603.3	673.4	694.9
75°	1502.9	1348.9	732.6	296.3	328.6	387.9	479.4	490.2	506.4	571.0	597.9
77.5°	689.5	605.5	269.3	177.8	242.4	269.3	366.3	312.4	377.1	425.6	436.3
80°	398.6	349.1	150.8	118.5	156.2	172.4	301.7	183.2	226.2	301.7	317.8
82.5°	167.0	148.7	75.4	80.8	97.0	102.4	167.0	129.3	145.4	199.3	193.9
85°	48.5	48.5	48.5	53.9	59.3	59.3	97.0	91.6	86.2	91.6	91.6
87.5°	32.3	32.3	32.3	32.3	37.7	37.7	43.1	48.5	53.9	53.9	53.9
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°	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8
2.5°	2768.9	2731.1	2682.7	2612.6	2601.9	2564.2	2537.2	2564.2	2591.1	2639.6	2645.0
5°	2564.2	2504.9	2391.8	2305.6	2208.6	2160.1	2154.8	2144.0	2176.3	2246.3	2289.4
7.5°	2451.0	2354.1	2149.4	1998.5	1863.9	1815.4	1777.7	1810.0	1804.6	1896.2	1933.9
10°	2424.1	2273.3	1987.8	1761.5	1594.5	1529.9	1492.2	1486.8	1497.6	1551.4	1589.1
12.5°	2521.1	2327.1	1923.1	1589.1	1395.2	1325.2	1282.1	1244.4	1244.4	1255.1	1303.6
15°	2736.5	2504.9	1960.8	1508.3	1298.2	1206.7	1136.6	1088.1	1050.4	1055.8	1061.2
17.5°	3038.2	2763.5	2057.8	1481.4	1239.0	1142.0	1055.8	1007.3	964.3	953.5	953.5
20°	3275.2	3011.3	2133.2	1459.8	1190.5	1066.6	991.2	948.1	910.4	894.2	894.2
22.5°	3302.2	3113.6	2197.8	1432.9	1131.2	991.2	921.2	883.4	856.5	851.1	851.1
25°	3124.4	3032.8	2176.3	1400.6	1072.0	921.2	867.3	835.0	808.0	802.6	808.0
27.5°	2828.1	2779.6	2100.9	1357.5	1023.5	867.3	818.8	791.9	764.9	759.5	764.9
30°	2564.2	2510.3	1971.6	1287.5	985.8	824.2	770.3	743.4	716.5	716.5	721.8
32.5°	2348.7	2294.8	1842.3	1206.7	937.3	775.7	727.2	700.3	673.4	673.4	684.1
35°	2154.8	2111.7	1740.0	1125.9	888.8	732.6	678.7	657.2	635.7	630.3	641.0
37.5°	1987.8	1966.2	1648.4	1039.7	840.4	689.5	641.0	619.5	592.6	587.2	597.9
40°	1826.2	1815.4	1546.0	964.3	781.1	646.4	597.9	576.4	544.1	544.1	554.8
42.5°	1675.3	1669.9	1454.5	915.8	727.2	603.3	549.5	527.9	501.0	501.0	511.8
45°	1556.8	1551.4	1368.3	888.8	673.4	554.8	506.4	479.4	457.9	463.3	474.0
47.5°	1449.1	1438.3	1276.7	894.2	646.4	522.5	457.9	431.0	414.8	425.6	441.7
50°	1362.9	1352.1	1212.0	899.6	603.3	479.4	420.2	393.2	382.5	398.6	414.8
52.5°	1309.0	1298.2	1147.4	867.3	549.5	447.1	382.5	366.3	366.3	382.5	393.2
55°	1255.1	1244.4	1039.7	797.3	490.2	414.8	355.5	344.8	344.8	360.9	371.7
57.5°	1222.8	1201.3	926.5	716.5	441.7	377.1	328.6	328.6	328.6	334.0	339.4
60°	1174.3	1120.5	808.0	614.1	404.0	339.4	307.1	301.7	301.7	296.3	301.7
62.5°	1072.0	980.4	678.7	522.5	360.9	307.1	280.1	274.7	258.6	242.4	247.8
65°	*969.6*	*829.6*	*538.7*	*436.3*	*312.4*	*264.0*	*247.8*	*242.4*	*215.5*	*193.9*	*199.3*
67.5°	840.4	662.6	404.0	366.3	269.3	226.2	210.1	210.1	193.9	177.8	177.8
70°	748.8	517.1	339.4	274.7	215.5	177.8	177.8	188.5	172.4	150.8	150.8
72.5°	662.6	420.2	274.7	220.9	167.0	140.1	150.8	156.2	140.1	123.9	123.9
75°	565.6	328.6	215.5	172.4	123.9	107.7	113.1	123.9	113.1	97.0	102.4
77.5°	409.4	226.2	145.4	113.1	91.6	80.8	86.2	86.2	80.8	75.4	75.4
80°	285.5	150.8	97.0	75.4	64.6	59.3	59.3	53.9	53.9	59.3	59.3
82.5°	172.4	107.7	70.0	59.3	48.5	37.7	37.7	43.1	43.1	48.5	48.5
85°	75.4	64.6	48.5	43.1	32.3	26.9	32.3	32.3	37.7	43.1	43.1
87.5°	48.5	48.5	37.7	32.3	26.9	21.5	21.5	26.9	26.9	32.3	37.7
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°	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8
2.5°	2666.5	2720.4	2785.0	2876.6	2957.4	3054.4	3151.3	3242.9	3329.1	3339.9	3377.6
5°	2321.7	2424.1	2553.4	2704.2	2887.4	3081.3	3269.8	3469.1	3630.8	3690.0	3776.2
7.5°	1966.2	2095.5	2284.0	2515.7	2774.2	3065.1	3356.0	3636.1	3878.6	3991.7	4104.8
10°	1626.8	1750.7	1982.4	2262.5	2596.5	2989.7	3377.6	3754.7	4050.9	4180.2	4288.0
12.5°	1319.8	1443.7	1632.2	1955.4	2359.5	2833.5	3345.2	3797.7	4126.3	4261.0	4363.4
15°	1077.4	1179.7	1357.5	1659.2	2084.7	2618.0	3232.1	3765.4	4142.5	4271.8	4347.2
17.5°	948.1	975.0	1088.1	1362.9	1826.2	2424.1	3086.7	3722.3	4153.3	4271.8	4314.9
20°	894.2	894.2	915.8	1061.2	1513.7	2219.4	2978.9	3695.4	4169.4	4288.0	4282.6
22.5°	845.7	856.5	856.5	888.8	1152.8	1933.9	2865.8	3684.6	4217.9	4309.5	4234.1
25°	802.6	818.8	818.8	829.6	905.0	1594.5	2725.8	3706.2	4304.1	4352.6	4201.8
27.5°	764.9	781.1	781.1	791.9	808.0	1185.1	2494.1	3711.6	4401.1	4406.5	4158.7
30°	727.2	743.4	754.2	754.2	764.9	872.7	2203.2	3679.2	4508.8	4476.5	4153.3
32.5°	684.1	705.7	711.1	721.8	727.2	759.5	1826.2	3625.4	4643.5	4573.5	4158.7
35°	646.4	673.4	678.7	678.7	689.5	721.8	1459.8	3566.1	4826.6	4702.7	4180.2
37.5°	608.7	630.3	635.7	641.0	651.8	684.1	1158.2	3479.9	4982.9	4864.3	4288.0
40°	565.6	592.6	597.9	603.3	614.1	646.4	996.6	3372.2	5219.9	5133.7	4449.6
42.5°	522.5	549.5	560.2	565.6	571.0	614.1	910.4	3296.8	5602.4	5510.8	4778.2
45°	484.8	511.8	522.5	522.5	533.3	592.6	835.0	3463.8	6130.3	6087.2	5219.9
47.5°	452.5	479.4	484.8	484.8	490.2	560.2	770.3	3910.9	6938.3	6825.2	5909.4
50°	425.6	447.1	457.9	447.1	452.5	533.3	808.0	4648.9	7972.6	8010.3	6922.1
52.5°	404.0	425.6	431.0	409.4	409.4	495.6	856.5	5252.2	9292.4	9637.1	8527.4
55°	377.1	398.6	404.0	377.1	377.1	436.3	743.4	5289.9	10795.3	11905.0	10617.5
57.5°	350.1	371.7	371.7	350.1	344.8	377.1	603.3	4692.0	11958.9	14474.5	13478.0
60°	317.8	339.4	334.0	323.2	312.4	344.8	554.8	3576.9	11802.6	16149.9	16758.6
62.5°	258.6	290.9	301.7	296.3	274.7	312.4	517.1	2332.5	10213.5	14695.4	16656.2
65°	*215.5*	*242.4*	*258.6*	*258.6*	*242.4*	*344.8*	*452.5*	*1228.2*	*8177.3*	*12470.6*	*14684.6*
67.5°	188.5	215.5	226.2	220.9	210.1	307.1	285.5	592.6	6270.3	10746.8	13144.0
70°	167.0	188.5	199.3	183.2	172.4	247.8	204.7	350.1	4196.4	8969.1	11705.7
72.5°	134.7	156.2	167.0	150.8	134.7	183.2	156.2	231.6	2731.1	7644.0	10402.1
75°	107.7	129.3	134.7	123.9	107.7	134.7	123.9	161.6	1783.1	6324.2	8845.3
77.5°	80.8	91.6	102.4	97.0	80.8	97.0	86.2	113.1	1018.1	4438.8	6205.7
80°	64.6	70.0	70.0	70.0	64.6	59.3	59.3	75.4	457.9	2187.1	3237.5
82.5°	53.9	59.3	59.3	53.9	48.5	43.1	37.7	43.1	134.7	980.4	1492.2
85°	48.5	53.9	43.1	37.7	32.3	26.9	16.2	16.2	37.7	156.2	290.9
87.5°	37.7	32.3	26.9	21.5	10.8	5.4	5.4	0.0	5.4	5.4	5.4
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: P1364516
CATALOG NUMBER: GSS-SB4B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3032.8	3032.8	3032.8	*3032.8*	3032.8	3032.8	3032.8	3032.8	3032.8	3032.8
2.5°	3436.8	3490.7	3528.4	*3560.7*	3550.0	3523.0	3469.1	3431.4	3422.8	3420.7
5°	3889.3	3975.5	4050.9	*4040.2*	4050.9	3970.1	3889.3	3792.4	3753.6	3743.9
7.5°	4266.4	4374.1	4465.7	*4454.9*	4422.6	4331.0	4196.4	4050.9	3982.0	3964.7
10°	4471.1	4595.0	4670.4	*4643.5*	4589.6	4471.1	4336.4	4164.1	4086.5	4067.1
12.5°	4508.8	4589.6	4573.5	*4562.7*	4551.9	4492.7	4390.3	4234.1	4156.5	4137.1
15°	4411.9	4379.5	4288.0	*4266.4*	4347.2	4422.6	4401.1	4271.8	4198.5	4180.2
17.5°	4250.2	4083.3	3916.3	*3894.7*	4029.4	4239.5	4406.5	4331.0	4262.1	4244.9
20°	4072.5	3760.0	3576.9	*3539.2*	3706.2	4018.6	4347.2	4390.3	4342.9	4331.0
22.5°	3862.4	3496.1	3302.2	*3280.6*	3404.5	3770.8	4261.0	4454.9	4433.4	4428.0
25°	3679.2	3264.4	3081.3	*3049.0*	3210.6	3566.1	4174.8	4562.7	4549.8	4546.5
27.5°	3528.4	3097.5	2903.5	*2882.0*	3038.2	3393.7	4067.1	4654.3	4697.4	4708.1
30°	3409.9	2973.6	2779.6	*2752.7*	2925.1	3275.2	3991.7	4783.5	4865.4	4885.9
32.5°	3318.3	2903.5	2720.4	*2704.2*	2887.4	3226.7	3948.6	4918.2	5086.3	5128.3
35°	3286.0	2925.1	2801.2	*2838.9*	2978.9	3275.2	3980.9	5139.1	5371.8	5430.0
37.5°	3356.0	3162.1	3248.3	*3345.2*	3399.1	3506.9	4131.7	5494.6	5796.3	5871.7
40°	3582.3	3797.7	4201.8	*4390.3*	4368.8	4121.0	4476.5	5995.6	6426.5	6534.3
42.5°	4158.7	4859.0	5715.5	*6033.3*	5850.1	5101.4	5026.0	6819.8	7311.1	7433.9
45°	5015.2	6141.0	7547.0	*8263.5*	7633.2	6345.7	5893.2	7994.1	8468.2	8586.7
47.5°	5871.7	7573.9	9809.5	*10660.6*	9421.6	7579.3	7029.9	9400.1	9826.7	9933.4
50°	6744.4	9157.7	12066.6	*13203.2*	11204.7	8834.5	8236.5	11134.7	11445.0	11522.5
52.5°	7644.0	10574.4	14555.3	*15535.8*	13068.6	9804.1	9615.6	13025.5	13210.8	13257.1
55°	8645.9	11915.8	17049.5	*17841.3*	14765.4	10649.9	11231.6	15002.4	14955.0	14943.2
57.5°	9981.9	13327.1	19058.8	*20163.1*	16306.1	11791.9	13391.8	17200.3	16273.8	16042.1
60°	12314.4	15519.6	21558.3	*22759.6*	18369.2	13461.8	14980.9	17151.8	15497.0	15083.3
62.5°	15018.6	17631.2	23820.8	*24833.5*	20540.2	15121.0	13715.0	14404.5	12766.9	12357.5
65°	*13047.0*	*17259.6*	*23890.8*	*24930.5*	*20621.0*	*14108.2*	*10138.1*	*10213.5*	*8834.5*	*8489.7*
67.5°	11102.4	15298.7	21757.6	*22576.4*	18396.2	11662.6	6722.8	6663.6	5797.4	5580.8
70°	9884.9	13402.5	18751.7	*18046.0*	15465.7	9858.0	4465.7	3700.8	3162.1	3027.4
72.5°	8883.0	10633.7	15196.4	*12438.3*	12831.5	8021.1	2838.9	2521.1	2103.0	1998.5
75°	8042.6	8796.8	9480.9	*8597.5*	9114.6	6609.7	2407.9	1944.7	1591.3	1502.9
77.5°	6399.6	6846.7	5613.1	*5451.5*	6383.4	4702.7	1195.9	818.8	715.4	689.5
80°	3808.5	3237.5	3183.6	*3630.8*	4250.2	2440.3	732.6	452.5	409.4	398.6
82.5°	2305.6	1169.0	1271.3	*1605.3*	2262.5	1109.7	436.3	193.9	172.4	167.0
85°	387.9	317.8	490.2	*468.7*	441.7	237.0	118.5	53.9	49.6	48.5
87.5°	10.8	16.2	21.5	*26.9*	26.9	26.9	26.9	26.9	31.2	32.3
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

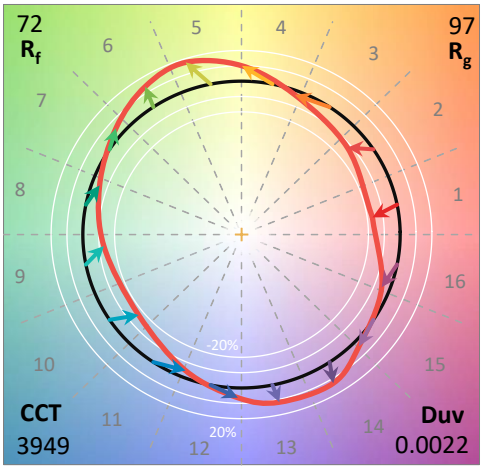
Test Information

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

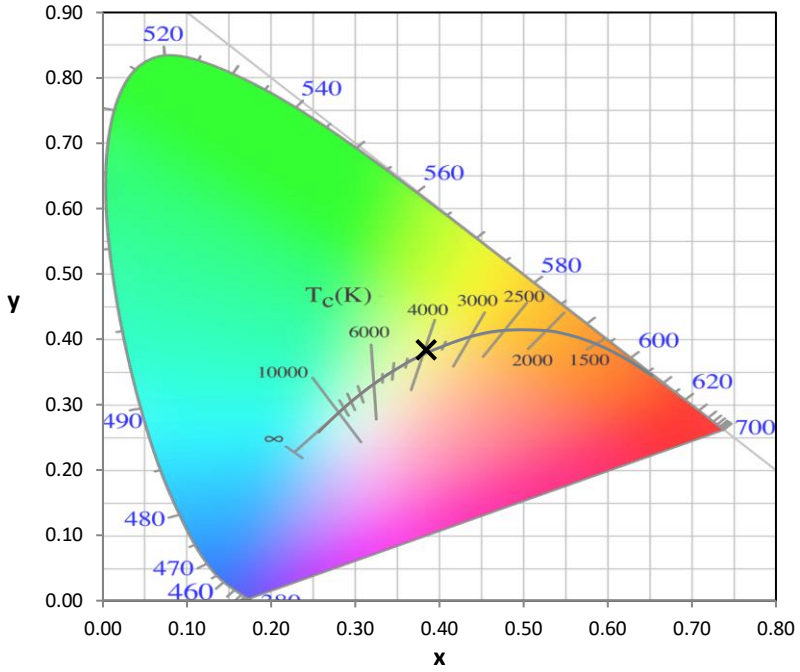
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

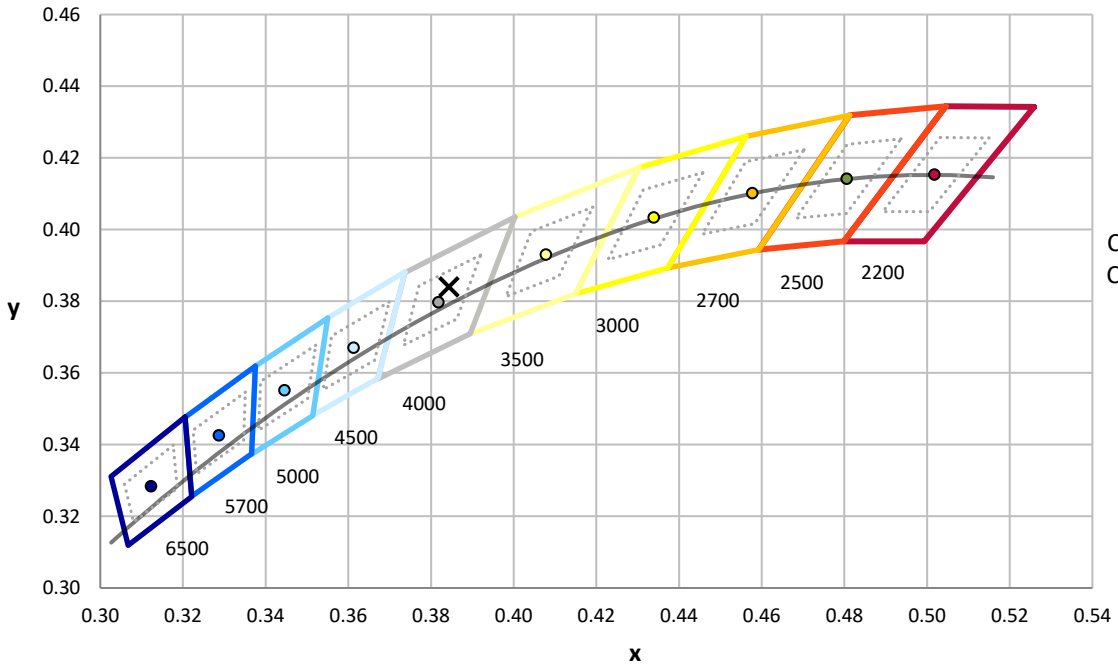
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

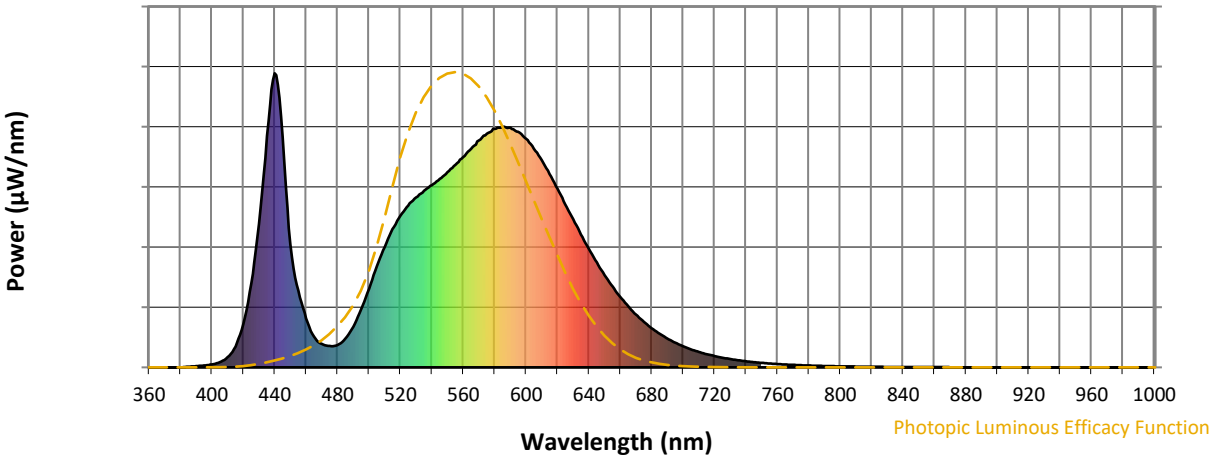


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

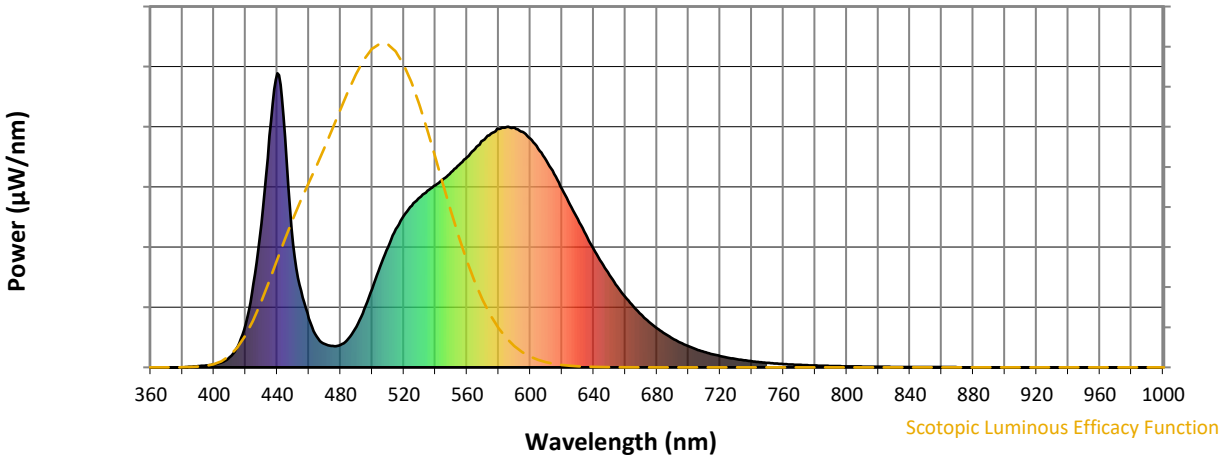


Photopic Lumens: NR

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

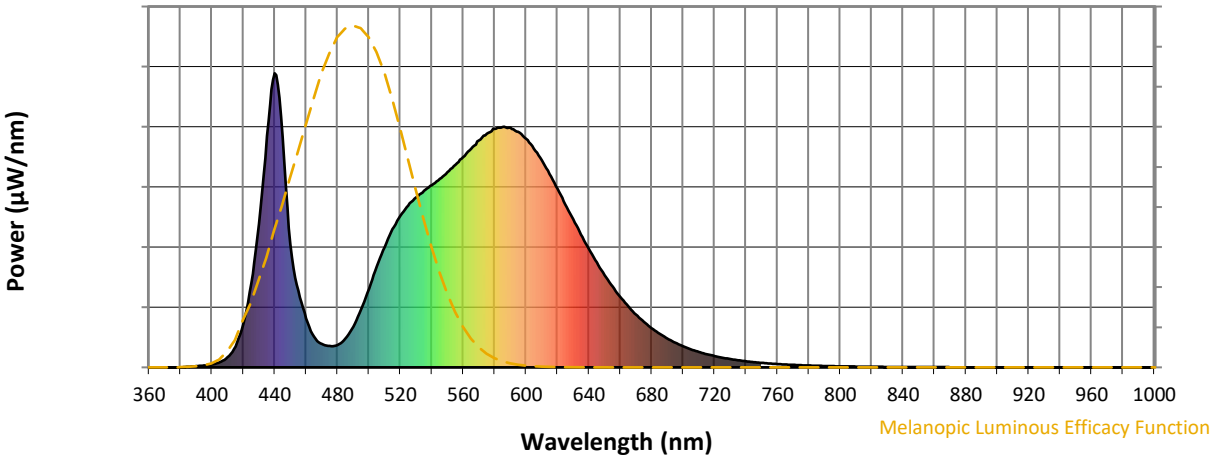


Scotopic Lumens: NR **S/P: 1.47**

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			

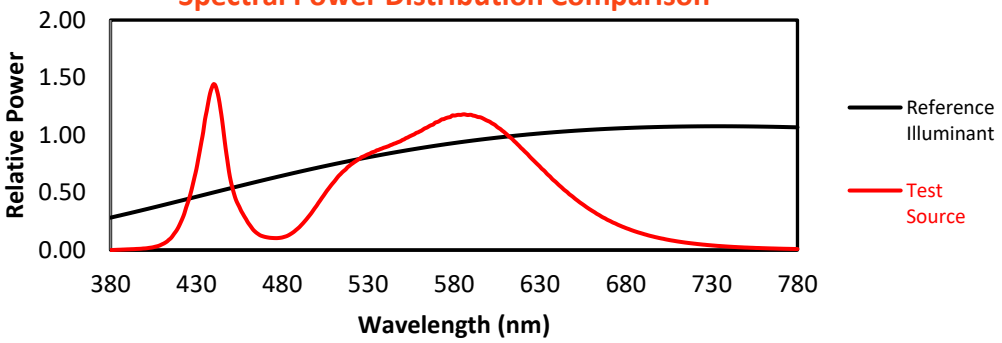
REPORT NUMBER: SP1-2407-184-1

TM-30-18

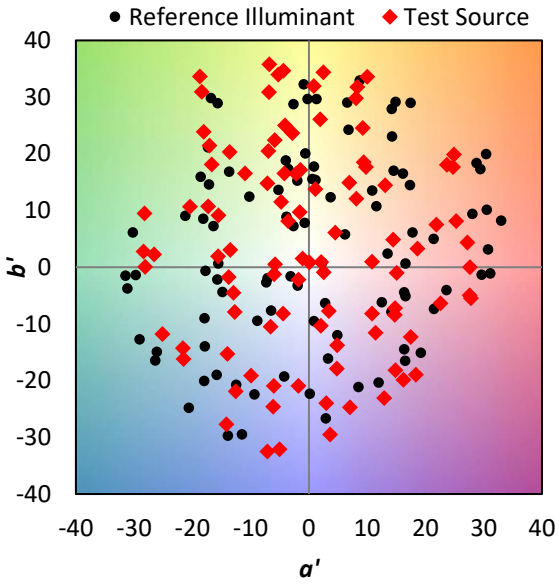
Summary

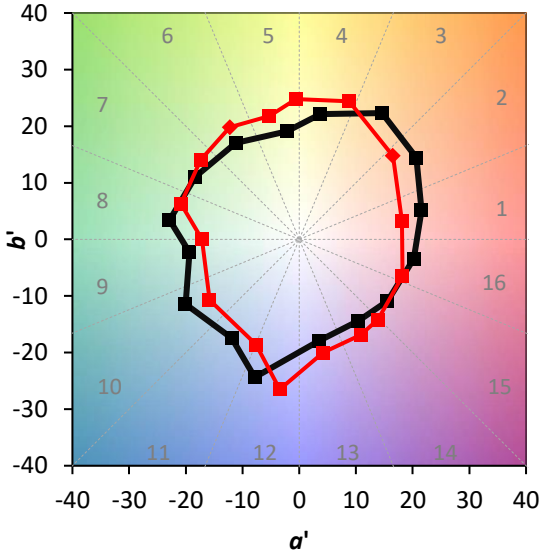
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

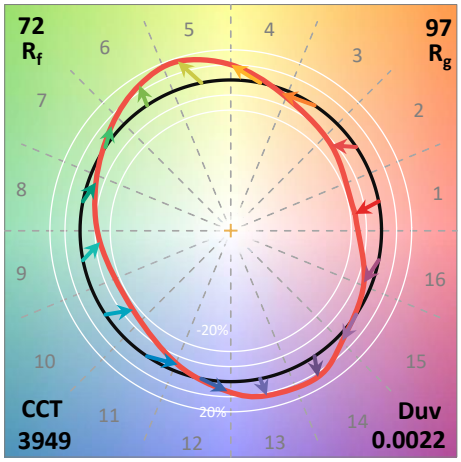
Spectral Power Distribution Comparison

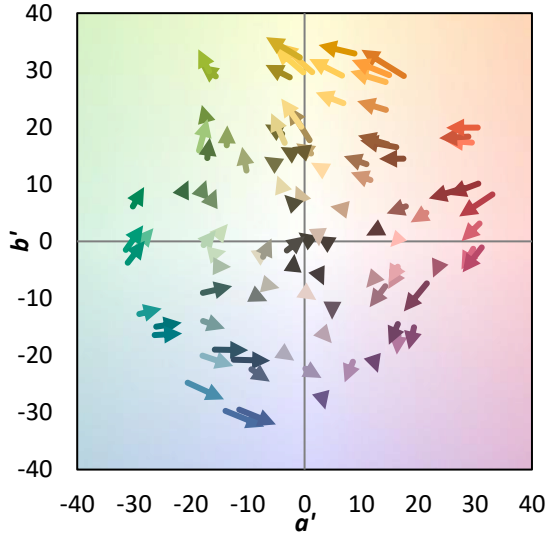


Color Vector Graphics







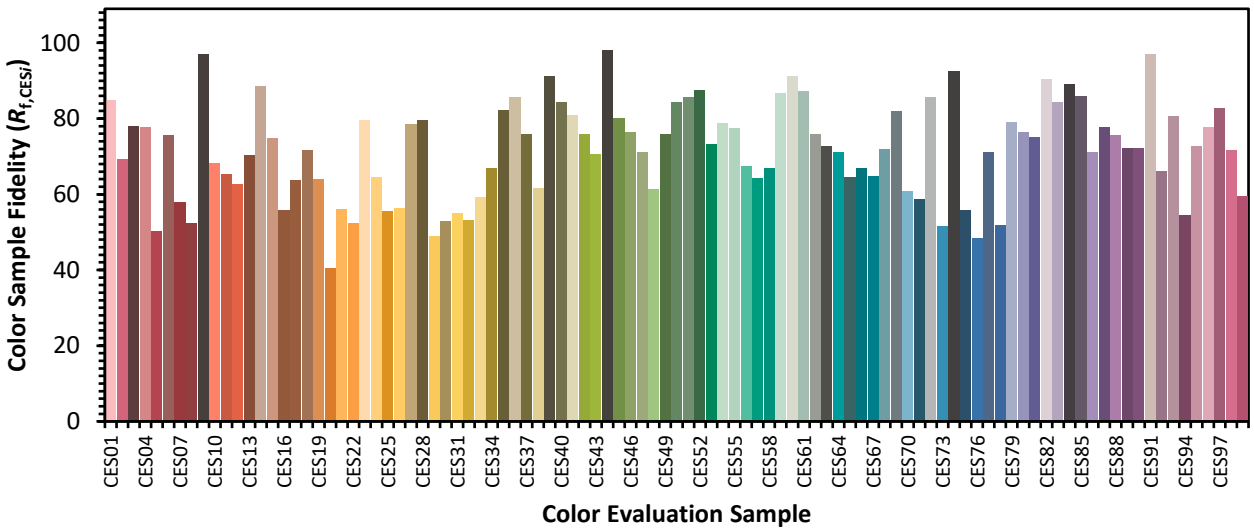


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Individual Sample Fidelity Index ($R_{f,i}$)

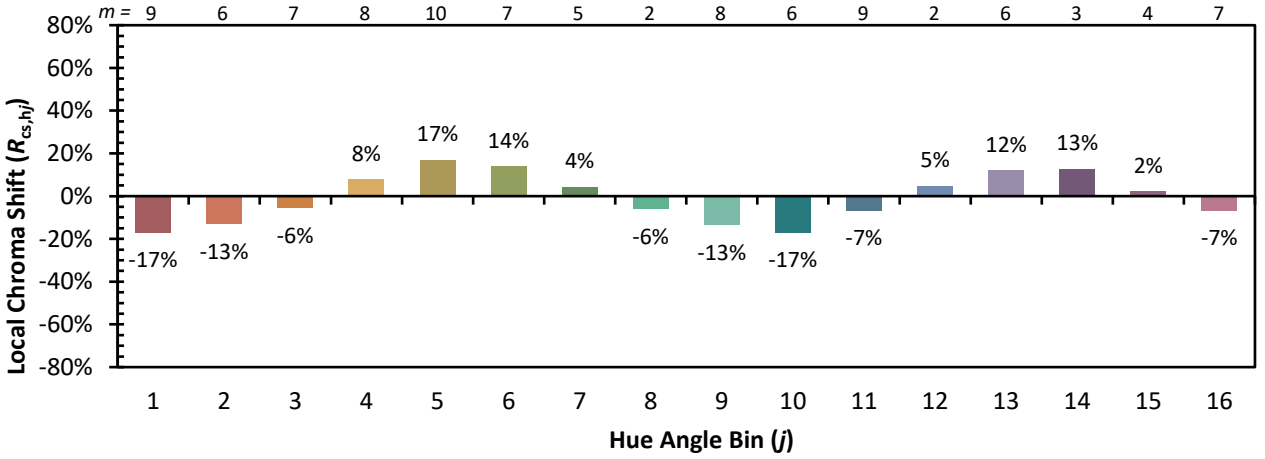
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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	

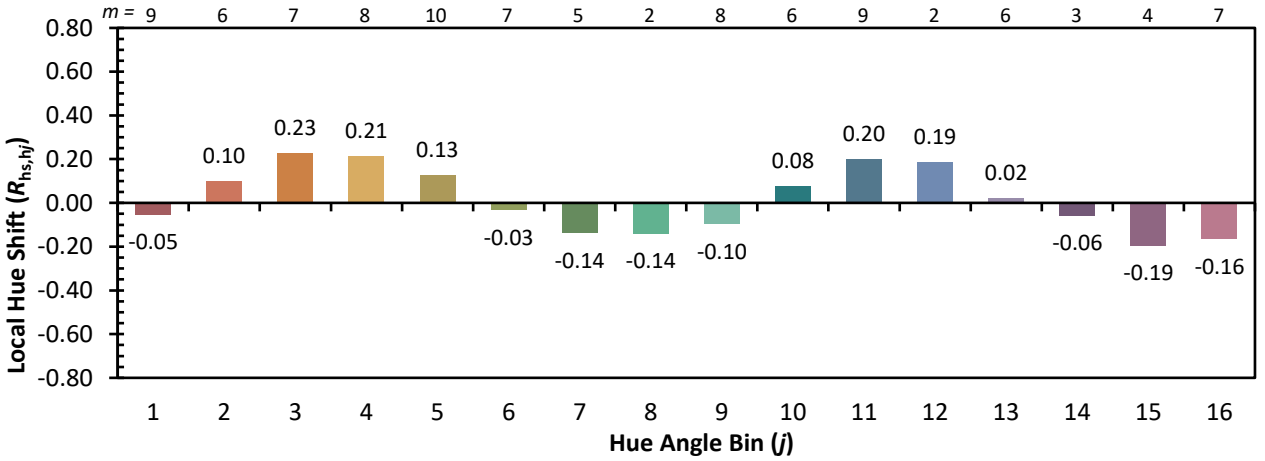


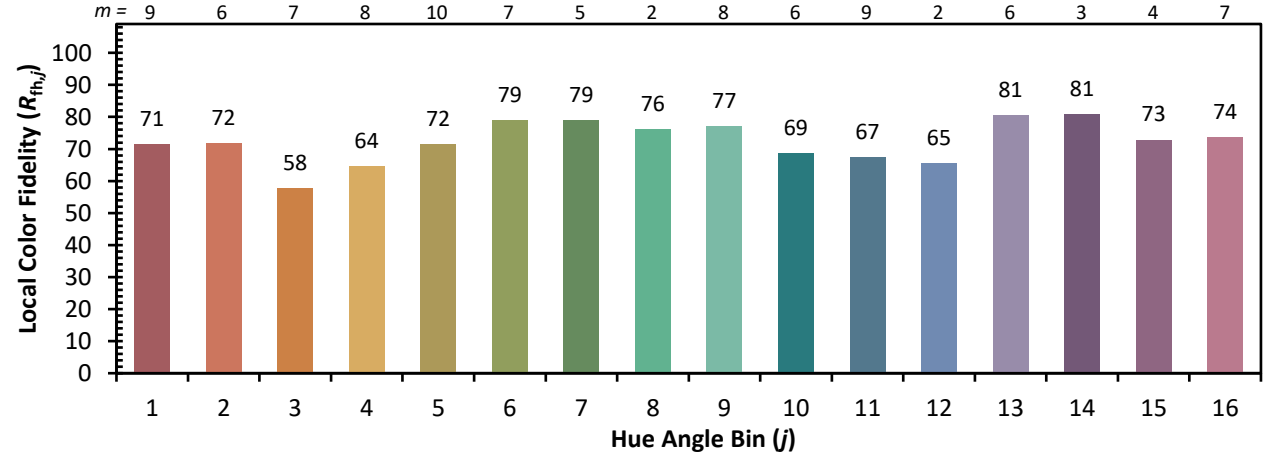
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Color Rendition by Hue-Angle Bin



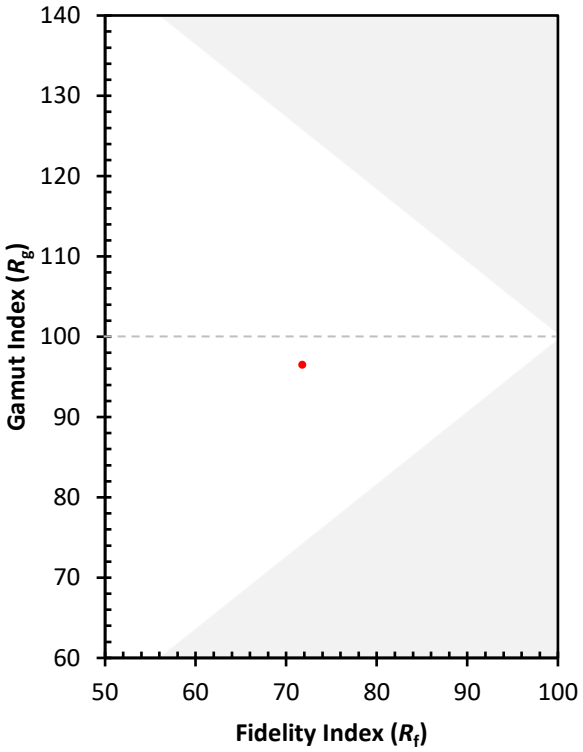


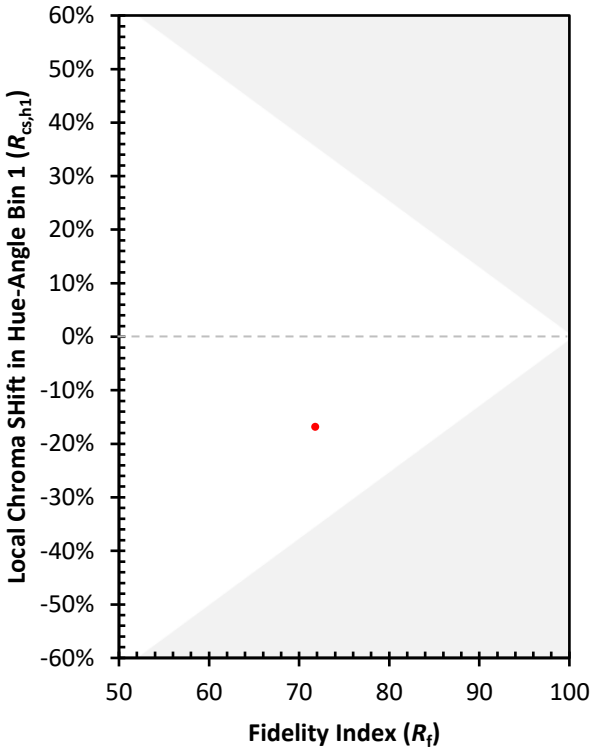


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Measure Comparisons





(END OF REPORT)