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: P1501507

Luminaire Tested: GSS-SB4C-827-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501507
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25075.4 lumens
Efficiency:	N/A
Efficacy:	122.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

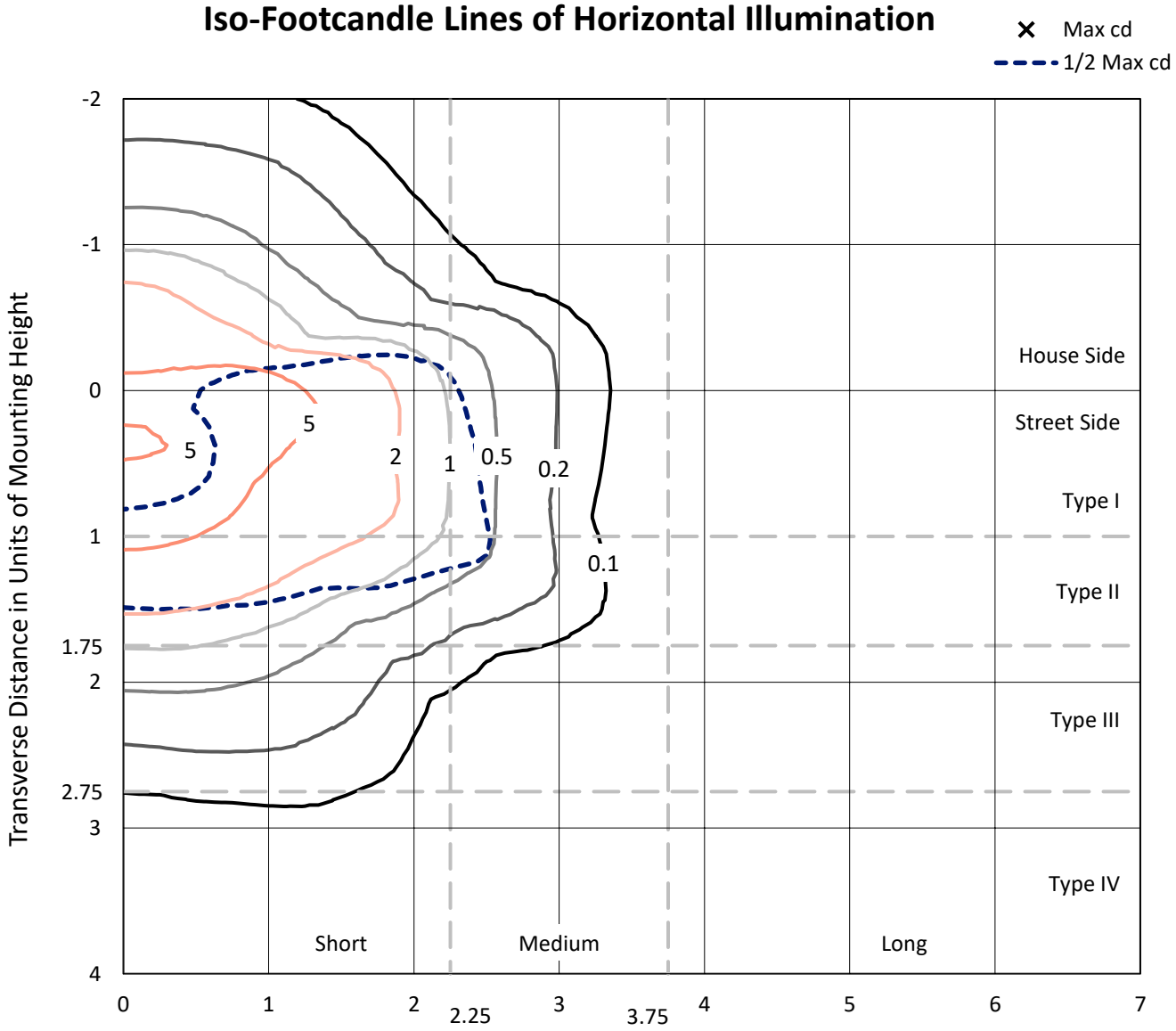
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



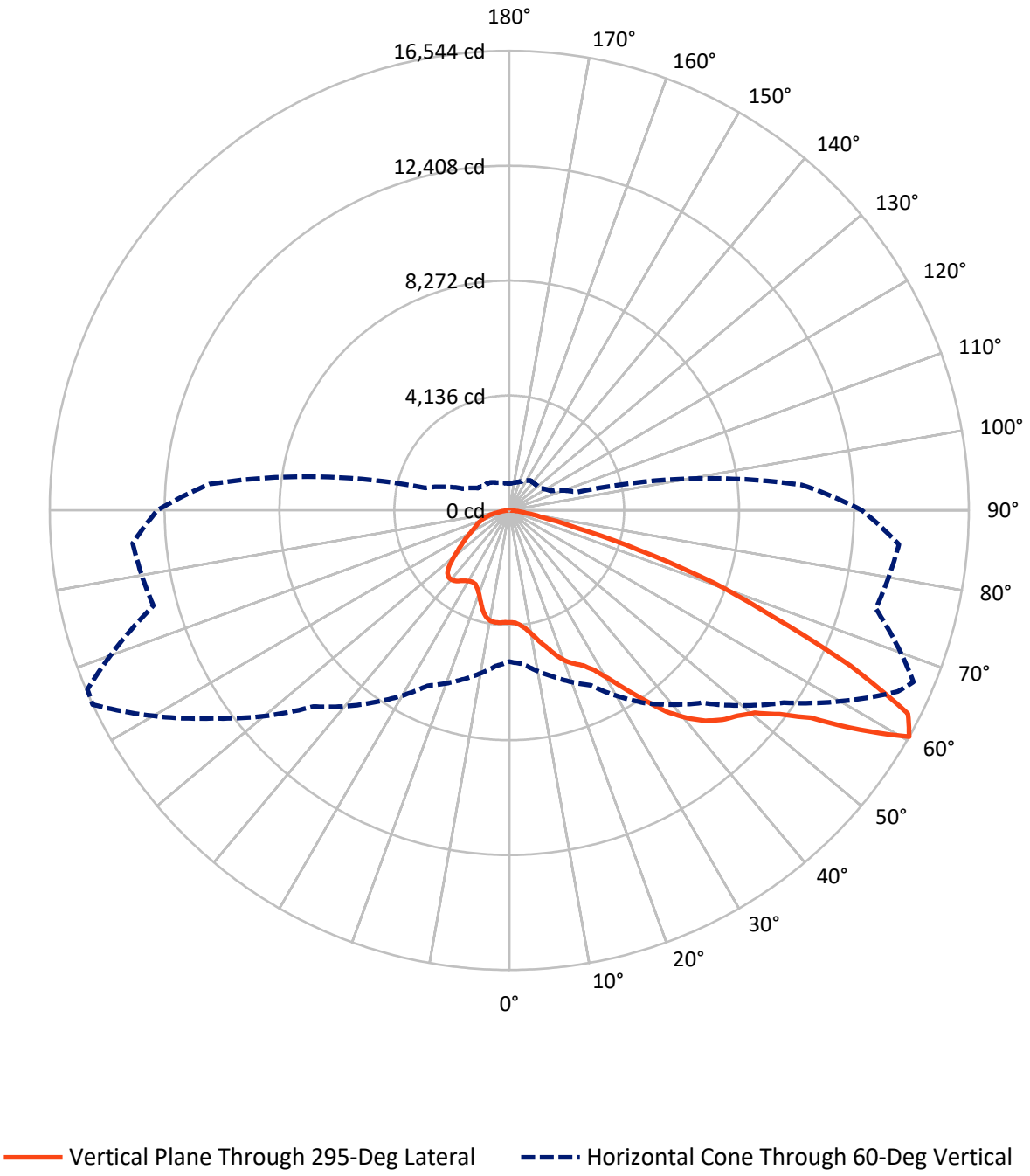
Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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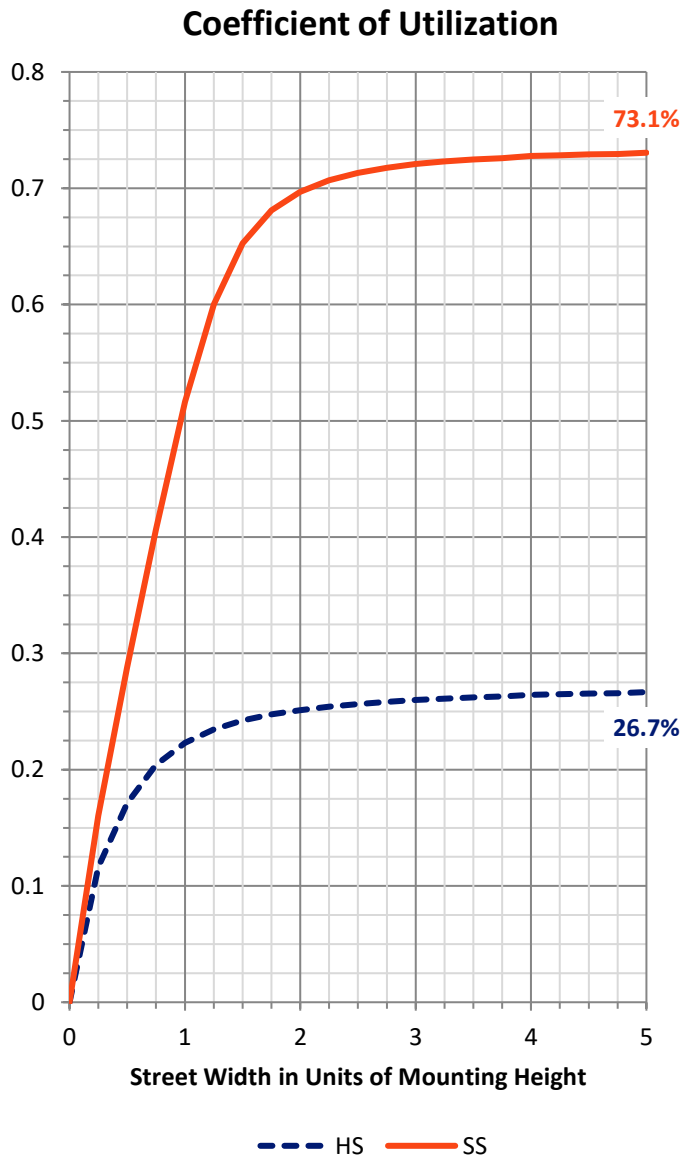
REPORT NUMBER: P1501507
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6743.1	0.0	6743.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18332.3	0.0	18332.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	25075.4	0.0	25075.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.5
10°-20°	1090.5	4.3
20°-30°	2065.6	8.2
30°-40°	3641.5	14.5
40°-50°	5385.3	21.5
50°-60°	6323.8	25.2
60°-70°	4581.9	18.3
70°-80°	1413.0	5.6
80°-90°	194.5	0.8
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°	25075.4	100.0
0°-180°	25075.4	100.0



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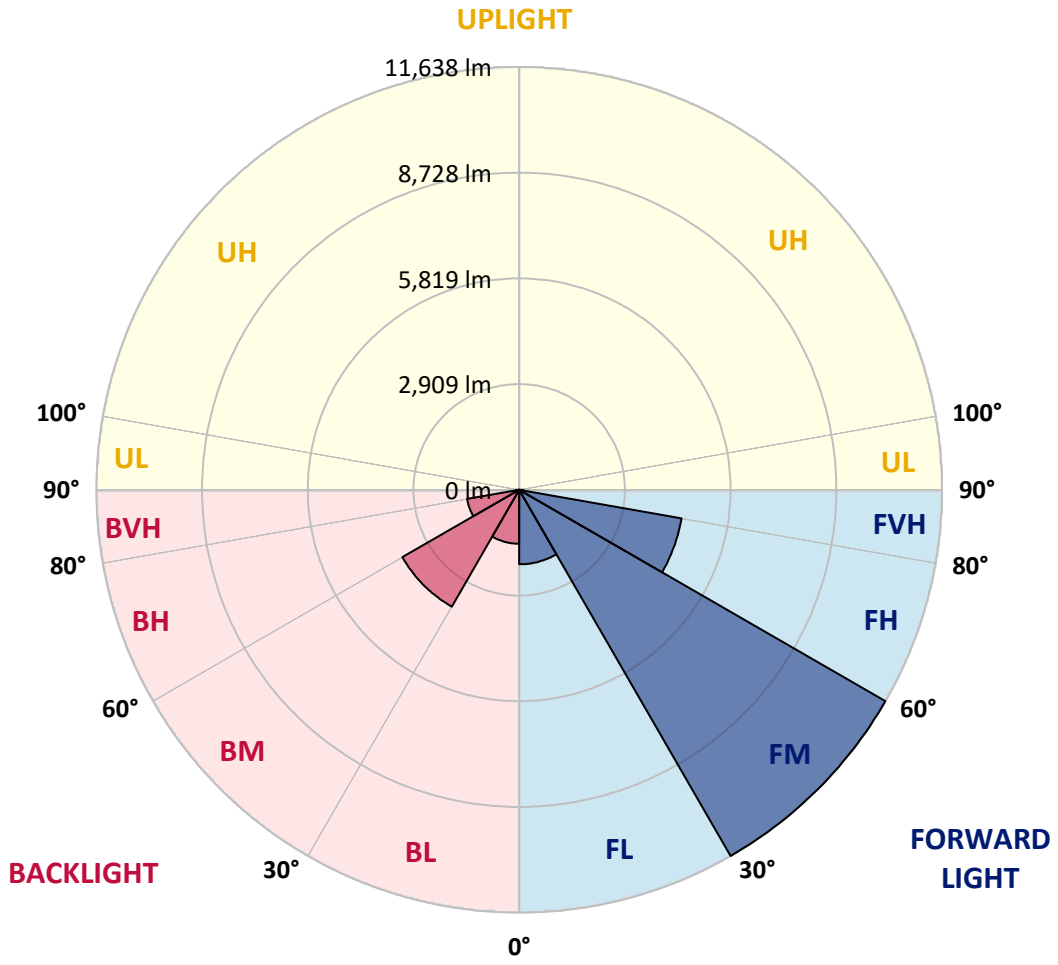
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2050.3	8.2			
FM	(30°-60°)	11637.7	46.4			
FH	(60°-80°)	4539.4	18.1			G2/5000
FVH	(80°-90°)	104.9	0.4			G2/225
BL	(0°-30°)	1485.1	5.9	B3/2500		
BM	(30°-60°)	3713.0	14.8	B3/5000		
BH	(60°-80°)	1455.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	89.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5
2.5°	4114.5	4126.0	4108.8	4120.2	4120.2	4103.1	4097.4	4074.5	4086.0	4080.2	4074.5
5°	4211.7	4217.4	4206.0	4223.1	4223.1	4228.8	4223.1	4194.5	4194.5	4194.5	4183.1
7.5°	4183.1	4183.1	4188.8	4246.0	4303.1	4377.4	4377.4	4366.0	4377.4	4371.7	4320.3
10°	3943.1	3965.9	4017.4	4160.2	4297.4	4457.4	4566.0	4600.3	4600.3	4606.0	4520.3
12.5°	3514.5	3531.6	3651.6	3868.8	4154.5	4446.0	4708.8	4880.3	4897.4	4926.0	4811.7
15°	3131.6	3143.0	3228.8	3451.6	3777.4	4291.7	4788.8	5143.2	5200.3	5320.3	5148.9
17.5°	3165.9	3160.2	3183.0	3268.8	3503.1	4040.2	4771.7	5451.7	5554.6	5766.0	5617.5
20°	3371.6	3371.6	3388.8	3405.9	3491.6	3857.4	4646.0	5703.2	5903.2	6314.7	6143.2
22.5°	3697.4	3697.4	3691.6	3720.2	3720.2	3937.4	4651.7	5891.8	6188.9	6926.1	6760.4
25°	4148.8	4126.0	4126.0	4137.4	4086.0	4240.2	4794.6	6086.1	6474.7	7651.9	7509.0
27.5°	4657.4	4674.6	4663.1	4623.1	4554.6	4674.6	5137.4	6388.9	6794.7	8417.6	8360.5
30°	5211.7	5217.4	5228.9	5206.0	5148.9	5234.6	5674.6	6846.1	7217.6	9217.7	9343.4
32.5°	5754.6	5834.6	5806.1	5748.9	5771.8	5926.1	6337.5	7463.3	7846.2	9960.6	10406.3
35°	6446.1	6474.7	6589.0	6377.5	6383.2	6646.1	7183.3	8274.8	8646.2	10732.1	11469.2
37.5°	7451.9	7503.3	7451.9	7120.4	7069.0	7434.7	8006.2	9074.8	9343.4	11314.9	12457.9
40°	8440.5	8503.4	8589.1	8200.5	7874.7	8177.6	8783.4	9686.3	9966.3	11635.0	13115.0
42.5°	9257.7	9360.5	9269.1	9154.8	8857.7	8914.8	9326.3	10160.6	10440.6	12040.7	13777.9
45°	9949.1	9966.3	10006.3	9926.3	9777.7	9726.3	9789.1	10577.8	10886.3	12223.6	14103.7
47.5°	10234.9	10309.2	10343.5	10480.6	10634.9	10532.0	10183.4	10772.1	11052.1	12212.1	14206.5
50°	10080.6	10154.9	10337.7	10663.5	11034.9	11217.8	10646.3	11040.6	11354.9	12417.9	14418.0
52.5°	9674.8	9754.9	10052.0	10423.5	11046.4	11463.5	11297.8	11600.7	11903.5	12783.6	14772.3
55°	8691.9	8811.9	9229.1	9846.3	10703.5	11332.1	11983.6	12423.6	12755.0	13223.6	15138.0
57.5°	7263.3	7389.0	7857.6	8783.4	10069.2	10789.2	12183.6	13966.5	14115.1	13749.4	15172.3
60°	*5440.3*	*5543.2*	*6206.1*	*6949.0*	*8457.6*	*9794.9*	*12069.3*	*15429.5*	*15806.6*	*13657.9*	*14080.8*
62.5°	4308.8	4434.5	5023.1	5366.0	6446.1	8091.9	11669.2	15835.2	16160.9	12903.6	12560.7
65°	3365.9	3451.6	4000.2	4491.7	4754.6	5526.0	10000.6	13852.2	14143.7	11675.0	10366.3
67.5°	2223.0	2354.4	3005.9	3680.2	3817.4	3514.5	6880.4	10657.8	10794.9	9280.5	7794.7
70°	1594.4	1657.2	2143.0	2863.0	3068.7	2354.4	3748.8	8069.0	8109.0	6228.9	5251.7
72.5°	1085.8	1097.2	1457.2	2194.4	2445.9	1708.7	2063.0	5314.6	5177.4	3074.5	3005.9
75°	737.2	748.6	931.5	1462.9	1731.5	1188.6	1342.9	2897.3	2783.0	1697.2	1823.0
77.5°	497.2	508.6	640.0	982.9	1154.4	822.9	982.9	1531.5	1502.9	1125.8	977.2
80°	377.2	394.3	474.3	628.6	805.8	480.0	560.0	725.8	737.2	600.0	497.2
82.5°	211.4	234.3	285.7	320.0	520.0	268.6	268.6	434.3	417.2	371.5	268.6
85°	91.4	97.1	114.3	120.0	211.4	114.3	97.1	188.6	194.3	182.9	85.7
87.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	22.9	22.9	22.9	22.9
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°	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5
2.5°	4045.9	4080.2	4045.9	4028.8	4028.8	4000.2	3988.8	3988.8	3948.8	3965.9	3954.5
5°	4137.4	4148.8	4108.8	4057.4	3988.8	3931.7	3851.7	3748.8	3685.9	3680.2	3685.9
7.5°	4280.2	4286.0	4177.4	4063.1	3891.7	3685.9	3440.2	3240.2	3063.0	3034.5	3068.7
10°	4480.3	4468.8	4308.8	4040.2	3680.2	3245.9	2868.7	2685.9	2583.0	2577.3	2571.6
12.5°	4748.8	4674.6	4428.8	3943.1	3314.5	2811.6	2617.3	2605.9	2634.4	2657.3	2663.0
15°	5057.4	4960.3	4526.0	3754.5	2943.0	2651.6	2663.0	2760.2	2794.4	2817.3	2817.3
17.5°	5440.3	5314.6	4634.6	3485.9	2754.4	2685.9	2765.9	2857.3	2914.5	2937.3	2931.6
20°	5948.9	5686.0	4720.3	3228.8	2703.0	2743.0	2811.6	2903.0	2960.2	2988.7	2988.7
22.5°	6457.5	6131.8	4737.4	3051.6	2703.0	2748.7	2811.6	2903.0	2965.9	2994.5	2988.7
25°	7149.0	6703.2	4743.1	2925.9	2708.7	2720.2	2777.3	2857.3	2948.7	2977.3	2988.7
27.5°	7886.2	7331.9	4771.7	2897.3	2685.9	2680.2	2720.2	2794.4	2885.9	2960.2	2965.9
30°	8800.5	8040.5	4783.1	2925.9	2691.6	2617.3	2645.9	2720.2	2817.3	2891.6	2914.5
32.5°	9697.7	8697.6	4760.3	2988.7	2703.0	2577.3	2583.0	2628.7	2731.6	2783.0	2823.0
35°	10646.3	9394.8	4720.3	3074.5	2708.7	2560.1	2508.7	2531.6	2600.2	2605.9	2623.0
37.5°	11389.2	9914.9	4600.3	3188.8	2720.2	2497.3	2394.4	2377.3	2348.7	2291.6	2303.0
40°	12000.7	10263.5	4400.3	3245.9	2691.6	2423.0	2251.6	2171.6	2063.0	1977.3	1994.4
42.5°	12440.7	10497.8	4160.2	3257.3	2645.9	2297.3	2085.8	1948.7	1828.7	1737.2	1743.0
45°	12635.0	10474.9	3903.1	3171.6	2537.3	2143.0	1931.5	1800.1	1668.7	1571.5	1560.1
47.5°	12640.7	10252.0	3548.8	2965.9	2354.4	1965.8	1788.7	1645.8	1537.2	1468.7	1462.9
50°	12686.5	10126.3	3217.3	2668.7	2114.4	1777.2	1663.0	1520.1	1457.2	1360.1	1331.5
52.5°	12972.2	10332.0	2988.7	2343.0	1891.5	1640.1	1554.4	1428.7	1325.8	1262.9	1257.2
55°	13435.1	10686.3	2863.0	2097.3	1680.1	1508.7	1451.5	1342.9	1251.5	1188.6	1171.5
57.5°	13492.2	10869.2	2714.4	1868.7	1508.7	1405.8	1382.9	1262.9	1131.5	1085.8	1068.6
60°	*12692.2*	*10560.6*	*2531.6*	*1657.2*	*1382.9*	*1325.8*	*1314.4*	*1154.4*	*1045.8*	*988.6*	*965.8*
62.5°	11600.7	9789.1	2251.6	1462.9	1285.8	1245.8	1200.1	1074.3	937.2	874.3	857.2
65°	9480.6	8229.0	1914.4	1331.5	1188.6	1142.9	1131.5	960.1	868.6	834.3	828.6
67.5°	7183.3	6611.8	1685.8	1234.4	1085.8	1068.6	1028.6	971.5	931.5	891.5	880.1
70°	5080.3	4771.7	1434.4	1108.6	982.9	954.3	1120.1	1057.2	914.3	862.9	857.2
72.5°	3080.2	2994.5	1240.1	994.3	845.8	891.5	1034.3	954.3	822.9	760.0	737.2
75°	1943.0	1777.2	1040.1	845.8	674.3	725.8	902.9	851.5	708.6	645.8	628.6
77.5°	1057.2	982.9	782.9	691.5	531.5	588.6	788.6	702.9	565.7	617.2	548.6
80°	462.9	514.3	520.0	400.0	354.3	434.3	565.7	548.6	434.3	440.0	365.7
82.5°	222.9	291.4	337.2	274.3	200.0	257.2	377.2	314.3	291.4	274.3	262.9
85°	68.6	108.6	148.6	131.4	91.4	108.6	177.2	171.4	205.7	177.2	165.7
87.5°	22.9	22.9	17.1	17.1	17.1	22.9	28.6	17.1	5.7	5.7	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°	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5
2.5°	3948.8	3954.5	3954.5	3960.2	3960.2	3977.4	4000.2	4023.1	4005.9	4028.8	4034.5
5°	3674.5	3703.1	3725.9	3811.7	3880.2	3937.4	4000.2	4057.4	4074.5	4086.0	4114.5
7.5°	3028.7	3108.8	3257.3	3451.6	3668.8	3880.2	4023.1	4171.7	4194.5	4223.1	4263.1
10°	2577.3	2611.6	2714.4	2914.5	3303.0	3720.2	4068.8	4303.1	4400.3	4457.4	4497.4
12.5°	2651.6	2628.7	2611.6	2640.2	2891.6	3428.8	4040.2	4491.7	4674.6	4737.4	4788.8
15°	2828.7	2805.9	2743.0	2663.0	2691.6	3120.2	3943.1	4668.8	4960.3	5063.2	5171.7
17.5°	2931.6	2908.7	2857.3	2771.6	2697.3	2863.0	3760.2	4828.9	5411.7	5537.5	5691.8
20°	2988.7	2965.9	2914.5	2828.7	2743.0	2765.9	3525.9	5028.9	5926.1	6126.1	6354.7
22.5°	3000.2	2971.6	2914.5	2828.7	2777.3	2760.2	3303.0	5148.9	6480.4	6789.0	7051.8
25°	2994.5	2943.0	2868.7	2805.9	2777.3	2771.6	3148.8	5217.4	7080.4	7571.9	7869.0
27.5°	2954.5	2891.6	2817.3	2771.6	2760.2	2794.4	3080.2	5297.5	7783.3	8411.9	8886.2
30°	2908.7	2817.3	2725.9	2708.7	2737.3	2845.9	3137.3	5326.0	8520.5	9326.3	9812.0
32.5°	2788.7	2720.2	2628.7	2623.0	2691.6	2885.9	3268.8	5286.0	9172.0	10240.6	10852.1
35°	2617.3	2577.3	2525.9	2543.0	2651.6	2920.2	3360.2	5160.3	9766.3	11092.1	11806.4
37.5°	2314.4	2343.0	2371.6	2411.6	2548.7	2914.5	3400.2	4960.3	10257.7	11772.1	12686.5
40°	1977.3	2074.4	2165.8	2268.7	2451.6	2868.7	3411.6	4714.6	10543.5	12286.4	13469.4
42.5°	1765.8	1857.3	1971.5	2120.1	2320.1	2765.9	3400.2	4440.3	10634.9	12640.7	13966.5
45°	1571.5	1680.1	1823.0	1977.3	2205.8	2617.3	3297.3	4143.1	10680.6	12806.5	14178.0
47.5°	1468.7	1531.5	1663.0	1817.2	2057.3	2434.4	3097.3	3925.9	10612.0	12840.7	14435.1
50°	1348.6	1434.4	1520.1	1668.7	1903.0	2205.8	2857.3	3800.2	10726.3	13177.9	14840.9
52.5°	1257.2	1302.9	1394.4	1531.5	1703.0	1994.4	2628.7	3697.4	11040.6	13520.8	15263.7
55°	1188.6	1240.1	1297.2	1411.5	1542.9	1783.0	2394.4	3543.1	11406.4	13886.5	15686.6
57.5°	1080.1	1114.4	1194.4	1314.4	1400.1	1577.2	2120.1	3360.2	11377.8	13600.8	14955.2
60°	*982.9*	*1017.2*	*1102.9*	*1222.9*	*1274.4*	*1394.4*	*1851.5*	*3125.9*	*10829.2*	*12669.3*	*13606.5*
62.5°	874.3	914.3	1017.2	1102.9	1148.6	1240.1	1571.5	2697.3	9686.3	11269.2	12029.3
65°	828.6	851.5	920.1	1022.9	1017.2	1102.9	1325.8	2120.1	7794.7	8611.9	9303.4
67.5°	880.1	914.3	902.9	931.5	914.3	960.1	1188.6	1703.0	6126.1	6486.1	6886.1
70°	868.6	948.6	988.6	931.5	800.0	851.5	1028.6	1360.1	4383.1	4348.8	4331.7
72.5°	760.0	840.0	954.3	1011.5	782.9	708.6	891.5	1177.2	2811.6	2800.2	2531.6
75°	645.8	702.9	840.0	914.3	674.3	571.5	765.8	1000.1	1680.1	1703.0	1520.1
77.5°	594.3	565.7	702.9	805.8	548.6	440.0	617.2	754.3	925.8	937.2	868.6
80°	428.6	411.5	525.7	588.6	417.2	314.3	348.6	468.6	497.2	445.7	462.9
82.5°	274.3	280.0	314.3	377.2	257.2	171.4	240.0	314.3	268.6	217.2	257.2
85°	177.2	200.0	165.7	194.3	80.0	80.0	102.9	137.2	91.4	62.9	68.6
87.5°	0.0	0.0	11.4	22.9	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

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

Scaled Data Report

REPORT NUMBER: P1501507
CATALOG NUMBER: GSS-SB4C-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4034.5	4034.5	*4034.5*	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5	4034.5
2.5°	4051.7	4045.9	*4045.9*	4057.4	4086.0	4097.4	4114.5	4108.8	4126.0	4114.5
5°	4131.7	4137.4	*4154.5*	4160.2	4177.4	4200.2	4206.0	4200.2	4211.7	4211.7
7.5°	4291.7	4314.5	*4303.1*	4331.7	4308.8	4280.2	4234.5	4200.2	4171.7	4183.1
10°	4560.3	4548.8	*4543.1*	4491.7	4388.8	4240.2	4120.2	3988.8	3965.9	3943.1
12.5°	4857.4	4846.0	*4846.0*	4668.8	4377.4	4068.8	3794.5	3588.8	3520.2	3514.5
15°	5274.6	5200.3	*5131.7*	4760.3	4177.4	3651.6	3331.6	3171.6	3131.6	3131.6
17.5°	5794.6	5600.3	*5486.0*	4691.7	3851.7	3377.3	3188.8	3148.8	3137.3	3165.9
20°	6440.4	5948.9	*5783.2*	4537.4	3731.6	3411.6	3320.2	3325.9	3331.6	3371.6
22.5°	7149.0	6268.9	*5994.6*	4537.4	3851.7	3628.8	3583.1	3645.9	3663.1	3697.4
25°	7937.6	6554.7	*6183.2*	4777.4	4206.0	4040.2	3983.1	4045.9	4091.7	4148.8
27.5°	8823.4	6851.8	*6508.9*	5211.7	4663.1	4560.3	4497.4	4526.0	4588.8	4657.4
30°	9617.7	7349.0	*7006.1*	5874.6	5286.0	5160.3	5051.7	5097.4	5166.0	5211.7
32.5°	10320.6	7954.7	*7663.3*	6571.8	6000.3	5783.2	5663.2	5651.8	5788.9	5754.6
35°	10966.4	8669.1	*8389.1*	7366.1	6726.1	6457.5	6297.5	6503.2	6411.8	6446.1
37.5°	11475.0	9412.0	*9189.1*	8126.2	7480.4	7114.7	7017.6	7269.0	7411.9	7451.9
40°	11892.1	10057.7	*9823.4*	8880.5	8171.9	7903.3	8057.6	8474.8	8457.6	8440.5
42.5°	12212.1	10612.0	*10354.9*	9452.0	8834.8	8886.2	9006.2	9286.3	9354.8	9257.7
45°	12355.0	10960.6	*10754.9*	9903.4	9589.1	9886.3	9937.7	10057.7	10012.0	9949.1
47.5°	12520.7	11269.2	*11052.1*	10314.9	10406.3	10697.8	10594.9	10497.8	10332.0	10234.9
50°	12800.7	11635.0	*11452.1*	10914.9	11246.4	11149.2	10749.2	10532.0	10194.9	10080.6
52.5°	13332.2	12326.4	*12189.3*	11863.5	11640.7	11080.6	10594.9	10206.3	9829.1	9674.8
55°	13806.5	13263.6	*13183.6*	12749.3	11520.7	10720.6	10069.2	9469.1	8823.4	8691.9
57.5°	14080.8	14818.0	*14909.4*	13126.5	10972.1	9903.4	8943.4	7983.3	7371.9	7263.3
60°	*13263.6*	*16498.1*	*16543.8*	*13052.2*	*9983.4*	*8429.1*	*6966.1*	*6286.1*	*5628.9*	*5440.3*
62.5°	12137.8	16149.5	*16109.5*	12606.4	7949.0	6148.9	5291.7	4971.7	4463.1	4308.8
65°	10434.9	13452.2	*13497.9*	10892.1	5286.0	4446.0	4446.0	4040.2	3474.5	3365.9
67.5°	8503.4	10372.0	*10269.2*	7063.3	3245.9	3560.2	3731.6	3148.8	2354.4	2223.0
70°	5526.0	7920.5	*7777.6*	4074.5	2040.1	2965.9	2937.3	2365.9	1685.8	1594.4
72.5°	2377.3	4577.4	*4868.9*	2080.1	1537.2	2388.7	2343.0	1657.2	1125.8	1085.8
75°	1434.4	2303.0	*2508.7*	1325.8	1120.1	1800.1	1623.0	1051.5	765.8	737.2
77.5°	908.6	1262.9	*1251.5*	994.3	840.0	1217.2	1091.5	725.8	520.0	497.2
80°	525.7	622.9	*645.8*	622.9	565.7	868.6	697.2	525.7	405.7	377.2
82.5°	337.2	388.6	*394.3*	302.9	314.3	560.0	377.2	308.6	234.3	211.4
85°	148.6	165.7	*160.0*	102.9	102.9	228.6	131.4	125.7	91.4	91.4
87.5°	5.7	11.4	*5.7*	5.7	5.7	22.9	11.4	17.1	17.1	17.1
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

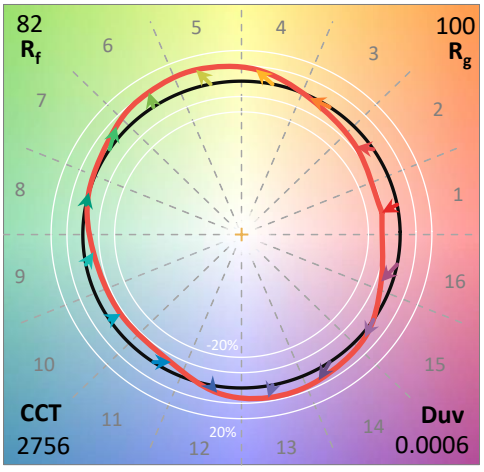
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

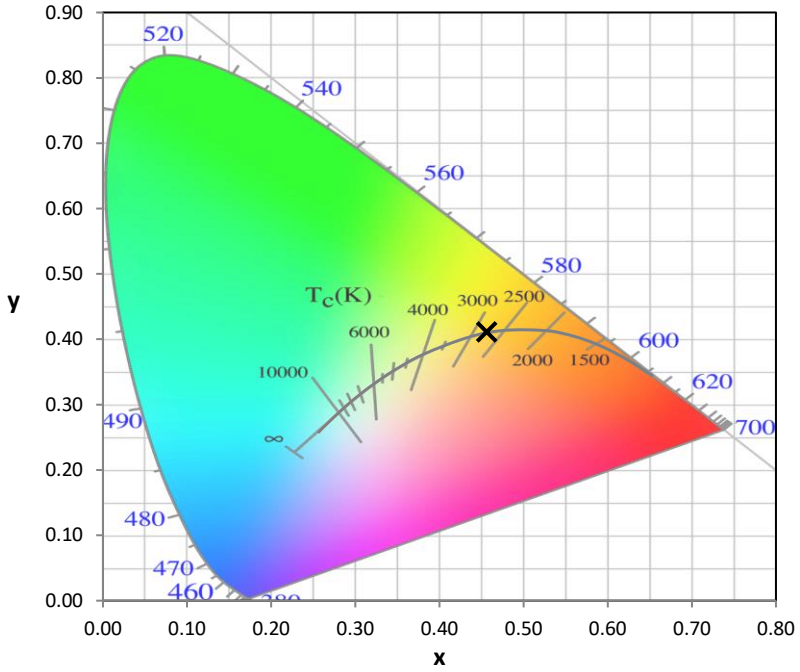
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

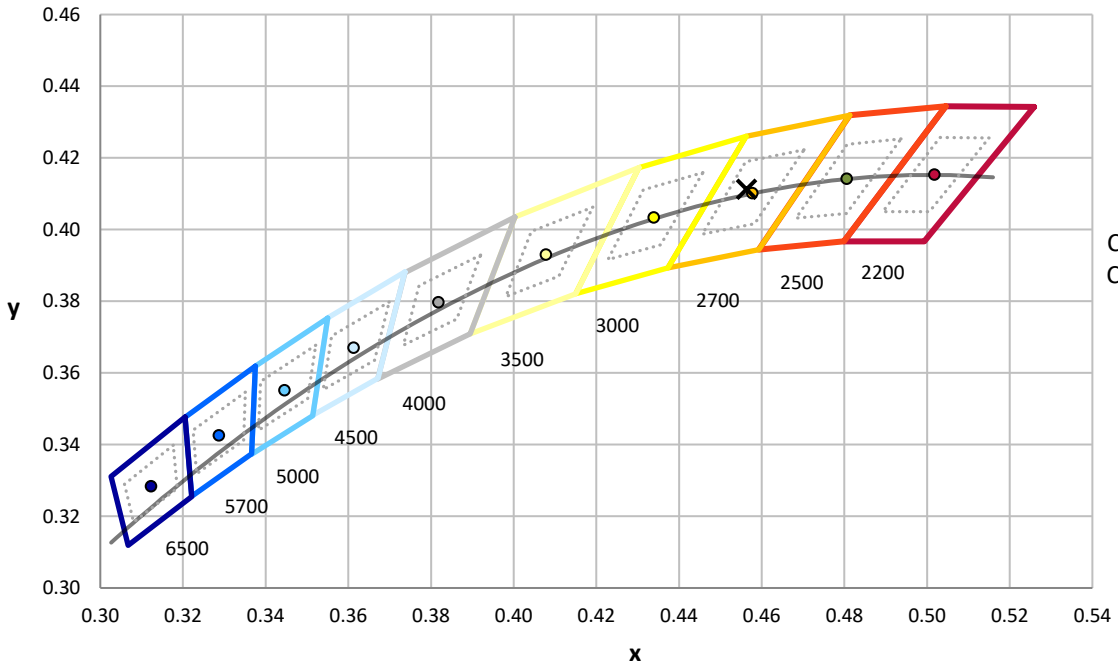
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

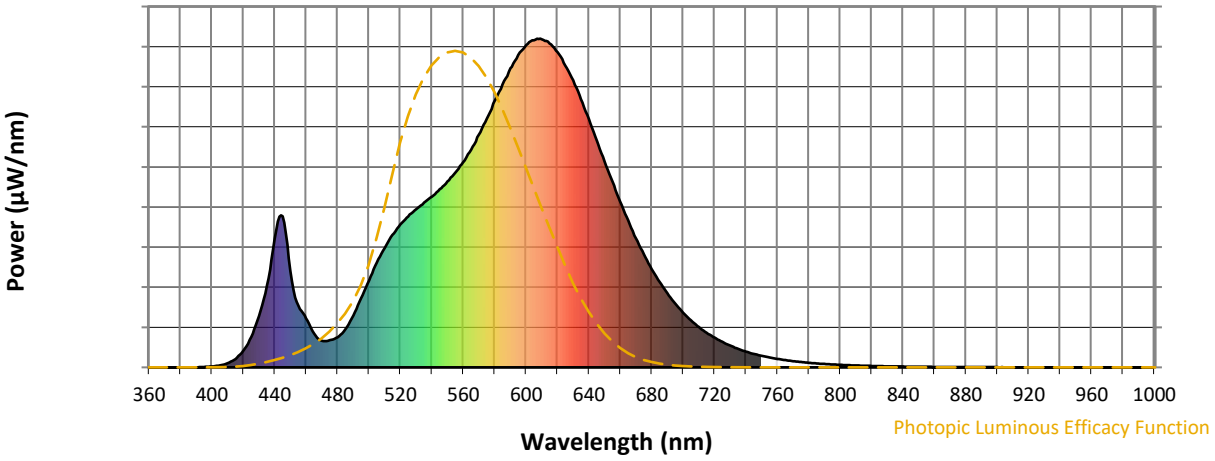


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

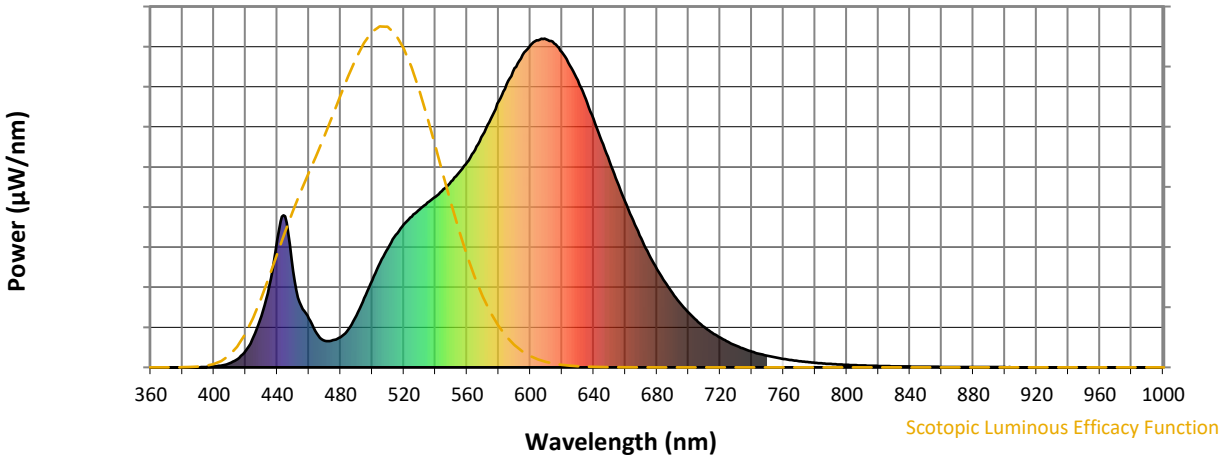


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

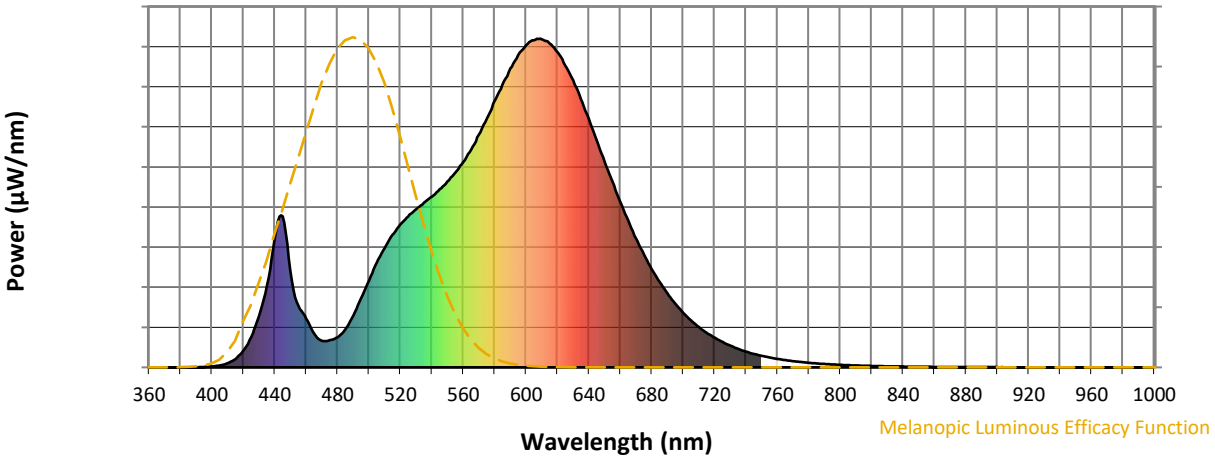


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

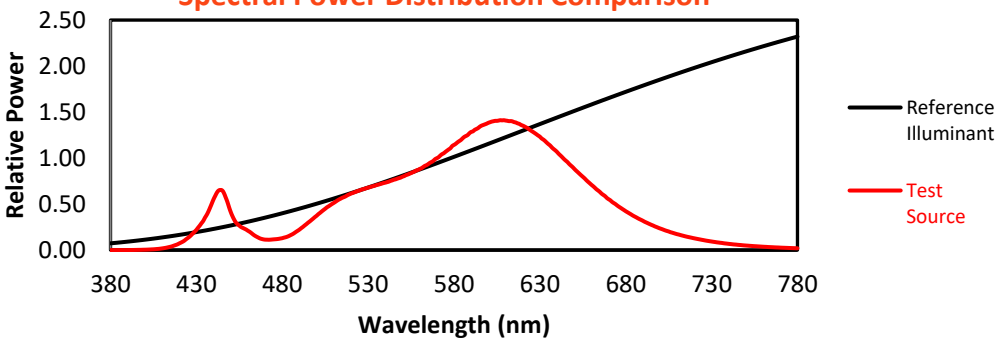
REPORT NUMBER: SP1-2407-184-8

TM-30-18

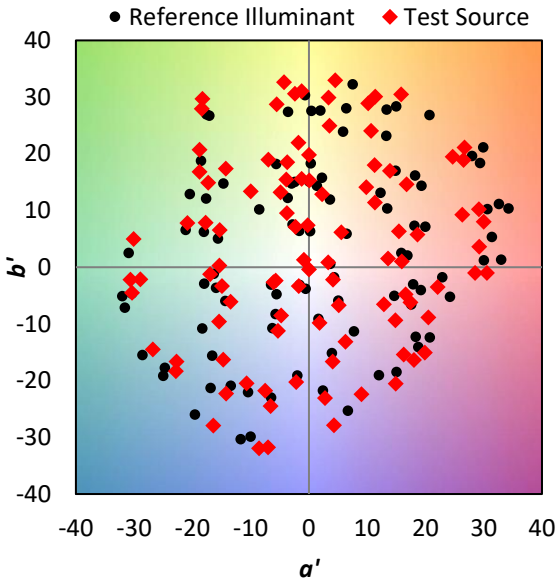
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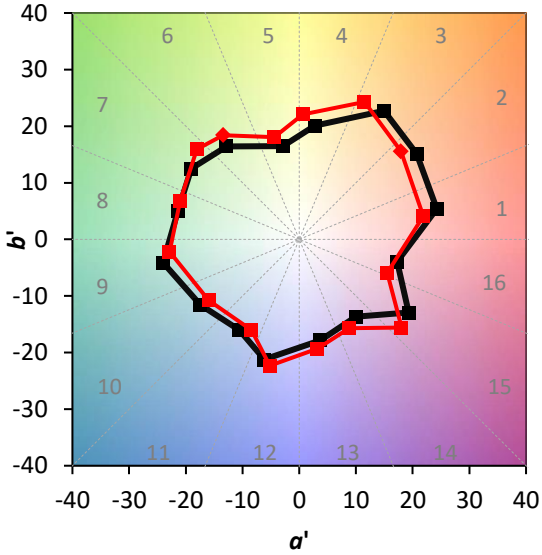
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

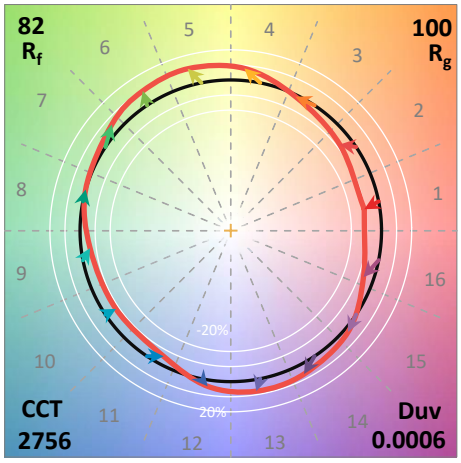
Spectral Power Distribution Comparison

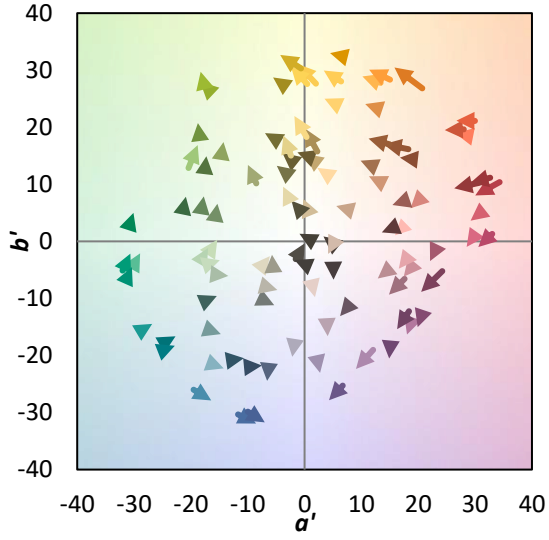


Color Vector Graphics







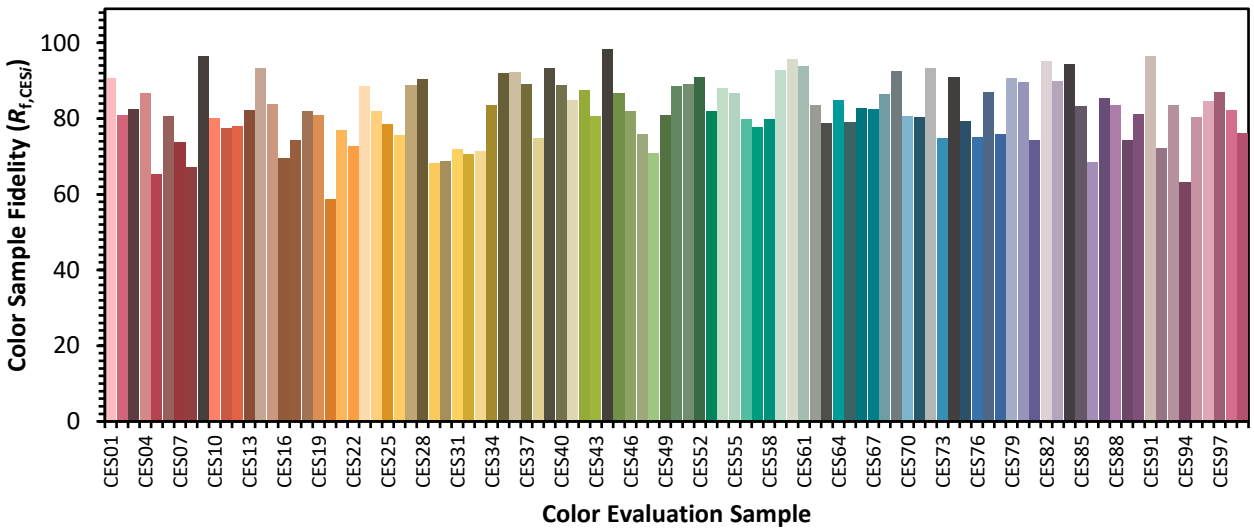


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Individual Sample Fidelity Index ($R_{f,i}$)

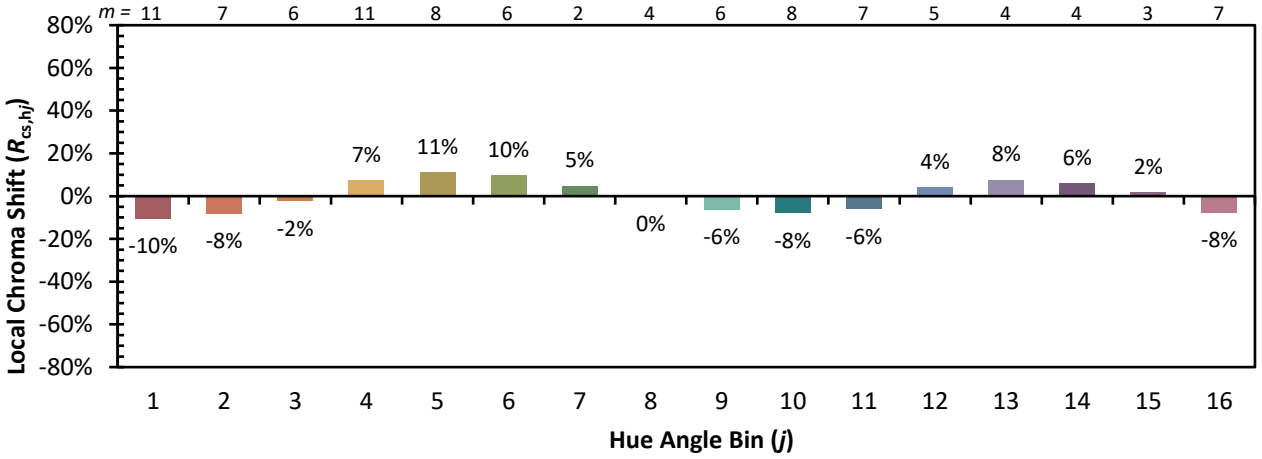
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

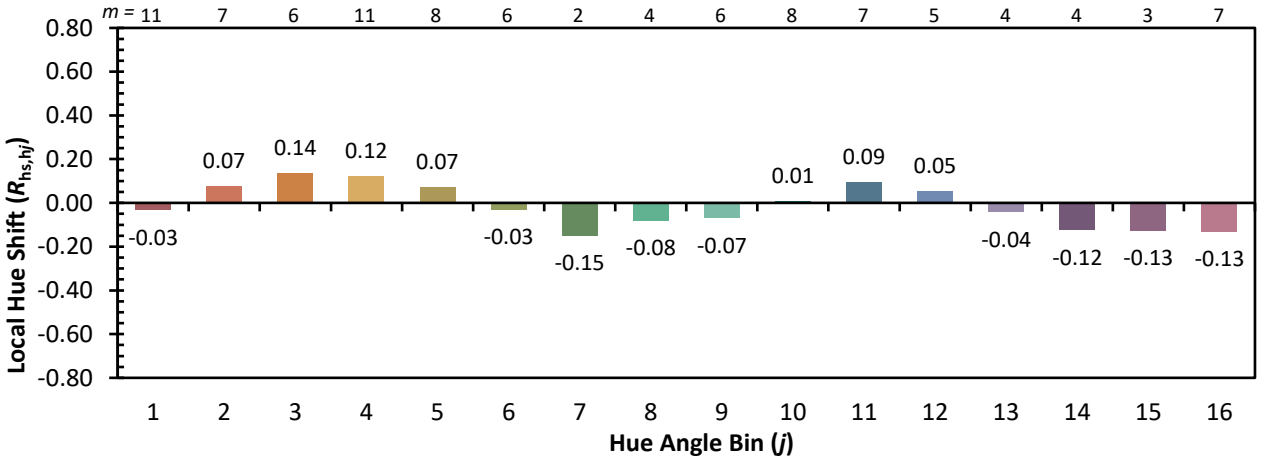


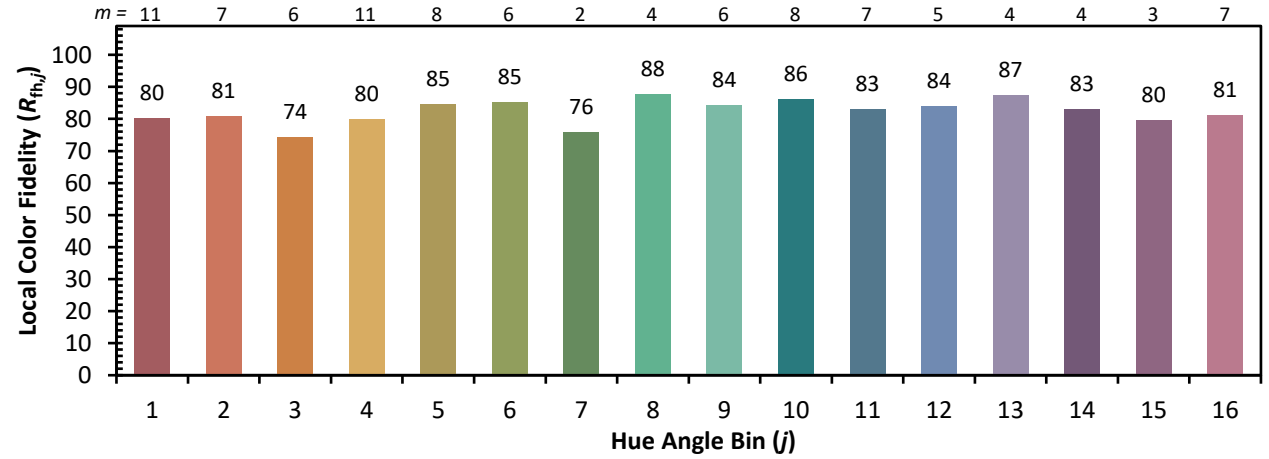
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Color Rendition by Hue-Angle Bin



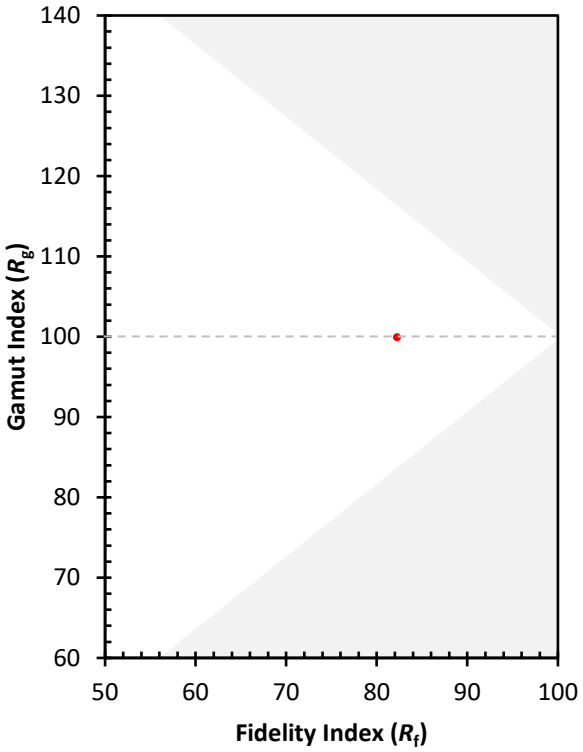


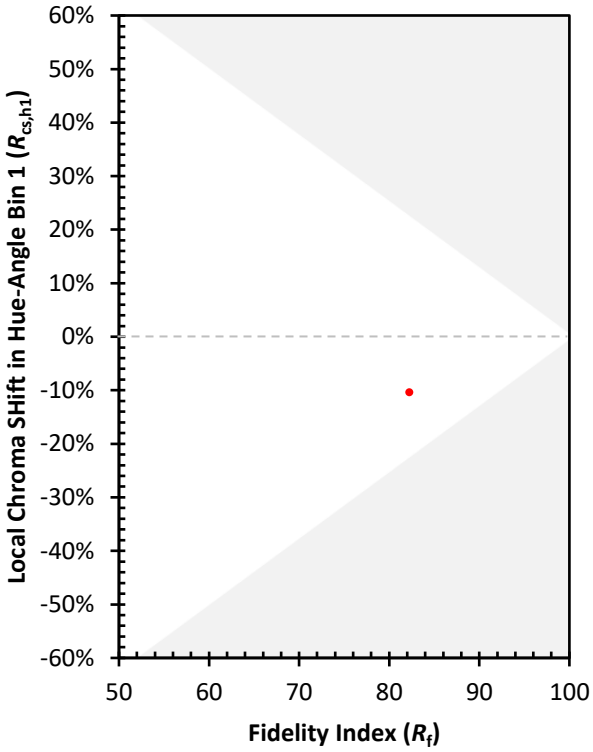


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Measure Comparisons





(END OF REPORT)