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: P1501959

Luminaire Tested: GSS-SB3C-840-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501959
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3C-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 150W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(78) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16144.8 lumens
Efficiency:	N/A
Efficacy:	107.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

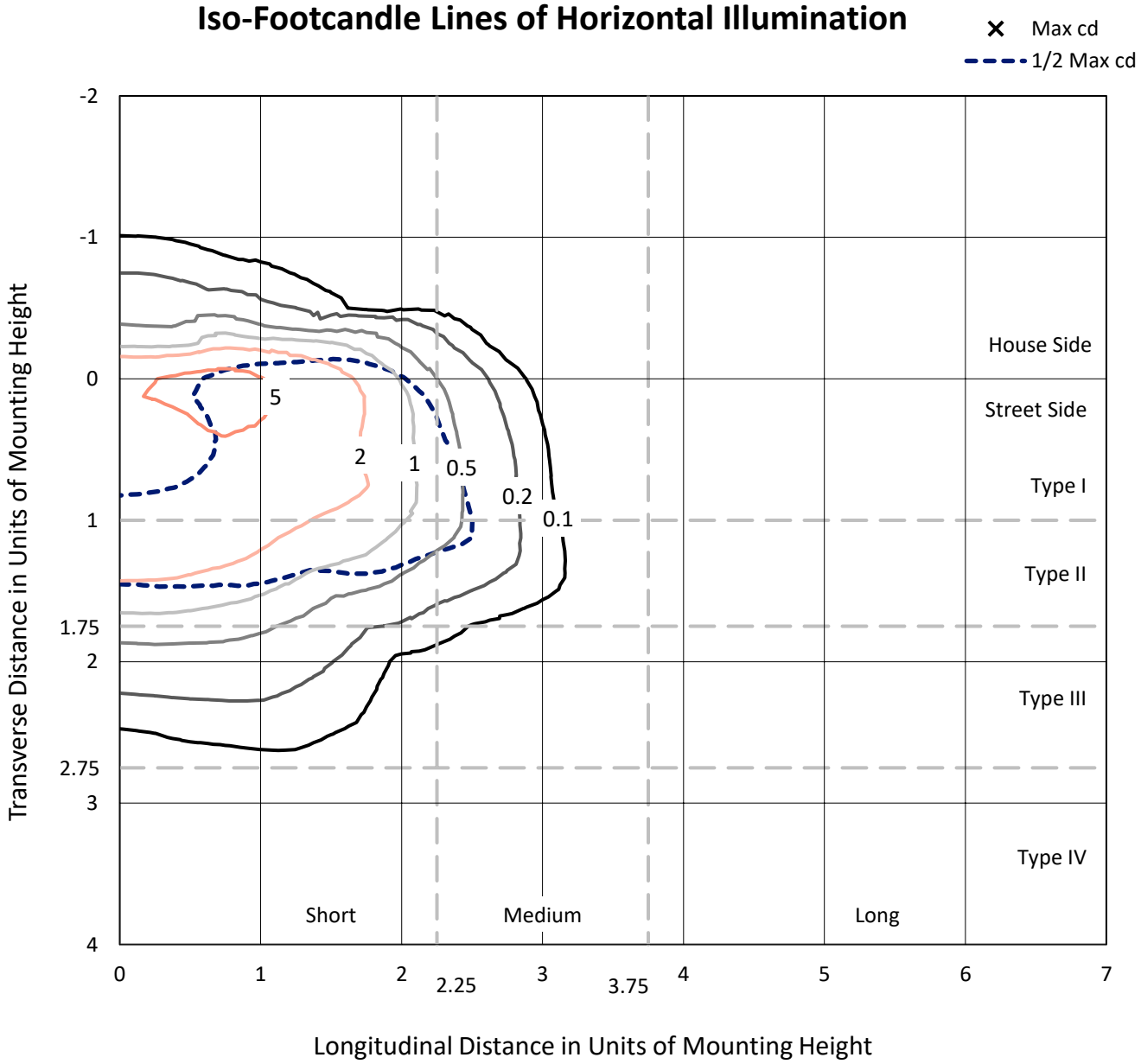
Input Watts (W):	150
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



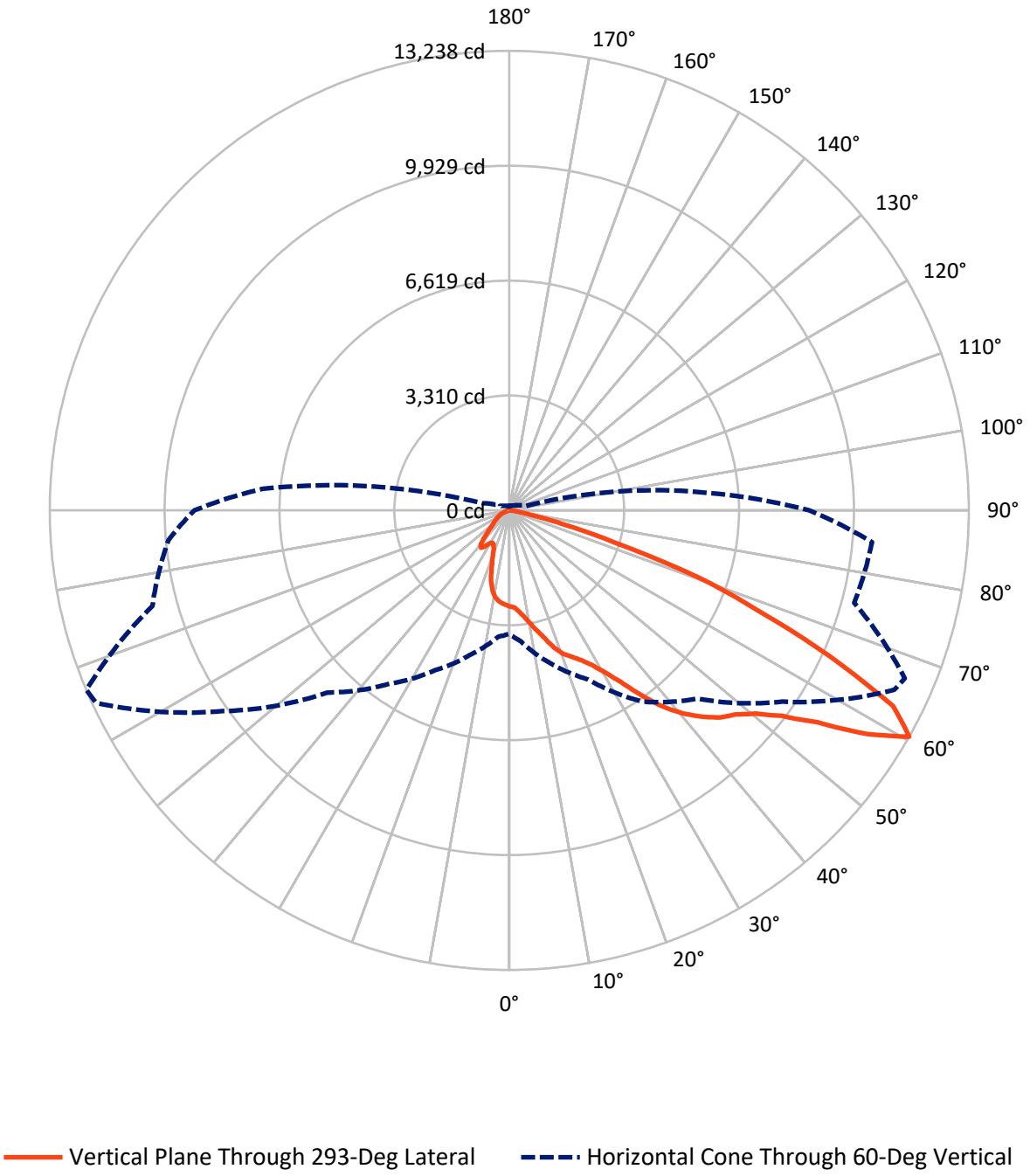
Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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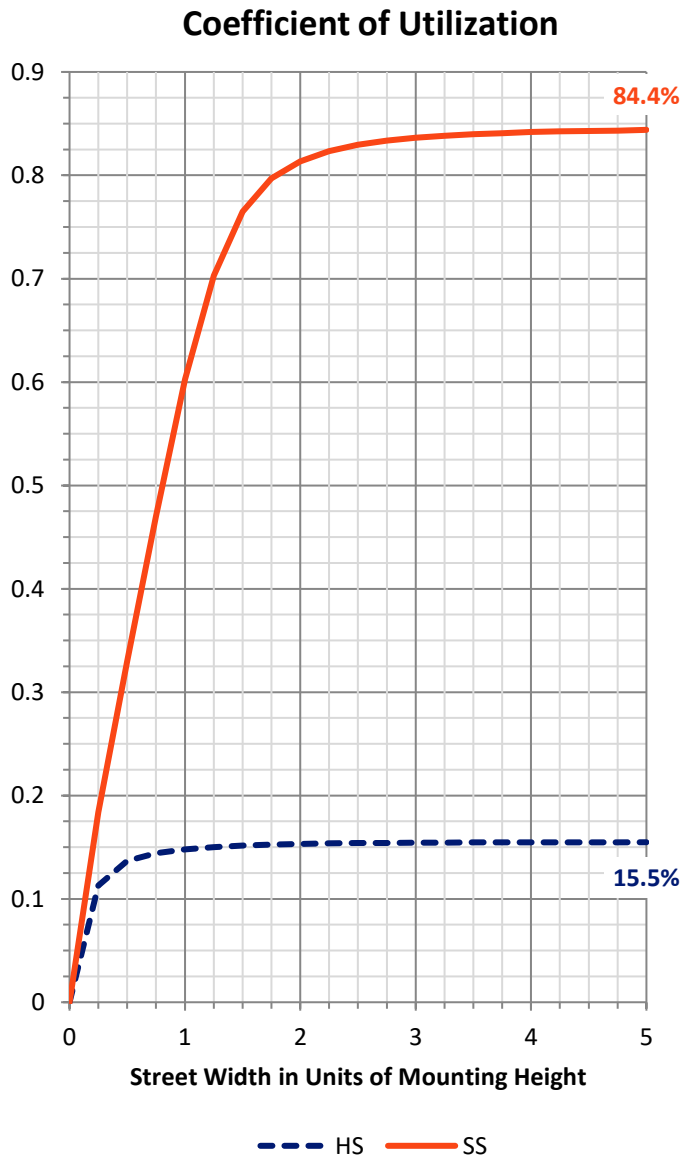
REPORT NUMBER: P1501959
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.0	0.0	2519.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	13625.8	0.0	13625.8
	% Fixture	84.4	0.0	84.4
Total	Lumens	16144.8	0.0	16144.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.6
10°-20°	631.0	3.9
20°-30°	1178.0	7.3
30°-40°	2336.1	14.5
40°-50°	3724.6	23.1
50°-60°	4449.9	27.6
60°-70°	2917.2	18.1
70°-80°	611.2	3.8
80°-90°	46.2	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°	16144.8	100.0
0°-180°	16144.8	100.0



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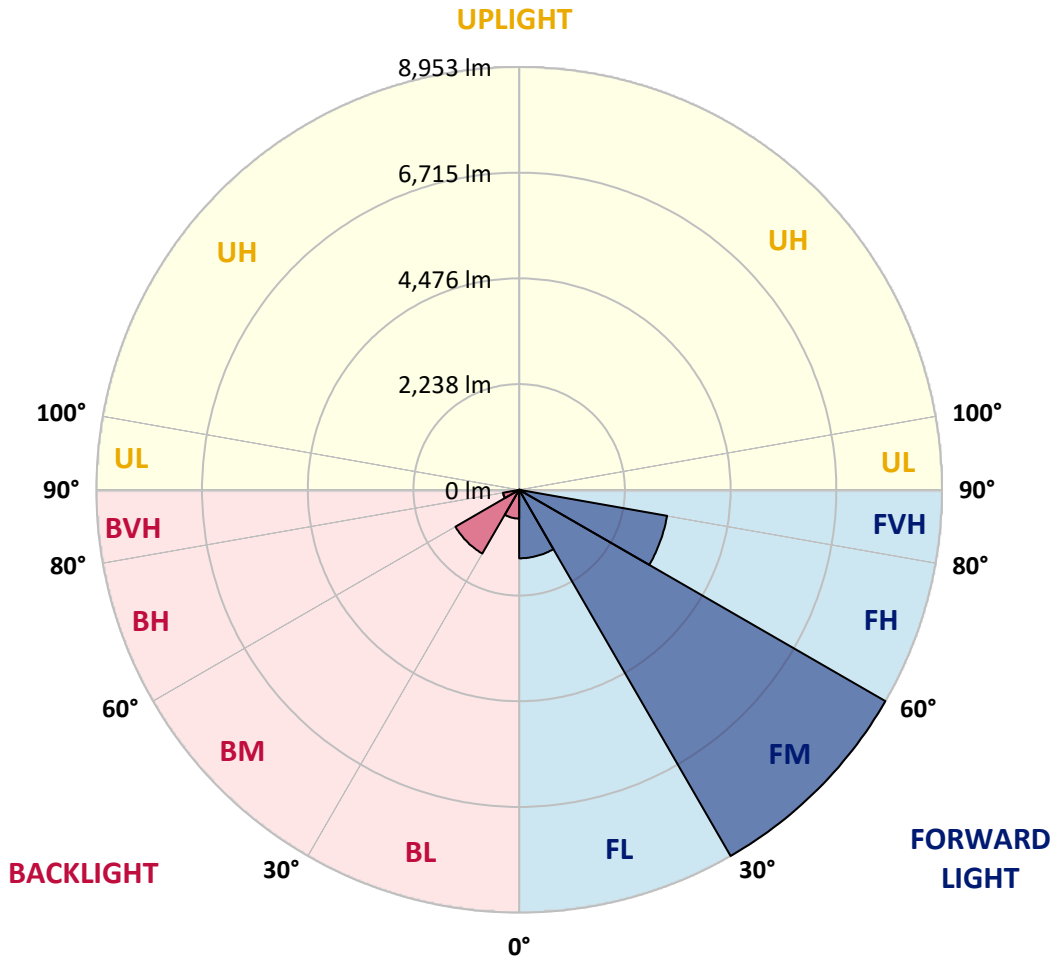
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1450.1	9.0			
FM	(30°-60°)	8952.9	55.5			
FH	(60°-80°)	3180.4	19.7			G2/5000
FVH	(80°-90°)	42.4	0.3			G1/100
BL	(0°-30°)	609.4	3.8	B2/1000		
BM	(30°-60°)	1557.7	9.6	B2/2500		
BH	(60°-80°)	348.0	2.2	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2907.2	2898.2	2884.6	2889.1	2884.6	2866.5	2839.4	2816.8	2834.9	2807.7	2789.7
5°	2993.1	2993.1	2984.1	2984.1	2988.6	2979.5	2961.5	2929.8	2934.3	2911.7	2853.0
7.5°	2993.1	2979.5	3002.2	3024.8	3065.5	3088.1	3097.1	3079.0	3088.1	3042.8	2966.0
10°	2816.8	2807.7	2866.5	2952.4	3070.0	3174.0	3241.8	3246.3	3259.9	3214.7	3124.2
12.5°	2441.5	2423.4	2541.0	2703.7	2943.4	3183.0	3372.9	3445.2	3476.9	3458.8	3332.2
15°	2093.4	2116.0	2197.4	2373.7	2694.7	3060.9	3445.2	3684.9	3730.1	3752.7	3603.5
17.5°	2057.2	2061.7	2088.8	2174.8	2418.9	2862.0	3454.3	3933.5	3996.8	4096.3	3892.9
20°	2156.7	2147.6	2174.8	2201.9	2319.4	2685.7	3368.4	4173.2	4295.3	4507.8	4286.2
22.5°	2342.0	2342.0	2355.6	2373.7	2432.5	2672.1	3332.2	4394.7	4602.7	5036.7	4779.0
25°	2654.0	2617.8	2626.9	2604.3	2654.0	2834.9	3413.6	4571.1	4855.9	5624.5	5366.8
27.5°	3137.8	3151.4	3070.0	2947.9	2975.0	3128.8	3612.5	4770.0	5118.1	6234.9	5963.6
30°	3807.0	3784.3	3734.6	3495.0	3386.5	3522.1	3978.8	5095.5	5470.8	7008.0	6759.4
32.5°	4331.4	4394.7	4308.8	4141.5	3974.2	4014.9	4494.2	5620.0	5900.3	7717.9	7582.3
35°	4964.4	4964.4	4982.5	4747.4	4634.4	4625.3	5140.7	6189.7	6470.0	8359.9	8454.9
37.5°	5818.9	5760.2	5660.7	5398.5	5312.6	5425.6	5746.6	6777.5	7080.4	8879.9	9133.1
40°	6537.8	6578.5	6565.0	6185.2	6017.9	6140.0	6424.8	7279.3	7514.4	9214.4	9680.1
42.5°	7243.2	7265.8	7207.0	7026.1	6782.0	6791.0	7026.1	7659.1	7898.7	9535.5	10195.6
45°	7772.1	7767.6	7726.9	7681.7	7537.0	7387.8	7428.5	8079.6	8287.6	9639.5	10475.9
47.5°	7939.4	7975.6	8011.8	8138.4	8237.8	8002.7	7794.8	8305.7	8495.6	9621.4	10579.9
50°	7785.7	7862.6	8038.9	8228.8	8567.9	8549.8	8102.2	8549.8	8735.2	9720.8	10702.0
52.5°	7442.1	7519.0	7754.1	8097.7	8608.6	8861.8	8671.9	8961.3	9178.3	9974.0	10955.2
55°	6641.8	6673.5	7157.2	7609.4	8405.1	8726.1	9282.3	9657.5	9838.4	10281.5	11289.7
57.5°	5407.5	5484.4	5959.1	6696.1	7835.4	8369.0	9630.4	10846.6	10842.1	10575.4	11362.1
60°	*3558.3*	*3784.3*	*4557.5*	*5371.3*	*6732.2*	*7668.2*	*9607.8*	*12239.2*	*12379.4*	*10286.0*	*10489.5*
62.5°	2717.3	2812.3	3250.8	3929.0	4982.5	6357.0	9458.6	12655.2	12763.7	9508.3	9182.8
65°	2043.6	2161.2	2581.7	3187.5	3517.6	4308.8	8482.0	11000.4	11149.6	8486.5	7139.2
67.5°	1252.4	1347.4	1908.0	2617.8	2663.1	2676.6	5724.0	8332.8	8387.0	6845.3	4806.2
70°	836.4	931.4	1320.2	2012.0	2120.5	1541.8	3142.3	6307.2	6302.7	4684.1	2920.8
72.5°	483.8	529.0	836.4	1483.0	1668.4	981.1	1568.9	4010.4	3834.1	2201.9	1365.4
75°	275.8	307.4	461.2	954.0	1171.0	623.9	619.4	2147.6	1899.0	1134.9	746.0
77.5°	167.3	180.9	253.2	623.9	705.3	420.5	343.6	999.2	963.0	664.6	393.4
80°	81.4	94.9	153.7	366.2	452.1	226.1	208.0	393.4	420.5	366.2	208.0
82.5°	27.1	36.2	85.9	140.2	293.9	90.4	85.9	217.0	230.6	217.0	99.5
85°	13.6	18.1	40.7	45.2	113.0	45.2	31.6	94.9	117.6	72.3	40.7
87.5°	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.0	9.0	9.0	9.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2776.1	2767.0	2749.0	2717.3	2712.8	2690.2	2654.0	2631.4	2613.3	2626.9	2631.4
5°	2825.8	2803.2	2749.0	2663.1	2572.6	2482.2	2396.3	2296.8	2229.0	2220.0	2201.9
7.5°	2916.3	2871.0	2753.5	2586.2	2355.6	2138.6	1885.4	1641.2	1519.2	1501.1	1460.4
10°	3060.9	2984.1	2789.7	2450.6	2007.5	1555.3	1171.0	908.8	759.6	732.5	741.5
12.5°	3232.7	3124.2	2794.2	2220.0	1528.2	963.0	664.6	565.2	533.5	520.0	520.0
15°	3454.3	3296.0	2789.7	1921.6	1030.9	619.4	533.5	492.8	479.3	470.2	470.2
17.5°	3734.6	3526.6	2758.0	1474.0	696.3	538.0	488.3	456.7	438.6	434.0	434.0
20°	4064.7	3784.3	2685.7	1098.7	583.3	501.9	461.2	420.5	406.9	397.9	397.9
22.5°	4485.1	4096.3	2545.5	854.5	551.6	479.3	434.0	388.8	375.3	366.2	366.2
25°	4973.5	4494.2	2360.1	768.6	547.1	461.2	406.9	361.7	348.1	343.6	339.1
27.5°	5552.2	4919.2	2188.3	773.1	556.1	447.6	379.8	339.1	325.5	312.0	316.5
30°	6234.9	5357.8	2048.2	827.4	565.2	434.0	361.7	325.5	312.0	293.9	293.9
32.5°	6908.6	5873.2	2034.6	926.9	596.8	425.0	343.6	307.4	293.9	280.3	280.3
35°	7600.3	6343.4	2111.5	1058.0	660.1	411.4	321.0	289.4	275.8	266.8	262.2
37.5°	8260.5	6718.7	2183.8	1139.4	623.9	352.7	293.9	266.8	253.2	235.1	235.1
40°	8699.0	6922.1	2197.4	1076.1	515.4	316.5	266.8	239.6	221.5	212.5	208.0
42.5°	9020.0	7053.3	2043.6	872.6	447.6	289.4	244.2	217.0	203.5	194.4	194.4
45°	9151.2	7008.0	1781.4	664.6	411.4	266.8	221.5	198.9	189.9	180.9	180.9
47.5°	9133.1	6800.1	1514.6	533.5	375.3	244.2	208.0	189.9	180.9	171.8	167.3
50°	9101.4	6605.6	1243.4	474.7	334.6	230.6	194.4	180.9	167.3	158.2	153.7
52.5°	9309.4	6542.3	1030.9	434.0	312.0	221.5	189.9	171.8	158.2	149.2	149.2
55°	9517.4	6569.5	809.3	406.9	289.4	217.0	185.4	167.3	153.7	140.2	140.2
57.5°	9503.8	6451.9	614.9	379.8	271.3	212.5	180.9	162.8	140.2	131.1	131.1
60°	*8640.2*	*5755.6*	*479.3*	*348.1*	*248.7*	*198.9*	*167.3*	*153.7*	*131.1*	*117.6*	*117.6*
62.5°	7306.5	4525.8	393.4	307.4	221.5	180.9	153.7	140.2	117.6	94.9	94.9
65°	5398.5	3264.4	316.5	266.8	203.5	158.2	140.2	122.1	94.9	76.9	72.3
67.5°	3653.2	2007.5	253.2	221.5	180.9	135.6	117.6	104.0	85.9	63.3	58.8
70°	2165.7	1067.0	185.4	153.7	135.6	99.5	99.5	90.4	72.3	54.3	49.7
72.5°	1030.9	370.7	135.6	113.0	104.0	72.3	76.9	76.9	58.8	40.7	36.2
75°	524.5	180.9	90.4	81.4	67.8	54.3	63.3	58.8	40.7	27.1	27.1
77.5°	298.4	126.6	63.3	54.3	45.2	36.2	40.7	36.2	22.6	13.6	13.6
80°	167.3	90.4	40.7	36.2	27.1	22.6	22.6	18.1	13.6	4.5	4.5
82.5°	63.3	54.3	27.1	18.1	13.6	13.6	9.0	9.0	4.5	0.0	0.0
85°	27.1	13.6	13.6	9.0	9.0	4.5	4.5	4.5	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	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°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2595.2	2604.3	2613.3	2649.5	2658.5	2685.7	2708.3	2735.4	2739.9	2776.1	2776.1
5°	2238.1	2233.5	2310.4	2423.4	2495.8	2595.2	2672.1	2753.5	2798.7	2857.5	2884.6
7.5°	1483.0	1596.0	1767.8	1966.8	2224.5	2464.1	2645.0	2803.2	2911.7	2979.5	3006.7
10°	737.0	800.3	981.1	1306.7	1745.2	2233.5	2617.8	2911.7	3088.1	3164.9	3214.7
12.5°	520.0	533.5	565.2	741.5	1162.0	1853.7	2531.9	3029.3	3273.4	3418.1	3481.4
15°	465.7	474.7	488.3	538.0	718.9	1383.5	2378.2	3160.4	3562.8	3730.1	3811.5
17.5°	429.5	434.0	447.6	488.3	565.2	940.4	2129.5	3300.6	3910.9	4114.4	4268.1
20°	397.9	397.9	411.4	461.2	524.5	723.4	1772.4	3458.8	4354.0	4647.9	4801.6
22.5°	361.7	370.7	379.8	434.0	510.9	660.1	1437.8	3580.9	4846.9	5204.0	5384.9
25°	334.6	343.6	352.7	406.9	497.3	660.1	1243.4	3657.7	5398.5	5823.5	6072.1
27.5°	312.0	321.0	334.6	388.8	483.8	687.2	1166.5	3680.4	5999.8	6551.4	6886.0
30°	293.9	302.9	316.5	375.3	492.8	718.9	1193.6	3648.7	6610.2	7301.9	7699.8
32.5°	275.8	284.8	298.4	361.7	492.8	759.6	1284.1	3585.4	7202.5	8052.5	8540.8
35°	262.2	266.8	271.3	325.5	447.6	755.1	1397.1	3522.1	7799.3	8794.0	9363.7
37.5°	235.1	239.6	248.7	280.3	357.2	687.2	1419.7	3445.2	8269.5	9417.9	10046.4
40°	208.0	217.0	226.1	257.7	298.4	556.1	1320.2	3282.5	8518.2	9897.2	10661.3
42.5°	189.9	194.4	203.5	235.1	275.8	443.1	1107.7	2997.6	8739.7	10222.7	11108.9
45°	176.3	180.9	189.9	212.5	257.7	384.3	872.6	2649.5	8757.8	10326.7	11325.9
47.5°	162.8	167.3	171.8	194.4	248.7	343.6	669.2	2333.0	8753.3	10462.3	11511.3
50°	153.7	158.2	167.3	185.4	235.1	307.4	551.6	2075.3	8943.2	10756.2	11886.5
52.5°	149.2	149.2	162.8	180.9	221.5	280.3	461.2	1844.7	9042.6	11045.6	12157.8
55°	140.2	144.7	153.7	171.8	208.0	266.8	393.4	1555.3	9087.9	11190.3	12207.6
57.5°	131.1	135.6	149.2	162.8	198.9	253.2	339.1	1162.0	8441.3	10435.2	11375.6
60°	*117.6*	*126.6*	*144.7*	*158.2*	*185.4*	*230.6*	*298.4*	*786.7*	*7121.1*	*9069.8*	*9856.5*
62.5°	94.9	113.0	131.1	140.2	167.3	194.4	253.2	524.5	5687.8	7505.4	8400.6
65°	72.3	94.9	108.5	122.1	140.2	162.8	212.5	357.2	3793.4	5050.3	6058.6
67.5°	63.3	81.4	90.4	99.5	117.6	140.2	171.8	248.7	2301.4	3033.8	4028.5
70°	49.7	67.8	76.9	72.3	90.4	108.5	122.1	167.3	1175.5	1645.8	2292.3
72.5°	36.2	54.3	58.8	58.8	54.3	76.9	90.4	117.6	510.9	800.3	1039.9
75°	27.1	36.2	40.7	36.2	31.6	49.7	63.3	76.9	334.6	479.3	605.9
77.5°	13.6	13.6	22.6	22.6	13.6	27.1	31.6	45.2	189.9	280.3	348.1
80°	4.5	0.0	0.0	4.5	0.0	9.0	13.6	22.6	99.5	149.2	217.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	49.7	45.2	113.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	27.1
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

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

Scaled Data Report

REPORT NUMBER: P1501959
CATALOG NUMBER: GSS-SB3C-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2798.7	2798.7	2816.8	2843.9	2857.5	2866.5	2871.0	2880.1	2916.3	2907.2
5°	2916.3	2925.3	2938.9	2966.0	2997.6	2988.6	2988.6	2988.6	3011.2	2993.1
7.5°	3070.0	3097.1	3101.6	3133.3	3110.7	3065.5	3038.3	2997.6	2993.1	2993.1
10°	3318.6	3309.6	3309.6	3268.9	3187.5	3056.4	2938.9	2857.5	2812.3	2816.8
12.5°	3585.4	3549.2	3553.8	3404.6	3174.0	2884.6	2645.0	2468.6	2455.1	2441.5
15°	3915.5	3820.5	3802.4	3458.8	2970.5	2527.4	2292.3	2152.1	2106.9	2093.4
17.5°	4385.7	4146.0	4060.1	3363.9	2703.7	2305.9	2129.5	2066.2	2061.7	2057.2
20°	4883.0	4408.3	4245.5	3223.7	2613.3	2310.4	2179.3	2161.2	2152.1	2156.7
22.5°	5461.8	4575.6	4367.6	3246.3	2694.7	2459.6	2355.6	2342.0	2333.0	2342.0
25°	6058.6	4770.0	4512.3	3427.2	2938.9	2735.4	2613.3	2586.2	2613.3	2654.0
27.5°	6659.9	5032.2	4797.1	3784.3	3332.2	3110.7	2993.1	3092.6	3133.3	3137.8
30°	7193.4	5398.5	5181.4	4286.2	3779.8	3558.3	3580.9	3707.5	3757.2	3807.0
32.5°	7681.7	5886.8	5719.5	4855.9	4358.6	4227.4	4213.9	4308.8	4363.1	4331.4
35°	8174.5	6524.3	6361.5	5475.3	5068.4	4959.9	4846.9	5032.2	5014.1	4964.4
37.5°	8640.2	7166.3	7017.1	6140.0	5719.5	5529.6	5511.5	5678.8	5828.0	5818.9
40°	8974.8	7686.2	7505.4	6800.1	6402.2	6239.4	6334.4	6623.7	6587.6	6537.8
42.5°	9282.3	8129.3	7966.6	7378.8	6962.8	7035.2	7121.1	7315.5	7292.9	7243.2
45°	9427.0	8509.1	8369.0	7817.4	7613.9	7844.5	7840.0	7912.3	7790.2	7772.1
47.5°	9630.4	8780.4	8635.7	8210.7	8391.6	8486.5	8219.8	8142.9	8029.9	7939.4
50°	10005.7	9200.9	9056.2	8807.5	8961.3	8667.4	8341.8	8174.5	7944.0	7785.7
52.5°	10444.2	9838.4	9711.8	9612.3	9182.8	8576.9	8161.0	7858.1	7577.7	7442.1
55°	10995.8	10778.8	10688.4	10141.3	8983.9	8206.2	7717.9	7152.7	6768.4	6641.8
57.5°	11176.7	12157.8	12126.2	10227.2	8427.7	7532.5	6650.9	5886.8	5488.9	5407.5
60°	10643.2	13238.4	13125.4	10082.5	7419.5	6112.8	5082.0	4299.8	3653.2	3558.3
62.5°	9960.5	12411.0	12370.3	9354.6	5651.6	4381.2	3797.9	3065.5	2789.7	2717.3
65°	8531.7	10154.9	10173.0	7505.4	3576.4	3146.8	3119.7	2437.0	2097.9	2043.6
67.5°	6569.5	7790.2	7663.6	4720.3	2084.3	2518.4	2491.2	1781.4	1288.6	1252.4
70°	3838.6	5800.9	5597.4	2455.1	1379.0	2102.4	1917.0	1252.4	877.1	836.4
72.5°	1695.5	3192.1	3427.2	1080.6	972.1	1672.9	1383.5	768.6	492.8	483.8
75°	940.4	1582.5	1654.8	470.2	682.7	1189.1	836.4	429.5	280.3	275.8
77.5°	565.2	700.8	682.7	302.9	510.9	759.6	506.4	244.2	176.3	167.3
80°	316.5	321.0	271.3	221.5	302.9	425.0	284.8	153.7	81.4	81.4
82.5°	194.4	176.3	140.2	67.8	81.4	257.7	104.0	85.9	27.1	27.1
85°	81.4	54.3	36.2	13.6	31.6	67.8	36.2	40.7	13.6	13.6
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

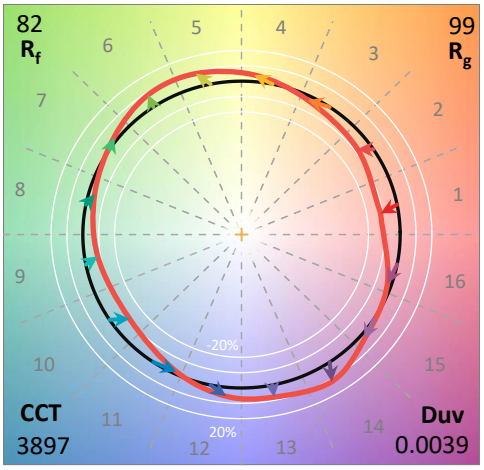
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

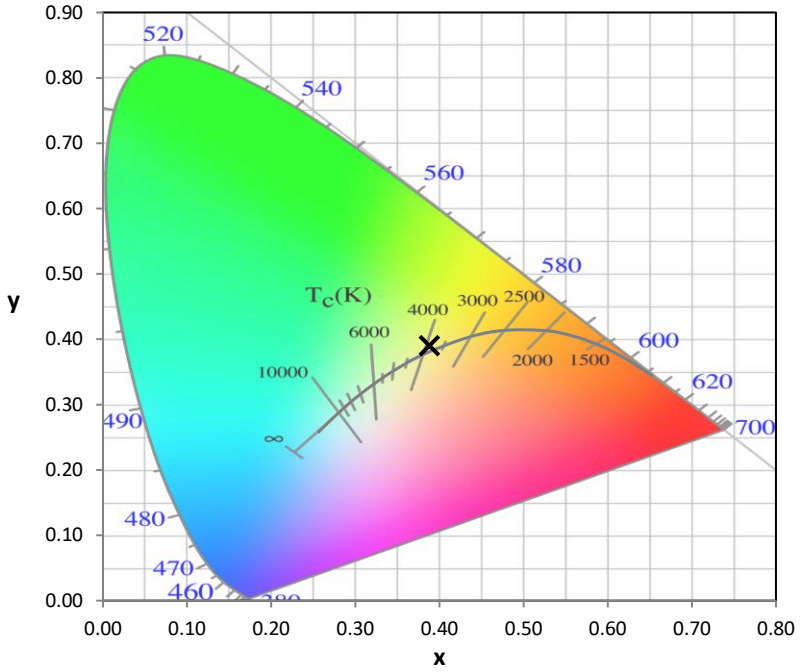
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

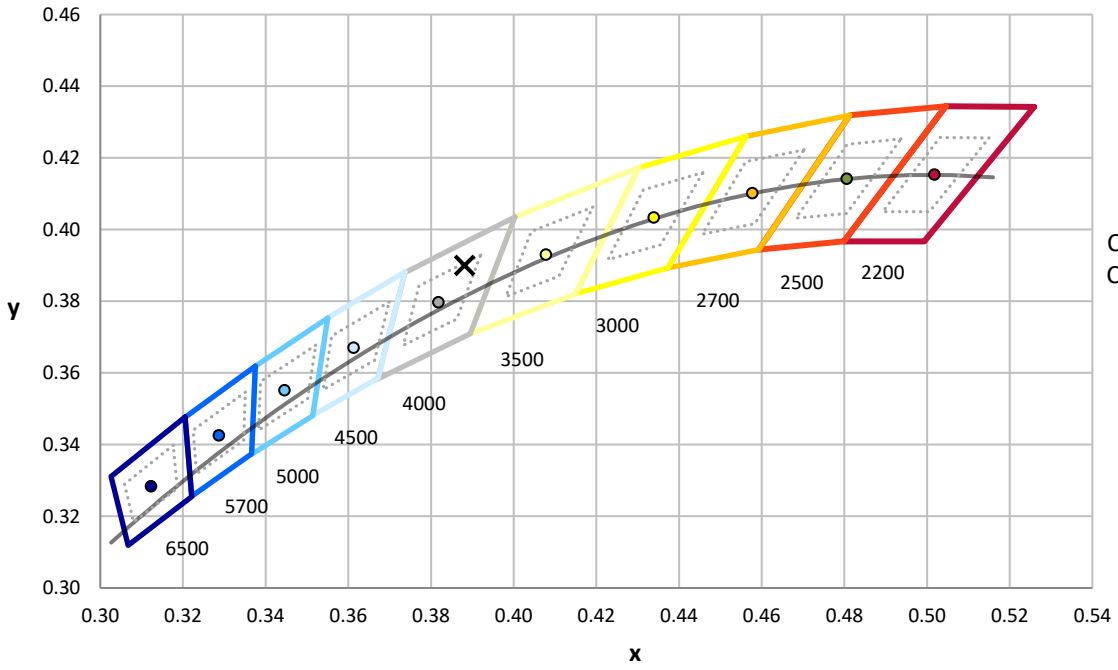
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

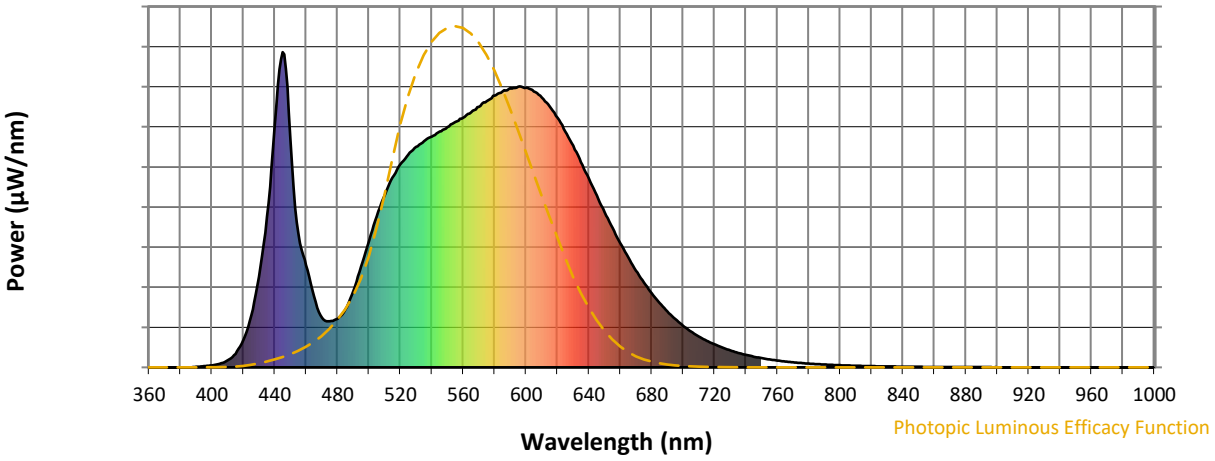


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

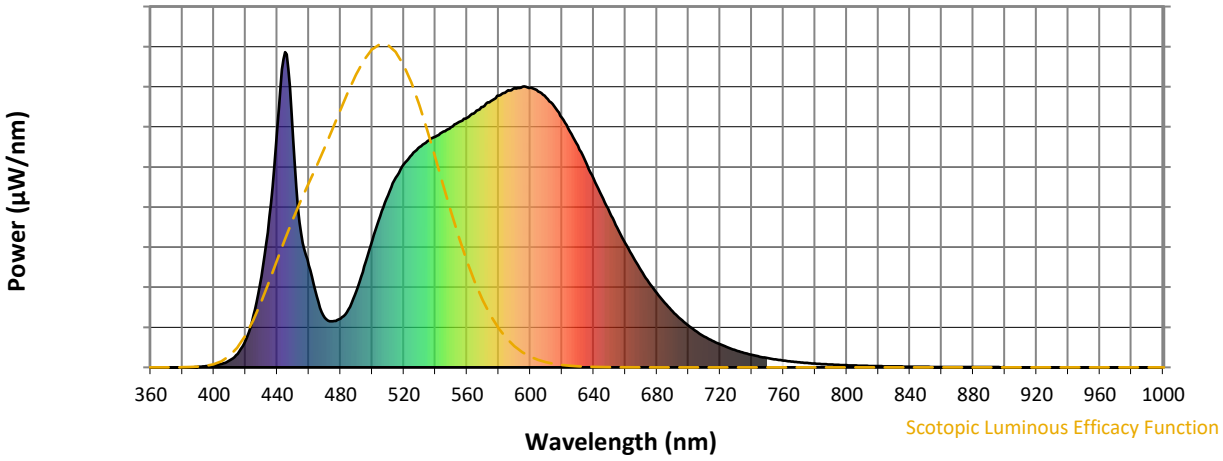


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

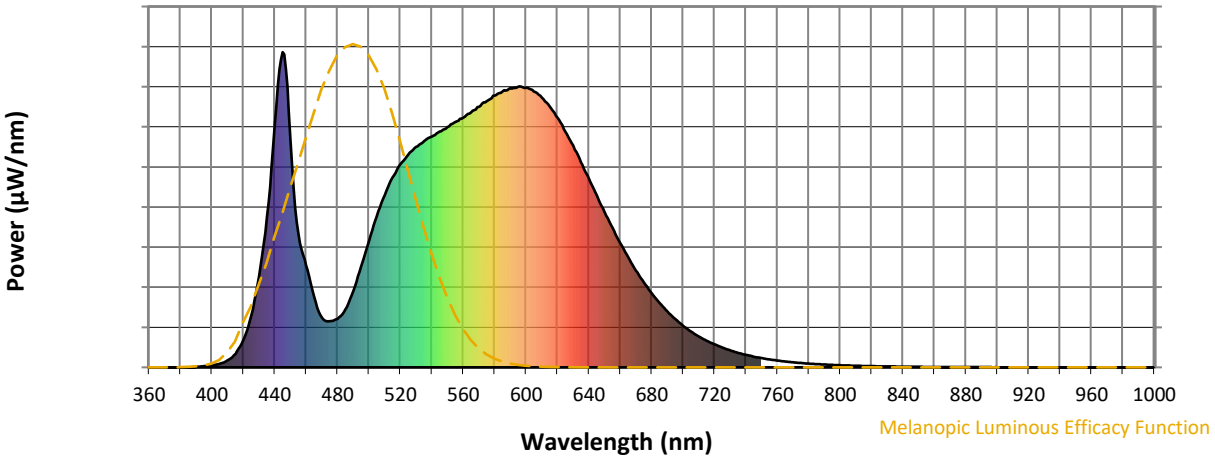


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

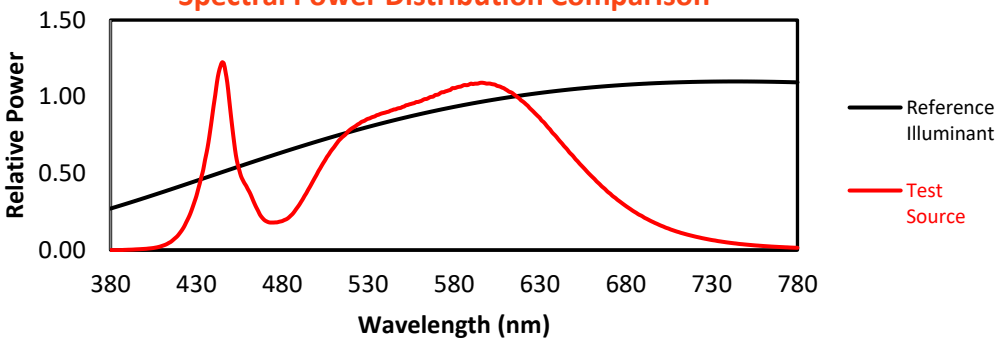
REPORT NUMBER: SP1-2407-184-11

TM-30-18

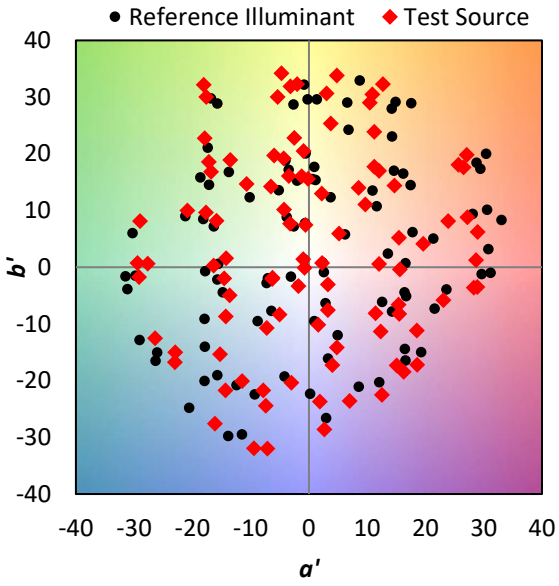
Summary

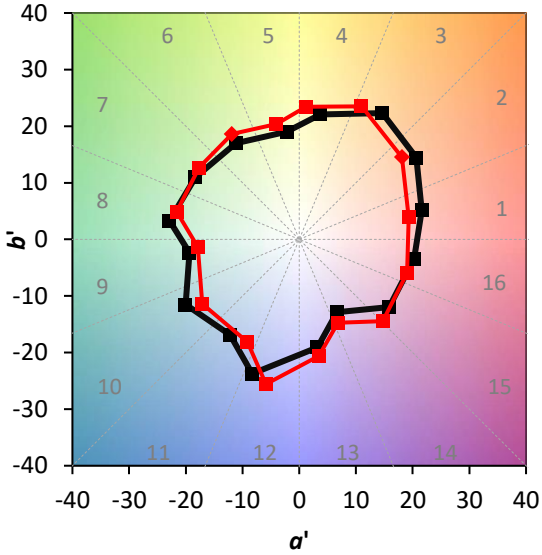
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

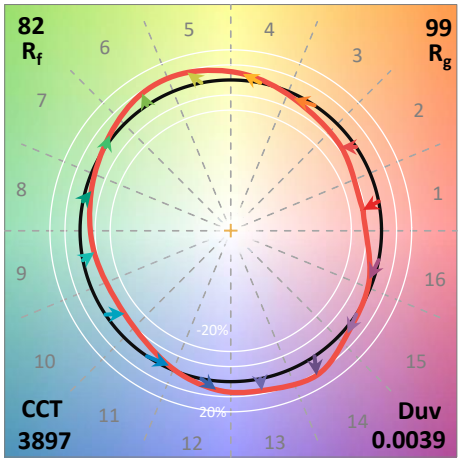
Spectral Power Distribution Comparison

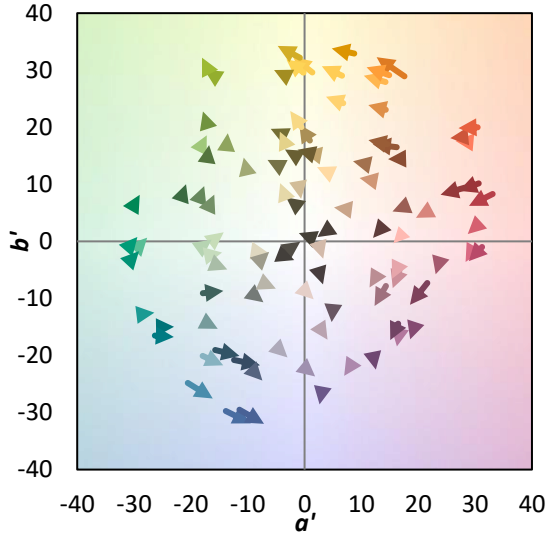


Color Vector Graphics







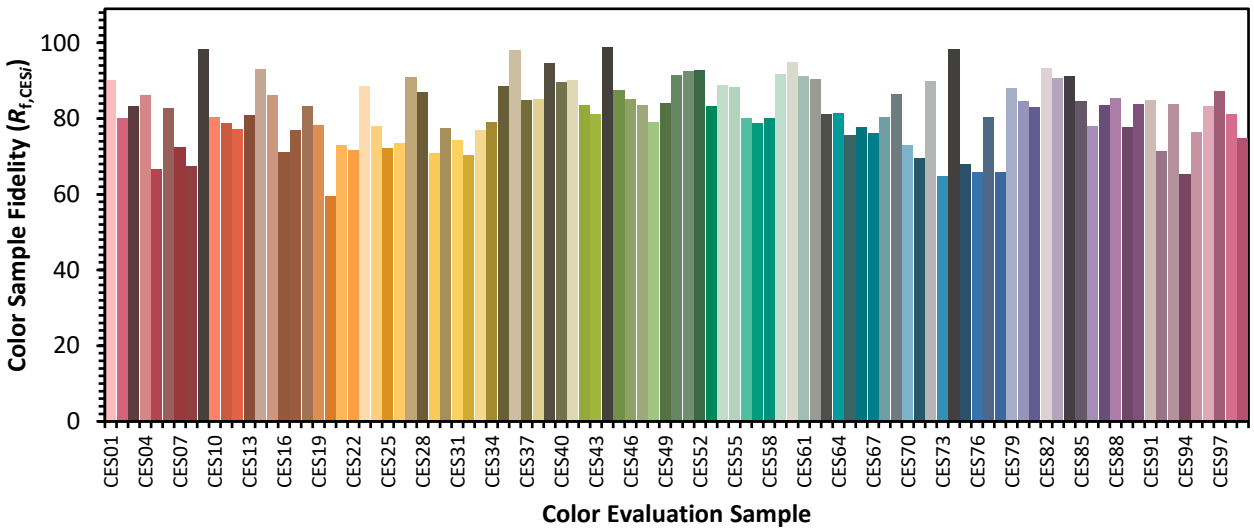


REPORT NUMBER: SP1-2407-184-11

TM-30-18

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

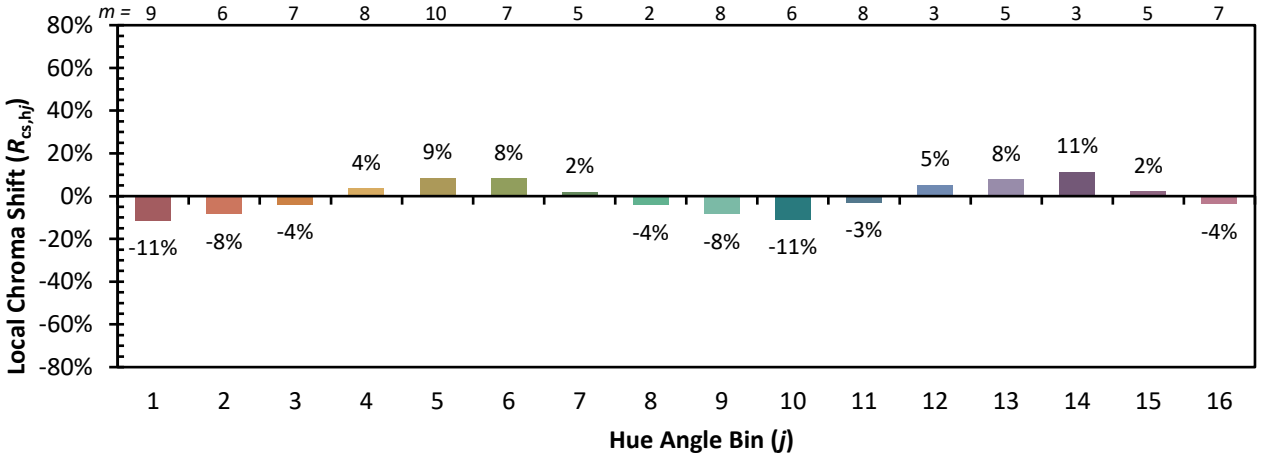
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CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

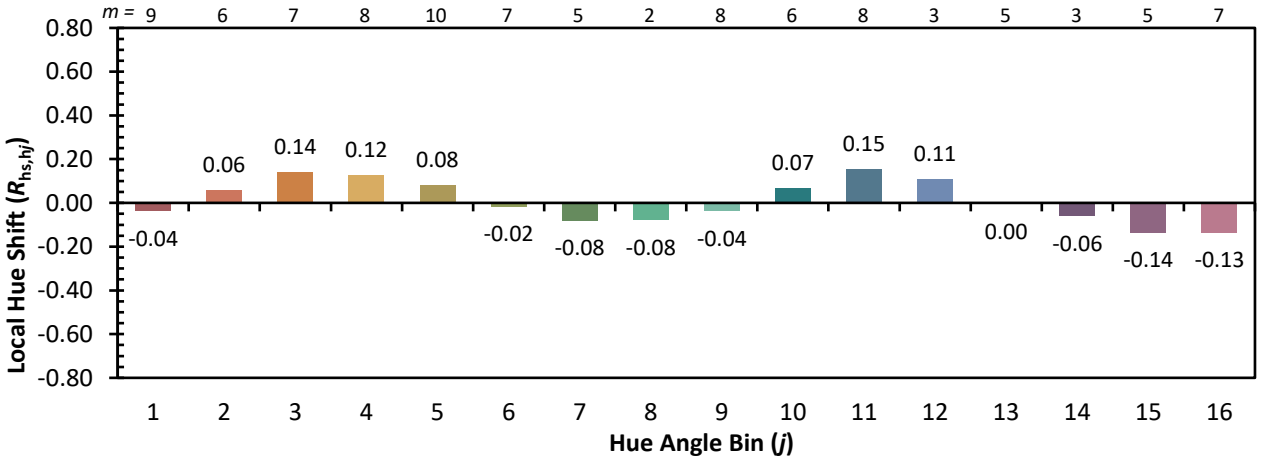


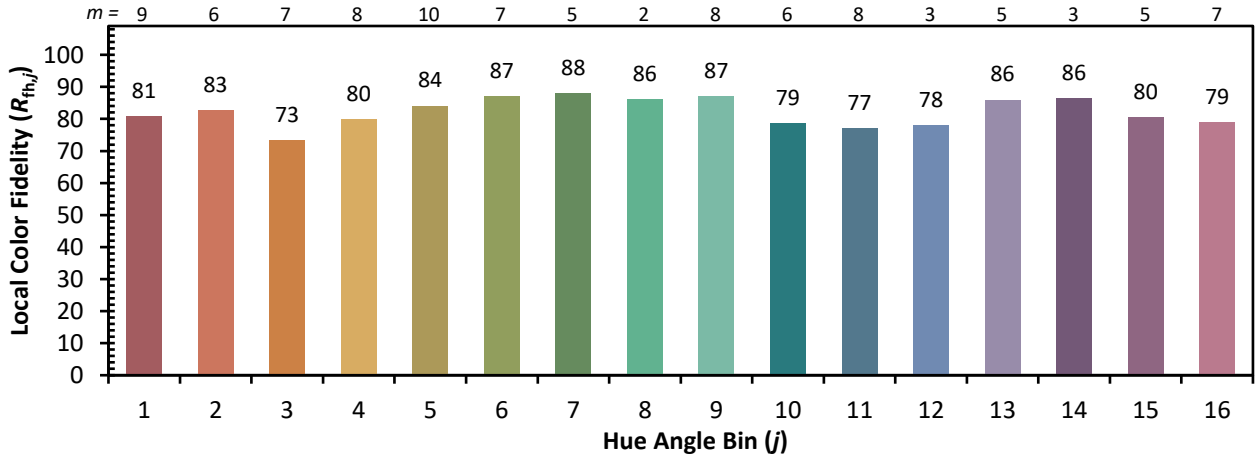
REPORT NUMBER: SP1-2407-184-11

TM-30-18

Color Rendition by Hue-Angle Bin



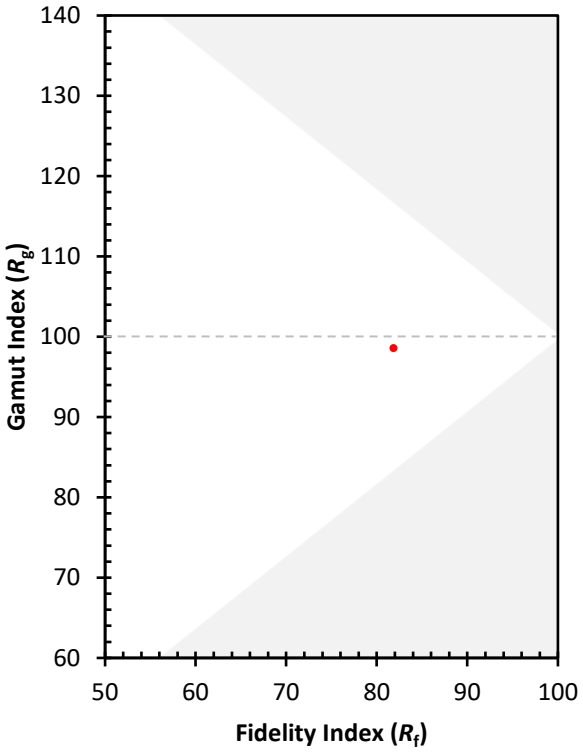


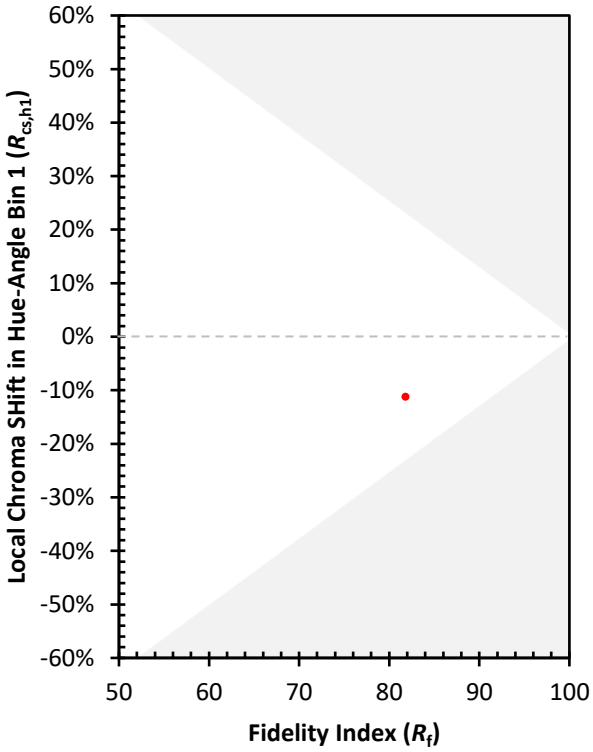


REPORT NUMBER: SP1-2407-184-11

TM-30-18

Measure Comparisons





(END OF REPORT)