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: P1501890

Luminaire Tested: GSS-SB4B-827-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501890
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-827-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15476.4 lumens
Efficiency:	N/A
Efficacy:	104.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

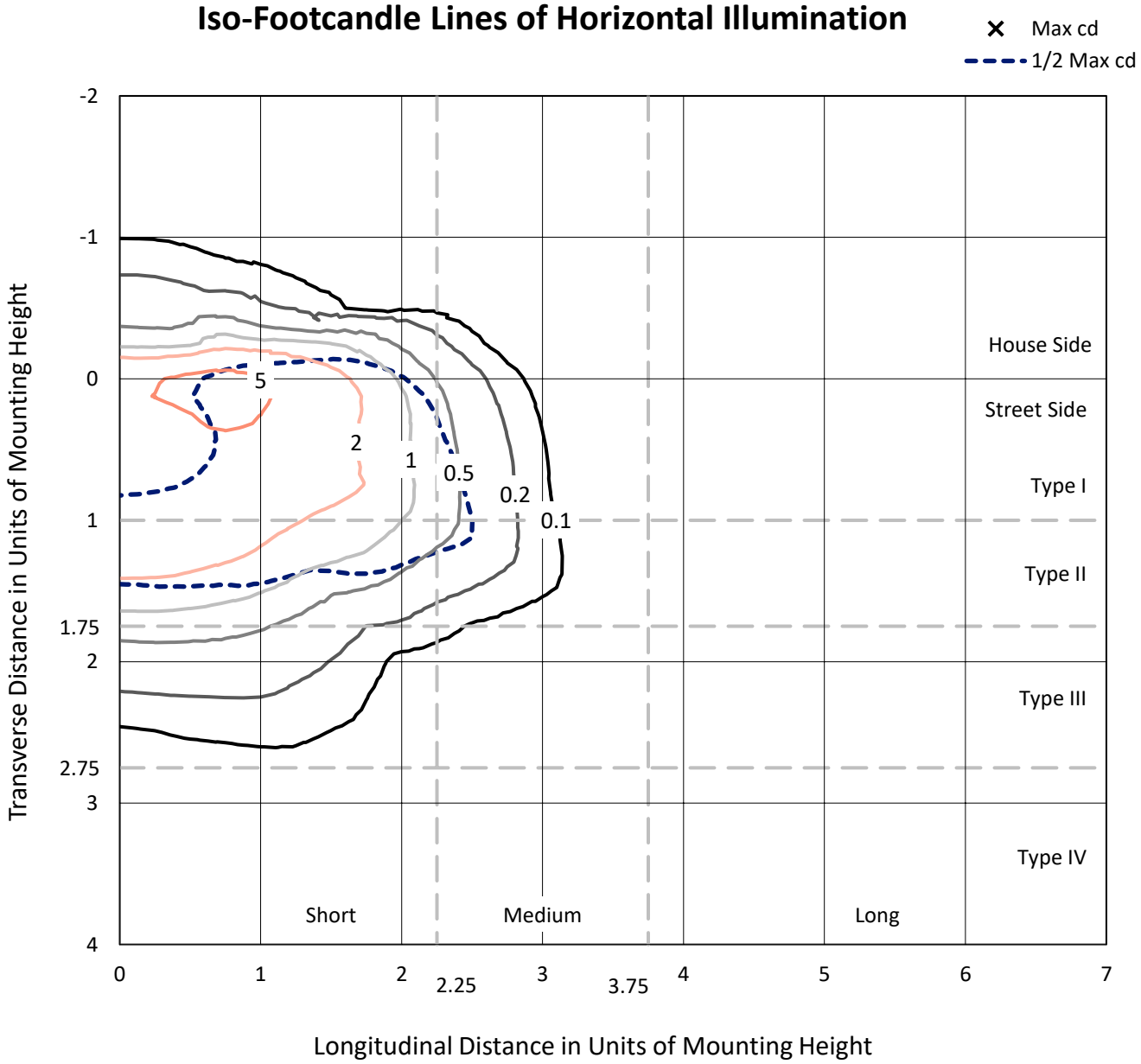
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



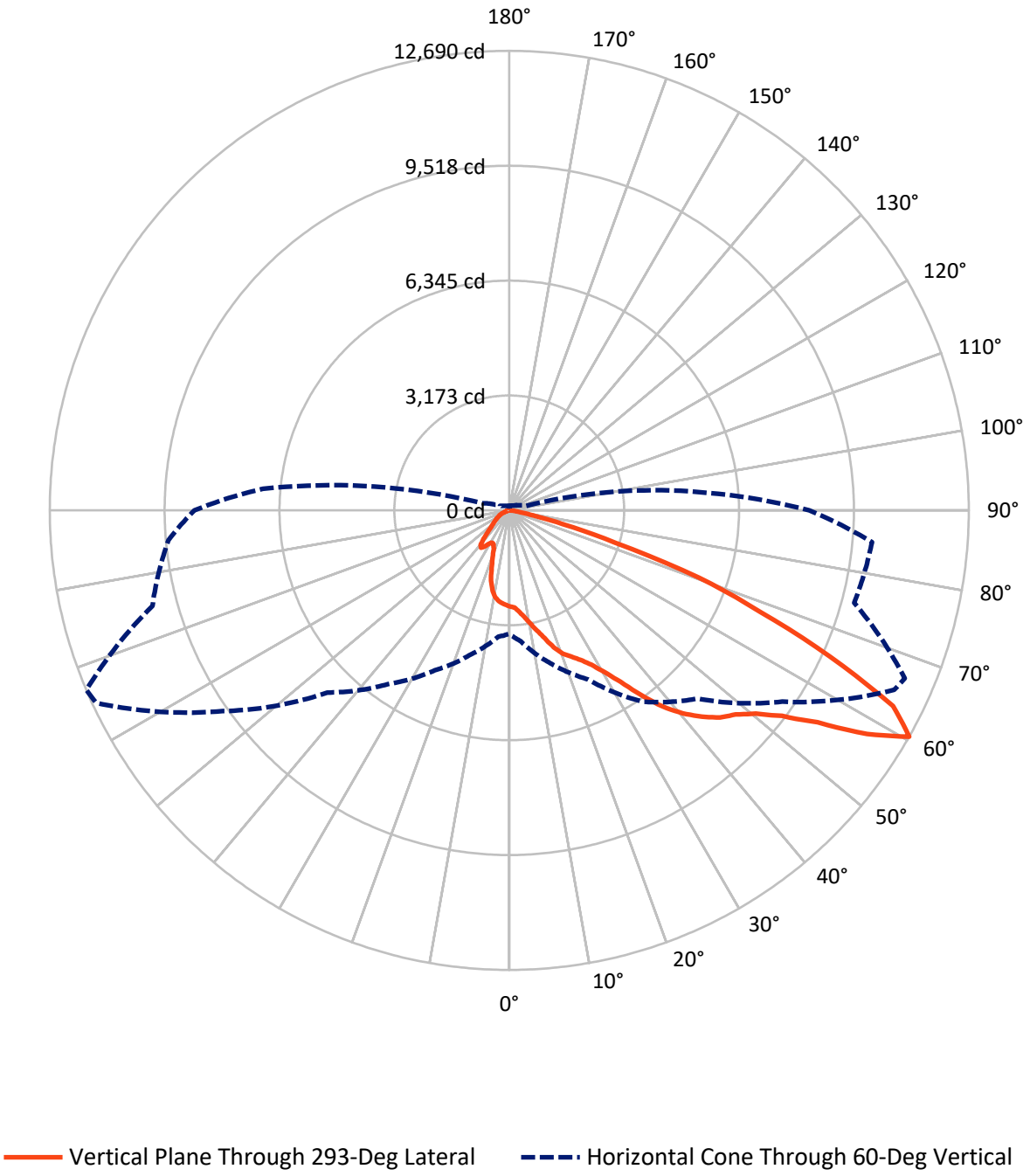
Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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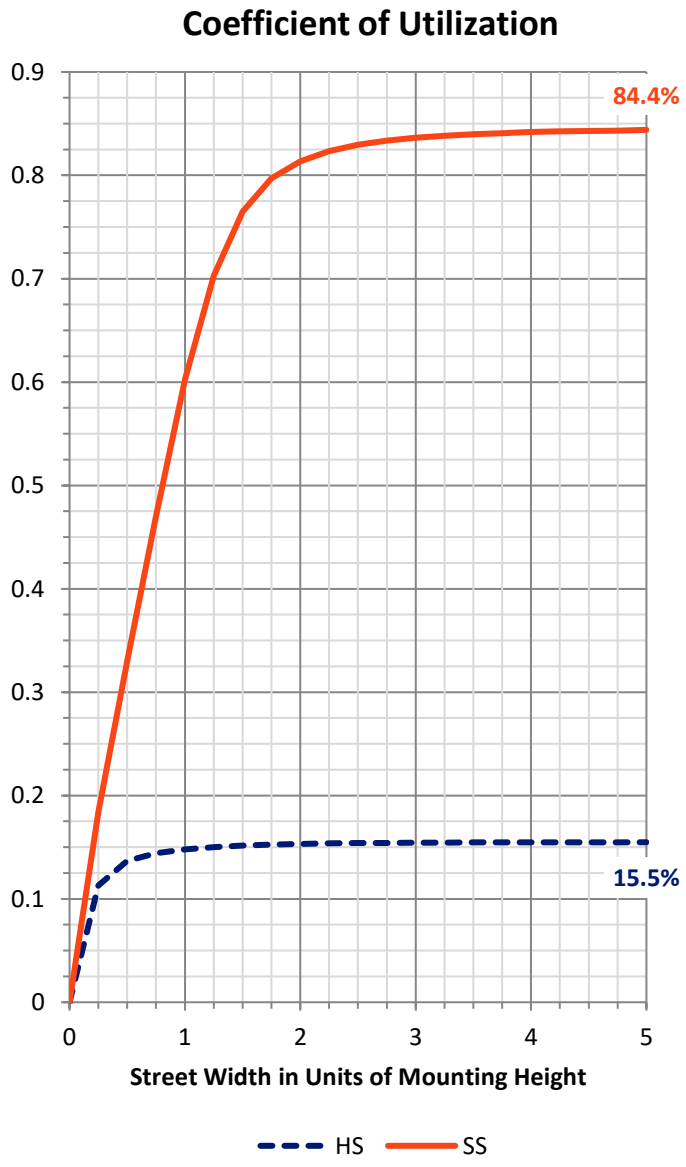
REPORT NUMBER: P1501890
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2414.7	0.0	2414.7
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	13061.7	0.0	13061.7
	% Fixture	84.4	0.0	84.4
Total	Lumens	15476.4	0.0	15476.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.6
10°-20°	604.9	3.9
20°-30°	1129.2	7.3
30°-40°	2239.4	14.5
40°-50°	3570.4	23.1
50°-60°	4265.7	27.6
60°-70°	2796.4	18.1
70°-80°	585.9	3.8
80°-90°	44.3	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°	15476.4	100.0
0°-180°	15476.4	100.0



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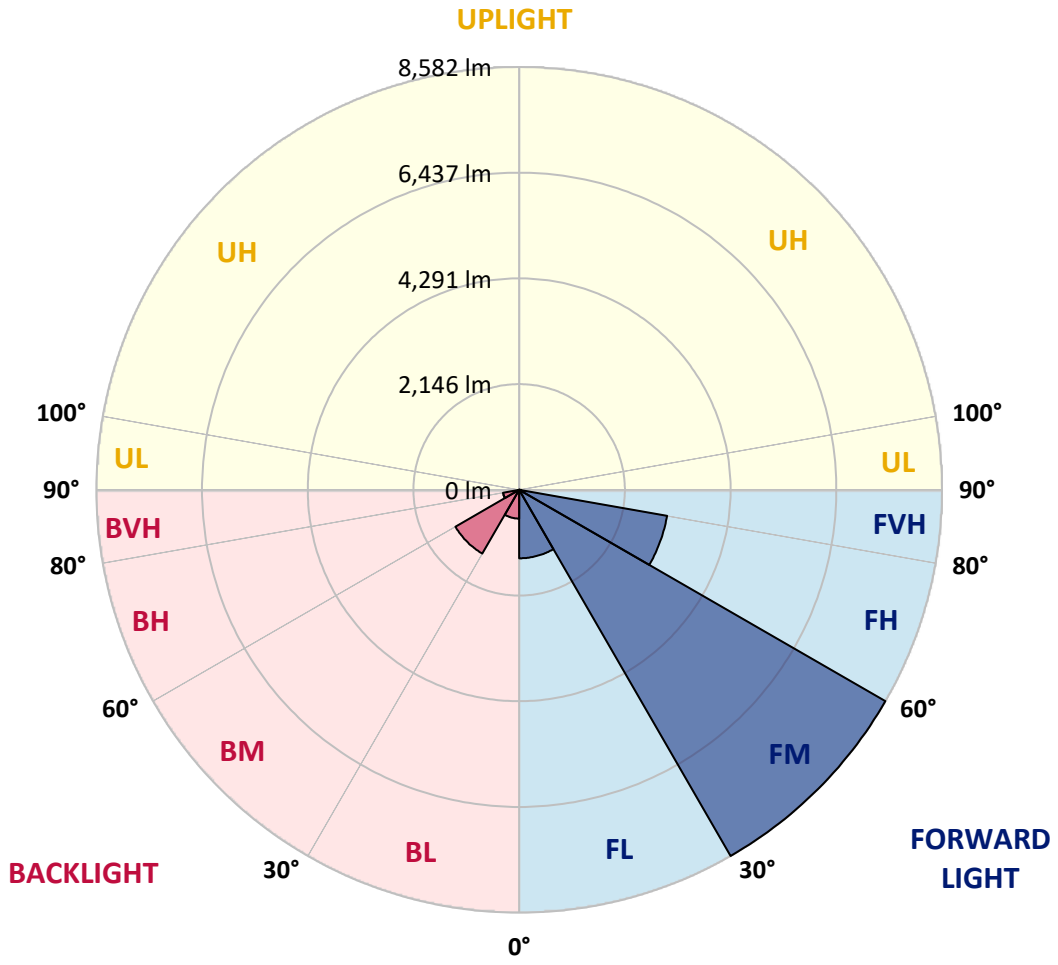
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1390.1	9.0			
FM	(30°-60°)	8582.2	55.5			
FH	(60°-80°)	3048.8	19.7			G2/5000
FVH	(80°-90°)	40.6	0.3			G1/100
BL	(0°-30°)	584.2	3.8	B2/1000		
BM	(30°-60°)	1493.2	9.6	B2/2500		
BH	(60°-80°)	333.6	2.2	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2786.9	2778.2	2765.2	2769.5	2765.2	2747.8	2721.8	2700.2	2717.5	2691.5	2674.2
5°	2869.2	2869.2	2860.5	2860.5	2864.9	2856.2	2838.9	2808.5	2812.9	2791.2	2734.8
7.5°	2869.2	2856.2	2877.9	2899.5	2938.5	2960.2	2968.9	2951.5	2960.2	2916.9	2843.2
10°	2700.2	2691.5	2747.8	2830.2	2942.9	3042.6	3107.6	3111.9	3124.9	3081.6	2994.9
12.5°	2340.4	2323.1	2435.8	2591.8	2821.5	3051.2	3233.3	3302.6	3333.0	3315.6	3194.3
15°	2006.7	2028.4	2106.4	2275.4	2583.1	2934.2	3302.6	3532.3	3575.7	3597.3	3454.3
17.5°	1972.0	1976.4	2002.4	2084.7	2318.8	2743.5	3311.3	3770.7	3831.4	3926.7	3731.7
20°	2067.4	2058.7	2084.7	2110.7	2223.4	2574.5	3228.9	4000.4	4117.4	4321.1	4108.8
22.5°	2245.1	2245.1	2258.1	2275.4	2331.8	2561.5	3194.3	4212.8	4412.2	4828.2	4581.2
25°	2544.1	2509.5	2518.1	2496.5	2544.1	2717.5	3272.3	4381.8	4654.9	5391.7	5144.6
27.5°	3007.9	3020.9	2942.9	2825.9	2851.9	2999.2	3463.0	4572.5	4906.2	5976.8	5716.7
30°	3649.3	3627.7	3580.0	3350.3	3246.3	3376.3	3814.0	4884.6	5244.3	6717.9	6479.5
32.5°	4152.1	4212.8	4130.4	3970.1	3809.7	3848.7	4308.1	5387.3	5656.1	7398.4	7268.4
35°	4758.9	4758.9	4776.2	4550.8	4442.5	4433.8	4927.9	5933.4	6202.2	8013.8	8104.8
37.5°	5578.0	5521.7	5426.3	5175.0	5092.6	5201.0	5508.7	6496.9	6787.3	8512.2	8755.0
40°	6267.2	6306.2	6293.2	5929.1	5768.7	5885.8	6158.8	6978.0	7203.3	8833.0	9279.4
42.5°	6943.3	6965.0	6908.6	6735.3	6501.2	6509.9	6735.3	7342.0	7571.7	9140.7	9773.5
45°	7450.4	7446.1	7407.0	7363.7	7225.0	7082.0	7121.0	7745.1	7944.5	9240.4	10042.2
47.5°	7610.7	7645.4	7680.1	7801.5	7896.8	7671.4	7472.1	7961.8	8143.8	9223.0	10141.9
50°	7463.4	7537.1	7706.1	7888.1	8213.2	8195.9	7766.8	8195.9	8373.6	9318.4	10258.9
52.5°	7134.0	7207.7	7433.0	7762.4	8252.2	8494.9	8312.9	8590.3	8798.3	9561.1	10501.6
55°	6366.9	6397.2	6860.9	7294.4	8057.2	8364.9	8898.0	9257.7	9431.1	9855.8	10822.3
57.5°	5183.6	5257.3	5712.4	6418.9	7511.1	8022.5	9231.7	10397.6	10393.3	10137.6	10891.7
60°	*3411.0*	*3627.7*	*4368.8*	*5149.0*	*6453.5*	*7350.7*	*9210.0*	*11732.5*	*11866.9*	*9860.2*	*10055.2*
62.5°	2604.8	2695.8	3116.2	3766.4	4776.2	6093.8	9067.0	12131.3	12235.3	9114.7	8802.6
65°	1959.0	2071.7	2474.8	3055.6	3372.0	4130.4	8130.8	10545.0	10688.0	8135.2	6843.6
67.5°	1200.6	1291.6	1829.0	2509.5	2552.8	2565.8	5487.0	7987.8	8039.8	6561.9	4607.2
70°	801.8	892.8	1265.6	1928.7	2032.7	1477.9	3012.2	6046.1	6041.8	4490.2	2799.9
72.5°	463.8	507.1	801.8	1421.6	1599.3	940.5	1503.9	3844.4	3675.4	2110.7	1308.9
75°	264.4	294.7	442.1	914.5	1122.5	598.1	593.8	2058.7	1820.3	1087.9	715.1
77.5°	160.4	173.4	242.7	598.1	676.1	403.1	329.4	957.8	923.2	637.1	377.1
80°	78.0	91.0	147.4	351.1	433.4	216.7	199.4	377.1	403.1	351.1	199.4
82.5°	26.0	34.7	82.3	134.4	281.7	86.7	82.3	208.0	221.0	208.0	95.4
85°	13.0	17.3	39.0	43.3	108.4	43.3	30.3	91.0	112.7	69.3	39.0
87.5°	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.7	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2661.2	2652.5	2635.2	2604.8	2600.5	2578.8	2544.1	2522.5	2505.1	2518.1	2522.5
5°	2708.8	2687.2	2635.2	2552.8	2466.1	2379.4	2297.1	2201.7	2136.7	2128.1	2110.7
7.5°	2795.5	2752.2	2639.5	2479.1	2258.1	2050.0	1807.3	1573.3	1456.3	1438.9	1399.9
10°	2934.2	2860.5	2674.2	2349.1	1924.4	1490.9	1122.5	871.2	728.1	702.1	710.8
12.5°	3098.9	2994.9	2678.5	2128.1	1464.9	923.2	637.1	541.8	511.4	498.4	498.4
15°	3311.3	3159.6	2674.2	1842.0	988.2	593.8	511.4	472.4	459.4	450.8	450.8
17.5°	3580.0	3380.6	2643.8	1412.9	667.5	515.8	468.1	437.7	420.4	416.1	416.1
20°	3896.4	3627.7	2574.5	1053.2	559.1	481.1	442.1	403.1	390.1	381.4	381.4
22.5°	4299.5	3926.7	2440.1	819.2	528.8	459.4	416.1	372.7	359.7	351.1	351.1
25°	4767.6	4308.1	2262.4	736.8	524.4	442.1	390.1	346.7	333.7	329.4	325.1
27.5°	5322.3	4715.5	2097.7	741.1	533.1	429.1	364.1	325.1	312.1	299.1	303.4
30°	5976.8	5136.0	1963.4	793.1	541.8	416.1	346.7	312.1	299.1	281.7	281.7
32.5°	6622.6	5630.0	1950.4	888.5	572.1	407.4	329.4	294.7	281.7	268.7	268.7
35°	7285.7	6080.8	2024.0	1014.2	632.8	394.4	307.7	277.4	264.4	255.7	251.4
37.5°	7918.5	6440.5	2093.4	1092.2	598.1	338.1	281.7	255.7	242.7	225.4	225.4
40°	8338.9	6635.6	2106.4	1031.5	494.1	303.4	255.7	229.7	212.4	203.7	199.4
42.5°	8646.6	6761.3	1959.0	836.5	429.1	277.4	234.0	208.0	195.0	186.4	186.4
45°	8772.3	6717.9	1707.7	637.1	394.4	255.7	212.4	190.7	182.0	173.4	173.4
47.5°	8755.0	6518.5	1451.9	511.4	359.7	234.0	199.4	182.0	173.4	164.7	160.4
50°	8724.6	6332.2	1191.9	455.1	320.7	221.0	186.4	173.4	160.4	151.7	147.4
52.5°	8924.0	6271.5	988.2	416.1	299.1	212.4	182.0	164.7	151.7	143.0	143.0
55°	9123.4	6297.5	775.8	390.1	277.4	208.0	177.7	160.4	147.4	134.4	134.4
57.5°	9110.4	6184.8	589.4	364.1	260.0	203.7	173.4	156.0	134.4	125.7	125.7
60°	*8282.5*	*5517.4*	*459.4*	*333.7*	*238.4*	*190.7*	*160.4*	*147.4*	*125.7*	*112.7*	*112.7*
62.5°	7004.0	4338.5	377.1	294.7	212.4	173.4	147.4	134.4	112.7	91.0	91.0
65°	5175.0	3129.2	303.4	255.7	195.0	151.7	134.4	117.0	91.0	73.7	69.3
67.5°	3502.0	1924.4	242.7	212.4	173.4	130.0	112.7	99.7	82.3	60.7	56.3
70°	2076.1	1022.9	177.7	147.4	130.0	95.4	95.4	86.7	69.3	52.0	47.7
72.5°	988.2	355.4	130.0	108.4	99.7	69.3	73.7	73.7	56.3	39.0	34.7
75°	502.8	173.4	86.7	78.0	65.0	52.0	60.7	56.3	39.0	26.0	26.0
77.5°	286.1	121.4	60.7	52.0	43.3	34.7	39.0	34.7	21.7	13.0	13.0
80°	160.4	86.7	39.0	34.7	26.0	21.7	21.7	17.3	13.0	4.3	4.3
82.5°	60.7	52.0	26.0	17.3	13.0	13.0	8.7	8.7	4.3	0.0	0.0
85°	26.0	13.0	13.0	8.7	8.7	4.3	4.3	4.3	0.0	0.0	0.0
87.5°	4.3	4.3	4.3	4.3	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°	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2487.8	2496.5	2505.1	2539.8	2548.5	2574.5	2596.1	2622.2	2626.5	2661.2	2661.2
5°	2145.4	2141.1	2214.7	2323.1	2392.4	2487.8	2561.5	2639.5	2682.8	2739.2	2765.2
7.5°	1421.6	1530.0	1694.6	1885.4	2132.4	2362.1	2535.5	2687.2	2791.2	2856.2	2882.2
10°	706.5	767.1	940.5	1252.6	1673.0	2141.1	2509.5	2791.2	2960.2	3033.9	3081.6
12.5°	498.4	511.4	541.8	710.8	1113.9	1777.0	2427.1	2903.9	3137.9	3276.6	3337.3
15°	446.4	455.1	468.1	515.8	689.1	1326.2	2279.8	3029.6	3415.3	3575.7	3653.7
17.5°	411.7	416.1	429.1	468.1	541.8	901.5	2041.4	3163.9	3749.0	3944.1	4091.4
20°	381.4	381.4	394.4	442.1	502.8	693.5	1699.0	3315.6	4173.8	4455.5	4602.9
22.5°	346.7	355.4	364.1	416.1	489.8	632.8	1378.3	3432.6	4646.2	4988.6	5162.0
25°	320.7	329.4	338.1	390.1	476.8	632.8	1191.9	3506.3	5175.0	5582.4	5820.7
27.5°	299.1	307.7	320.7	372.7	463.8	658.8	1118.2	3528.0	5751.4	6280.2	6600.9
30°	281.7	290.4	303.4	359.7	472.4	689.1	1144.2	3497.7	6336.5	6999.6	7381.0
32.5°	264.4	273.1	286.1	346.7	472.4	728.1	1230.9	3437.0	6904.3	7719.1	8187.2
35°	251.4	255.7	260.0	312.1	429.1	723.8	1339.2	3376.3	7476.4	8429.9	8976.0
37.5°	225.4	229.7	238.4	268.7	342.4	658.8	1360.9	3302.6	7927.1	9028.0	9630.5
40°	199.4	208.0	216.7	247.0	286.1	533.1	1265.6	3146.6	8165.5	9487.4	10219.9
42.5°	182.0	186.4	195.0	225.4	264.4	424.7	1061.9	2873.5	8377.9	9799.5	10649.0
45°	169.0	173.4	182.0	203.7	247.0	368.4	836.5	2539.8	8395.2	9899.2	10857.0
47.5°	156.0	160.4	164.7	186.4	238.4	329.4	641.5	2236.4	8390.9	10029.2	11034.7
50°	147.4	151.7	160.4	177.7	225.4	294.7	528.8	1989.4	8572.9	10310.9	11394.5
52.5°	143.0	143.0	156.0	173.4	212.4	268.7	442.1	1768.3	8668.3	10588.3	11654.5
55°	134.4	138.7	147.4	164.7	199.4	255.7	377.1	1490.9	8711.6	10727.0	11702.2
57.5°	125.7	130.0	143.0	156.0	190.7	242.7	325.1	1113.9	8091.8	10003.2	10904.7
60°	*112.7*	*121.4*	*138.7*	*151.7*	*177.7*	*221.0*	*286.1*	*754.1*	*6826.3*	*8694.3*	*9448.4*
62.5°	91.0	108.4	125.7	134.4	160.4	186.4	242.7	502.8	5452.3	7194.7	8052.8
65°	69.3	91.0	104.0	117.0	134.4	156.0	203.7	342.4	3636.3	4841.2	5807.7
67.5°	60.7	78.0	86.7	95.4	112.7	134.4	164.7	238.4	2206.1	2908.2	3861.7
70°	47.7	65.0	73.7	69.3	86.7	104.0	117.0	160.4	1126.9	1577.6	2197.4
72.5°	34.7	52.0	56.3	56.3	52.0	73.7	86.7	112.7	489.8	767.1	996.9
75°	26.0	34.7	39.0	34.7	30.3	47.7	60.7	73.7	320.7	459.4	580.8
77.5°	13.0	13.0	21.7	21.7	13.0	26.0	30.3	43.3	182.0	268.7	333.7
80°	4.3	0.0	0.0	4.3	0.0	8.7	13.0	21.7	95.4	143.0	208.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	47.7	43.3	108.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	26.0
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: P1501890
CATALOG NUMBER: GSS-SB4B-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2652.5	*2652.5*	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5	2652.5
2.5°	2682.8	*2682.8*	2700.2	2726.2	2739.2	2747.8	2752.2	2760.8	2795.5	2786.9
5°	2795.5	*2804.2*	2817.2	2843.2	2873.5	2864.9	2864.9	2864.9	2886.5	2869.2
7.5°	2942.9	*2968.9*	2973.2	3003.6	2981.9	2938.5	2912.5	2873.5	2869.2	2869.2
10°	3181.3	*3172.6*	3172.6	3133.6	3055.6	2929.9	2817.2	2739.2	2695.8	2700.2
12.5°	3437.0	*3402.3*	3406.6	3263.6	3042.6	2765.2	2535.5	2366.4	2353.4	2340.4
15°	3753.4	*3662.3*	3645.0	3315.6	2847.5	2422.8	2197.4	2063.1	2019.7	2006.7
17.5°	4204.1	*3974.4*	3892.1	3224.6	2591.8	2210.4	2041.4	1980.7	1976.4	1972.0
20°	4680.9	*4225.8*	4069.8	3090.2	2505.1	2214.7	2089.1	2071.7	2063.1	2067.4
22.5°	5235.6	*4386.1*	4186.8	3111.9	2583.1	2357.8	2258.1	2245.1	2236.4	2245.1
25°	5807.7	*4572.5*	4325.5	3285.3	2817.2	2622.2	2505.1	2479.1	2505.1	2544.1
27.5°	6384.2	*4823.9*	4598.5	3627.7	3194.3	2981.9	2869.2	2964.6	3003.6	3007.9
30°	6895.6	*5175.0*	4966.9	4108.8	3623.3	3411.0	3432.6	3554.0	3601.7	3649.3
32.5°	7363.7	*5643.0*	5482.7	4654.9	4178.1	4052.4	4039.4	4130.4	4182.4	4152.1
35°	7836.1	*6254.2*	6098.1	5248.6	4858.6	4754.6	4646.2	4823.9	4806.6	4758.9
37.5°	8282.5	*6869.6*	6726.6	5885.8	5482.7	5300.7	5283.3	5443.7	5586.7	5578.0
40°	8603.3	*7368.0*	7194.7	6518.5	6137.1	5981.1	6072.1	6349.5	6314.8	6267.2
42.5°	8898.0	*7792.8*	7636.8	7073.3	6674.6	6743.9	6826.3	7012.6	6991.0	6943.3
45°	9036.7	*8156.8*	8022.5	7493.7	7298.7	7519.7	7515.4	7584.7	7467.7	7450.4
47.5°	9231.7	*8416.9*	8278.2	7870.8	8044.2	8135.2	7879.5	7805.8	7697.4	7610.7
50°	9591.5	*8820.0*	8681.3	8442.9	8590.3	8308.5	7996.5	7836.1	7615.1	7463.4
52.5°	10011.9	*9431.1*	9309.7	9214.4	8802.6	8221.9	7823.1	7532.7	7264.0	7134.0
55°	10540.6	*10332.6*	10245.9	9721.5	8611.9	7866.5	7398.4	6856.6	6488.2	6366.9
57.5°	10714.0	*11654.5*	11624.2	9803.8	8078.8	7220.7	6375.5	5643.0	5261.6	5183.6
60°	*10202.6*	*12690.4*	*12582.0*	*9665.1*	*7112.3*	*5859.8*	*4871.6*	*4121.8*	*3502.0*	*3411.0*
62.5°	9548.1	*11897.2*	11858.2	8967.3	5417.7	4199.8	3640.7	2938.5	2674.2	2604.8
65°	8178.5	*9734.5*	9751.8	7194.7	3428.3	3016.6	2990.6	2336.1	2011.0	1959.0
67.5°	6297.5	*7467.7*	7346.4	4524.8	1998.0	2414.1	2388.1	1707.7	1235.2	1200.6
70°	3679.7	*5560.7*	5365.7	2353.4	1321.9	2015.4	1837.7	1200.6	840.8	801.8
72.5°	1625.3	*3059.9*	3285.3	1035.9	931.8	1603.6	1326.2	736.8	472.4	463.8
75°	901.5	*1516.9*	1586.3	450.8	654.5	1139.9	801.8	411.7	268.7	264.4
77.5°	541.8	*671.8*	654.5	290.4	489.8	728.1	485.4	234.0	169.0	160.4
80°	303.4	*307.7*	260.0	212.4	290.4	407.4	273.1	147.4	78.0	78.0
82.5°	186.4	*169.0*	134.4	65.0	78.0	247.0	99.7	82.3	26.0	26.0
85°	78.0	*52.0*	34.7	13.0	30.3	65.0	34.7	39.0	13.0	13.0
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: SP1-2407-184-8

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

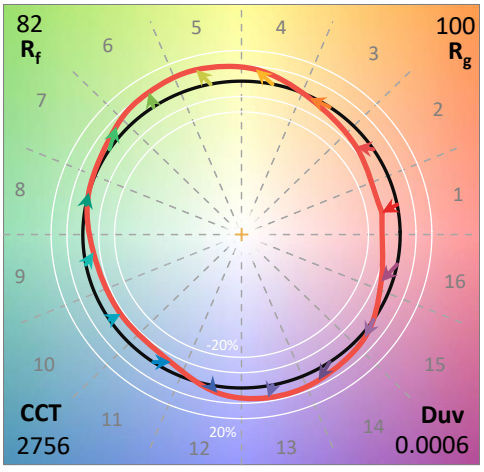
Test Information

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

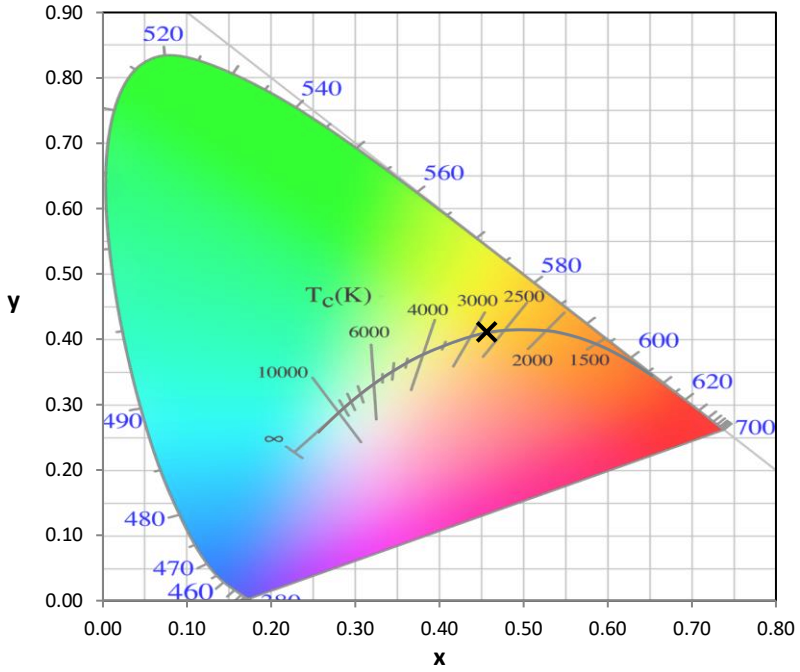
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

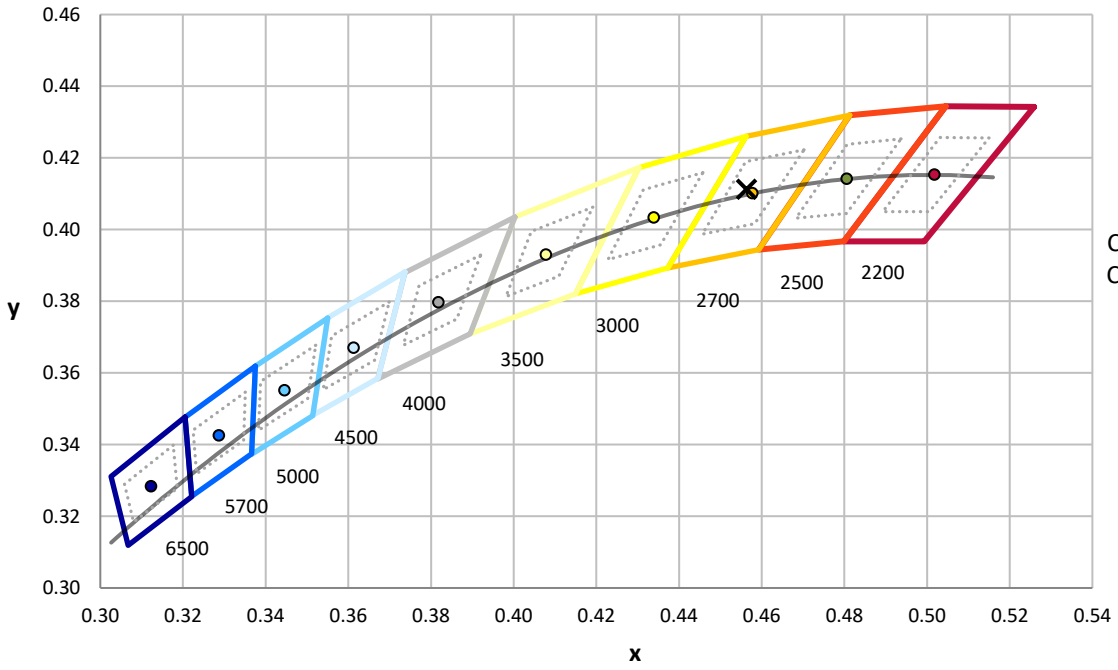
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

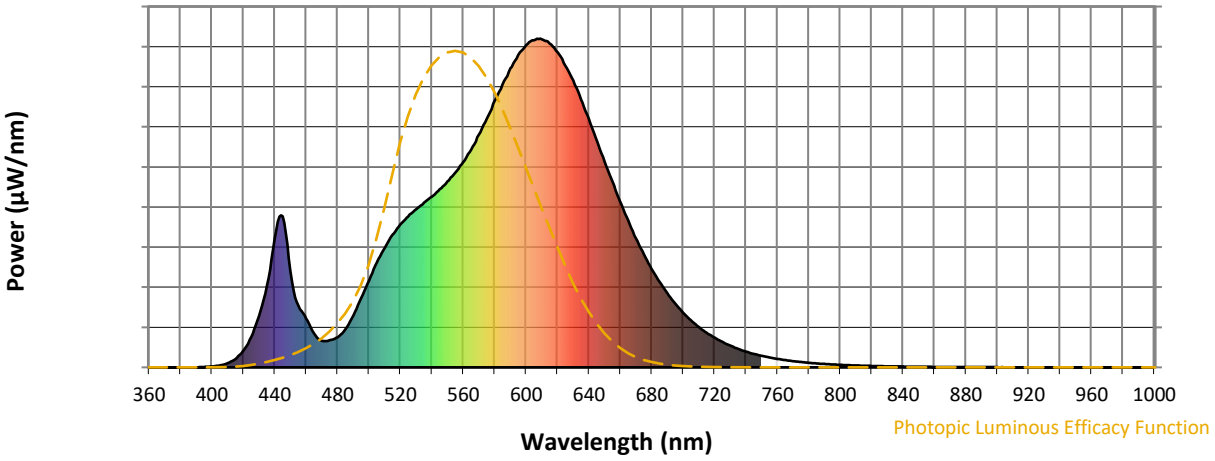


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

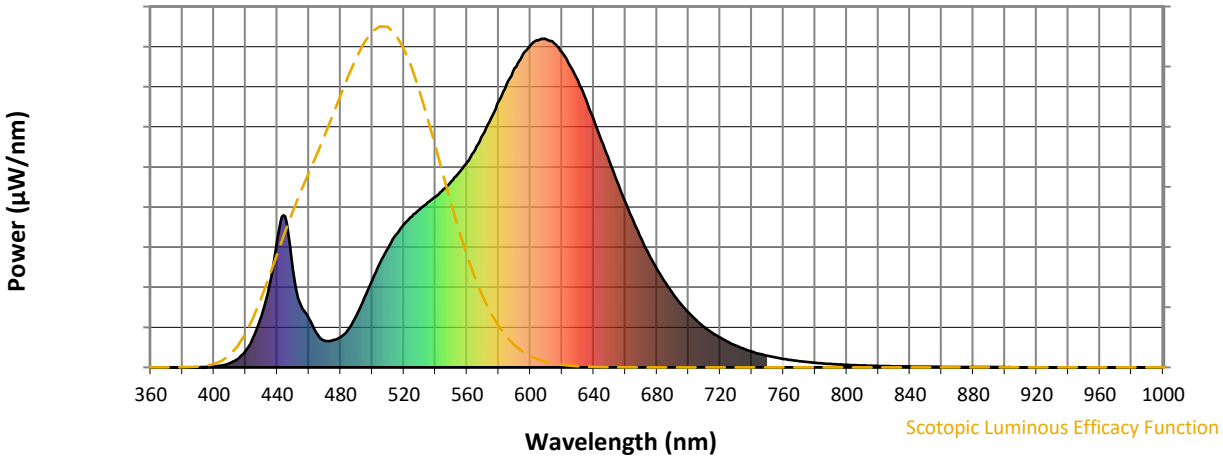


Photopic Lumens: NR

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

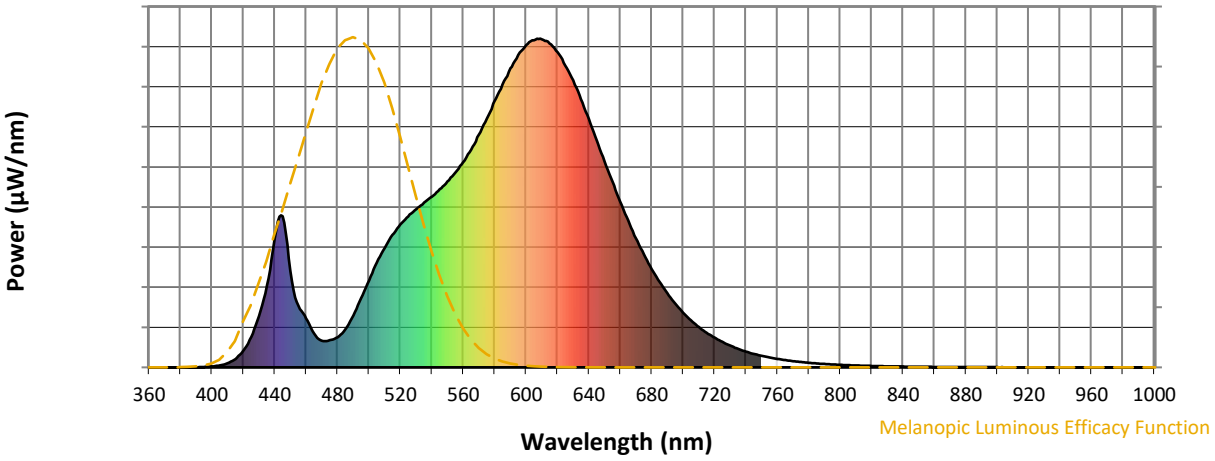


Scotopic Lumens: NR **S/P: 1.2**

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			

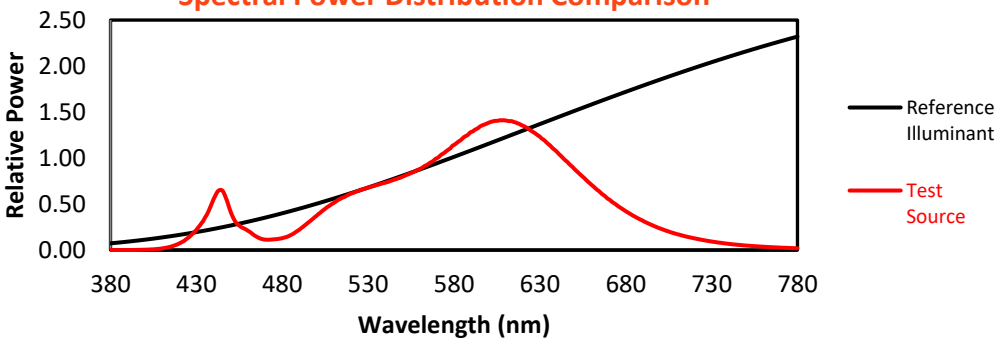
REPORT NUMBER: SP1-2407-184-8

TM-30-18

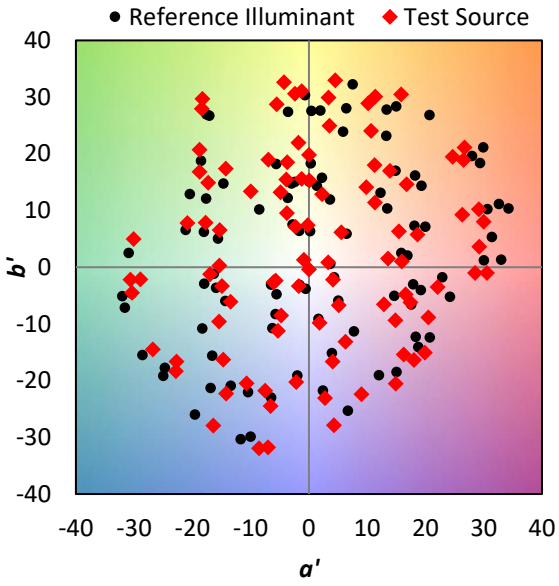
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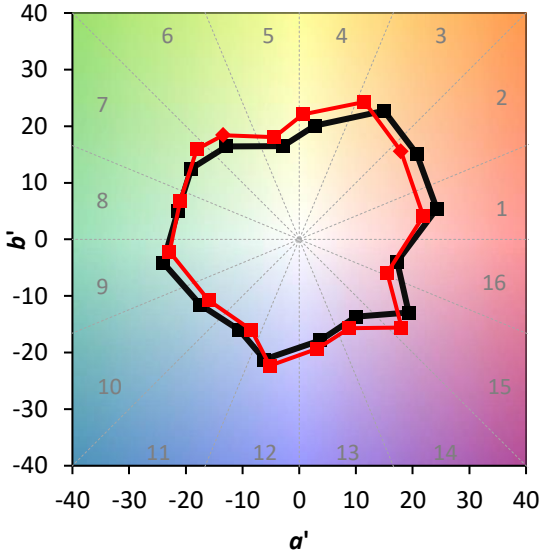
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

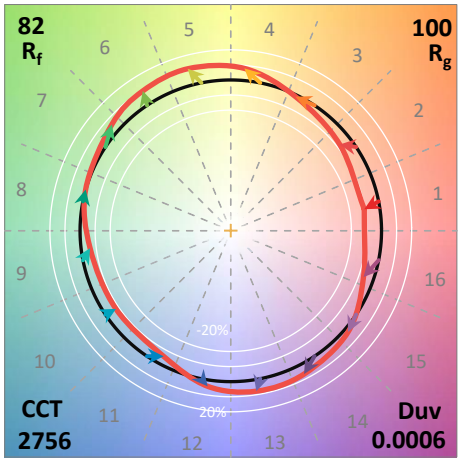
Spectral Power Distribution Comparison

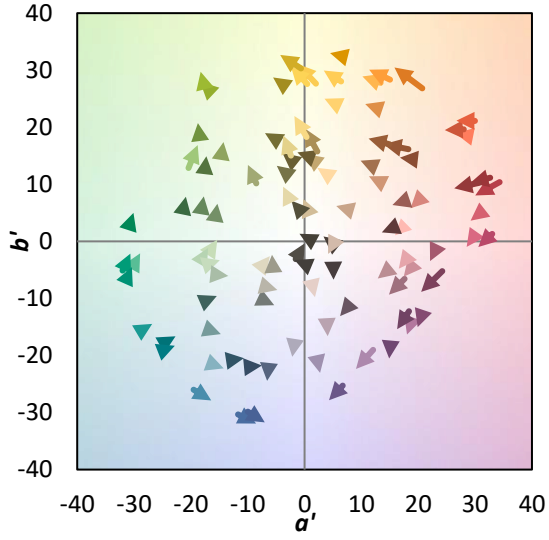


Color Vector Graphics







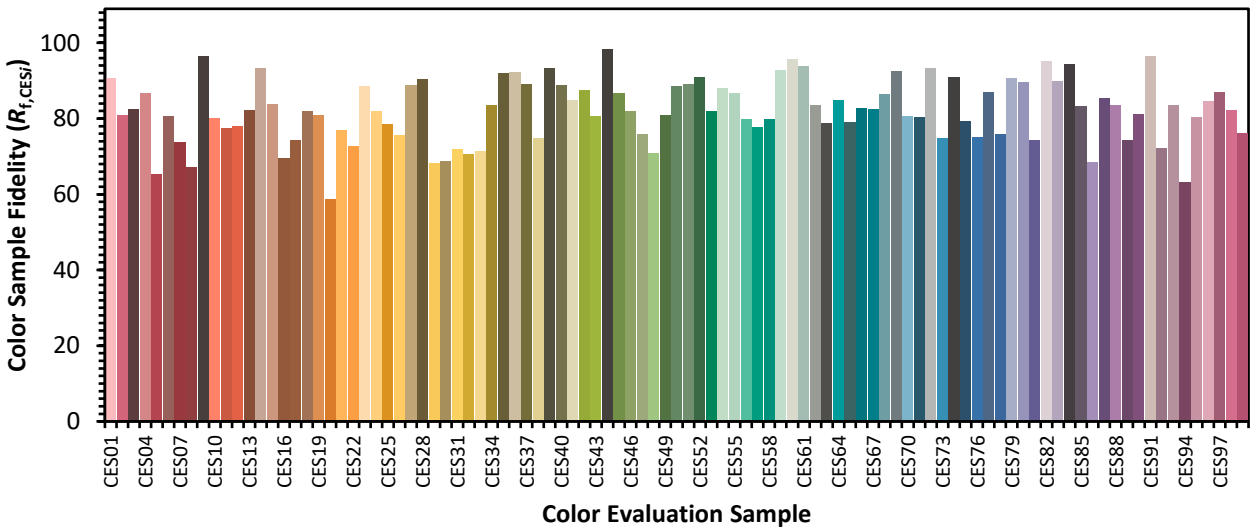


REPORT NUMBER: SP1-2407-184-8

TM-30-18

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

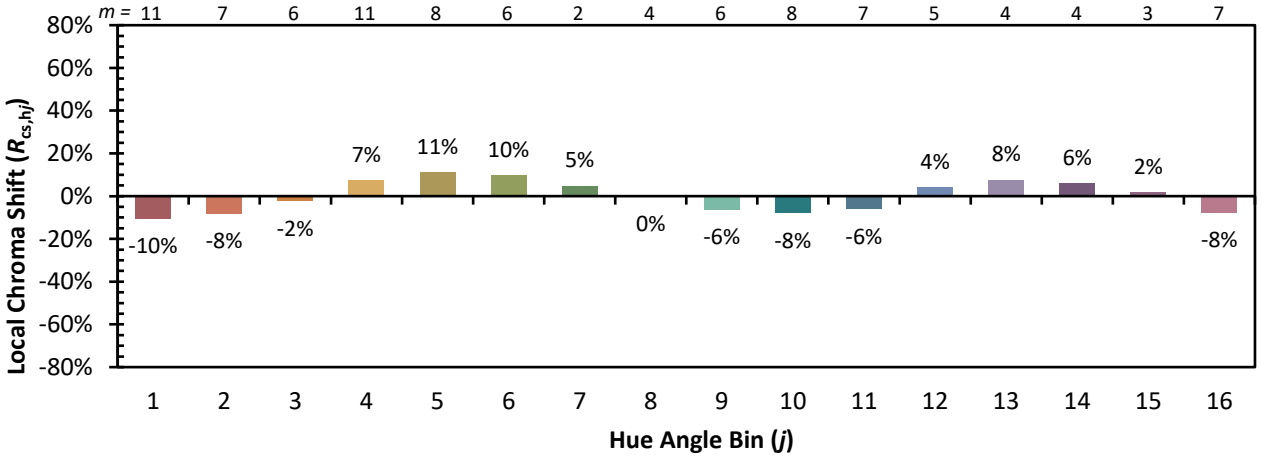
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 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
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CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
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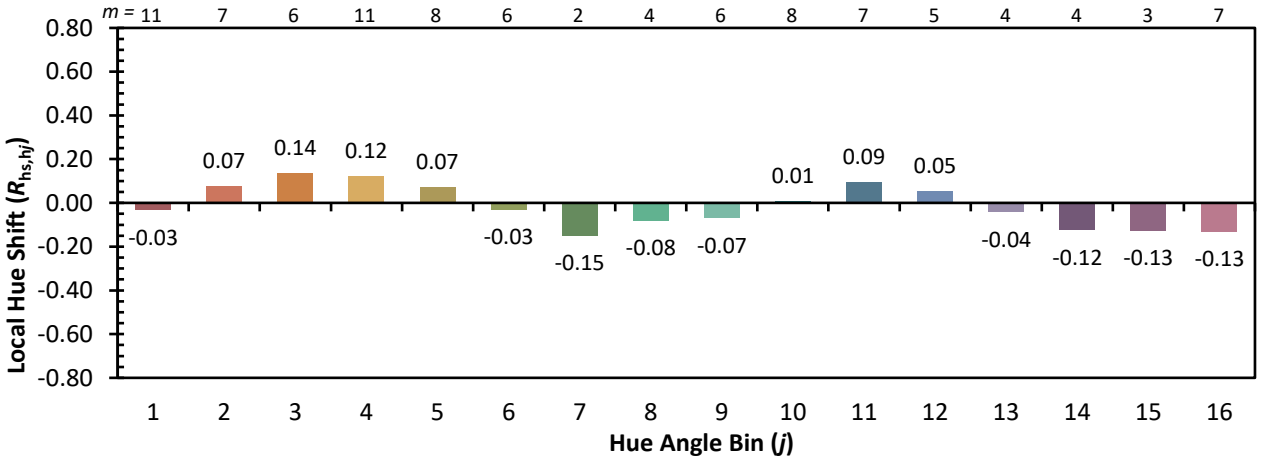


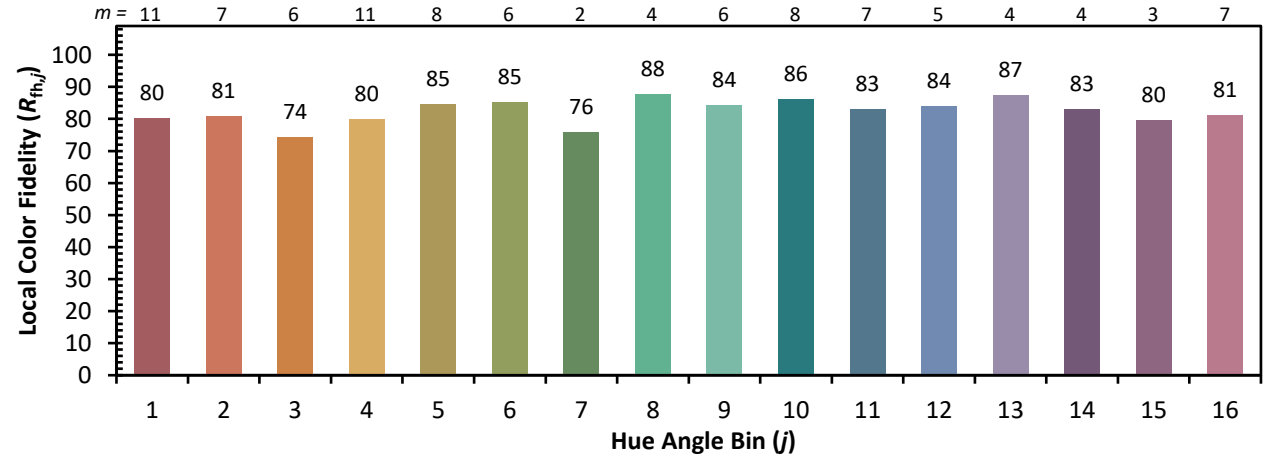
REPORT NUMBER: SP1-2407-184-8

TM-30-18

Color Rendition by Hue-Angle Bin



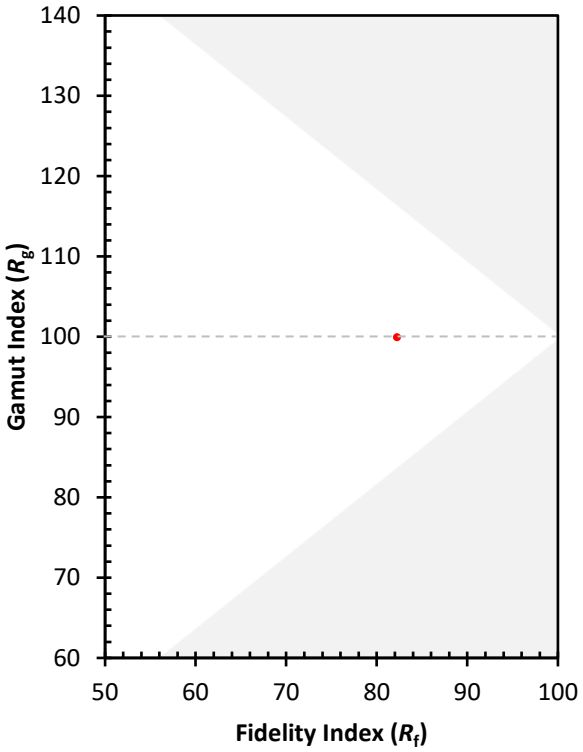


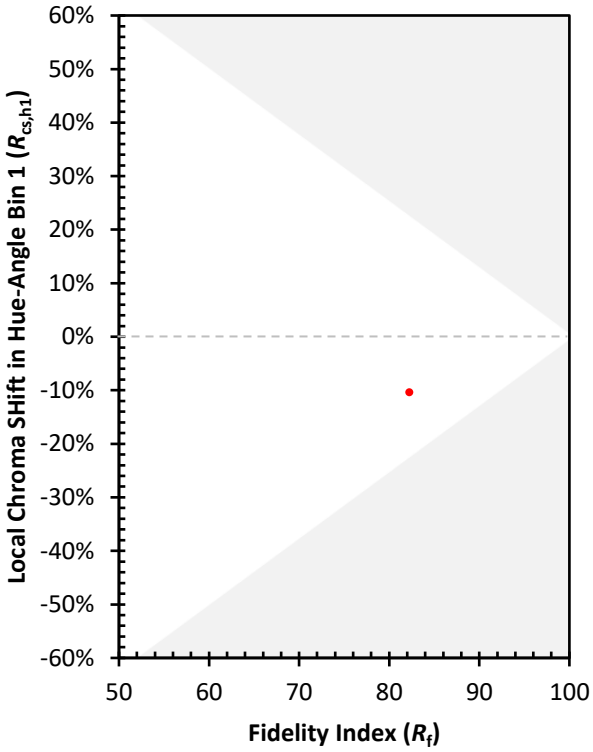


REPORT NUMBER: SP1-2407-184-8

TM-30-18

Measure Comparisons





(END OF REPORT)