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: P1202366

Luminaire Tested: GWC-SB1D-830-U-SLL-HSS

Issue Date: 10/30/2025

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1202366
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB1D-830-U-SLL-HSS
Description:	GALLEON WALL LUMINAIRE
	(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7016 lumens
Efficiency:	N/A
Efficacy:	88.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	79.6
Input Voltage (V):	120.0
Input Current (Ain):	0.638
Voltage Rise (V):	NR
Power Factor:	0.997
Total Harmonic Distortion (THDi):	6.673
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

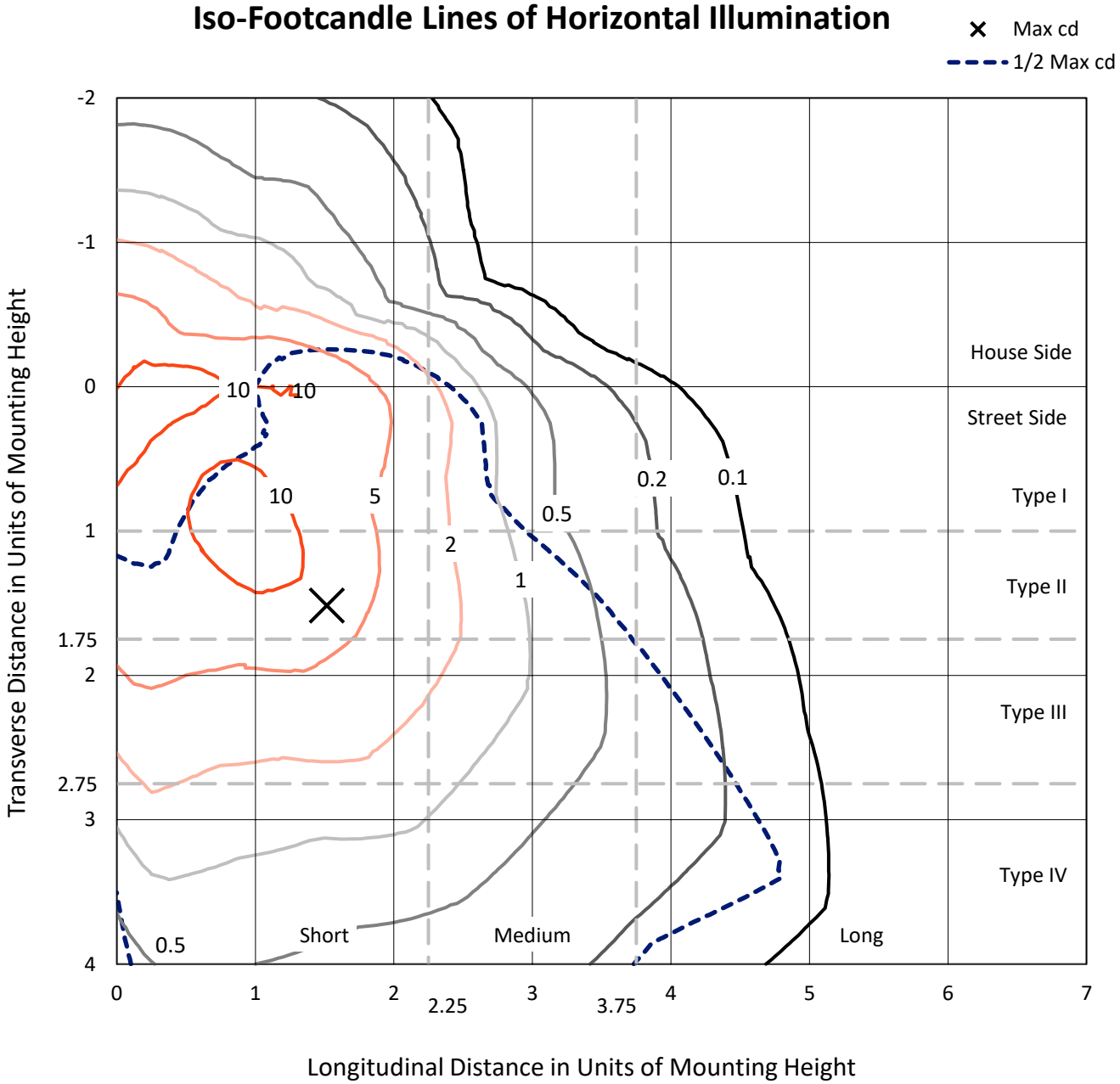


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Iso-Footcandle Lines of Horizontal Illumination



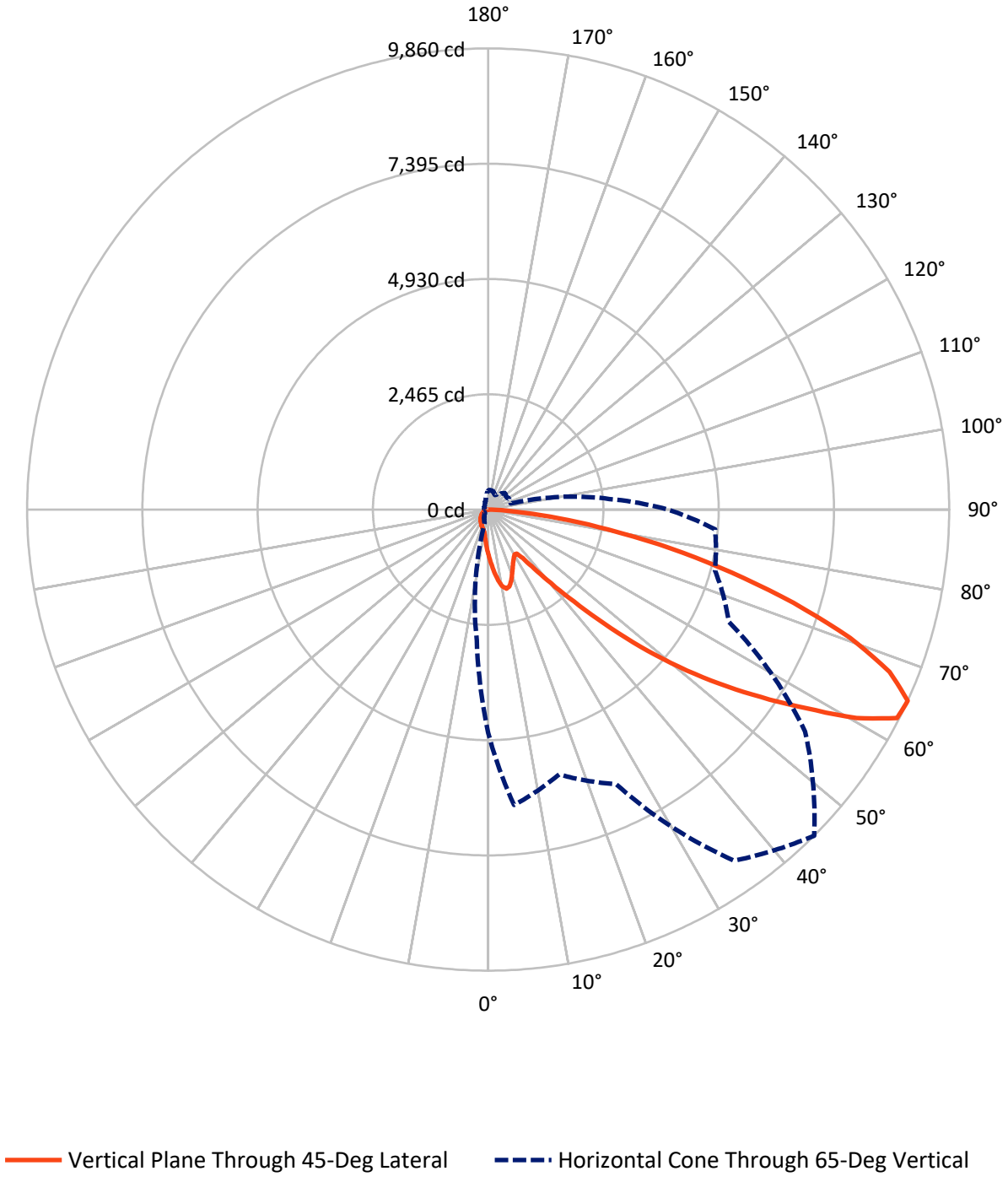
Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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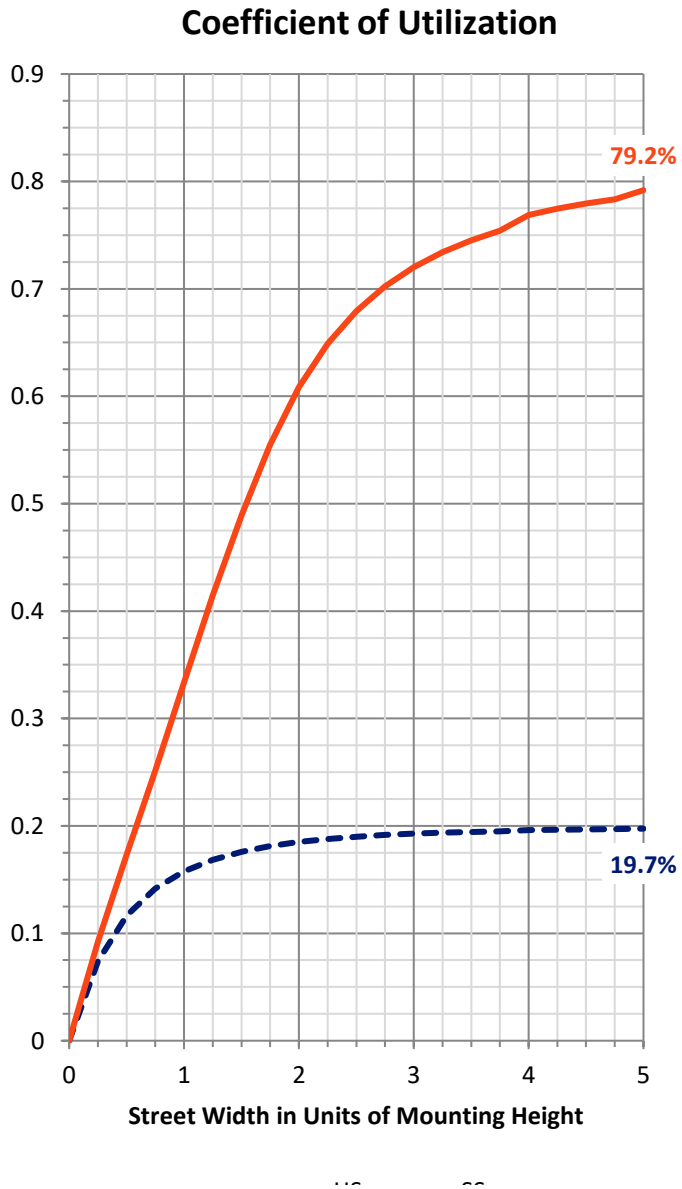
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.6	0.0	1394.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5621.4	0.0	5621.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	7016.0	0.0	7016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.4
10°-20°	286.7	4.1
20°-30°	422.4	6.0
30°-40°	542.7	7.7
40°-50°	877.6	12.5
50°-60°	1539.0	21.9
60°-70°	1925.8	27.4
70°-80°	1125.3	16.0
80°-90°	200.8	2.9
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°	7016.0	100.0
0°-180°	7016.0	100.0



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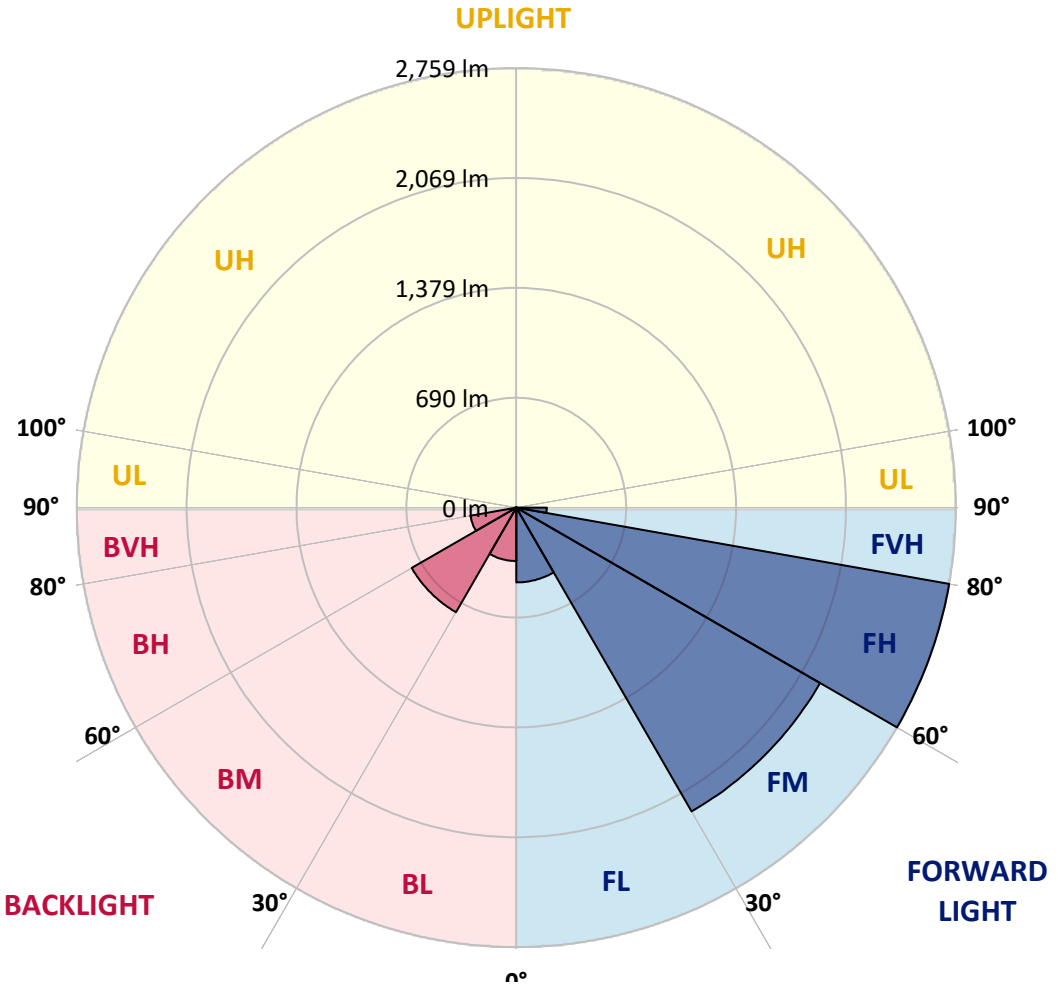
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	469.5	6.7			
FM	(30°-60°)	2201.7	31.4			
FH	(60°-80°)	2758.9	39.3			G2/5000
FVH	(80°-90°)	191.4	2.7			G2/225
BL	(0°-30°)	335.3	4.8	B1/500		
BM	(30°-60°)	757.7	10.8	B1/1000		
BH	(60°-80°)	292.2	4.2	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	971.5	971.5	971.5	971.5	971.5	*971.5*	971.5	971.5	971.5	971.5	971.5
2.5°	1088.5	1096.7	1115.0	1124.7	1139.7	*1140.7*	1140.7	1127.6	1127.1	1100.5	1097.6
5°	1216.5	1235.9	1279.4	1324.3	1334.0	*1336.4*	1331.6	1305.5	1286.1	1234.4	1223.3
7.5°	1343.7	1380.9	1447.1	1507.0	1526.4	*1526.4*	1514.8	1472.2	1432.6	1357.7	1329.6
10°	1449.0	1495.9	1585.8	1653.0	1675.2	*1670.4*	1646.7	1593.1	1538.4	1447.6	1410.8
12.5°	1518.6	1571.3	1669.9	1724.0	1746.8	*1734.2*	1707.1	1654.9	1597.4	1501.7	1460.1
15°	1553.4	1608.5	1694.1	1722.6	1716.3	*1703.3*	1699.9	1674.7	1631.2	1541.8	1496.4
17.5°	1568.4	1619.6	1679.1	1661.2	1608.0	*1597.9*	1631.7	1663.6	1653.0	1576.6	1534.1
20°	1582.4	1625.4	1643.3	1564.1	1471.3	*1462.1*	1526.8	1617.7	1664.1	1609.0	1569.9
22.5°	1601.8	1628.3	1591.6	1461.6	1361.5	*1340.3*	1411.8	1548.6	1667.5	1650.1	1610.9
25°	1628.3	1635.6	1534.6	1364.4	1263.9	*1242.6*	1309.3	1471.7	1661.7	1694.6	1661.2
27.5°	1660.2	1645.3	1480.0	1283.2	1186.1	*1166.3*	1233.0	1397.8	1645.3	1739.0	1715.3
30°	1701.8	1657.8	1425.8	1220.4	1130.5	*1116.0*	1180.3	1334.0	1625.0	1795.6	1782.5
32.5°	1743.9	1663.1	1375.6	1183.7	1117.9	*1123.3*	1175.9	1299.7	1602.7	1849.7	1856.0
35°	1789.3	1680.1	1350.9	1219.9	1222.8	*1269.2*	1291.0	1331.6	1599.3	1923.2	1947.8
37.5°	1851.2	1717.8	1380.4	1400.2	1500.7	*1596.9*	1579.0	1487.7	1638.5	2032.9	2078.8
40°	1940.1	1784.0	1509.0	1707.1	1913.5	*2069.6*	2001.5	1771.4	1758.4	2190.9	2259.6
42.5°	2069.6	1889.3	1737.1	2082.2	2432.1	*2689.2*	2506.5	2137.3	1968.1	2416.6	2504.1
45°	2261.0	2059.9	2013.1	2478.0	3071.6	*3476.6*	3096.7	2527.3	2262.0	2758.4	2827.0
47.5°	2526.4	2310.8	2271.6	2895.1	3848.7	*4372.7*	3751.1	2888.9	2596.4	3224.3	3240.2
50°	2878.7	2648.6	2516.7	3351.4	4700.9	*5286.2*	4405.1	3237.8	2979.7	3793.7	3775.3
52.5°	3343.7	3119.9	2802.3	3785.9	5577.1	*6180.3*	5061.9	3544.3	3455.3	4454.4	4416.7
55°	3977.8	3828.9	3192.9	4200.6	6452.9	*7079.8*	5693.1	3833.3	4083.6	5239.3	5011.2
57.5°	4764.7	4871.0	3756.0	4681.5	7240.3	*8006.8*	6327.3	4237.3	4899.5	6117.0	5356.3
60°	5272.2	6256.7	4834.3	5392.5	8134.9	*9055.2*	7196.3	5005.8	5756.9	6431.7	5290.5
62.5°	5149.4	6697.5	6125.7	6300.2	8957.5	*9817.4*	8047.9	5777.7	5918.4	5968.1	4784.0
65°	*4772.9*	*6341.8*	*5862.3*	*6476.6*	*9165.9*	*9860.4*	*8275.6*	*5678.2*	*5020.3*	*4872.4*	*3845.4*
67.5°	4254.7	5919.8	5236.4	6008.7	8789.3	*9259.1*	7851.7	5022.8	3879.7	3656.4	2789.8
70°	3695.5	5452.9	4825.6	5483.9	8071.6	*8211.3*	7131.0	4417.6	2853.6	2469.3	1790.3
72.5°	3164.8	4966.7	4544.3	4945.9	7114.1	*6825.1*	6192.9	3882.6	2077.8	1781.1	1272.6
75°	2622.1	4249.4	4143.6	4306.9	5855.0	*5376.1*	5145.5	3214.6	1630.8	1288.6	878.2
77.5°	2023.2	3320.5	3564.1	3449.0	4121.3	*3993.3*	3988.4	2415.7	1191.4	859.8	550.5
80°	1384.7	2314.2	2784.5	2433.1	2674.7	*2609.5*	3003.9	1620.6	864.2	517.6	306.4
82.5°	813.9	1408.9	1938.1	1177.9	1479.0	*1518.1*	1788.8	788.3	508.5	119.4	66.7
85°	330.1	556.3	757.9	461.1	713.4	*601.7*	679.1	221.4	141.6	2.9	0.0
87.5°	83.1	177.9	124.7	51.7	82.6	*75.9*	59.9	27.1	5.8	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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CATALOG NUMBER: GWC-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5
2.5°	1078.8	1067.7	1040.1	1012.6	990.3	960.4	940.6	916.9	894.2	873.9	870.0
5°	1192.9	1156.1	1105.9	1059.9	1013.1	967.6	922.7	875.3	831.8	805.2	788.3
7.5°	1285.7	1220.9	1154.2	1095.7	1039.2	986.0	926.5	869.0	800.9	764.6	731.8
10°	1354.8	1269.7	1182.2	1115.0	1058.0	1006.3	956.0	898.0	815.9	770.4	721.1
12.5°	1400.2	1299.2	1196.7	1119.9	1056.1	1016.0	993.7	971.0	889.3	836.2	764.6
15°	1431.6	1320.0	1206.9	1108.8	1030.5	1001.0	1023.2	1049.3	997.1	935.7	842.4
17.5°	1465.9	1347.0	1211.2	1078.8	980.7	968.1	1025.6	1086.0	1083.6	1022.7	931.4
20°	1502.2	1370.7	1208.3	1030.5	920.3	931.4	1004.8	1074.9	1104.4	1071.5	990.3
22.5°	1539.4	1393.4	1197.2	967.6	863.7	898.5	972.0	1033.4	1068.2	1058.0	996.1
25°	1586.3	1425.3	1180.8	900.0	816.8	865.2	933.8	983.6	1007.7	1007.3	964.7
27.5°	1642.4	1467.9	1172.1	845.3	783.5	827.5	888.4	932.8	949.7	949.7	915.9
30°	1707.6	1518.1	1162.4	809.6	764.1	788.3	835.7	879.2	896.1	896.1	867.6
32.5°	1780.1	1566.5	1139.2	787.8	749.6	750.1	780.1	819.7	840.0	842.9	822.6
35°	1867.1	1618.2	1088.5	770.4	732.7	712.9	727.4	760.3	784.4	790.7	778.2
37.5°	1981.2	1681.5	1016.0	744.8	706.6	673.8	677.1	702.3	728.9	738.5	730.3
40°	2134.4	1755.9	940.6	708.1	669.9	630.7	629.3	647.7	673.8	684.4	680.0
42.5°	2336.9	1845.4	868.5	672.8	625.4	585.3	582.9	597.4	620.1	631.2	629.3
45°	2596.0	1955.1	806.7	645.2	581.9	542.3	541.3	553.4	573.2	584.8	582.4
47.5°	2956.0	2064.8	764.6	630.7	547.6	507.0	508.9	519.6	537.5	545.7	542.3
50°	3425.4	2098.1	743.4	630.7	529.2	475.6	485.3	494.0	507.5	512.3	508.0
52.5°	3875.8	1987.9	724.0	634.6	531.7	449.0	469.8	476.1	487.7	489.6	483.3
55°	4096.7	1709.1	697.4	635.6	546.6	426.3	457.2	468.8	473.2	472.7	462.1
57.5°	4020.8	1381.8	652.5	631.7	556.8	411.8	441.8	464.0	466.9	462.5	442.7
60°	3754.5	1017.4	618.2	603.2	552.9	407.4	418.1	453.4	457.7	451.9	419.5
62.5°	3307.9	706.1	591.6	540.4	536.0	406.0	380.9	430.2	440.8	432.6	385.2
65°	*2604.2*	*498.8*	*509.4*	*473.7*	*499.3*	*398.3*	*342.2*	*402.1*	*416.6*	*404.1*	*337.4*
67.5°	1762.2	360.1	412.8	429.2	439.8	380.9	314.2	370.2	389.6	373.1	281.8
70°	951.7	252.8	272.6	361.5	373.6	350.9	289.0	337.8	360.1	342.2	229.6
72.5°	562.1	181.7	190.9	290.5	311.3	308.8	261.0	300.1	327.2	305.9	186.6
75°	309.8	122.8	136.3	210.7	252.8	238.3	224.3	254.2	281.8	261.0	144.0
77.5°	138.7	73.5	94.7	138.2	198.6	163.4	173.5	198.2	223.8	202.0	96.2
80°	53.6	41.1	62.8	75.4	144.5	90.4	111.6	146.0	164.3	146.9	58.5
82.5°	6.8	18.4	27.1	29.5	84.1	47.8	64.8	91.8	90.4	78.3	29.5
85°	0.0	3.4	3.9	1.9	36.2	17.4	21.3	30.0	28.0	21.3	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5
2.5°	846.3	828.9	820.2	813.0	819.7	823.6	823.6	840.0	849.7	853.6	880.6
5°	745.8	713.4	691.6	678.6	682.9	687.8	693.1	713.9	727.9	737.1	779.1
7.5°	666.5	617.2	586.8	570.8	573.2	576.6	581.0	601.3	615.3	627.4	674.2
10°	627.4	557.8	517.6	498.3	494.9	493.0	491.5	503.6	514.3	523.9	570.3
12.5°	629.3	532.1	483.3	459.6	449.5	437.9	428.7	430.6	437.4	449.5	479.0
15°	653.9	523.9	465.4	436.0	419.0	405.5	394.4	392.0	394.4	396.3	414.7
17.5°	687.3	523.0	450.0	413.2	395.8	384.7	374.6	371.2	371.7	374.1	378.9
20°	713.9	520.1	432.6	391.5	376.0	366.4	356.2	352.8	353.8	354.3	359.6
22.5°	727.9	515.7	413.2	369.7	356.7	347.0	337.8	337.4	337.4	340.3	344.1
25°	727.9	506.5	395.8	349.0	337.4	328.7	317.5	319.5	320.4	324.3	330.1
27.5°	710.5	489.1	381.8	331.1	319.0	310.3	300.1	302.6	304.0	308.4	315.6
30°	688.3	468.3	365.9	314.2	300.1	293.9	285.2	286.1	288.1	292.9	301.1
32.5°	664.6	443.7	352.8	297.2	283.2	278.4	268.7	270.2	272.1	277.4	286.6
35°	638.5	414.7	337.4	281.8	267.8	263.9	252.8	253.7	256.6	262.4	271.6
37.5°	610.9	391.0	321.9	266.8	252.3	248.4	236.8	237.8	241.2	247.9	256.6
40°	583.9	367.8	305.5	250.8	236.3	233.0	220.4	221.4	225.2	232.5	241.7
42.5°	554.4	349.9	284.2	234.4	218.9	215.6	204.0	205.4	209.8	217.0	226.2
45°	519.1	338.3	260.5	218.9	201.5	198.2	187.5	190.4	195.3	202.5	212.2
47.5°	482.8	333.5	240.7	202.5	183.7	180.8	172.1	176.9	182.2	188.0	198.6
50°	448.0	327.2	220.4	187.0	168.2	165.3	159.5	165.8	171.1	176.4	186.6
52.5°	408.4	313.7	202.0	173.5	155.1	154.2	151.3	157.1	161.9	166.7	175.4
55°	367.3	291.9	186.1	161.4	144.0	145.0	143.5	148.4	152.2	156.6	164.3
57.5°	331.6	264.4	173.5	148.4	134.4	137.3	135.3	137.7	140.2	145.5	151.8
60°	295.3	231.5	159.5	132.9	124.7	128.1	122.8	122.3	123.2	124.7	136.3
62.5°	246.5	197.2	142.1	119.4	114.1	115.5	105.4	97.6	97.6	99.1	116.5
65°	*198.2*	*165.3*	*122.8*	*103.9*	*99.6*	*98.6*	*84.1*	*73.5*	*72.5*	*76.8*	*91.8*
67.5°	162.9	137.3	103.4	86.5	83.6	84.6	73.9	63.3	62.3	67.2	78.3
70°	134.8	110.7	82.6	66.7	69.6	73.9	63.3	53.2	51.7	56.1	66.7
72.5°	107.3	86.5	63.3	49.3	57.5	62.8	51.7	42.0	41.1	44.9	55.1
75°	78.8	61.9	43.0	35.8	44.5	49.3	37.7	30.0	28.5	31.9	42.0
77.5°	48.8	34.8	27.1	21.3	30.4	32.9	19.8	17.4	16.9	19.3	26.6
80°	22.7	15.0	13.0	7.2	11.1	13.0	8.2	9.2	9.7	11.6	16.4
82.5°	6.3	2.4	0.5	0.0	0.0	3.9	1.9	3.9	4.8	7.2	10.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.4	4.3	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.9
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: P1202366
CATALOG NUMBER: GWC-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5
2.5°	900.9	920.3	951.2	983.1	1014.5	1046.4	1077.3	1088.5
5°	817.3	861.8	923.2	988.9	1056.6	1125.2	1188.0	1216.5
7.5°	724.0	787.8	880.1	983.1	1090.9	1198.7	1297.7	1343.7
10°	624.5	705.2	810.5	949.7	1104.4	1253.3	1389.6	1449.0
12.5°	529.7	614.3	730.8	897.5	1093.8	1284.7	1448.5	1518.6
15°	450.5	525.4	651.0	835.7	1059.5	1286.6	1476.6	1553.4
17.5°	391.0	439.8	569.8	767.0	1014.5	1268.7	1486.2	1568.4
20°	361.5	375.1	464.5	679.1	972.5	1251.8	1495.9	1582.4
22.5°	344.1	347.5	379.9	565.5	922.2	1246.5	1512.8	1601.8
25°	330.1	331.1	339.8	448.0	845.3	1243.1	1538.9	1628.3
27.5°	316.1	316.1	320.9	361.0	740.9	1228.6	1572.8	1660.2
30°	302.1	302.1	305.5	319.5	618.7	1200.1	1613.4	1701.8
32.5°	287.6	287.6	290.5	300.6	494.0	1164.3	1650.6	1743.9
35°	273.1	272.1	276.0	286.6	392.9	1118.9	1687.8	1789.3
37.5°	257.6	257.1	261.0	273.1	339.3	1066.2	1715.8	1851.2
40°	241.2	241.2	245.5	258.6	323.8	1000.0	1760.3	1940.1
42.5°	226.2	225.2	230.1	246.0	312.2	936.7	1840.0	2069.6
45°	211.7	209.8	214.1	233.9	291.9	914.5	1988.9	2261.0
47.5°	198.2	193.3	197.2	219.4	273.6	997.6	2232.5	2526.4
50°	187.0	177.9	181.2	204.9	259.5	1177.9	2548.6	2878.7
52.5°	175.4	163.4	165.3	187.0	247.0	1349.5	2891.3	3343.7
55°	163.4	149.8	150.8	169.2	229.1	1375.1	3225.7	3977.8
57.5°	149.8	137.3	137.3	152.7	216.0	1191.9	3482.9	4764.7
60°	134.8	126.6	124.2	139.7	227.6	841.0	3512.8	5272.2
62.5°	118.4	114.1	110.7	127.1	236.3	498.3	3271.7	5149.4
65°	*99.6*	*98.6*	*96.2*	*139.7*	*199.1*	*294.3*	*2808.6*	*4772.9*
67.5°	83.6	82.2	82.2	146.4	151.3	185.1	2194.3	4254.7
70°	72.0	66.7	66.7	110.7	91.8	128.1	1532.2	3695.5
72.5°	60.4	54.6	50.7	88.4	68.6	93.8	957.5	3164.8
75°	48.3	44.0	39.1	58.5	51.2	71.0	556.3	2622.1
77.5°	34.8	32.9	27.5	43.0	37.2	51.2	331.1	2023.2
80°	17.9	18.4	17.4	24.6	25.1	34.8	188.5	1384.7
82.5°	10.6	8.2	9.2	12.1	14.5	19.8	71.0	813.9
85°	6.8	4.3	4.3	5.8	7.2	7.7	21.7	330.1
87.5°	3.4	1.4	1.9	2.9	2.4	1.9	1.0	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

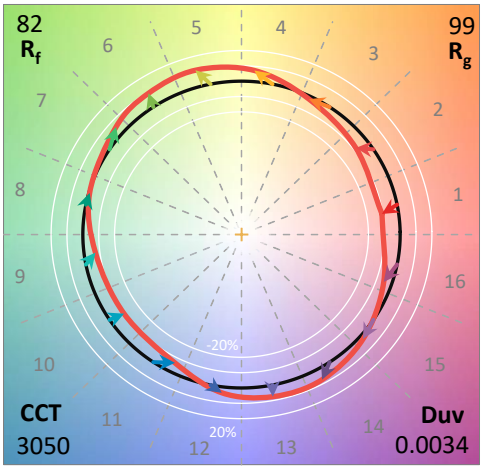
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050
CIE u':	0.2476
CIE v':	0.5251
Duv:	0.0034
CIE x:	0.4383
CIE y:	0.4131
CIE z:	0.1487
Peak Wavelength (nm):	603
Dominant Wavelength (nm):	581
Purity:	55.55201
Rf:	81.5
Rg:	99.2

CRI (Ra):	81.0
R1:	79.6
R2:	85.6
R3:	92.0
R4:	82.6
R5:	78.9
R6:	81.7
R7:	85.2
R8:	62.0
R9:	7.1
R10:	67.0
R11:	82.7
R12:	63.2
R13:	80.3
R14:	95.0
R15:	71.7



Test Conditions

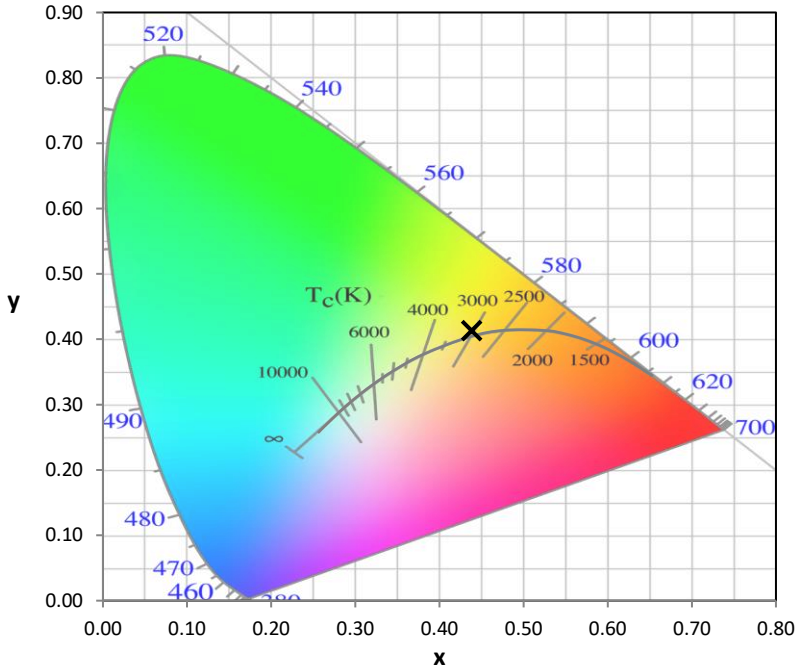
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

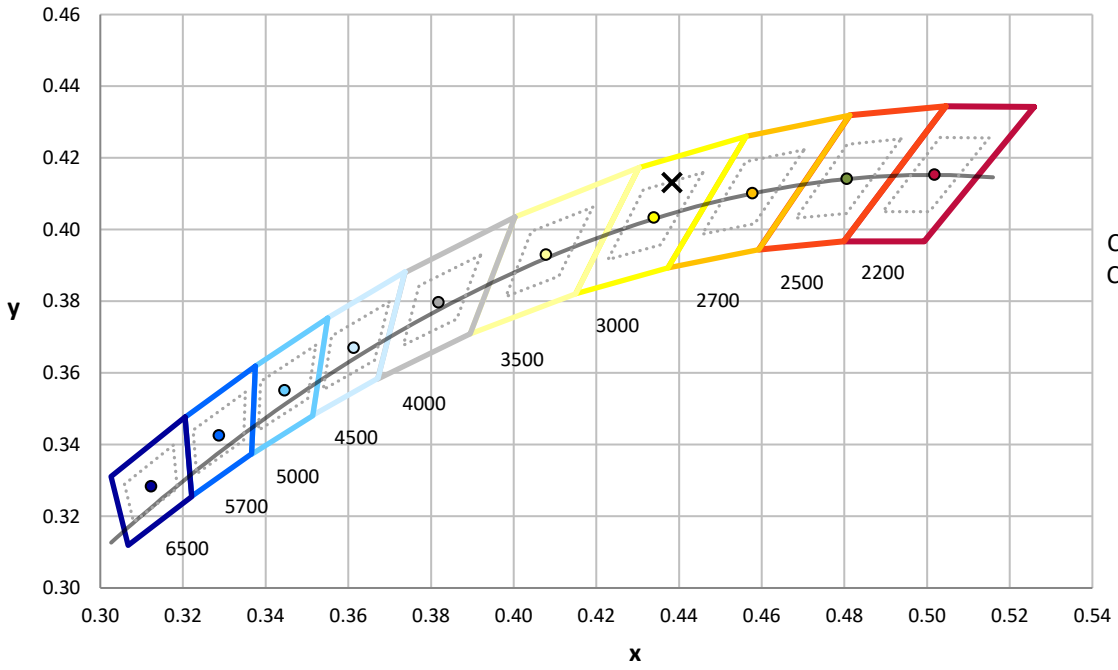
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

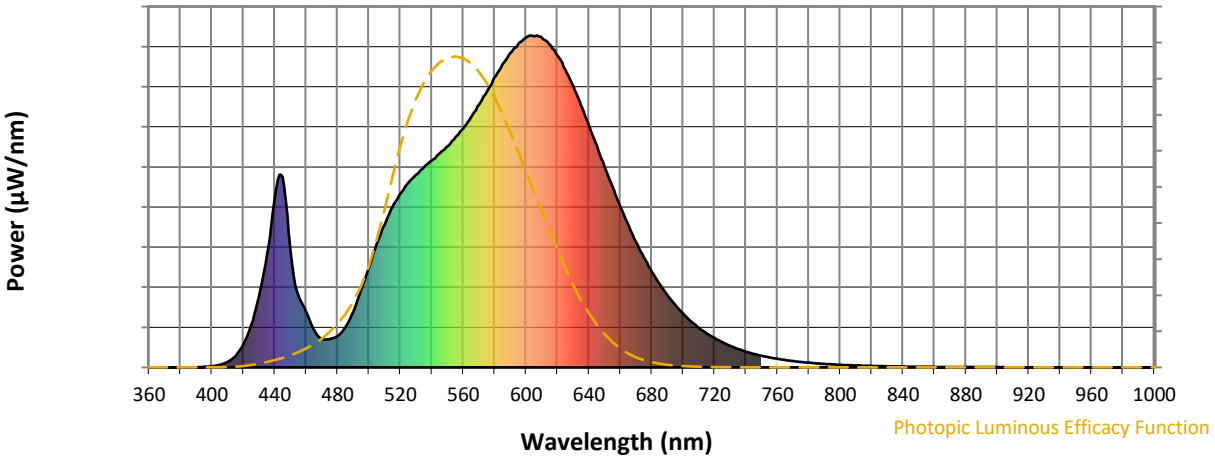


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

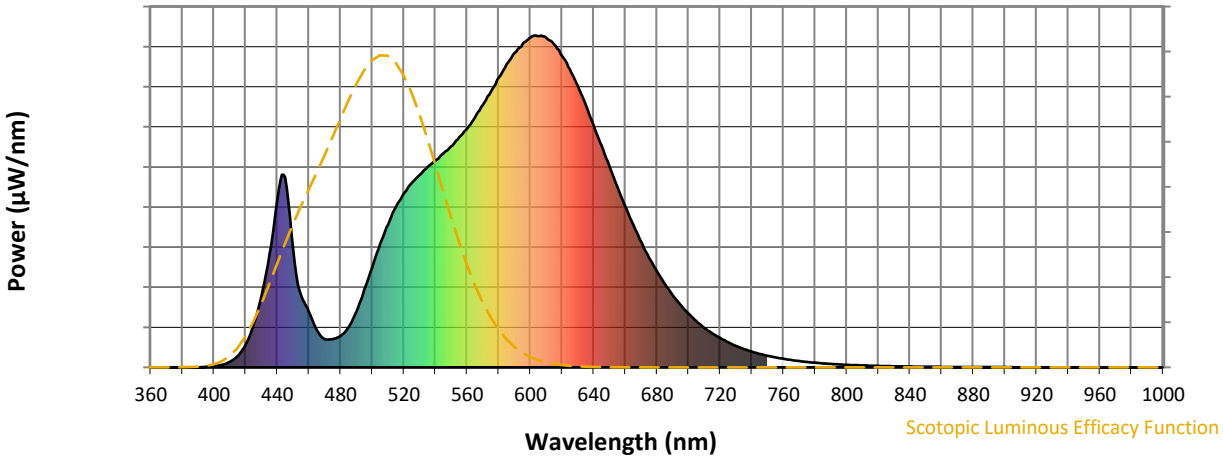


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

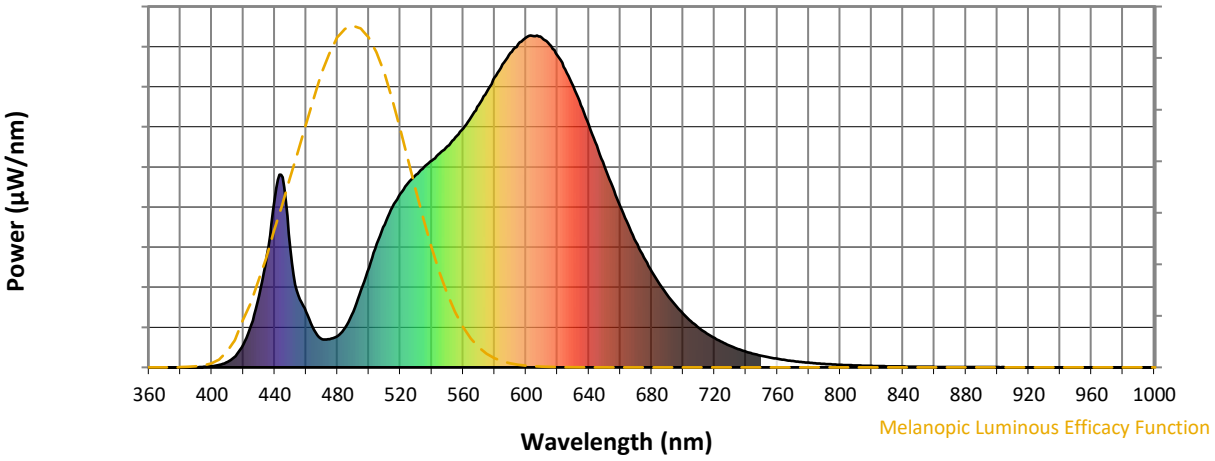


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

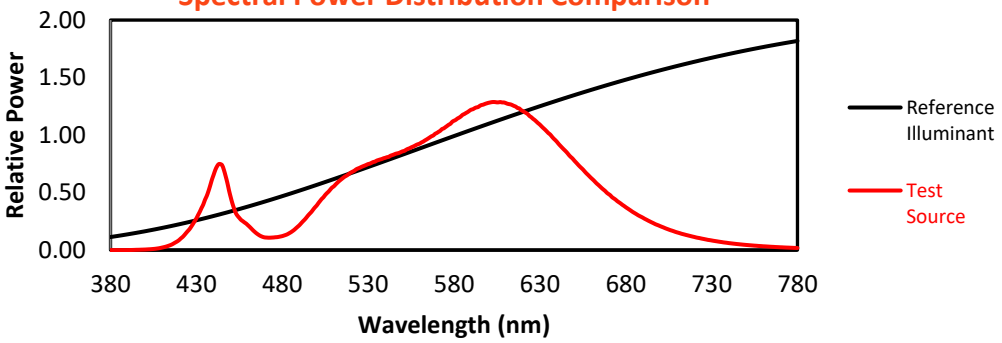
REPORT NUMBER: SP1-2408-195-9

TM-30-18

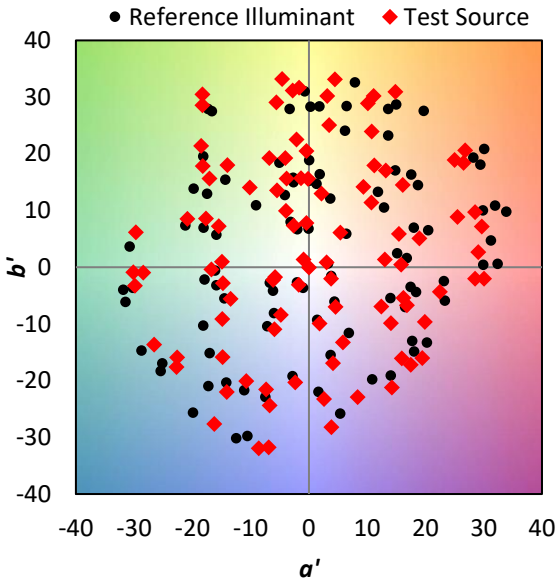
Summary

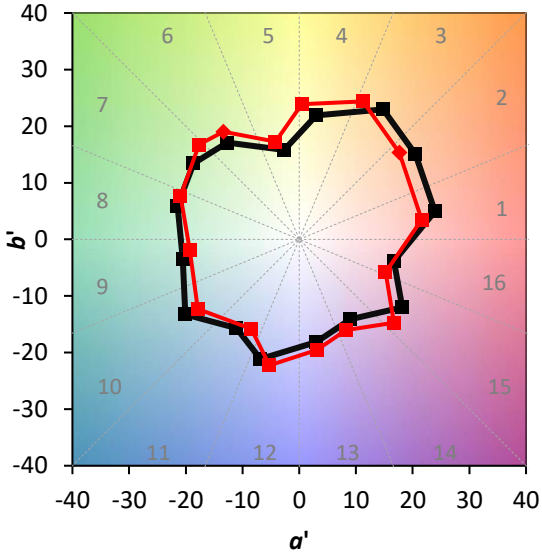
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

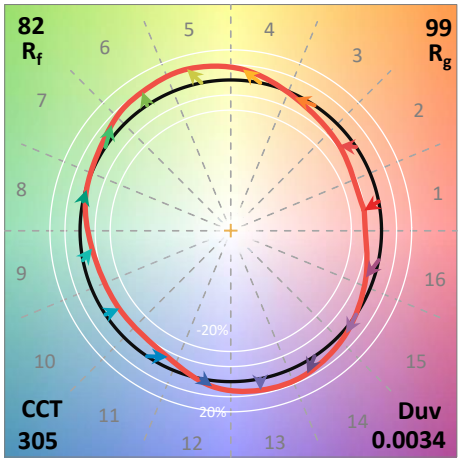
Spectral Power Distribution Comparison

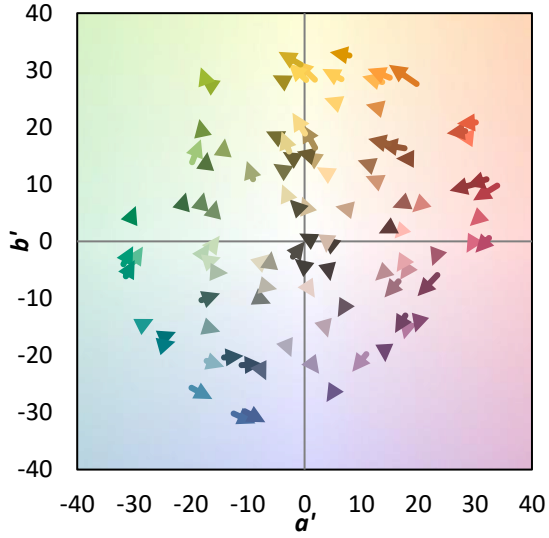


Color Vector Graphics







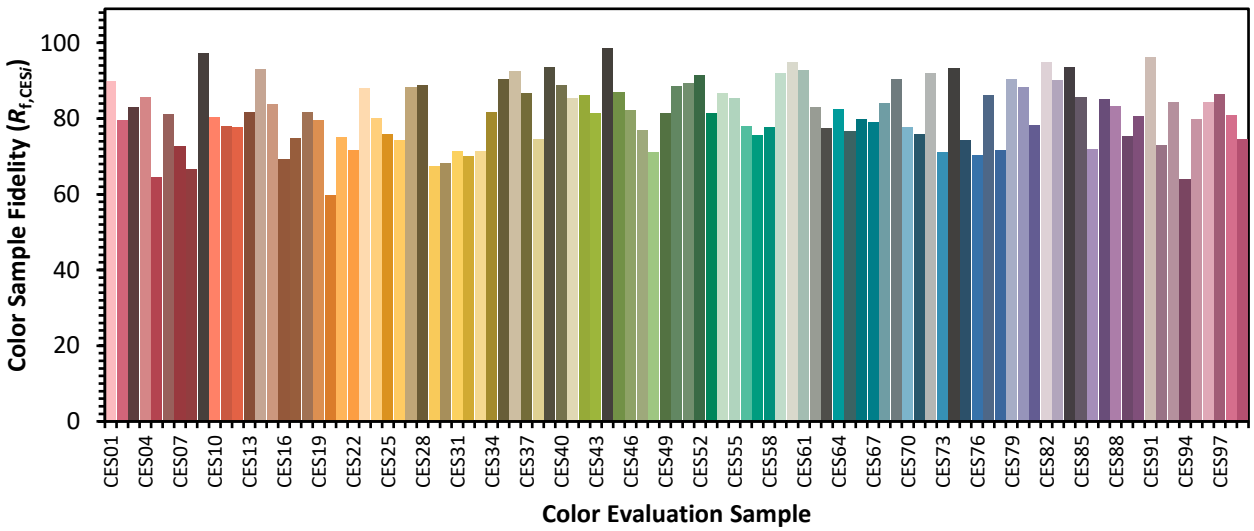


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

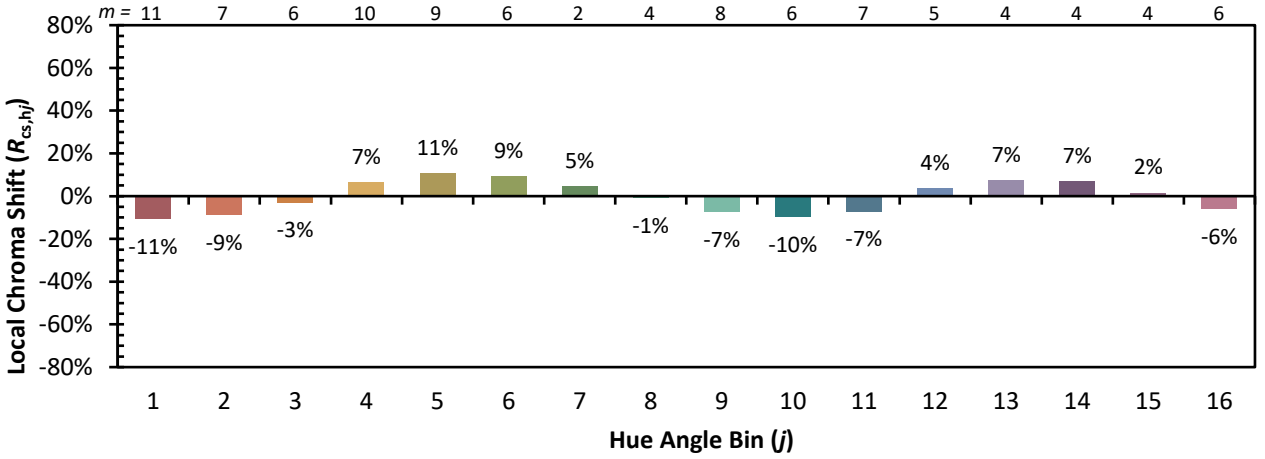
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
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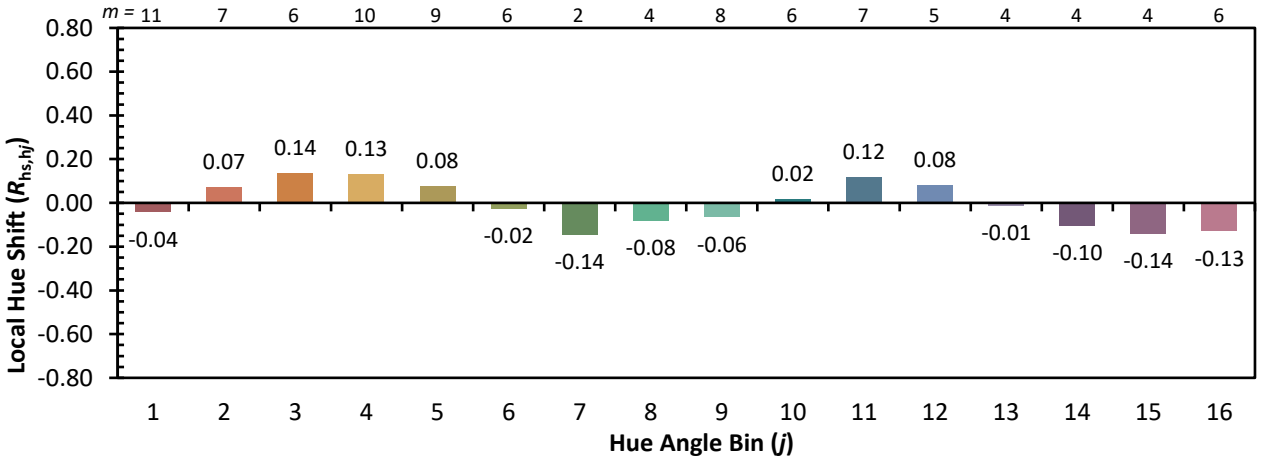


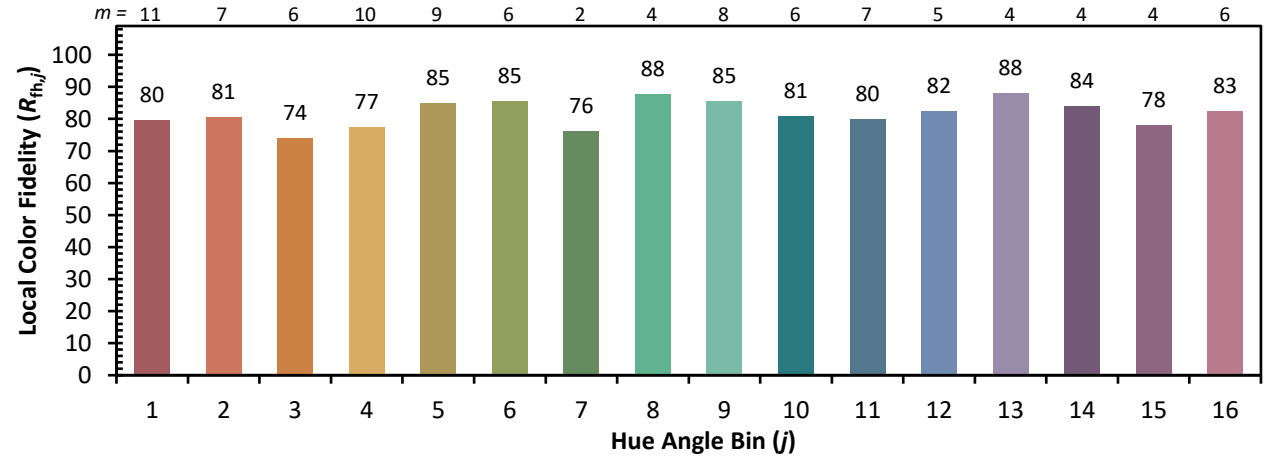
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Color Rendition by Hue-Angle Bin



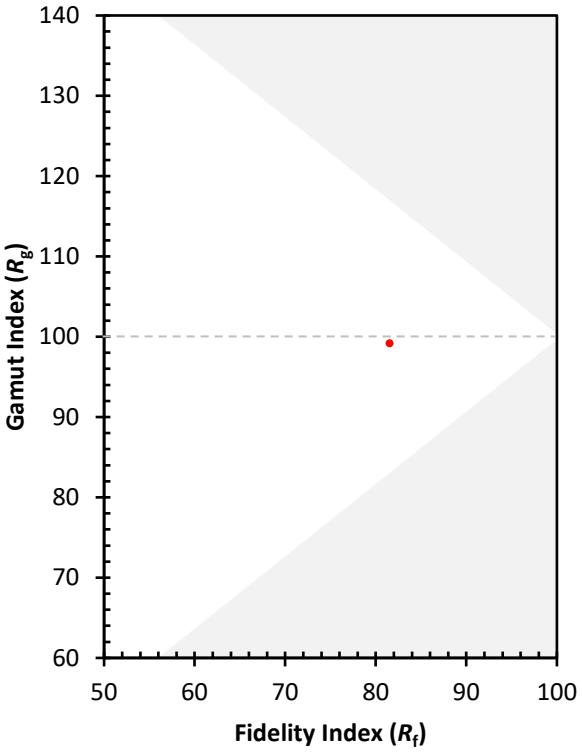


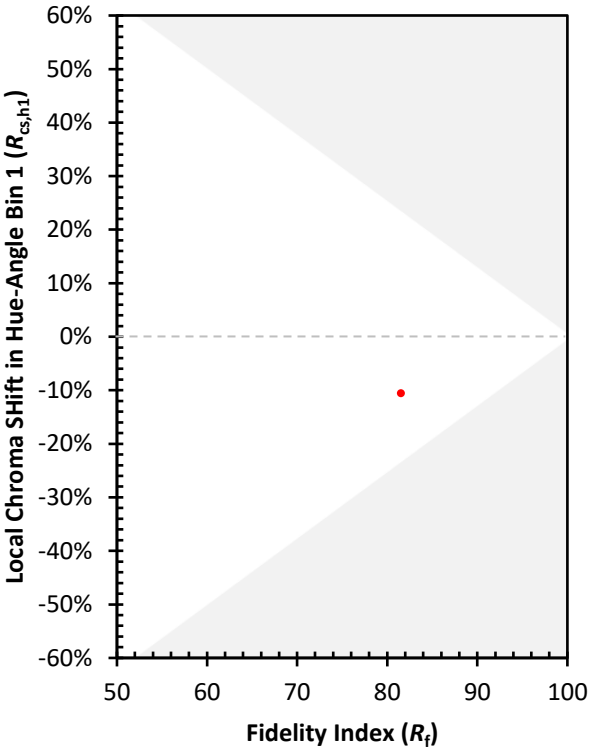


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Measure Comparisons





(END OF REPORT)