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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501933

Luminaire Tested: GSS-SB3A-835-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501933
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-835-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(78) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9427.4 lumens
Efficiency:	N/A
Efficacy:	110.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

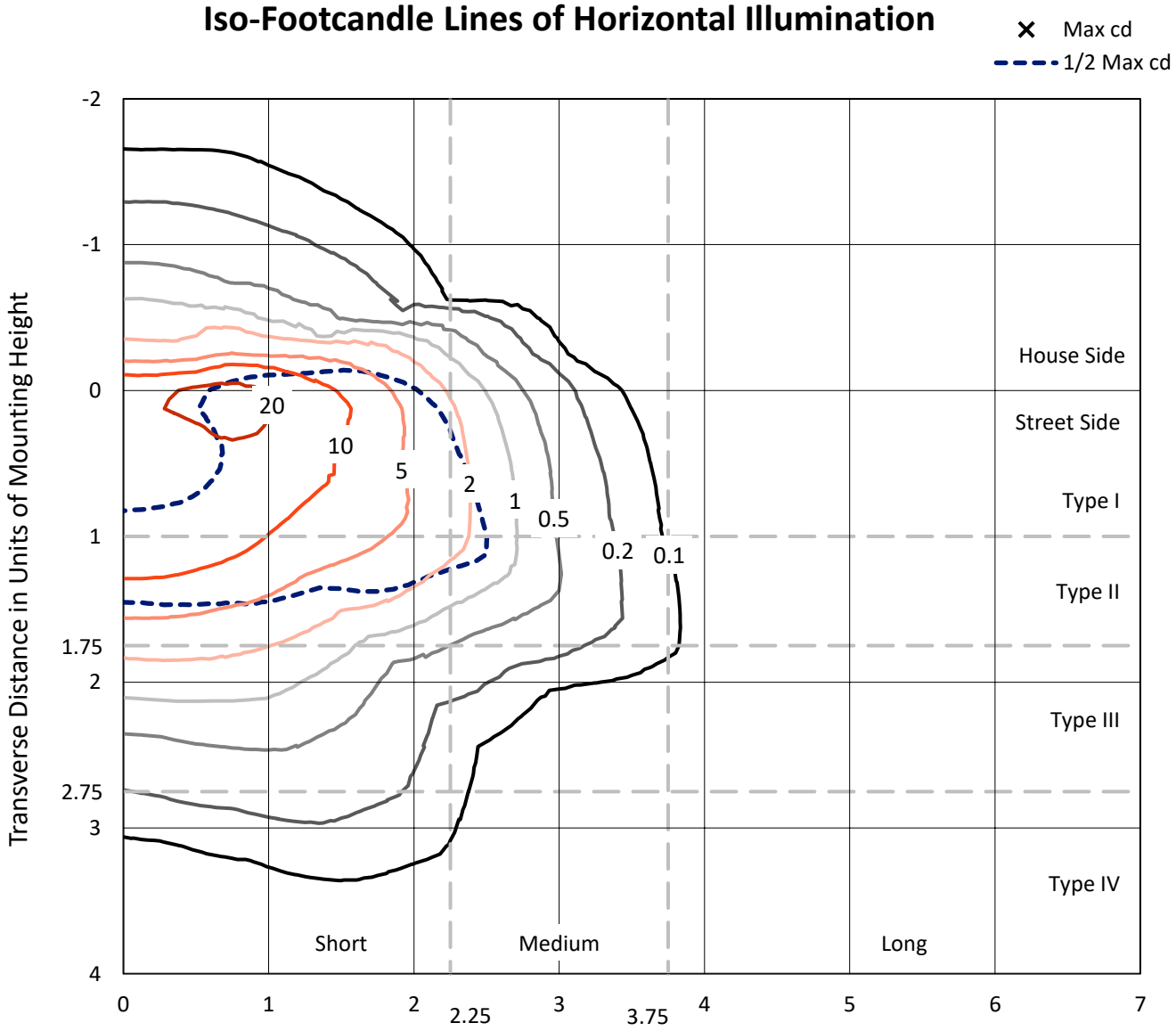
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



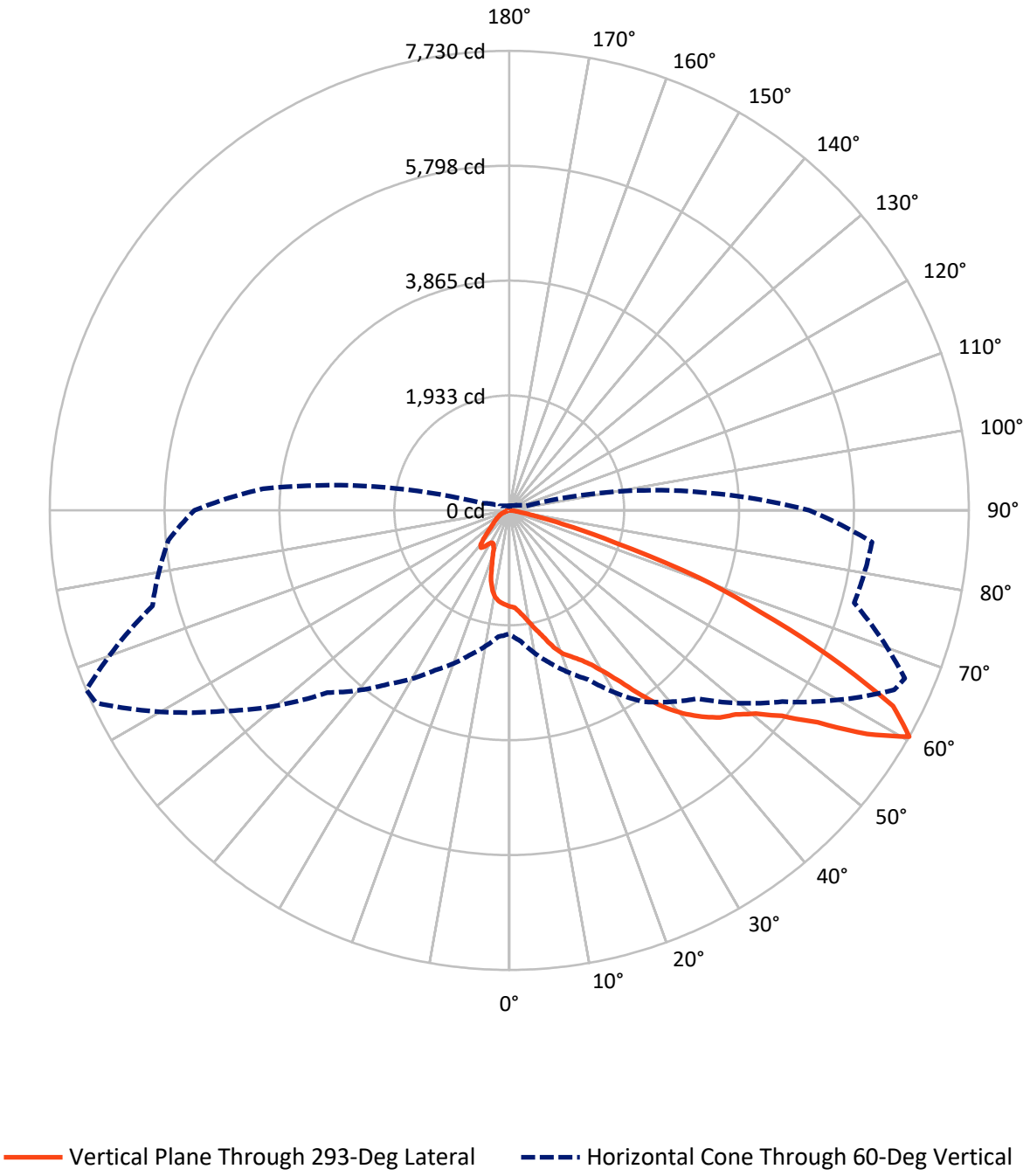
Based on 10 foot mounting height. Maximum calculated value = 26.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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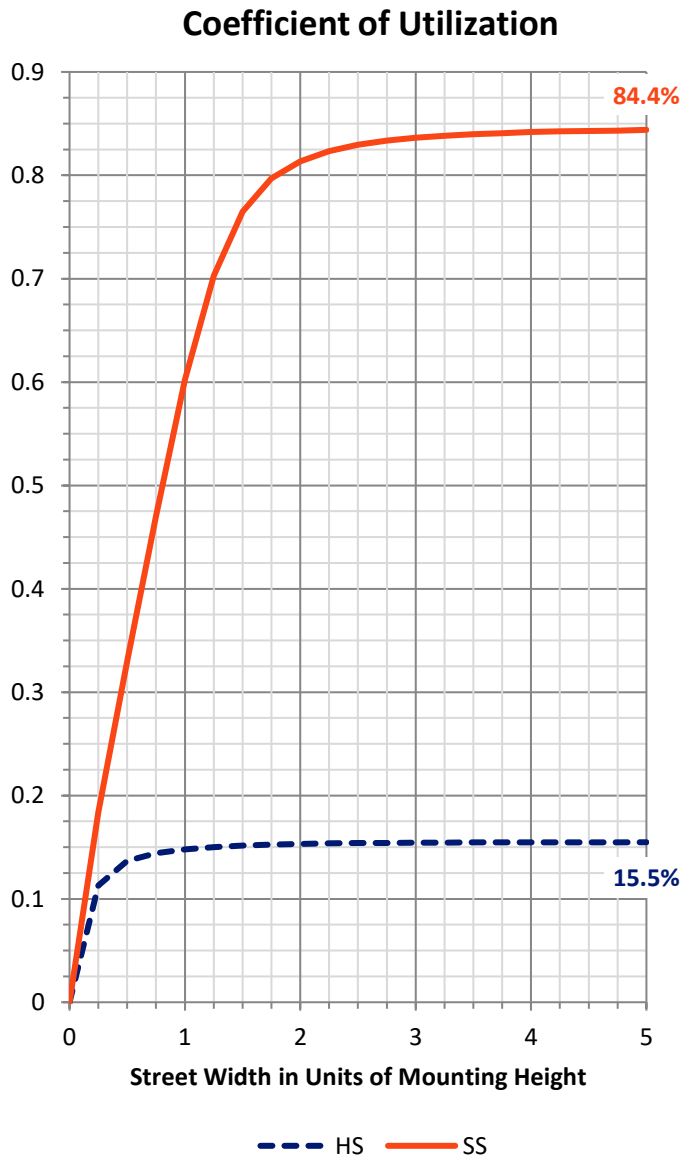
REPORT NUMBER: P1501933
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1470.9	0.0	1470.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	7956.5	0.0	7956.5
	% Fixture	84.4	0.0	84.4
Total	Lumens	9427.4	0.0	9427.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	1.6
10°-20°	368.5	3.9
20°-30°	687.9	7.3
30°-40°	1364.1	14.5
40°-50°	2174.9	23.1
50°-60°	2598.4	27.6
60°-70°	1703.4	18.1
70°-80°	356.9	3.8
80°-90°	27.0	0.3
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°	9427.4	100.0
0°-180°	9427.4	100.0



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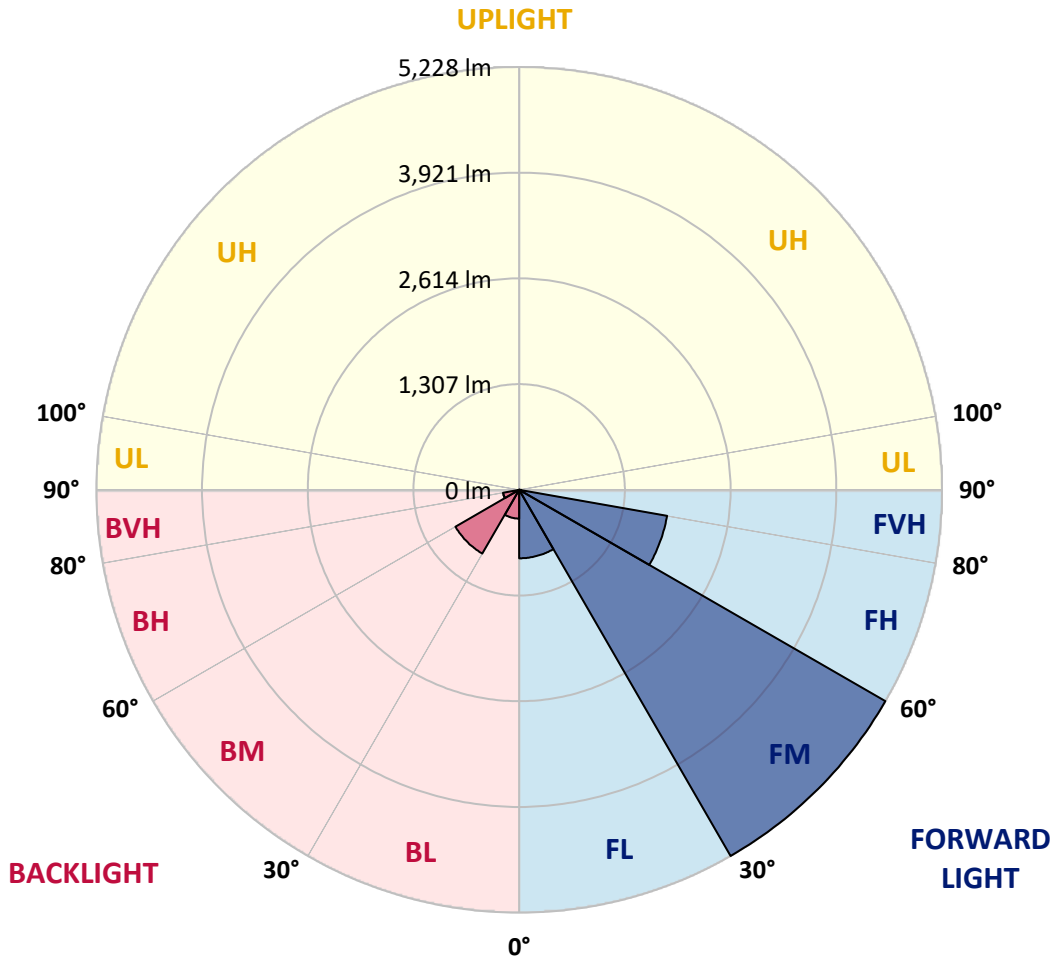
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	846.8	9.0			
FM	(30°-60°)	5227.8	55.5			
FH	(60°-80°)	1857.1	19.7			G2/5000
FVH	(80°-90°)	24.7	0.3			G1/100
BL	(0°-30°)	355.9	3.8	B1/500		
BM	(30°-60°)	909.6	9.6	B1/1000		
BH	(60°-80°)	203.2	2.2	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8
2.5°	1697.6	1692.3	1684.4	1687.0	1684.4	1673.8	1658.0	1644.8	1655.4	1639.5	1629.0
5°	1747.8	1747.8	1742.5	1742.5	1745.1	1739.8	1729.3	1710.8	1713.4	1700.2	1665.9
7.5°	1747.8	1739.8	1753.0	1766.2	1790.0	1803.2	1808.5	1797.9	1803.2	1776.8	1731.9
10°	1644.8	1639.5	1673.8	1724.0	1792.6	1853.4	1893.0	1895.6	1903.5	1877.1	1824.3
12.5°	1425.7	1415.1	1483.8	1578.8	1718.7	1858.6	1969.5	2011.8	2030.3	2019.7	1945.8
15°	1222.4	1235.6	1283.1	1386.1	1573.5	1787.4	2011.8	2151.7	2178.1	2191.3	2104.2
17.5°	1201.3	1203.9	1219.7	1269.9	1412.5	1671.2	2017.1	2296.9	2333.9	2392.0	2273.1
20°	1259.3	1254.1	1269.9	1285.7	1354.4	1568.2	1966.9	2436.8	2508.1	2632.2	2502.8
22.5°	1367.6	1367.6	1375.5	1386.1	1420.4	1560.3	1945.8	2566.2	2687.6	2941.1	2790.6
25°	1549.8	1528.6	1533.9	1520.7	1549.8	1655.4	1993.3	2669.2	2835.5	3284.3	3133.8
27.5°	1832.2	1840.2	1792.6	1721.4	1737.2	1827.0	2109.5	2785.3	2988.6	3640.7	3482.3
30°	2223.0	2209.8	2180.7	2040.8	1977.5	2056.7	2323.3	2975.4	3194.6	4092.2	3947.0
32.5°	2529.2	2566.2	2516.0	2418.4	2320.7	2344.4	2624.3	3281.7	3445.4	4506.7	4427.5
35°	2898.9	2898.9	2909.4	2772.1	2706.1	2700.8	3001.8	3614.3	3778.0	4881.6	4937.0
37.5°	3397.8	3363.5	3305.4	3152.3	3102.1	3168.2	3355.6	3957.5	4134.4	5185.2	5333.1
40°	3817.6	3841.4	3833.5	3611.7	3514.0	3585.3	3751.6	4250.6	4387.9	5380.6	5652.5
42.5°	4229.5	4242.7	4208.4	4102.8	3960.2	3965.5	4102.8	4472.4	4612.3	5568.0	5953.5
45°	4538.4	4535.7	4512.0	4485.6	4401.1	4314.0	4337.7	4717.9	4839.3	5628.7	6117.2
47.5°	4636.1	4657.2	4678.3	4752.2	4810.3	4673.0	4551.6	4849.9	4960.8	5618.2	6177.9
50°	4546.3	4591.2	4694.1	4805.0	5003.0	4992.5	4731.1	4992.5	5100.7	5676.3	6249.2
52.5°	4345.6	4390.5	4527.8	4728.5	5026.8	5174.6	5063.8	5232.7	5359.5	5824.1	6397.0
55°	3878.3	3896.8	4179.3	4443.3	4908.0	5095.4	5420.2	5639.3	5744.9	6003.6	6592.4
57.5°	3157.6	3202.5	3479.7	3910.0	4575.3	4886.9	5623.5	6333.7	6331.0	6175.3	6634.6
60°	*2077.8*	*2209.8*	*2661.2*	*3136.5*	*3931.1*	*4477.7*	*5610.3*	*7146.8*	*7228.7*	*6006.3*	*6125.1*
62.5°	1586.7	1642.2	1898.2	2294.3	2909.4	3712.0	5523.1	7389.7	7453.1	5552.2	5362.1
65°	1193.3	1262.0	1507.5	1861.3	2054.0	2516.0	4952.9	6423.4	6510.5	4955.5	4168.8
67.5°	731.3	786.8	1114.1	1528.6	1555.0	1563.0	3342.4	4865.8	4897.4	3997.1	2806.5
70°	488.4	543.9	770.9	1174.9	1238.2	900.3	1834.9	3683.0	3680.3	2735.2	1705.5
72.5°	282.5	308.9	488.4	866.0	974.2	572.9	916.1	2341.8	2238.8	1285.7	797.3
75°	161.0	179.5	269.3	557.1	683.8	364.3	361.7	1254.1	1108.9	662.7	435.6
77.5°	97.7	105.6	147.8	364.3	411.9	245.5	200.6	583.5	562.3	388.1	229.7
80°	47.5	55.4	89.8	213.9	264.0	132.0	121.4	229.7	245.5	213.9	121.4
82.5°	15.8	21.1	50.2	81.8	171.6	52.8	50.2	126.7	134.6	126.7	58.1
85°	7.9	10.6	23.8	26.4	66.0	26.4	18.5	55.4	68.6	42.2	23.8
87.5°	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.3	5.3	5.3	5.3
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°	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8
2.5°	1621.0	1615.8	1605.2	1586.7	1584.1	1570.9	1549.8	1536.6	1526.0	1533.9	1536.6
5°	1650.1	1636.9	1605.2	1555.0	1502.2	1449.4	1399.3	1341.2	1301.6	1296.3	1285.7
7.5°	1702.9	1676.5	1607.8	1510.2	1375.5	1248.8	1100.9	958.4	887.1	876.5	852.8
10°	1787.4	1742.5	1629.0	1430.9	1172.2	908.2	683.8	530.7	443.5	427.7	433.0
12.5°	1887.7	1824.3	1631.6	1296.3	892.4	562.3	388.1	330.0	311.5	303.6	303.6
15°	2017.1	1924.7	1629.0	1122.1	601.9	361.7	311.5	287.8	279.9	274.6	274.6
17.5°	2180.7	2059.3	1610.5	860.7	406.6	314.2	285.1	266.7	256.1	253.5	253.5
20°	2373.5	2209.8	1568.2	641.6	340.6	293.1	269.3	245.5	237.6	232.3	232.3
22.5°	2619.0	2392.0	1486.4	499.0	322.1	279.9	253.5	227.1	219.1	213.9	213.9
25°	2904.1	2624.3	1378.1	448.8	319.5	269.3	237.6	211.2	203.3	200.6	198.0
27.5°	3242.1	2872.5	1277.8	451.5	324.7	261.4	221.8	198.0	190.1	182.2	184.8
30°	3640.7	3128.5	1196.0	483.1	330.0	253.5	211.2	190.1	182.2	171.6	171.6
32.5°	4034.1	3429.5	1188.1	541.2	348.5	248.2	200.6	179.5	171.6	163.7	163.7
35°	4438.1	3704.1	1232.9	617.8	385.5	240.3	187.4	169.0	161.0	155.8	153.1
37.5°	4823.5	3923.2	1275.2	665.3	364.3	205.9	171.6	155.8	147.8	137.3	137.3
40°	5079.6	4042.0	1283.1	628.3	301.0	184.8	155.8	139.9	129.4	124.1	121.4
42.5°	5267.0	4118.6	1193.3	509.5	261.4	169.0	142.6	126.7	118.8	113.5	113.5
45°	5343.6	4092.2	1040.2	388.1	240.3	155.8	129.4	116.2	110.9	105.6	105.6
47.5°	5333.1	3970.7	884.4	311.5	219.1	142.6	121.4	110.9	105.6	100.3	97.7
50°	5314.6	3857.2	726.0	277.2	195.4	134.6	113.5	105.6	97.7	92.4	89.8
52.5°	5436.0	3820.3	601.9	253.5	182.2	129.4	110.9	100.3	92.4	87.1	87.1
55°	5557.5	3836.1	472.6	237.6	169.0	126.7	108.2	97.7	89.8	81.8	81.8
57.5°	5549.5	3767.5	359.1	221.8	158.4	124.1	105.6	95.0	81.8	76.6	76.6
60°	*5045.3*	*3360.9*	*279.9*	*203.3*	*145.2*	*116.2*	*97.7*	*89.8*	*76.6*	*68.6*	*68.6*
62.5°	4266.4	2642.8	229.7	179.5	129.4	105.6	89.8	81.8	68.6	55.4	55.4
65°	3152.3	1906.2	184.8	155.8	118.8	92.4	81.8	71.3	55.4	44.9	42.2
67.5°	2133.2	1172.2	147.8	129.4	105.6	79.2	68.6	60.7	50.2	37.0	34.3
70°	1264.6	623.1	108.2	89.8	79.2	58.1	58.1	52.8	42.2	31.7	29.0
72.5°	601.9	216.5	79.2	66.0	60.7	42.2	44.9	44.9	34.3	23.8	21.1
75°	306.3	105.6	52.8	47.5	39.6	31.7	37.0	34.3	23.8	15.8	15.8
77.5°	174.2	73.9	37.0	31.7	26.4	21.1	23.8	21.1	13.2	7.9	7.9
80°	97.7	52.8	23.8	21.1	15.8	13.2	13.2	10.6	7.9	2.6	2.6
82.5°	37.0	31.7	15.8	10.6	7.9	7.9	5.3	5.3	2.6	0.0	0.0
85°	15.8	7.9	7.9	5.3	5.3	2.6	2.6	2.6	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8
2.5°	1515.4	1520.7	1526.0	1547.1	1552.4	1568.2	1581.4	1597.3	1599.9	1621.0	1621.0
5°	1306.9	1304.2	1349.1	1415.1	1457.3	1515.4	1560.3	1607.8	1634.2	1668.6	1684.4
7.5°	866.0	932.0	1032.3	1148.5	1298.9	1438.9	1544.5	1636.9	1700.2	1739.8	1755.7
10°	430.3	467.3	572.9	763.0	1019.1	1304.2	1528.6	1700.2	1803.2	1848.1	1877.1
12.5°	303.6	311.5	330.0	433.0	678.5	1082.5	1478.5	1768.9	1911.5	1995.9	2032.9
15°	271.9	277.2	285.1	314.2	419.8	807.9	1388.7	1845.4	2080.4	2178.1	2225.6
17.5°	250.8	253.5	261.4	285.1	330.0	549.1	1243.5	1927.3	2283.7	2402.5	2492.3
20°	232.3	232.3	240.3	269.3	306.3	422.4	1034.9	2019.7	2542.4	2714.0	2803.8
22.5°	211.2	216.5	221.8	253.5	298.3	385.5	839.6	2091.0	2830.2	3038.8	3144.4
25°	195.4	200.6	205.9	237.6	290.4	385.5	726.0	2135.9	3152.3	3400.5	3545.7
27.5°	182.2	187.4	195.4	227.1	282.5	401.3	681.2	2149.1	3503.4	3825.5	4020.9
30°	171.6	176.9	184.8	219.1	287.8	419.8	697.0	2130.6	3859.9	4263.8	4496.1
32.5°	161.0	166.3	174.2	211.2	287.8	443.5	749.8	2093.6	4205.7	4702.1	4987.2
35°	153.1	155.8	158.4	190.1	261.4	440.9	815.8	2056.7	4554.2	5135.0	5467.7
37.5°	137.3	139.9	145.2	163.7	208.6	401.3	829.0	2011.8	4828.8	5499.4	5866.4
40°	121.4	126.7	132.0	150.5	174.2	324.7	770.9	1916.7	4974.0	5779.2	6225.4
42.5°	110.9	113.5	118.8	137.3	161.0	258.7	646.8	1750.4	5103.4	5969.3	6486.8
45°	103.0	105.6	110.9	124.1	150.5	224.4	509.5	1547.1	5113.9	6030.0	6613.5
47.5°	95.0	97.7	100.3	113.5	145.2	200.6	390.7	1362.3	5111.3	6109.2	6721.8
50°	89.8	92.4	97.7	108.2	137.3	179.5	322.1	1211.8	5222.2	6280.9	6940.9
52.5°	87.1	87.1	95.0	105.6	129.4	163.7	269.3	1077.2	5280.3	6449.8	7099.3
55°	81.8	84.5	89.8	100.3	121.4	155.8	229.7	908.2	5306.7	6534.3	7128.3
57.5°	76.6	79.2	87.1	95.0	116.2	147.8	198.0	678.5	4929.1	6093.4	6642.6
60°	*68.6*	*73.9*	*84.5*	*92.4*	*108.2*	*134.6*	*174.2*	*459.4*	*4158.2*	*5296.1*	*5755.5*
62.5°	55.4	66.0	76.6	81.8	97.7	113.5	147.8	306.3	3321.3	4382.6	4905.4
65°	42.2	55.4	63.4	71.3	81.8	95.0	124.1	208.6	2215.1	2949.0	3537.8
67.5°	37.0	47.5	52.8	58.1	68.6	81.8	100.3	145.2	1343.8	1771.5	2352.4
70°	29.0	39.6	44.9	42.2	52.8	63.4	71.3	97.7	686.4	961.0	1338.5
72.5°	21.1	31.7	34.3	34.3	31.7	44.9	52.8	68.6	298.3	467.3	607.2
75°	15.8	21.1	23.8	21.1	18.5	29.0	37.0	44.9	195.4	279.9	353.8
77.5°	7.9	7.9	13.2	13.2	7.9	15.8	18.5	26.4	110.9	163.7	203.3
80°	2.6	0.0	0.0	2.6	0.0	5.3	7.9	13.2	58.1	87.1	126.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	29.0	26.4	66.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	15.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1501933
CATALOG NUMBER: GSS-SB3A-835-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1615.8	*1615.8*	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8	1615.8
2.5°	1634.2	*1634.2*	1644.8	1660.6	1668.6	1673.8	1676.5	1681.8	1702.9	1697.6
5°	1702.9	*1708.2*	1716.1	1731.9	1750.4	1745.1	1745.1	1745.1	1758.3	1747.8
7.5°	1792.6	*1808.5*	1811.1	1829.6	1816.4	1790.0	1774.2	1750.4	1747.8	1747.8
10°	1937.9	*1932.6*	1932.6	1908.8	1861.3	1784.7	1716.1	1668.6	1642.2	1644.8
12.5°	2093.6	*2072.5*	2075.1	1988.0	1853.4	1684.4	1544.5	1441.5	1433.6	1425.7
15°	2286.3	*2230.9*	2220.3	2019.7	1734.6	1475.8	1338.5	1256.7	1230.3	1222.4
17.5°	2560.9	*2421.0*	2370.8	1964.3	1578.8	1346.5	1243.5	1206.5	1203.9	1201.3
20°	2851.3	*2574.1*	2479.1	1882.4	1526.0	1349.1	1272.5	1262.0	1256.7	1259.3
22.5°	3189.3	*2671.8*	2550.4	1895.6	1573.5	1436.2	1375.5	1367.6	1362.3	1367.6
25°	3537.8	*2785.3*	2634.8	2001.2	1716.1	1597.3	1526.0	1510.2	1526.0	1549.8
27.5°	3888.9	*2938.5*	2801.2	2209.8	1945.8	1816.4	1747.8	1805.8	1829.6	1832.2
30°	4200.4	*3152.3*	3025.6	2502.8	2207.1	2077.8	2091.0	2164.9	2193.9	2223.0
32.5°	4485.6	*3437.4*	3339.8	2835.5	2545.1	2468.5	2460.6	2516.0	2547.7	2529.2
35°	4773.3	*3809.7*	3714.7	3197.2	2959.6	2896.2	2830.2	2938.5	2927.9	2898.9
37.5°	5045.3	*4184.6*	4097.5	3585.3	3339.8	3228.9	3218.3	3316.0	3403.1	3397.8
40°	5240.6	*4488.2*	4382.6	3970.7	3738.4	3643.4	3698.8	3867.8	3846.7	3817.6
42.5°	5420.2	*4746.9*	4651.9	4308.7	4065.8	4108.0	4158.2	4271.7	4258.5	4229.5
45°	5504.7	*4968.7*	4886.9	4564.8	4446.0	4580.6	4578.0	4620.2	4548.9	4538.4
47.5°	5623.5	*5127.1*	5042.6	4794.5	4900.1	4955.5	4799.7	4754.9	4688.9	4636.1
50°	5842.6	*5372.7*	5288.2	5143.0	5232.7	5061.1	4871.0	4773.3	4638.7	4546.3
52.5°	6098.7	*5744.9*	5671.0	5612.9	5362.1	5008.3	4765.4	4588.5	4424.8	4345.6
55°	6420.8	*6294.1*	6241.3	5921.8	5245.9	4791.8	4506.7	4176.7	3952.3	3878.3
57.5°	6526.4	*7099.3*	7080.8	5972.0	4921.2	4398.4	3883.6	3437.4	3205.1	3157.6
60°	*6214.9*	*7730.3*	*7664.3*	*5887.5*	*4332.4*	*3569.4*	*2967.5*	*2510.8*	*2133.2*	*2077.8*
62.5°	5816.2	*7247.1*	7223.4	5462.4	3300.2	2558.3	2217.7	1790.0	1629.0	1586.7
65°	4981.9	*5929.7*	5940.3	4382.6	2088.3	1837.5	1821.7	1423.0	1225.0	1193.3
67.5°	3836.1	*4548.9*	4475.0	2756.3	1217.1	1470.5	1454.7	1040.2	752.4	731.3
70°	2241.5	*3387.3*	3268.5	1433.6	805.2	1227.7	1119.4	731.3	512.2	488.4
72.5°	990.0	*1863.9*	2001.2	631.0	567.6	976.8	807.9	448.8	287.8	282.5
75°	549.1	*924.0*	966.3	274.6	398.7	694.4	488.4	250.8	163.7	161.0
77.5°	330.0	*409.2*	398.7	176.9	298.3	443.5	295.7	142.6	103.0	97.7
80°	184.8	*187.4*	158.4	129.4	176.9	248.2	166.3	89.8	47.5	47.5
82.5°	113.5	*103.0*	81.8	39.6	47.5	150.5	60.7	50.2	15.8	15.8
85°	47.5	*31.7*	21.1	7.9	18.5	39.6	21.1	23.8	7.9	7.9
87.5°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

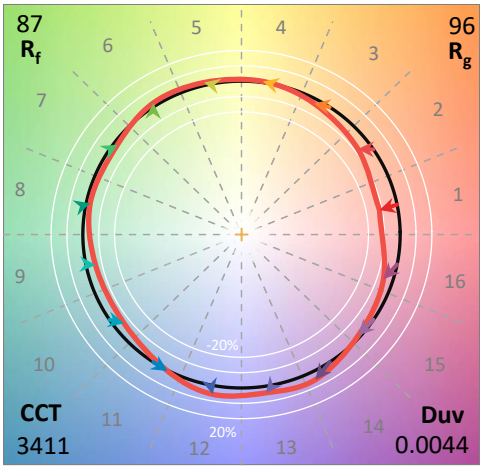
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

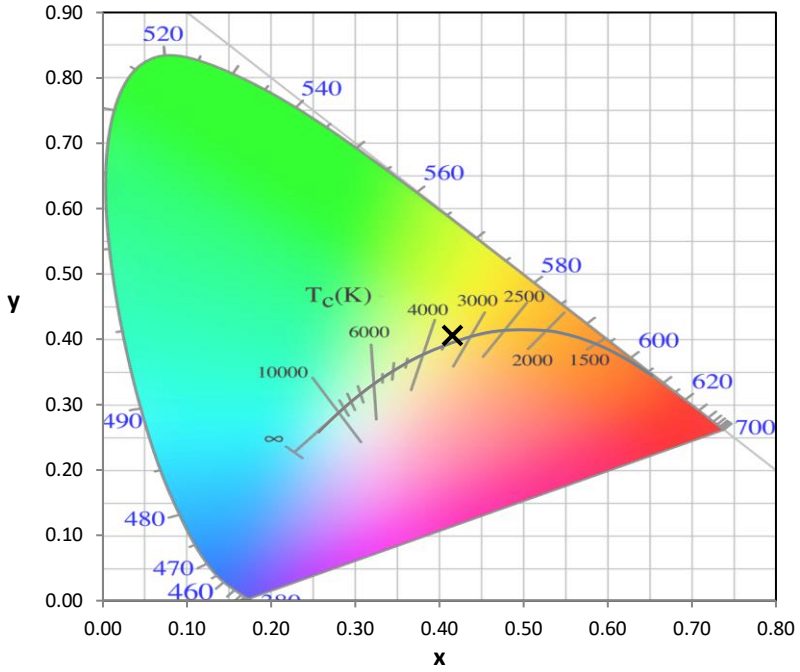
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

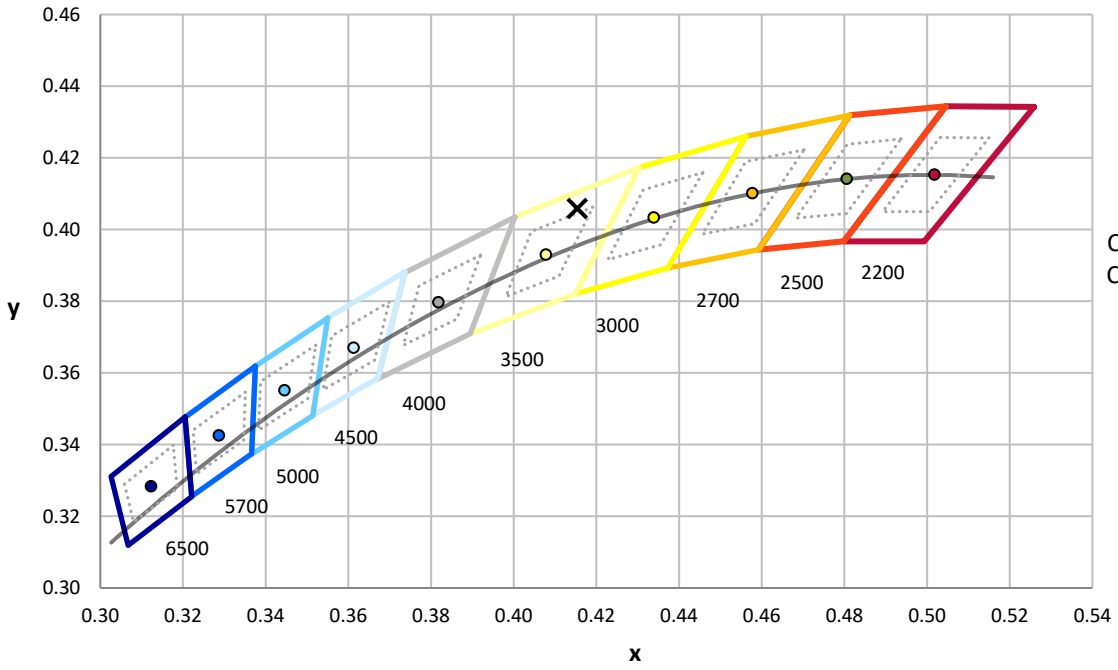
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

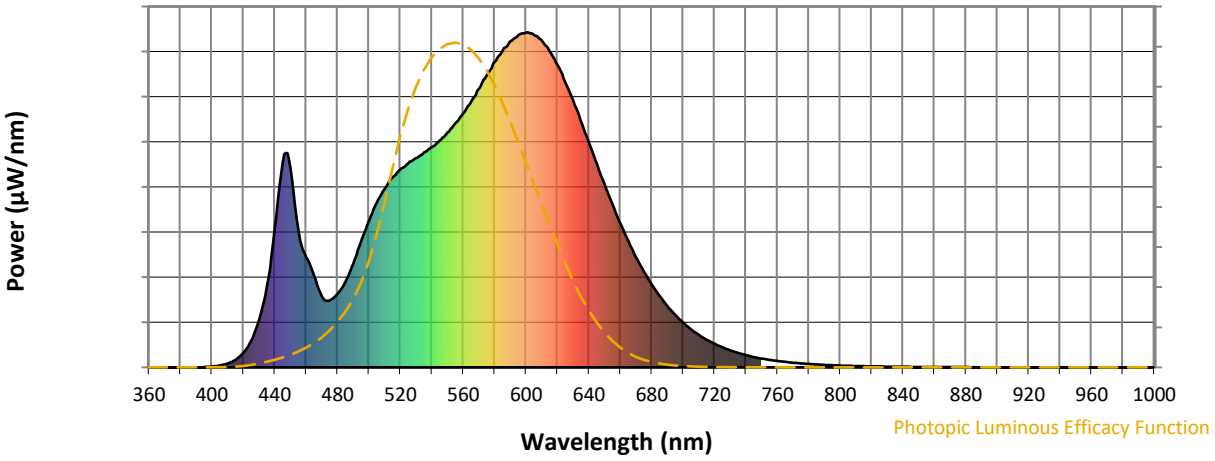


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

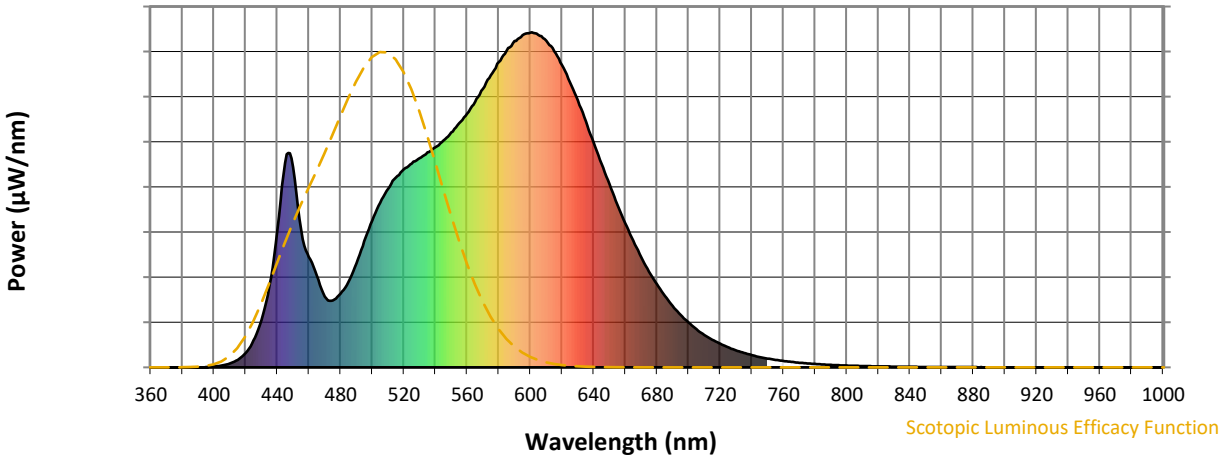


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

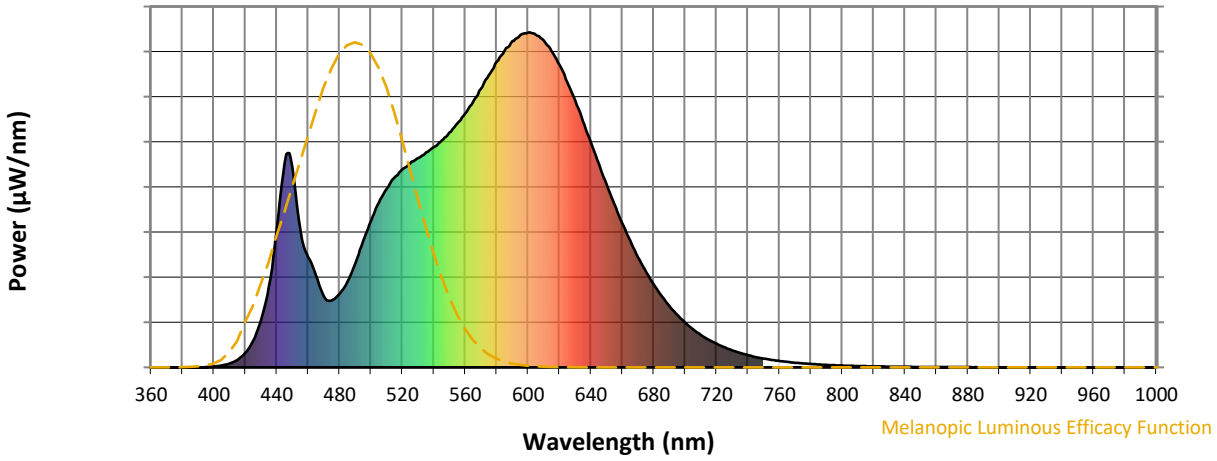


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

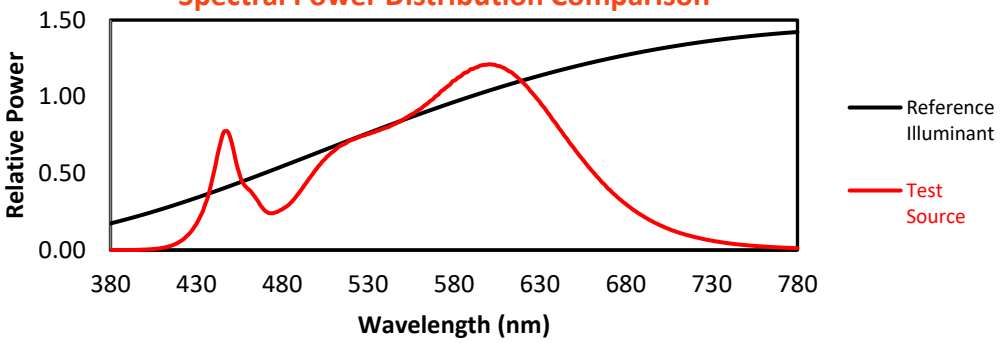
REPORT NUMBER: SP1-2407-184-10

TM-30-18

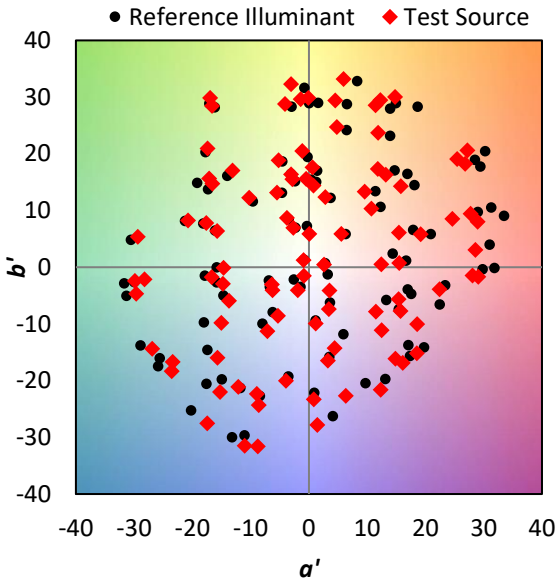
Summary

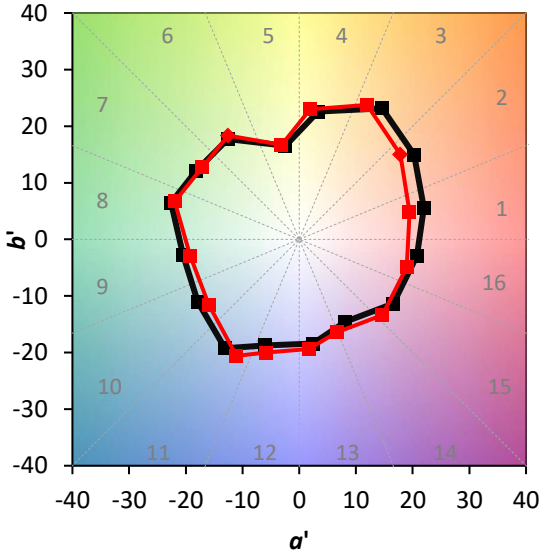
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

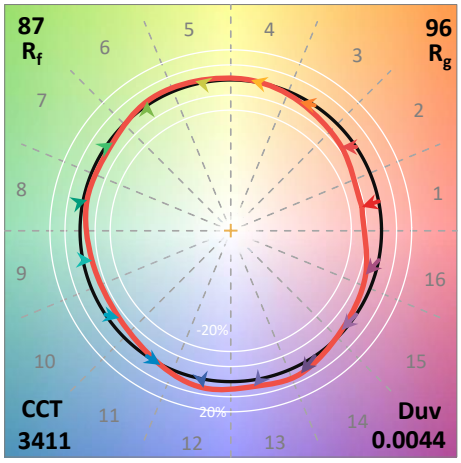
Spectral Power Distribution Comparison

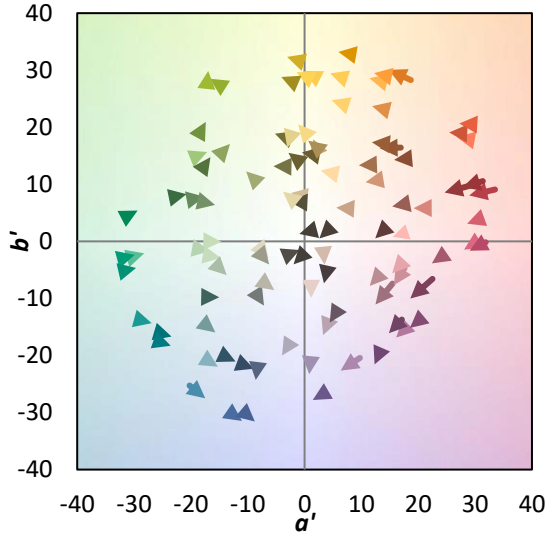


Color Vector Graphics







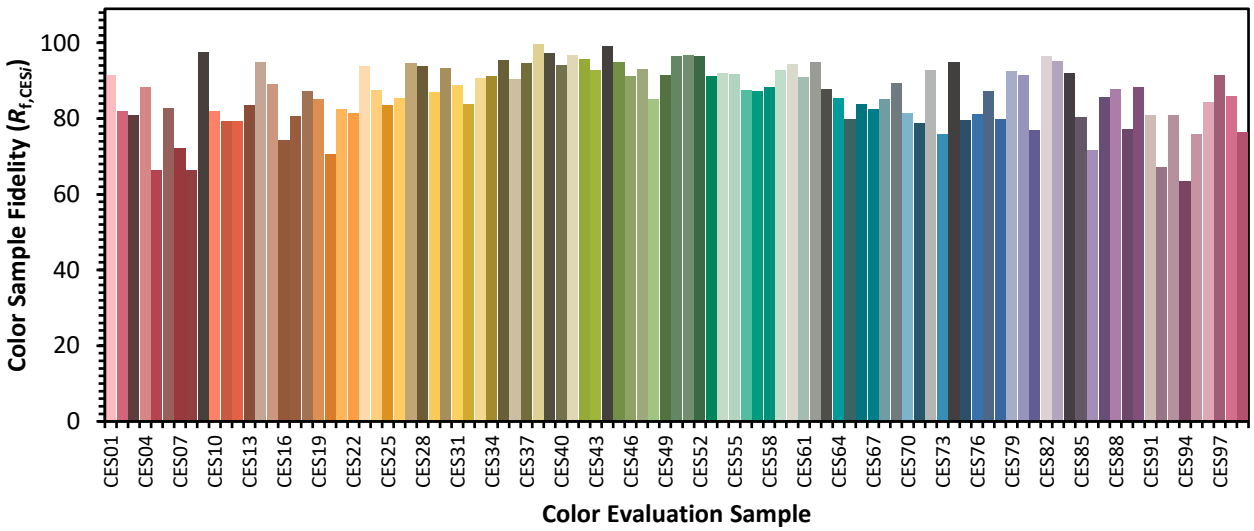


REPORT NUMBER: SP1-2407-184-10

TM-30-18

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

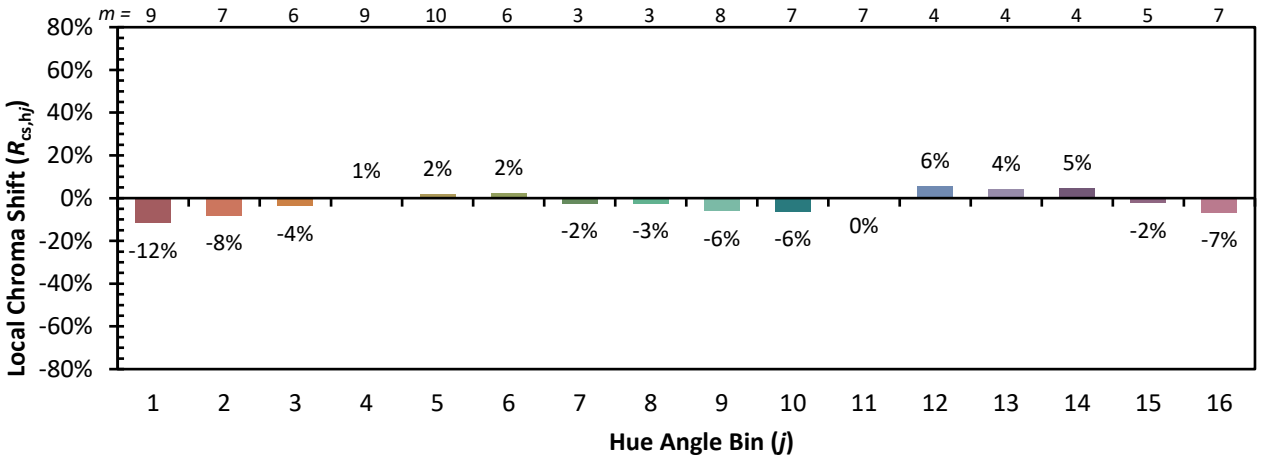
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

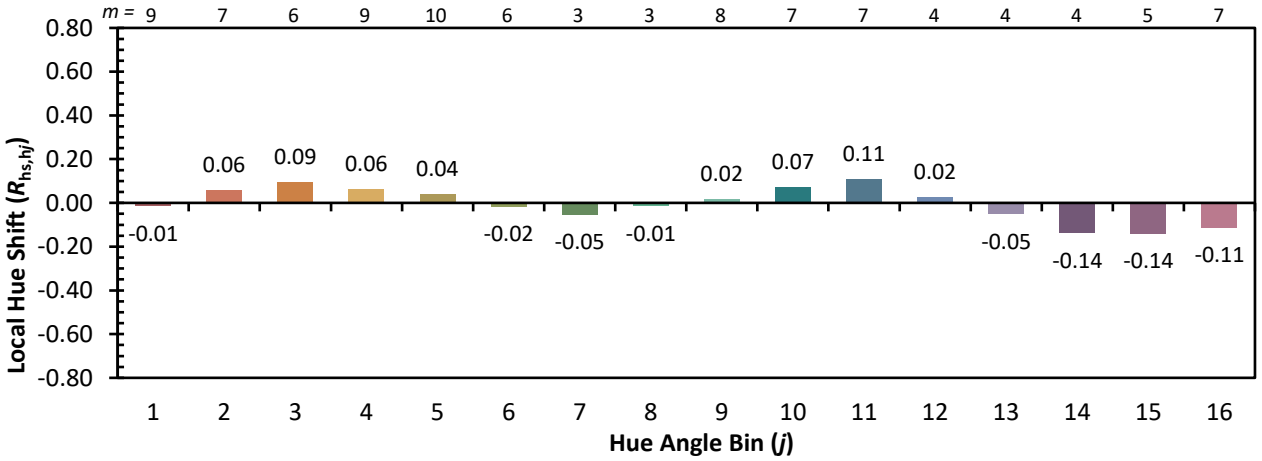


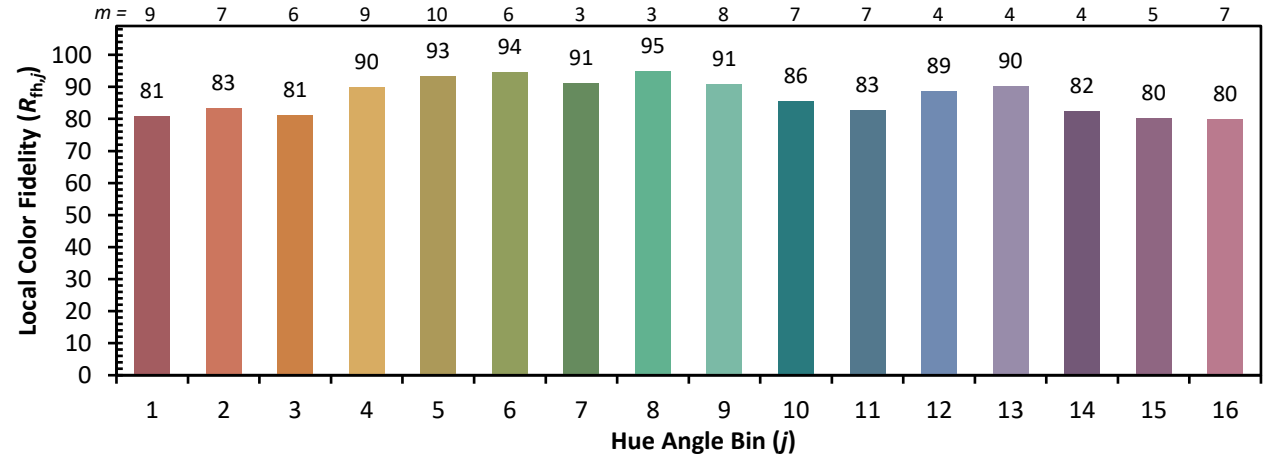
REPORT NUMBER: SP1-2407-184-10

TM-30-18

Color Rendition by Hue-Angle Bin



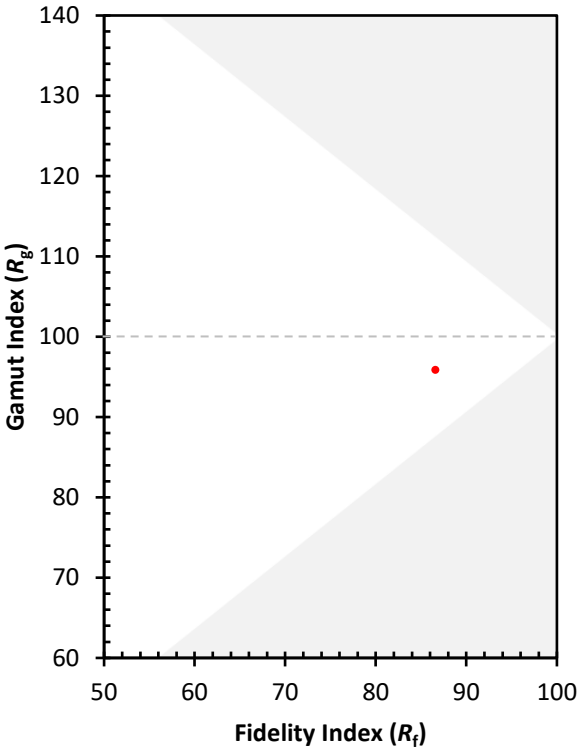


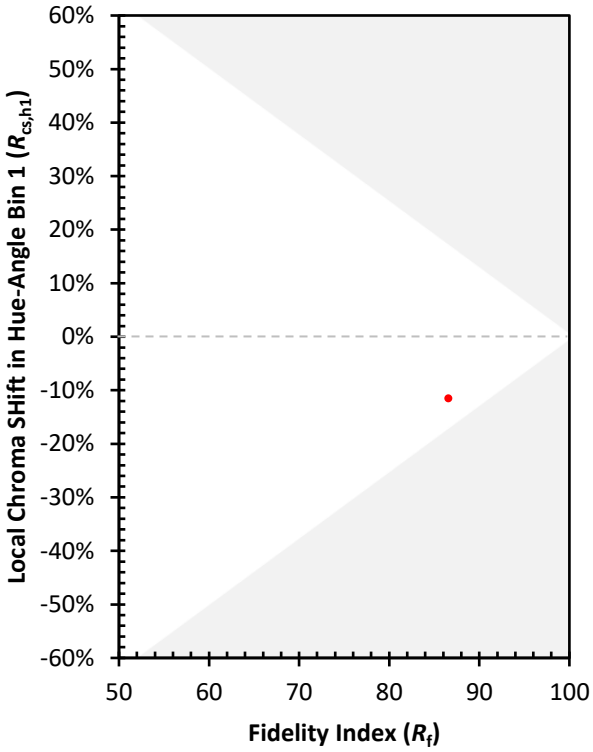


REPORT NUMBER: SP1-2407-184-10

TM-30-18

Measure Comparisons





(END OF REPORT)