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: P1203818

Luminaire Tested: GWC-SB2D-760-U-SLL-HSS

Issue Date: 10/30/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1203818
	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-SB2D-760-U-SLL-HSS
Description:	GALLEON WALL LUMINAIRE
	(2) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF
	LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16429 lumens
Efficiency:	N/A
Efficacy:	111.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	147.6
Input Voltage (V):	120.0
Input Current (Ain):	1.234
Voltage Rise (V):	NR
Power Factor:	0.999
Total Harmonic Distortion (THDi):	3.108
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

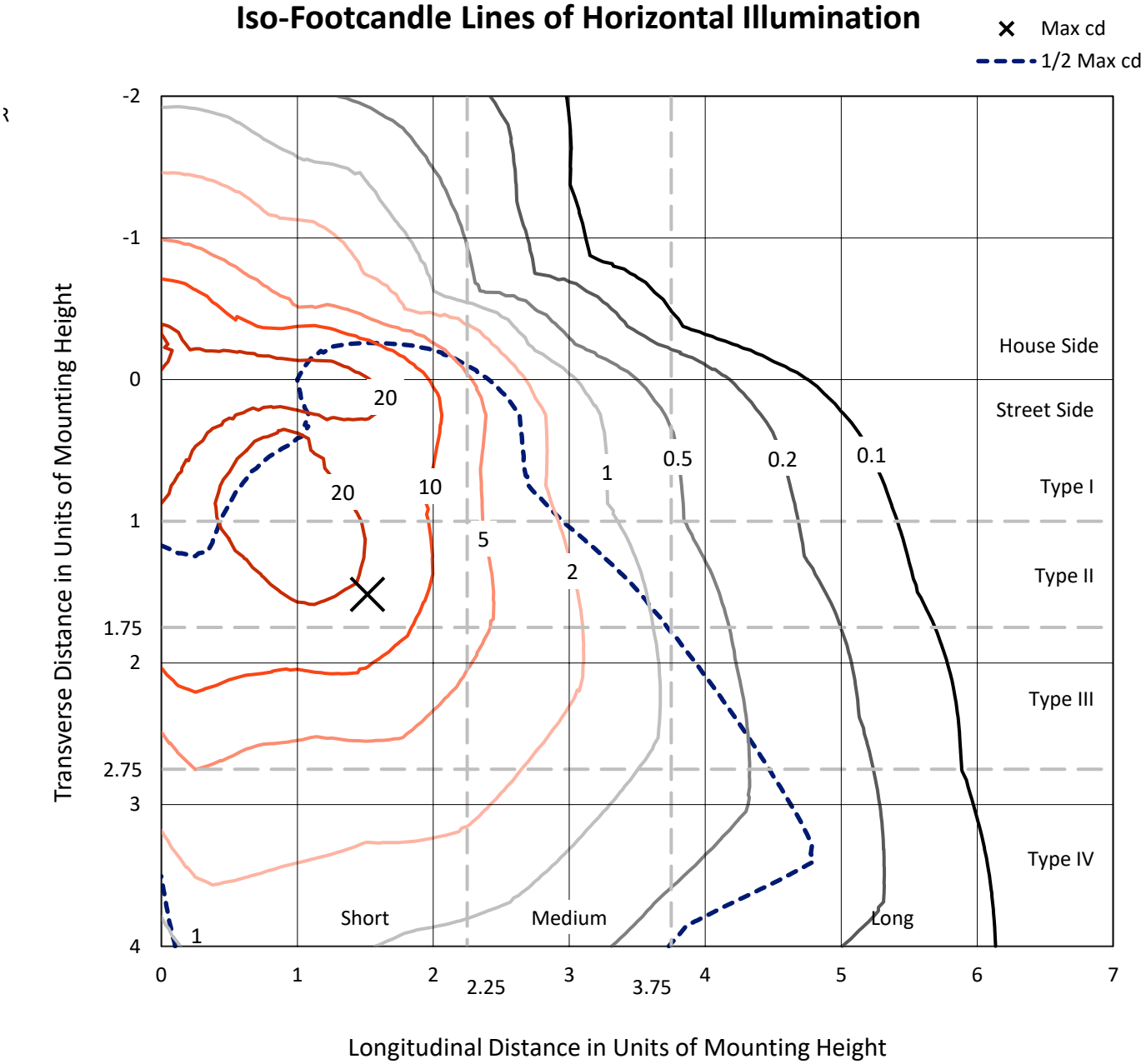


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Iso-Footcandle Lines of Horizontal Illumination



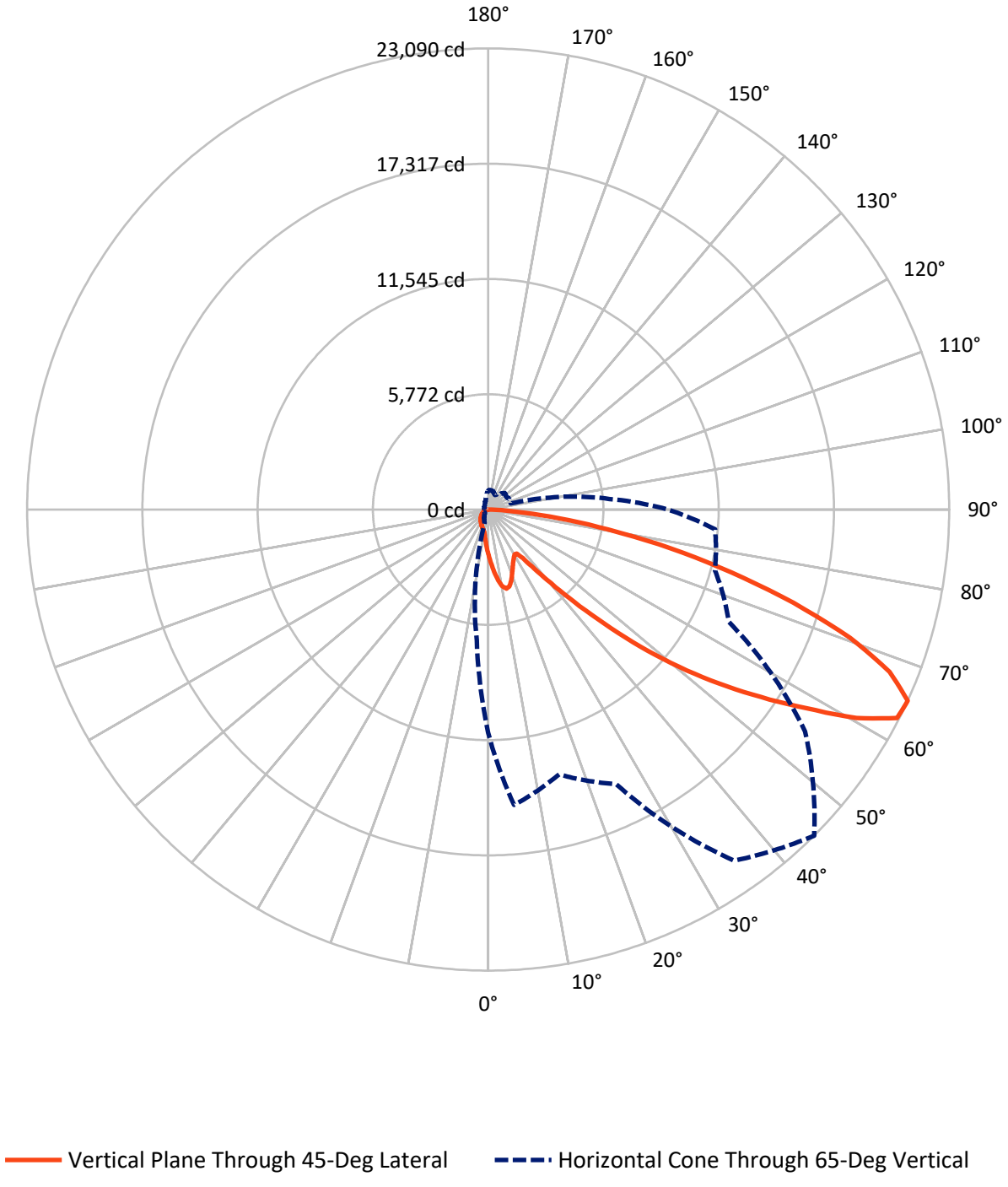
Based on 10 foot mounting height. Maximum calculated value = 31.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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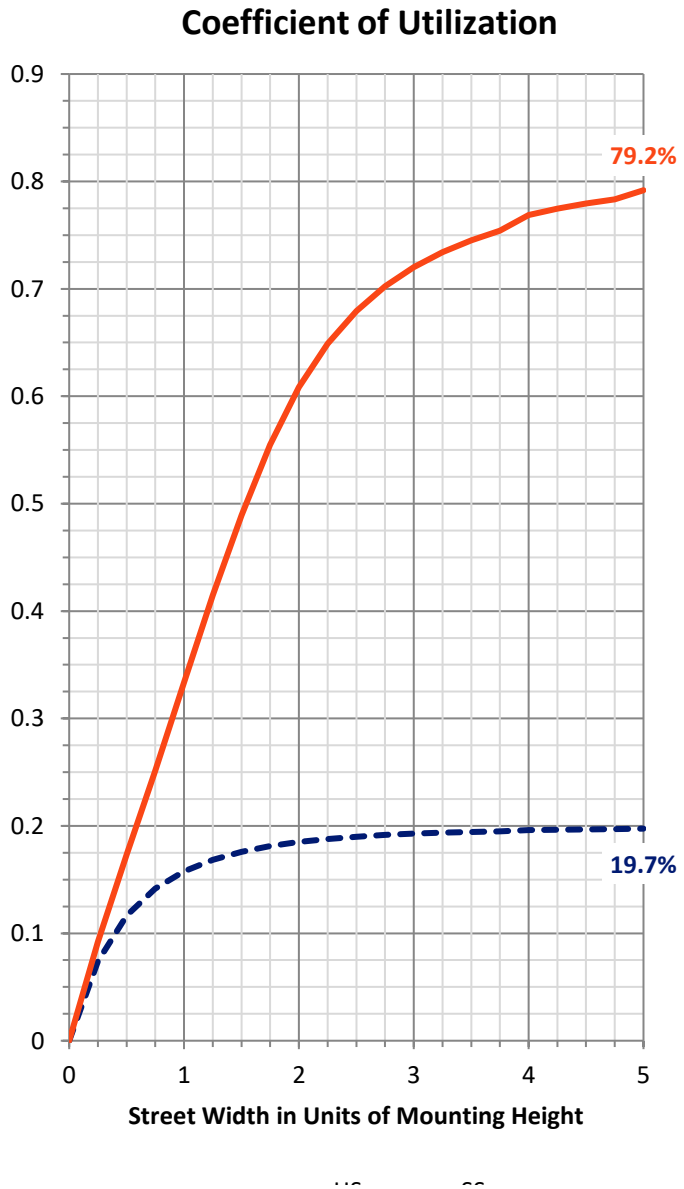
REPORT NUMBER: P1203818
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.6	0.0	3265.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	13163.4	0.0	13163.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	16429.0	0.0	16429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	1.4
10°-20°	671.4	4.1
20°-30°	989.1	6.0
30°-40°	1270.7	7.7
40°-50°	2055.2	12.5
50°-60°	3603.9	21.9
60°-70°	4509.5	27.4
70°-80°	2635.1	16.0
80°-90°	470.1	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°	16429.0	100.0
0°-180°	16429.0	100.0



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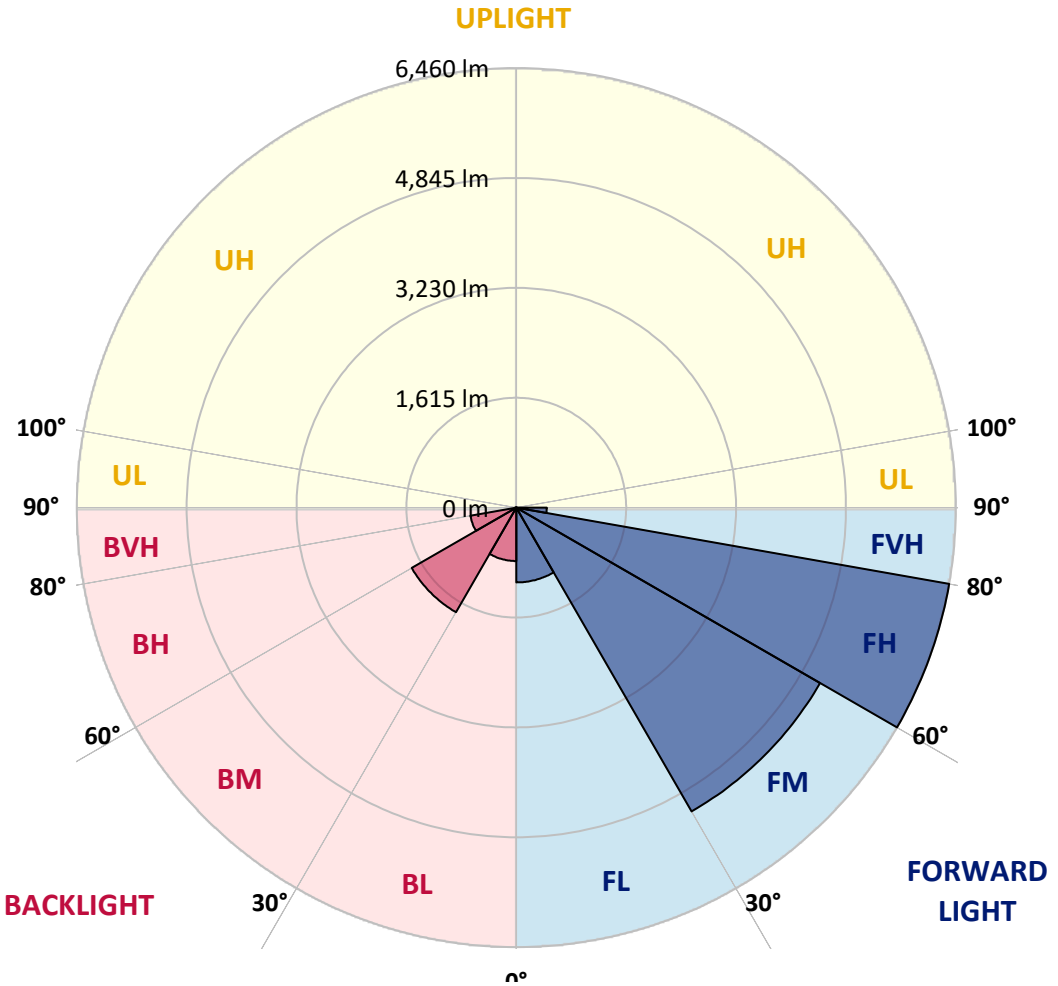
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1099.3	6.7			
FM	(30°-60°)	5155.6	31.4			
FH	(60°-80°)	6460.4	39.3			G3/7500
FVH	(80°-90°)	448.1	2.7			G3/500
BL	(0°-30°)	785.2	4.8	B2/1000		
BM	(30°-60°)	1774.2	10.8	B2/2500		
BH	(60°-80°)	684.2	4.2	B2/1000		G2/1000
BVH	(80°-90°)	22.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9
2.5°	2548.8	2568.0	2611.0	2633.7	2668.8	2671.0	2671.0	2640.5	2639.3	2577.1	2570.3
5°	2848.7	2894.0	2995.8	3101.1	3123.7	3129.4	3118.1	3057.0	3011.7	2890.6	2864.6
7.5°	3146.4	3233.5	3388.6	3528.9	3574.2	3574.2	3547.0	3447.4	3354.6	3179.2	3113.5
10°	3393.1	3502.9	3713.4	3870.7	3922.8	3911.5	3856.0	3730.4	3602.5	3389.7	3303.7
12.5°	3556.1	3679.4	3910.3	4037.1	4090.3	4060.8	3997.5	3875.2	3740.6	3516.5	3419.1
15°	3637.6	3766.6	3966.9	4033.7	4019.0	3988.4	3980.5	3921.6	3819.8	3610.4	3504.0
17.5°	3672.6	3792.6	3931.8	3890.0	3765.5	3741.7	3820.9	3895.6	3870.7	3691.9	3592.3
20°	3705.5	3806.2	3848.1	3662.5	3445.2	3423.7	3575.3	3788.1	3896.7	3767.7	3676.0
22.5°	3750.7	3813.0	3727.0	3422.5	3188.2	3138.4	3305.9	3626.2	3904.7	3863.9	3772.2
25°	3813.0	3830.0	3593.4	3195.0	2959.6	2909.8	3066.0	3446.3	3891.1	3968.0	3890.0
27.5°	3887.7	3852.6	3465.5	3004.9	2777.4	2731.0	2887.2	3273.1	3852.6	4072.2	4016.7
30°	3985.0	3882.0	3338.8	2857.8	2647.2	2613.3	2763.8	3123.7	3805.1	4204.6	4174.0
32.5°	4083.5	3894.5	3221.1	2771.7	2617.8	2630.3	2753.6	3043.4	3753.0	4331.3	4346.1
35°	4189.9	3934.1	3163.3	2856.6	2863.4	2972.1	3023.0	3118.1	3745.1	4503.4	4561.1
37.5°	4334.7	4022.4	3232.4	3278.8	3514.2	3739.4	3697.5	3483.6	3836.8	4760.3	4867.8
40°	4543.0	4177.4	3533.4	3997.5	4480.7	4846.3	4686.7	4148.0	4117.4	5130.4	5291.1
42.5°	4846.3	4424.2	4067.6	4875.7	5695.1	6297.3	5869.4	5004.8	4608.6	5658.9	5863.8
45°	5294.5	4823.7	4713.9	5802.7	7192.5	8140.9	7251.4	5918.1	5296.8	6459.1	6619.8
47.5°	5915.8	5411.1	5319.4	6779.4	9012.4	10239.3	8783.8	6764.7	6080.0	7550.1	7587.5
50°	6740.9	6202.2	5893.2	7847.8	11007.8	12378.3	10315.1	7581.8	6977.5	8883.4	8840.4
52.5°	7829.7	7305.7	6562.1	8865.3	13059.7	14472.2	11853.2	8299.4	8091.1	10430.5	10342.3
55°	9314.6	8966.0	7476.6	9836.4	15110.5	16578.4	13331.3	8976.2	9562.5	12268.6	11734.4
57.5°	11157.2	11406.1	8795.1	10962.5	16954.2	18749.2	14816.2	9922.4	11472.9	14323.9	12542.5
60°	12345.5	14651.0	11320.1	12627.3	19049.1	21204.0	16851.2	11721.9	13480.7	15060.7	12388.5
62.5°	12058.1	15683.2	14344.3	14752.8	20975.4	22988.8	18845.4	13529.4	13858.7	13975.3	11202.4
65°	11176.4	14850.2	13727.4	15165.9	21463.2	23089.6	19378.4	13296.2	11755.9	11409.5	9004.5
67.5°	9963.1	13862.1	12261.8	14070.4	20581.5	21681.6	18385.9	11761.5	9084.9	8562.0	6532.7
70°	8653.6	12768.8	11299.8	12841.2	18900.8	19227.9	16698.4	10344.5	6682.1	5782.3	4192.1
72.5°	7410.9	11630.2	10641.1	11581.6	16658.8	15982.0	14501.6	9091.6	4865.6	4170.6	2980.0
75°	6139.9	9950.7	9702.8	10085.3	13710.5	12588.9	12049.0	7527.5	3818.6	3017.3	2056.5
77.5°	4737.7	7775.4	8345.8	8076.4	9650.7	9350.8	9339.5	5656.7	2789.9	2013.4	1289.1
80°	3242.6	5419.0	6520.2	5697.4	6263.3	6110.5	7034.1	3794.9	2023.6	1212.1	717.6
82.5°	1905.9	3299.2	4538.5	2758.2	3463.3	3554.9	4188.7	1845.9	1190.6	279.6	156.2
85°	773.0	1302.7	1774.6	1079.7	1670.5	1409.1	1590.2	518.4	331.6	6.8	0.0
87.5°	194.7	416.5	292.0	121.1	193.5	177.7	140.3	63.4	13.6	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9
2.5°	2526.1	2500.1	2435.6	2371.1	2319.0	2248.9	2202.5	2147.0	2093.8	2046.3	2037.2
5°	2793.2	2707.2	2589.5	2482.0	2372.2	2265.8	2160.6	2049.7	1947.8	1885.6	1845.9
7.5°	3010.6	2858.9	2702.7	2565.8	2433.3	2308.8	2169.6	2035.0	1875.4	1790.5	1713.5
10°	3172.4	2973.2	2768.3	2611.0	2477.5	2356.4	2238.7	2102.9	1910.5	1804.1	1688.6
12.5°	3278.8	3042.2	2802.3	2622.3	2473.0	2379.0	2327.0	2273.8	2082.5	1958.0	1790.5
15°	3352.4	3090.9	2826.1	2596.3	2413.0	2343.9	2396.0	2457.1	2334.9	2191.1	1972.7
17.5°	3432.7	3154.3	2836.3	2526.1	2296.4	2267.0	2401.7	2543.1	2537.5	2394.9	2181.0
20°	3517.6	3209.7	2829.5	2413.0	2154.9	2181.0	2353.0	2517.1	2586.1	2509.2	2319.0
22.5°	3604.7	3262.9	2803.4	2265.8	2022.5	2104.0	2276.0	2419.8	2501.2	2477.5	2332.6
25°	3714.5	3337.6	2765.0	2107.4	1912.7	2025.9	2186.6	2303.2	2359.8	2358.6	2259.0
27.5°	3845.8	3437.2	2744.6	1979.5	1834.6	1937.6	2080.2	2184.3	2224.0	2224.0	2144.7
30°	3998.6	3554.9	2721.9	1895.7	1789.4	1845.9	1956.9	2058.7	2098.3	2098.3	2031.6
32.5°	4168.4	3668.1	2667.6	1844.8	1755.4	1756.5	1826.7	1919.5	1967.0	1973.8	1926.3
35°	4372.1	3789.2	2548.8	1804.1	1715.8	1669.4	1703.3	1780.3	1836.9	1851.6	1822.2
37.5°	4639.2	3937.5	2379.0	1744.1	1654.7	1577.7	1585.6	1644.5	1706.7	1729.4	1710.1
40°	4998.0	4111.8	2202.5	1658.1	1568.7	1477.0	1473.6	1516.6	1577.7	1602.6	1592.4
42.5°	5472.2	4321.2	2033.8	1575.4	1464.5	1370.6	1364.9	1398.9	1452.1	1478.1	1473.6
45°	6078.8	4578.1	1889.0	1510.9	1362.7	1269.9	1267.6	1295.9	1342.3	1369.5	1363.8
47.5°	6922.0	4835.0	1790.5	1477.0	1282.3	1187.2	1191.8	1216.7	1258.5	1277.8	1269.9
50°	8021.0	4913.1	1740.7	1477.0	1239.3	1113.7	1136.3	1156.7	1188.4	1199.7	1189.5
52.5°	9075.8	4655.0	1695.4	1486.0	1245.0	1051.4	1100.1	1114.8	1142.0	1146.5	1131.8
55°	9593.0	4002.0	1633.2	1488.3	1280.1	998.2	1070.7	1097.8	1108.0	1106.9	1082.0
57.5°	9415.3	3235.8	1527.9	1479.2	1303.8	964.3	1034.5	1086.5	1093.3	1083.1	1036.7
60°	8791.7	2382.4	1447.6	1412.5	1294.8	954.1	979.0	1061.6	1071.8	1058.2	982.4
62.5°	7745.9	1653.5	1385.3	1265.3	1255.2	950.7	891.8	1007.3	1032.2	1012.9	902.0
65°	*6098.1*	*1168.0*	*1192.9*	*1109.2*	*1169.1*	*932.6*	*801.3*	*941.6*	*975.6*	*946.2*	*790.0*
67.5°	4126.5	843.2	966.5	1005.0	1029.9	891.8	735.7	866.9	912.2	873.7	659.8
70°	2228.5	591.9	638.3	846.6	874.9	821.7	676.8	791.1	843.2	801.3	537.6
72.5°	1316.3	425.6	447.1	680.2	728.9	723.2	611.2	702.8	766.2	716.4	436.9
75°	725.5	287.5	319.2	493.5	591.9	558.0	525.1	595.3	659.8	611.2	337.3
77.5°	324.8	172.0	221.8	323.7	465.2	382.5	406.3	464.0	524.0	473.1	225.2
80°	125.6	96.2	147.1	176.6	338.4	211.6	261.4	341.8	384.8	344.1	136.9
82.5°	15.8	43.0	63.4	69.0	196.9	112.0	151.7	215.0	211.6	183.3	69.0
85°	0.0	7.9	9.1	4.5	84.9	40.7	49.8	70.2	65.6	49.8	5.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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°	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9
2.5°	1981.8	1941.0	1920.6	1903.7	1919.5	1928.6	1928.6	1967.0	1989.7	1998.7	2062.1
5°	1746.3	1670.5	1619.6	1589.0	1599.2	1610.5	1623.0	1671.6	1704.5	1726.0	1824.4
7.5°	1560.7	1445.3	1374.0	1336.6	1342.3	1350.2	1360.4	1407.9	1440.8	1469.1	1578.8
10°	1469.1	1306.1	1212.1	1166.9	1158.9	1154.4	1151.0	1179.3	1204.2	1226.9	1335.5
12.5°	1473.6	1246.1	1131.8	1076.3	1052.6	1025.4	1003.9	1008.4	1024.3	1052.6	1121.6
15°	1531.3	1226.9	1089.9	1020.9	981.3	949.6	923.5	917.9	923.5	928.1	971.1
17.5°	1609.4	1224.6	1053.7	967.7	926.9	900.9	877.1	869.2	870.3	876.0	887.3
20°	1671.6	1217.8	1012.9	916.7	880.5	857.9	834.1	826.2	828.5	829.6	842.0
22.5°	1704.5	1207.6	967.7	865.8	835.3	812.6	791.1	790.0	790.0	796.8	805.8
25°	1704.5	1186.1	926.9	817.1	790.0	769.6	743.6	748.1	750.4	759.4	773.0
27.5°	1663.7	1145.4	894.1	775.3	747.0	726.6	702.8	708.5	711.9	722.1	739.1
30°	1611.7	1096.7	856.8	735.7	702.8	688.1	667.8	670.0	674.5	685.9	705.1
32.5°	1556.2	1039.0	826.2	696.0	663.2	651.9	629.3	632.7	637.2	649.6	671.1
35°	1495.1	971.1	790.0	659.8	627.0	618.0	591.9	594.2	601.0	614.6	636.1
37.5°	1430.6	915.6	753.8	624.7	590.8	581.7	554.6	556.8	564.8	580.6	601.0
40°	1367.2	861.3	715.3	587.4	553.4	545.5	516.1	518.4	527.4	544.4	565.9
42.5°	1298.2	819.4	665.5	548.9	512.7	504.8	477.6	481.0	491.2	508.2	529.7
45°	1215.5	792.3	610.0	512.7	472.0	464.0	439.1	445.9	457.2	474.2	496.9
47.5°	1130.7	780.9	563.6	474.2	430.1	423.3	402.9	414.2	426.7	440.3	465.2
50°	1049.2	766.2	516.1	438.0	393.9	387.1	373.5	388.2	400.7	413.1	436.9
52.5°	956.4	734.5	473.1	406.3	363.3	361.0	354.2	367.8	379.1	390.5	410.8
55°	860.2	683.6	435.7	378.0	337.3	339.5	336.1	347.5	356.5	366.7	384.8
57.5°	776.4	619.1	406.3	347.5	314.6	321.4	316.9	322.6	328.2	340.7	355.4
60°	691.5	542.1	373.5	311.2	292.0	299.9	287.5	286.3	288.6	292.0	319.2
62.5°	577.2	461.8	332.7	279.6	267.1	270.5	246.7	228.6	228.6	232.0	272.8
65°	*464.0*	*387.1*	*287.5*	*243.3*	*233.1*	*230.9*	*196.9*	*172.0*	*169.8*	*180.0*	*215.0*
67.5°	381.4	321.4	242.2	202.6	195.8	198.1	173.2	148.3	146.0	157.3	183.3
70°	315.8	259.2	193.5	156.2	163.0	173.2	148.3	124.5	121.1	131.3	156.2
72.5°	251.3	202.6	148.3	115.4	134.7	147.1	121.1	98.5	96.2	105.3	129.0
75°	184.5	144.9	100.7	83.8	104.1	115.4	88.3	70.2	66.8	74.7	98.5
77.5°	114.3	81.5	63.4	49.8	71.3	77.0	46.4	40.7	39.6	45.3	62.2
80°	53.2	35.1	30.6	17.0	26.0	30.6	19.2	21.5	22.6	27.2	38.5
82.5°	14.7	5.7	1.1	0.0	0.0	9.1	4.5	9.1	11.3	17.0	24.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	10.2	18.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1
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: P1203818
CATALOG NUMBER: GWC-SB2D-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9	2274.9
2.5°	2109.6	2154.9	2227.4	2302.1	2375.6	2450.3	2522.8	2548.8
5°	1913.9	2018.0	2161.7	2315.6	2474.1	2634.8	2781.9	2848.7
7.5°	1695.4	1844.8	2061.0	2302.1	2554.4	2806.8	3038.8	3146.4
10°	1462.3	1651.3	1898.0	2224.0	2586.1	2934.7	3253.9	3393.1
12.5°	1240.4	1438.5	1711.3	2101.7	2561.2	3008.3	3392.0	3556.1
15°	1054.8	1230.3	1524.5	1956.9	2480.9	3012.8	3457.6	3637.6
17.5°	915.6	1029.9	1334.4	1796.1	2375.6	2970.9	3480.2	3672.6
20°	846.6	878.3	1087.6	1590.2	2277.2	2931.3	3502.9	3705.5
22.5°	805.8	813.8	889.6	1324.2	2159.4	2918.9	3542.5	3750.7
25°	773.0	775.3	795.6	1049.2	1979.5	2911.0	3603.6	3813.0
27.5°	740.2	740.2	751.5	845.4	1735.0	2877.0	3682.8	3887.7
30°	707.4	707.4	715.3	748.1	1448.7	2810.2	3777.9	3985.0
32.5°	673.4	673.4	680.2	704.0	1156.7	2726.5	3865.1	4083.5
35°	639.5	637.2	646.3	671.1	920.1	2620.1	3952.2	4189.9
37.5°	603.2	602.1	611.2	639.5	794.5	2496.7	4017.8	4334.7
40°	564.8	564.8	574.9	605.5	758.3	2341.7	4122.0	4543.0
42.5°	529.7	527.4	538.7	576.1	731.1	2193.4	4308.7	4846.3
45°	495.7	491.2	501.4	547.8	683.6	2141.3	4657.3	5294.5
47.5°	464.0	452.7	461.8	513.8	640.6	2336.0	5227.7	5915.8
50°	438.0	416.5	424.4	479.9	607.8	2758.2	5967.9	6740.9
52.5°	410.8	382.5	387.1	438.0	578.3	3159.9	6770.3	7829.7
55°	382.5	350.9	353.1	396.1	536.5	3219.9	7553.5	9314.6
57.5°	350.9	321.4	321.4	357.6	505.9	2791.0	8155.7	11157.2
60°	315.8	296.5	290.9	327.1	533.1	1969.3	8225.8	12345.5
62.5°	277.3	267.1	259.2	297.7	553.4	1166.9	7661.1	12058.1
65°	*233.1*	*230.9*	*225.2*	*327.1*	*466.3*	*689.3*	*6576.8*	*11176.4*
67.5°	195.8	192.4	192.4	342.9	354.2	433.5	5138.3	9963.1
70°	168.6	156.2	156.2	259.2	215.0	299.9	3587.8	8653.6
72.5°	141.5	127.9	118.8	207.1	160.7	219.6	2242.1	7410.9
75°	113.2	103.0	91.7	136.9	120.0	166.4	1302.7	6139.9
77.5°	81.5	77.0	64.5	100.7	87.1	120.0	775.3	4737.7
80°	41.9	43.0	40.7	57.7	58.9	81.5	441.4	3242.6
82.5°	24.9	19.2	21.5	28.3	34.0	46.4	166.4	1905.9
85°	15.8	10.2	10.2	13.6	17.0	18.1	50.9	773.0
87.5°	7.9	3.4	4.5	6.8	5.7	4.5	2.3	194.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

Test Information

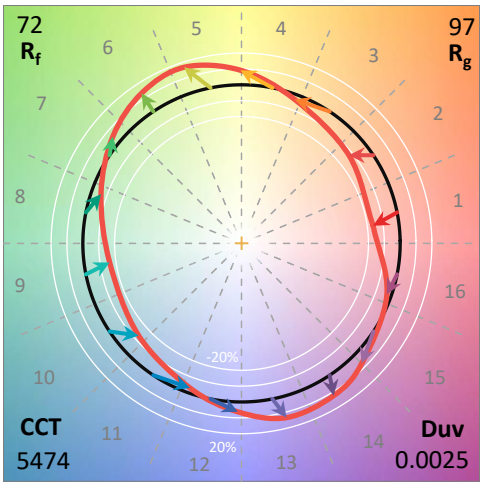
Test Method:	LM-79-2008
Report Number:	SP1-1908-441-9-R4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/28/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	**SA1C-760-U-5WQ**
Description:	McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K):	5474	CRI (Ra):	71.7		
CIE u':	0.2052	R1:	70.6	R9:	-27.1
CIE v':	0.4804	R2:	74.6	R10:	40.8
Duv:	0.0025	R3:	78.3	R11:	74.6
CIE x:	0.3330	R4:	73.8	R12:	50.4
CIE y:	0.3466	R5:	72.4	R13:	70.0
CIE z:	0.3204	R6:	67.5	R14:	87.8
Peak Wavelength (nm):	442	R7:	77.5		
Dominant Wavelength (nm):	554	R8:	58.9		
Purity:	4.1				

Rf:	72.1
Rg:	97.2



Test Conditions

Stabilization Time:	240M
Operation Time:	12H
Room Temperature (°C) / RH%:	24.6/31%
Sphere Temperature (°C):	25.9

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

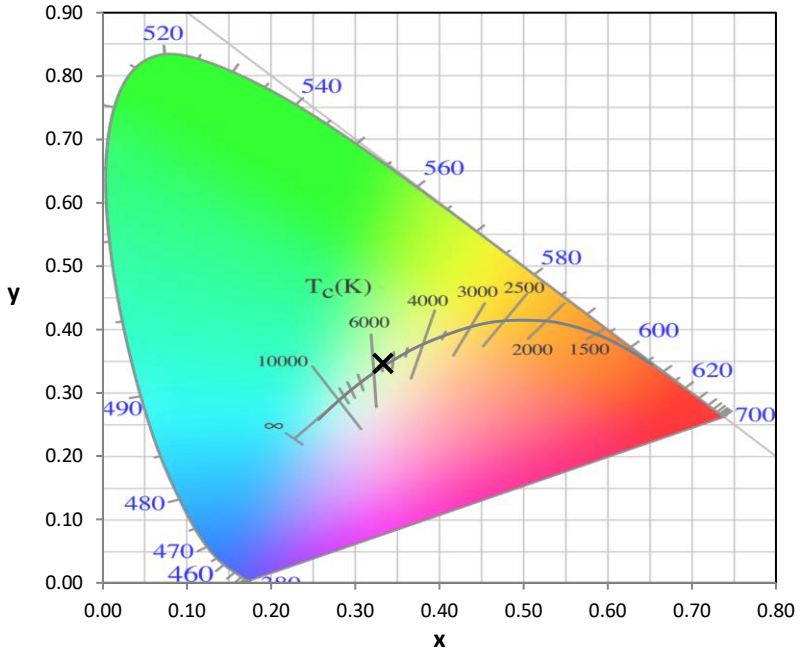
REPORT NUMBER: SP1-1908-441-9-R4

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/28/2019	12/28/2019
Power Meter	IN0071	12/5/2018	12/5/2019
AC Power Source	IN0063	12/5/2018	12/5/2019
DC Power Source	IN0208	12/5/2018	12/5/2019
Sphere Thermometer	IN0085	12/5/2018	12/5/2019
Room Thermometer	IN0046	12/5/2018	12/5/2019

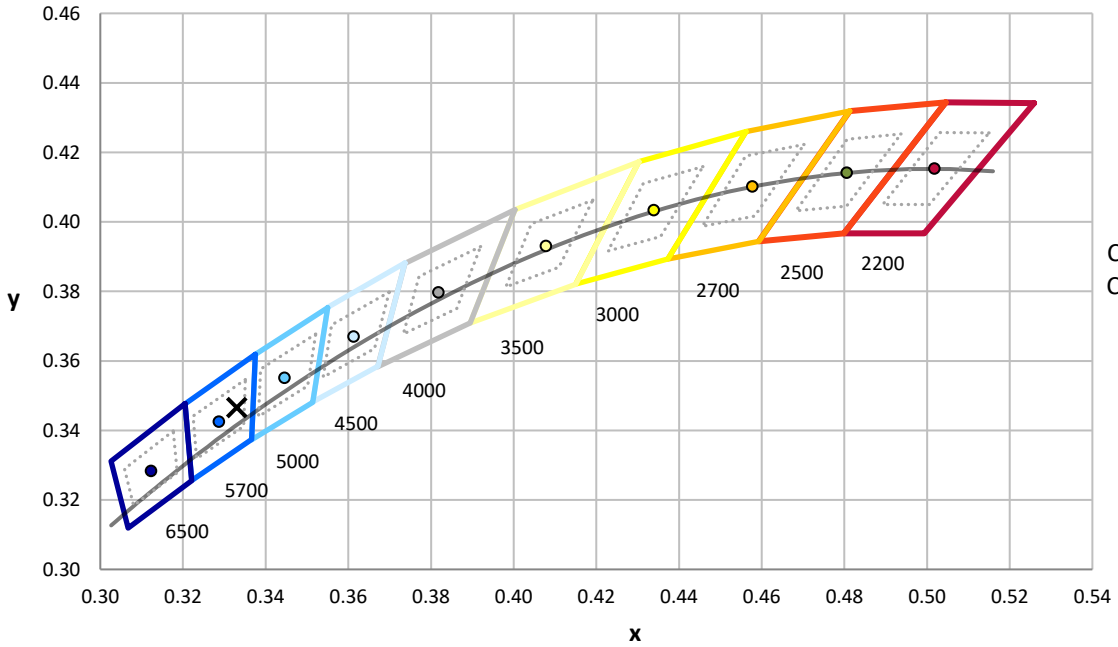
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-9-R4

CIE 1931 Chromaticity Diagram



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



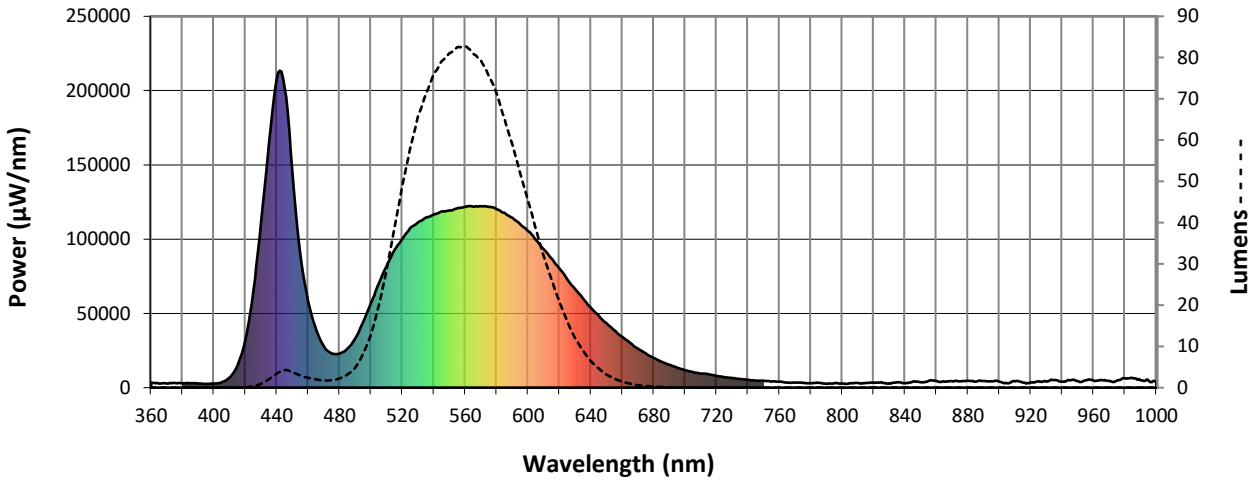
CCT = 5474K
CIE x = 0.3330
CIE y = 0.3466
Duv = 0.0025

Point lies inside the ANSI 5700K 4-step quadrangle

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Photopic Flux vs. Wavelength



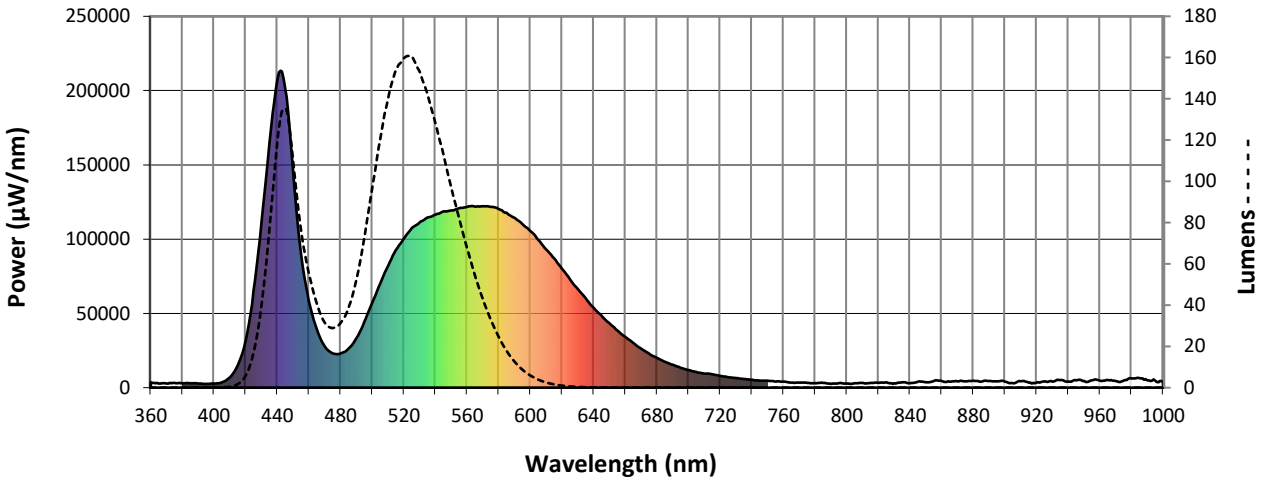
Photopic Lumens: 7459.9

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	3540	0.0	490	33363	4.7	620	80193	20.9	750	4663	0.0	880	4678	0.0
365	2862	0.0	495	44177	8.0	625	73091	16.1	755	4147	0.0	885	4128	0.0
370	2865	0.0	500	57019	12.6	630	66269	12.0	760	4040	0.0	890	4504	0.0
375	3254	0.0	505	70030	19.6	635	60012	9.0	765	3474	0.0	895	4371	0.0
380	3076	0.0	510	81972	28.2	640	53914	6.4	770	3469	0.0	900	4082	0.0
385	2904	0.0	515	92590	38.4	645	48385	4.7	775	3181	0.0	905	2982	0.0
390	2689	0.0	520	100305	48.6	650	43219	3.2	780	2969	0.0	910	4351	0.0
395	2619	0.0	525	107452	57.7	655	38562	2.2	785	3132	0.0	915	3365	0.0
400	2679	0.0	530	111373	65.6	660	34110	1.4	790	2507	0.0	920	3430	0.0
405	3515	0.0	535	114505	71.0	665	30085	1.0	795	2968	0.0	925	4264	0.0
410	6934	0.0	540	116408	75.8	670	26205	0.6	800	2758	0.0	930	4095	0.0
415	14943	0.0	545	118700	79.0	675	22906	0.4	805	2872	0.0	935	5048	0.0
420	31939	0.1	550	119209	81.0	680	20058	0.2	810	3094	0.0	940	4074	0.0
425	64701	0.3	555	120742	82.5	685	17413	0.1	815	3222	0.0	945	4949	0.0
430	110939	0.9	560	121594	82.6	690	15447	0.1	820	3238	0.0	950	4387	0.0
435	164597	1.9	565	121913	81.1	695	13398	0.1	825	3524	0.0	955	4978	0.0
440	207696	3.3	570	122147	79.4	700	11777	0.0	830	2921	0.0	960	4706	0.0
445	201830	4.2	575	121605	75.7	705	10412	0.0	835	3595	0.0	965	5083	0.0
450	145410	3.8	580	120248	71.5	710	9544	0.0	840	3016	0.0	970	4522	0.0
455	89594	3.0	585	117717	65.4	715	8940	0.0	845	4032	0.0	975	4740	0.0
460	58321	2.4	590	114359	59.1	720	7897	0.0	850	3579	0.0	980	6122	0.0
465	39318	2.0	595	109974	52.1	725	7045	0.0	855	4571	0.0	985	6450	0.0
470	27693	1.7	600	105269	45.4	730	6483	0.0	860	4485	0.0	990	4875	0.0
475	23081	1.8	605	99453	38.5	735	5838	0.0	865	3978	0.0	995	4764	0.0
480	23002	2.2	610	92921	31.9	740	5261	0.0	870	4298	0.0	1000	3640	0.0
485	26201	3.1	615	86989	26.3	745	4760	0.0	875	4356	0.0			

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



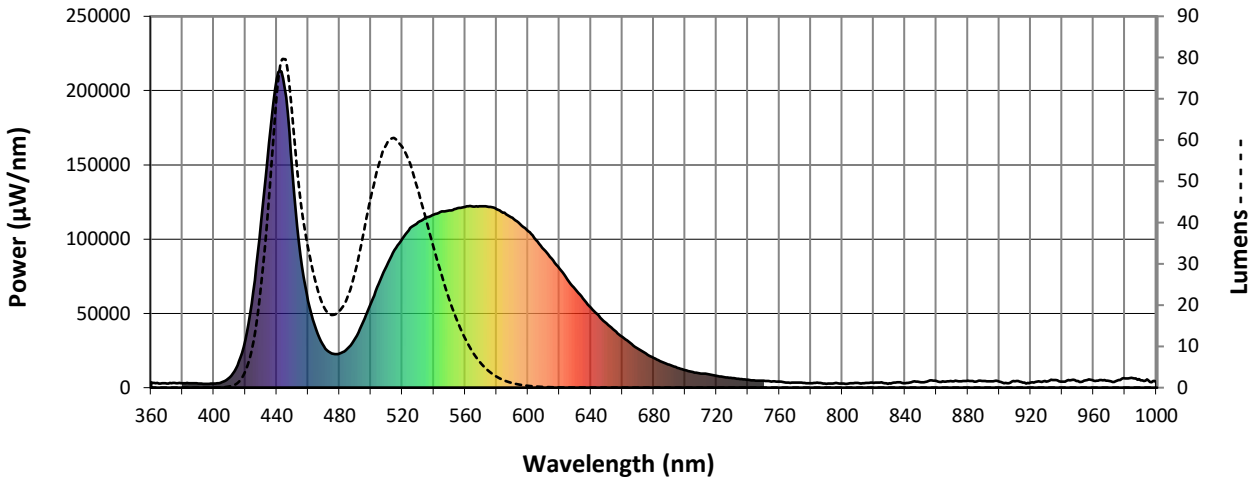
Scotopic Lumens: 13759.3 **S/P: 1.85**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	3540	0.0	490	33363	27.8	620	80193	0.1	750	4663	0.0	880	4678	0.0
365	2862	0.0	495	44177	36.5	625	73091	0.0	755	4147	0.0	885	4128	0.0
370	2865	0.0	500	57019	45.8	630	66269	0.0	760	4040	0.0	890	4504	0.0
375	3254	0.0	505	70030	53.7	635	60012	0.0	765	3474	0.0	895	4371	0.0
380	3076	0.0	510	81972	58.9	640	53914	0.0	770	3469	0.0	900	4082	0.0
385	2904	0.0	515	92590	60.5	645	48385	0.0	775	3181	0.0	905	2982	0.0
390	2689	0.0	520	100305	58.4	650	43219	0.0	780	2969	0.0	910	4351	0.0
395	2619	0.0	525	107452	54.5	655	38562	0.0	785	3132	0.0	915	3365	0.0
400	2679	0.0	530	111373	48.1	660	34110	0.0	790	2507	0.0	920	3430	0.0
405	3515	0.1	535	114505	41.2	665	30085	0.0	795	2968	0.0	925	4264	0.0
410	6934	0.3	540	116408	34.1	670	26205	0.0	800	2758	0.0	930	4095	0.0
415	14943	1.0	545	118700	27.6	675	22906	0.0	805	2872	0.0	935	5048	0.0
420	31939	3.6	550	119209	21.4	680	20058	0.0	810	3094	0.0	940	4074	0.0
425	64701	10.1	555	120742	16.3	685	17413	0.0	815	3222	0.0	945	4949	0.0
430	110939	23.4	560	121594	12.0	690	15447	0.0	820	3238	0.0	950	4387	0.0
435	164597	43.9	565	121913	8.6	695	13398	0.0	825	3524	0.0	955	4978	0.0
440	207696	69.4	570	122147	6.0	700	11777	0.0	830	2921	0.0	960	4706	0.0
445	201830	79.6	575	121605	4.0	705	10412	0.0	835	3595	0.0	965	5083	0.0
450	145410	67.0	580	120248	2.7	710	9544	0.0	840	3016	0.0	970	4522	0.0
455	89594	46.9	585	117717	1.7	715	8940	0.0	845	4032	0.0	975	4740	0.0
460	58321	34.4	590	114359	1.1	720	7897	0.0	850	3579	0.0	980	6122	0.0
465	39318	25.7	595	109974	0.7	725	7045	0.0	855	4571	0.0	985	6450	0.0
470	27693	19.8	600	105269	0.4	730	6483	0.0	860	4485	0.0	990	4875	0.0
475	23081	17.6	605	99453	0.3	735	5838	0.0	865	3978	0.0	995	4764	0.0
480	23002	18.5	610	92921	0.2	740	5261	0.0	870	4298	0.0	1000	3640	0.0
485	26201	21.6	615	86989	0.1	745	4760	0.0	875	4356	0.0			

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

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 **M/P: 0.74**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	3540	0.0	490	33363	51.4	620	80193	1.0	750	4663	0.0	880	4678	0.0
365	2862	0.0	495	44177	71.4	625	73091	0.6	755	4147	0.0	885	4128	0.0
370	2865	0.0	500	57019	95.4	630	66269	0.4	760	4040	0.0	890	4504	0.0
375	3254	0.0	505	70030	119.1	635	60012	0.2	765	3474	0.0	895	4371	0.0
380	3076	0.0	510	81972	138.9	640	53914	0.1	770	3469	0.0	900	4082	0.0
385	2904	0.0	515	92590	153.5	645	48385	0.1	775	3181	0.0	905	2982	0.0
390	2689	0.0	520	100305	159.4	650	43219	0.0	780	2969	0.0	910	4351	0.0
395	2619	0.0	525	107452	160.7	655	38562	0.0	785	3132	0.0	915	3365	0.0
400	2679	0.0	530	111373	153.5	660	34110	0.0	790	2507	0.0	920	3430	0.0
405	3515	0.1	535	114505	142.7	665	30085	0.0	795	2968	0.0	925	4264	0.0
410	6934	0.4	540	116408	128.6	670	26205	0.0	800	2758	0.0	930	4095	0.0
415	14943	1.5	545	118700	113.8	675	22906	0.0	805	2872	0.0	935	5048	0.0
420	31939	5.3	550	119209	97.5	680	20058	0.0	810	3094	0.0	940	4074	0.0
425	64701	15.8	555	120742	82.5	685	17413	0.0	815	3222	0.0	945	4949	0.0
430	110939	37.8	560	121594	68.0	690	15447	0.0	820	3238	0.0	950	4387	0.0
435	164597	73.6	565	121913	54.7	695	13398	0.0	825	3524	0.0	955	4978	0.0
440	207696	116.1	570	122147	43.1	700	11777	0.0	830	2921	0.0	960	4706	0.0
445	201830	135.1	575	121605	33.1	705	10412	0.0	835	3595	0.0	965	5083	0.0
450	145410	112.7	580	120248	24.8	710	9544	0.0	840	3016	0.0	970	4522	0.0
455	89594	78.3	585	117717	18.0	715	8940	0.0	845	4032	0.0	975	4740	0.0
460	58321	56.3	590	114359	12.7	720	7897	0.0	850	3579	0.0	980	6122	0.0
465	39318	41.5	595	109974	8.8	725	7045	0.0	855	4571	0.0	985	6450	0.0
470	27693	31.9	600	105269	5.9	730	6483	0.0	860	4485	0.0	990	4875	0.0
475	23081	28.9	605	99453	3.9	735	5838	0.0	865	3978	0.0	995	4764	0.0
480	23002	31.1	610	92921	2.5	740	5261	0.0	870	4298	0.0	1000	3640	0.0
485	26201	38.0	615	86989	1.6	745	4760	0.0	875	4356	0.0			

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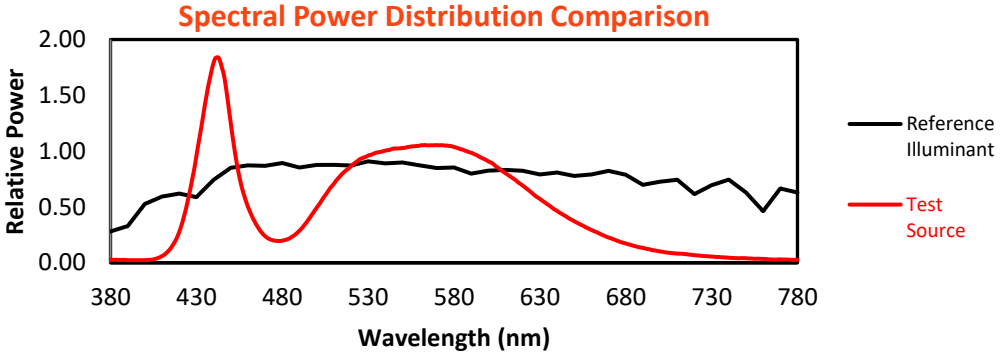
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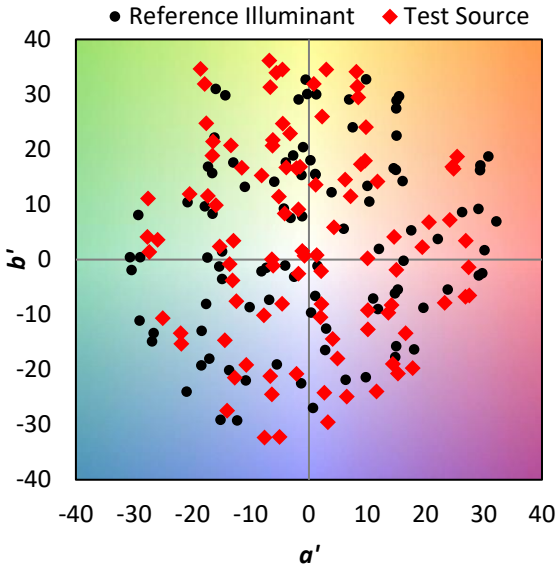
Summary

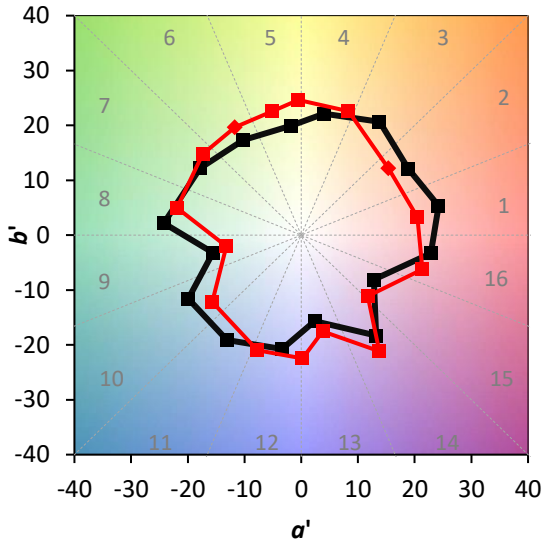
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R_g = 97.2
CIE R_a = 71.7
R_9 = -27.1

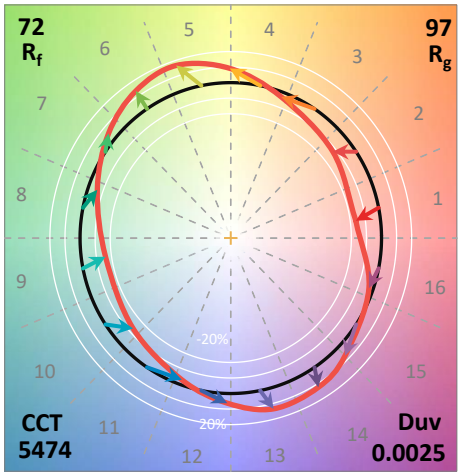
Spectral Power Distribution Comparison

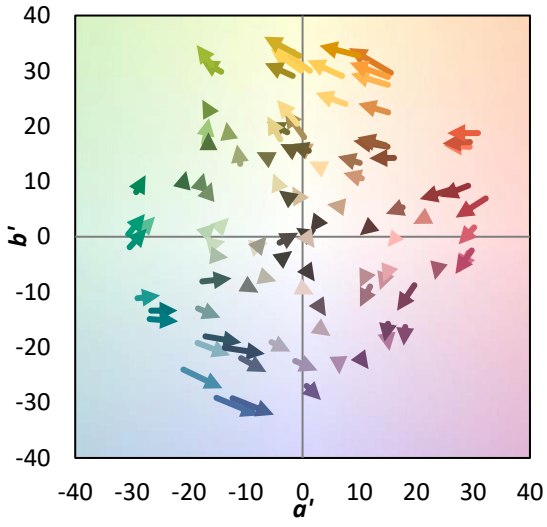


Color Vector Graphics









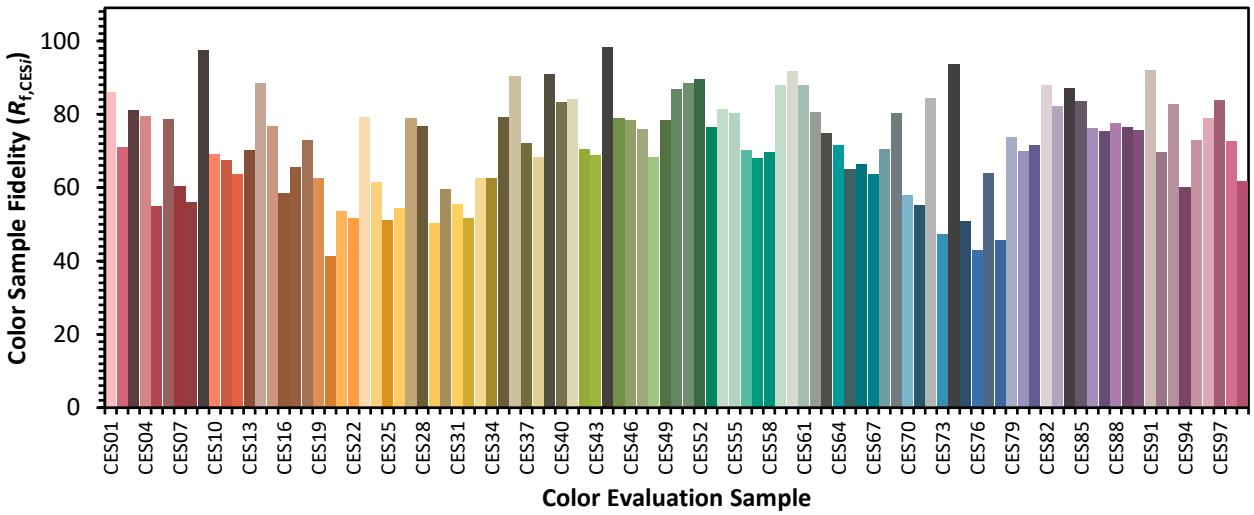
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Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 54	CES51 = 88	CES76 = 43
CES02 = 59	CES27 = 79	CES52 = 90	CES77 = 64
CES03 = 30	CES28 = 77	CES53 = 77	CES78 = 46
CES04 = 69	CES29 = 50	CES54 = 81	CES79 = 74
CES05 = 46	CES30 = 59	CES55 = 80	CES80 = 70
CES06 = 50	CES31 = 55	CES56 = 70	CES81 = 71
CES07 = 38	CES32 = 52	CES57 = 68	CES82 = 88
CES08 = 38	CES33 = 63	CES58 = 70	CES83 = 82
CES09 = 29	CES34 = 63	CES59 = 88	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 92	CES85 = 84
CES11 = 55	CES36 = 90	CES61 = 88	CES86 = 76
CES12 = 61	CES37 = 72	CES62 = 81	CES87 = 75
CES13 = 41	CES38 = 68	CES63 = 75	CES88 = 77
CES14 = 74	CES39 = 91	CES64 = 72	CES89 = 76
CES15 = 70	CES40 = 83	CES65 = 65	CES90 = 76
CES16 = 46	CES41 = 84	CES66 = 66	CES91 = 92
CES17 = 48	CES42 = 70	CES67 = 64	CES92 = 70
CES18 = 55	CES43 = 69	CES68 = 71	CES93 = 83
CES19 = 70	CES44 = 98	CES69 = 80	CES94 = 60
CES20 = 64	CES45 = 79	CES70 = 58	CES95 = 73
CES21 = 85	CES46 = 78	CES71 = 55	CES96 = 79
CES22 = 77	CES47 = 76	CES72 = 84	CES97 = 84
CES23 = 91	CES48 = 68	CES73 = 47	CES98 = 73
CES24 = 90	CES49 = 78	CES74 = 94	CES99 = 62
CES25 = 71	CES50 = 87	CES75 = 51	

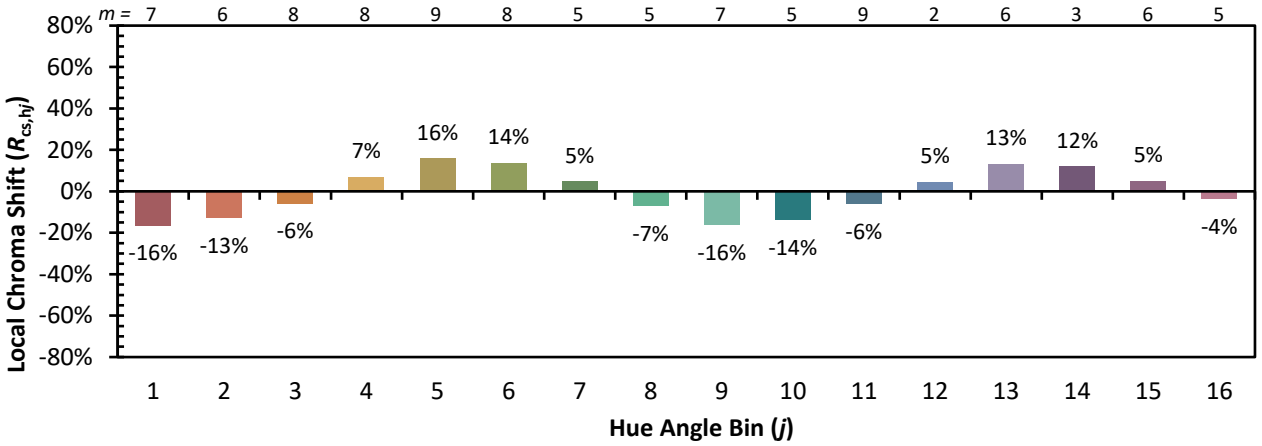


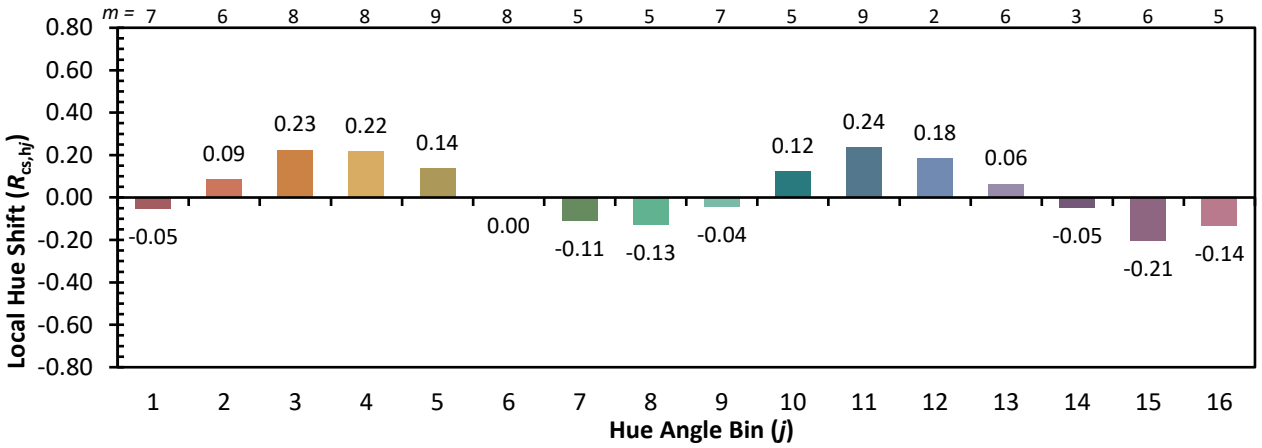
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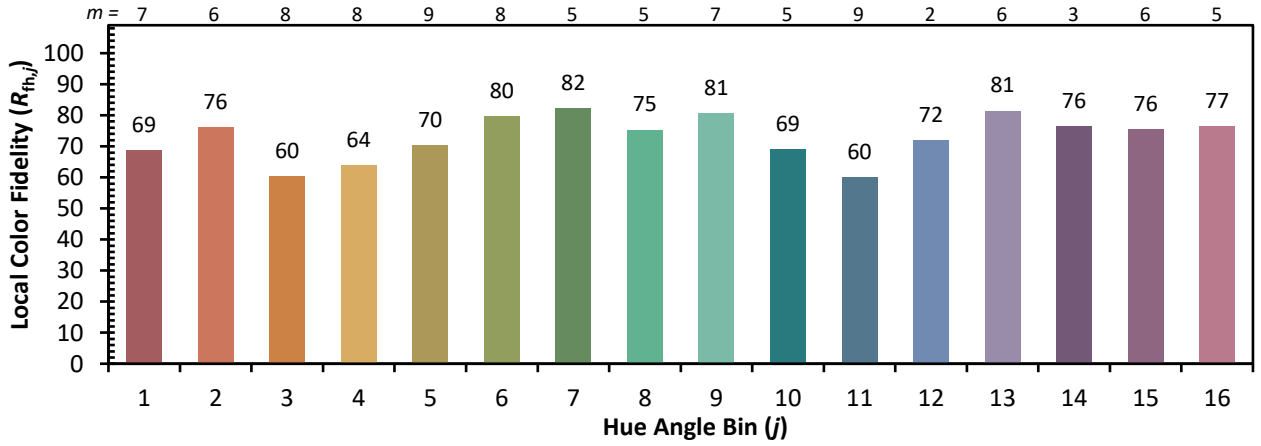
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Color Rendition by Hue-Angle Bin





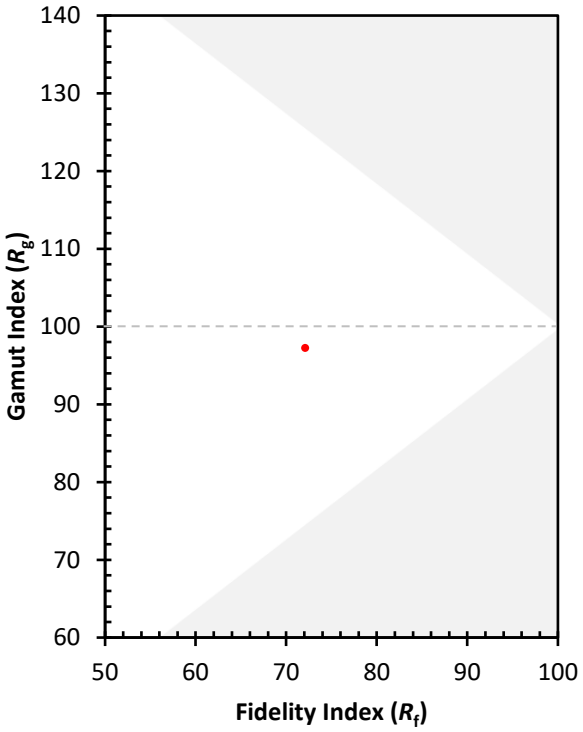


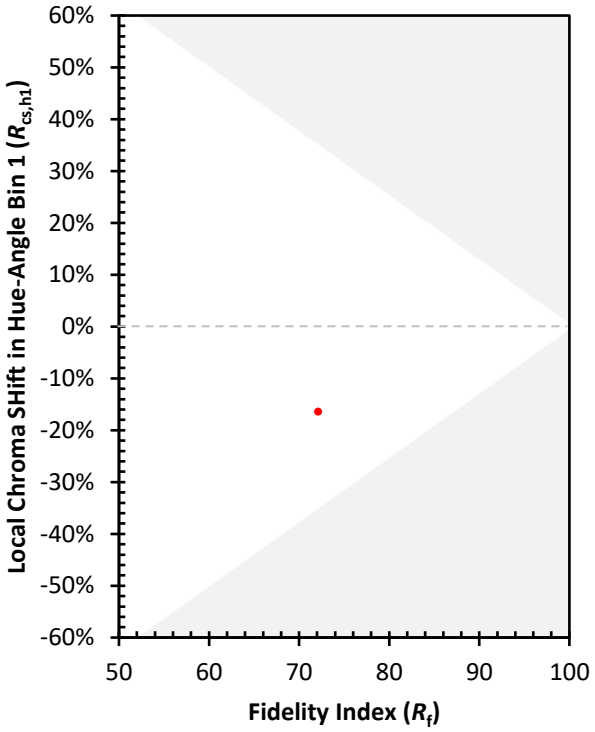
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Measure Comparisons





(END OF REPORT)