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: P1501962

Luminaire Tested: GSS-SB4B-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:	P1501962
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17020.3 lumens
Efficiency:	N/A
Efficacy:	115.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

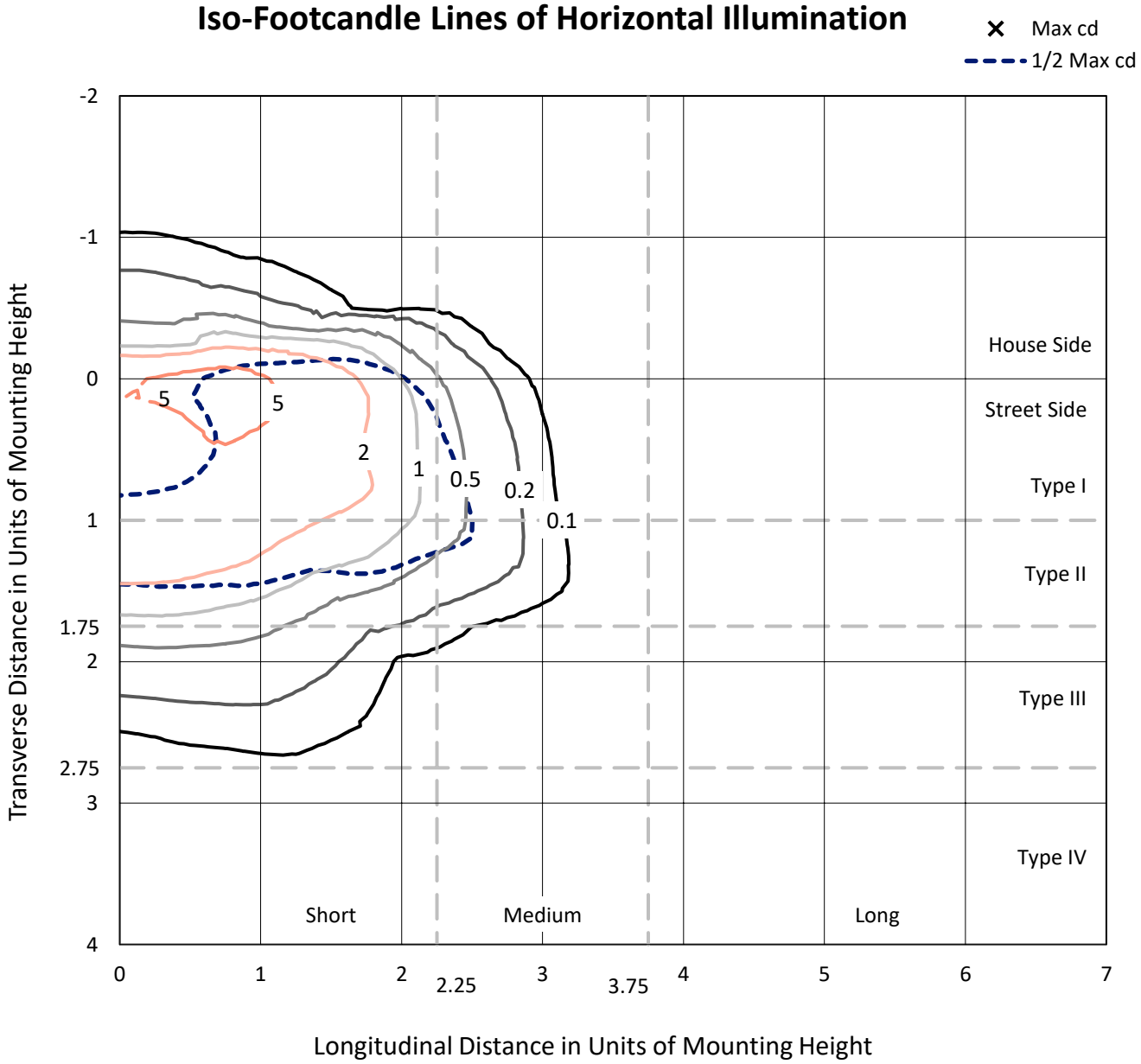
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



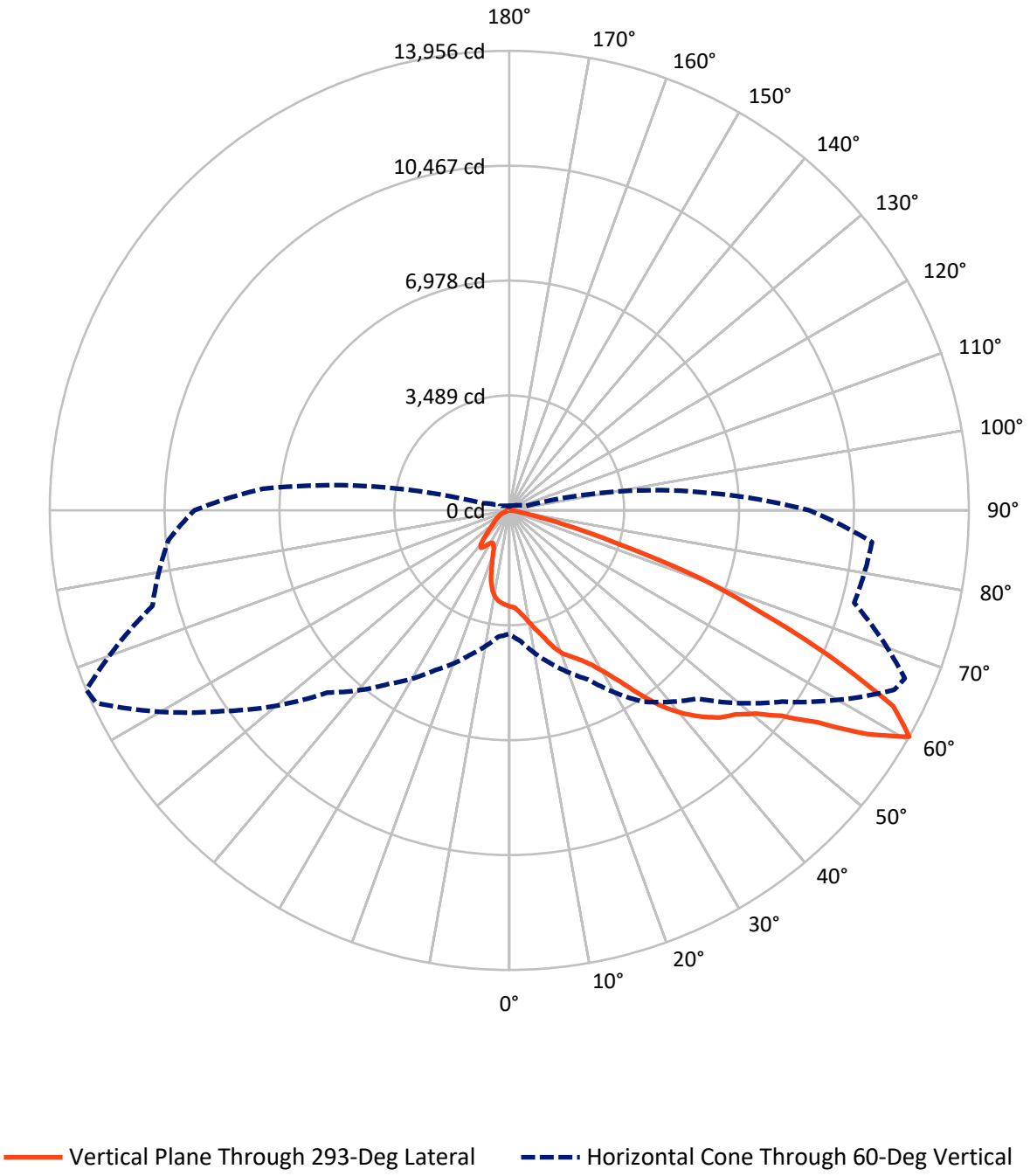
Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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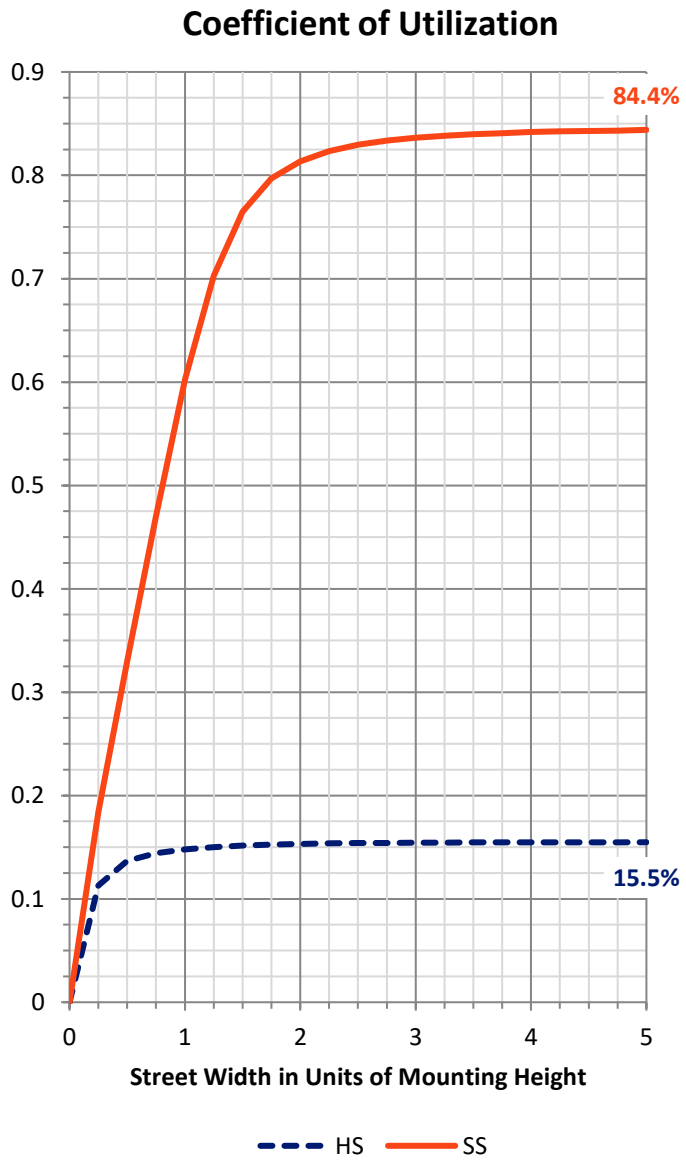
REPORT NUMBER: P1501962
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2655.6	0.0	2655.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	14364.7	0.0	14364.7
	% Fixture	84.4	0.0	84.4
Total	Lumens	17020.3	0.0	17020.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.6
10°-20°	665.3	3.9
20°-30°	1241.9	7.3
30°-40°	2462.8	14.5
40°-50°	3926.6	23.1
50°-60°	4691.2	27.6
60°-70°	3075.4	18.1
70°-80°	644.3	3.8
80°-90°	48.7	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°	17020.3	100.0
0°-180°	17020.3	100.0



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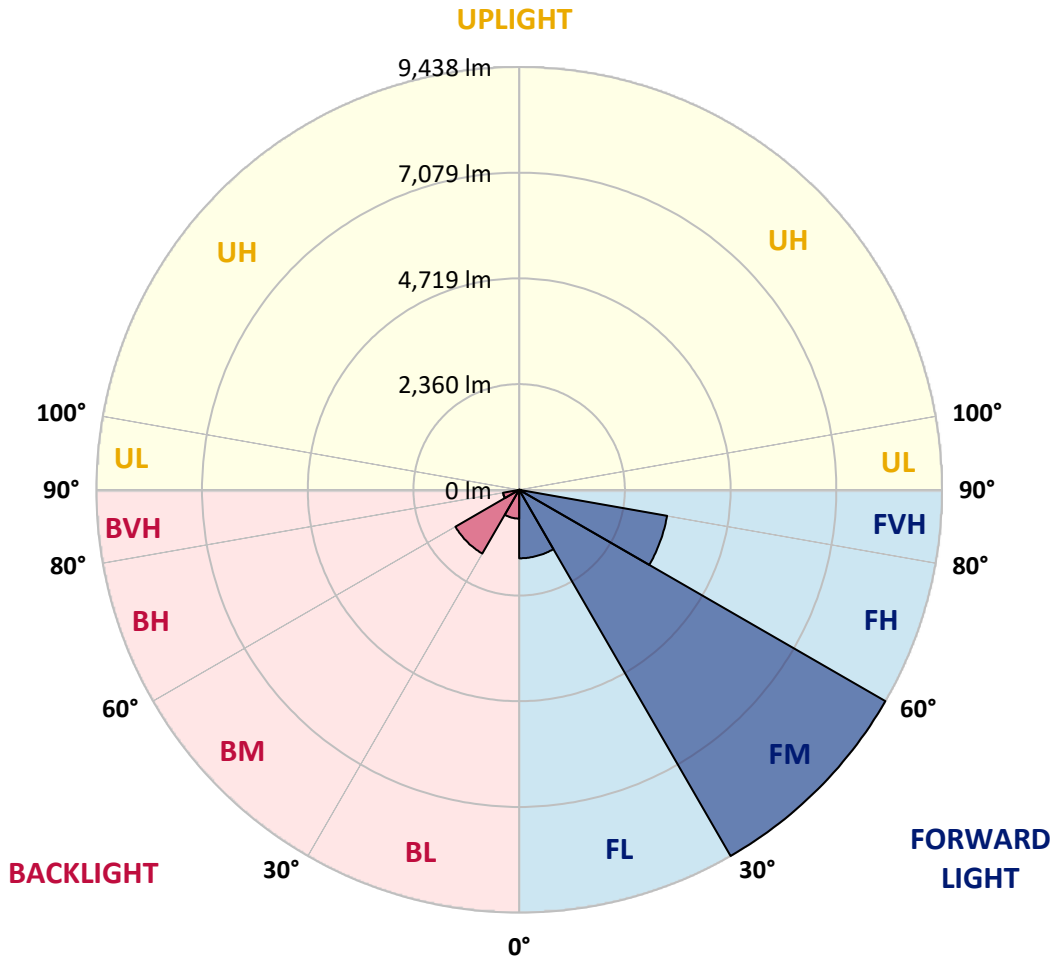
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1528.8	9.0			
FM	(30°-60°)	9438.4	55.5			
FH	(60°-80°)	3352.9	19.7			G2/5000
FVH	(80°-90°)	44.7	0.3			G1/100
BL	(0°-30°)	642.5	3.8	B2/1000		
BM	(30°-60°)	1642.2	9.6	B2/2500		
BH	(60°-80°)	366.8	2.2	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1
2.5°	3064.9	3055.3	3041.0	3045.8	3041.0	3022.0	2993.4	2969.5	2988.6	2960.0	2940.9
5°	3155.4	3155.4	3145.9	3145.9	3150.7	3141.1	3122.1	3088.7	3093.5	3069.6	3007.7
7.5°	3155.4	3141.1	3165.0	3188.8	3231.7	3255.5	3265.1	3246.0	3255.5	3207.9	3126.8
10°	2969.5	2960.0	3022.0	3112.5	3236.5	3346.1	3417.6	3422.3	3436.6	3389.0	3293.7
12.5°	2573.9	2554.8	2678.8	2850.4	3103.0	3355.6	3555.8	3632.1	3665.4	3646.4	3512.9
15°	2206.9	2230.7	2316.5	2502.4	2840.8	3226.9	3632.1	3884.7	3932.4	3956.2	3798.9
17.5°	2168.8	2173.5	2202.1	2292.7	2550.1	3017.2	3641.6	4146.9	4213.6	4318.4	4104.0
20°	2273.6	2264.1	2292.7	2321.3	2445.2	2831.3	3551.0	4399.5	4528.2	4752.2	4518.6
22.5°	2469.0	2469.0	2483.3	2502.4	2564.4	2817.0	3512.9	4633.0	4852.3	5309.9	5038.2
25°	2797.9	2759.8	2769.3	2745.5	2797.9	2988.6	3598.7	4818.9	5119.2	5929.5	5657.8
27.5°	3308.0	3322.2	3236.5	3107.8	3136.4	3298.4	3808.4	5028.7	5395.7	6573.0	6287.0
30°	4013.4	3989.6	3937.1	3684.5	3570.1	3713.1	4194.5	5371.8	5767.5	7388.1	7125.9
32.5°	4566.3	4633.0	4542.5	4366.1	4189.8	4232.7	4737.9	5924.8	6220.3	8136.4	7993.4
35°	5233.6	5233.6	5252.7	5004.8	4885.7	4876.1	5419.5	6525.3	6820.9	8813.3	8913.4
37.5°	6134.5	6072.5	5967.7	5691.2	5600.6	5719.8	6058.2	7145.0	7464.3	9361.4	9628.3
40°	6892.4	6935.3	6921.0	6520.6	6344.2	6472.9	6773.2	7674.1	7921.9	9714.1	10205.1
42.5°	7635.9	7659.8	7597.8	7407.1	7149.7	7159.3	7407.1	8074.4	8327.1	10052.5	10748.5
45°	8193.6	8188.8	8145.9	8098.3	7945.8	7788.5	7831.4	8517.7	8737.0	10162.2	11044.0
47.5°	8370.0	8408.1	8446.2	8579.7	8684.6	8436.7	8217.4	8756.1	8956.3	10143.1	11153.6
50°	8207.9	8288.9	8474.8	8675.0	9032.5	9013.4	8541.6	9013.4	9208.9	10248.0	11282.3
52.5°	7845.7	7926.7	8174.5	8536.8	9075.4	9342.3	9142.1	9447.2	9676.0	10514.9	11549.2
55°	7002.0	7035.4	7545.4	8022.0	8860.9	9199.3	9785.6	10181.2	10371.9	10839.0	11901.9
57.5°	5700.7	5781.8	6282.2	7059.2	8260.3	8822.8	10152.6	11434.8	11430.1	11148.8	11978.2
60°	*3751.2*	*3989.6*	*4804.6*	*5662.6*	*7097.3*	*8084.0*	*10128.8*	*12902.9*	*13050.7*	*10843.8*	*11058.3*
62.5°	2864.7	2964.8	3427.1	4142.1	5252.7	6701.7	9971.5	13341.4	13455.8	10023.9	9680.8
65°	2154.5	2278.4	2721.7	3360.4	3708.3	4542.5	8942.0	11596.9	11754.2	8946.7	7526.3
67.5°	1320.3	1420.4	2011.5	2759.8	2807.5	2821.8	6034.4	8784.7	8841.9	7216.5	5066.8
70°	881.8	981.9	1391.8	2121.1	2235.5	1625.4	3312.7	6649.3	6644.5	4938.1	3079.2
72.5°	510.0	557.7	881.8	1563.4	1758.8	1034.3	1654.0	4227.9	4042.0	2321.3	1439.5
75°	290.8	324.1	486.2	1005.7	1234.5	657.8	653.0	2264.1	2001.9	1196.4	786.5
77.5°	176.4	190.7	266.9	657.8	743.6	443.3	362.3	1053.4	1015.3	700.7	414.7
80°	85.8	100.1	162.1	386.1	476.6	238.3	219.3	414.7	443.3	386.1	219.3
82.5°	28.6	38.1	90.6	147.8	309.8	95.3	90.6	228.8	243.1	228.8	104.9
85°	14.3	19.1	42.9	47.7	119.2	47.7	33.4	100.1	123.9	76.3	42.9
87.5°	0.0	4.8	4.8	4.8	4.8	4.8	4.8	9.5	9.5	9.5	9.5
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°	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1
2.5°	2926.6	2917.1	2898.0	2864.7	2859.9	2836.1	2797.9	2774.1	2755.0	2769.3	2774.1
5°	2979.1	2955.2	2898.0	2807.5	2712.1	2616.8	2526.2	2421.4	2349.9	2340.4	2321.3
7.5°	3074.4	3026.7	2902.8	2726.4	2483.3	2254.6	1987.6	1730.2	1601.5	1582.5	1539.6
10°	3226.9	3145.9	2940.9	2583.4	2116.3	1639.7	1234.5	958.1	800.8	772.2	781.7
12.5°	3408.0	3293.7	2945.7	2340.4	1611.1	1015.3	700.7	595.8	562.4	548.1	548.1
15°	3641.6	3474.8	2940.9	2025.8	1086.8	653.0	562.4	519.5	505.2	495.7	495.7
17.5°	3937.1	3717.9	2907.6	1553.9	734.0	567.2	514.8	481.4	462.4	457.6	457.6
20°	4285.1	3989.6	2831.3	1158.3	614.9	529.1	486.2	443.3	429.0	419.5	419.5
22.5°	4728.4	4318.4	2683.5	900.9	581.5	505.2	457.6	409.9	395.6	386.1	386.1
25°	5243.1	4737.9	2488.1	810.3	576.7	486.2	429.0	381.3	367.0	362.3	357.5
27.5°	5853.3	5186.0	2307.0	815.1	586.3	471.9	400.4	357.5	343.2	328.9	333.7
30°	6573.0	5648.3	2159.2	872.3	595.8	457.6	381.3	343.2	328.9	309.8	309.8
32.5°	7283.2	6191.7	2144.9	977.1	629.2	448.1	362.3	324.1	309.8	295.5	295.5
35°	8012.5	6687.4	2226.0	1115.4	695.9	433.8	338.4	305.1	290.8	281.2	276.5
37.5°	8708.4	7083.0	2302.2	1201.2	657.8	371.8	309.8	281.2	266.9	247.9	247.9
40°	9170.7	7297.5	2316.5	1134.4	543.4	333.7	281.2	252.6	233.6	224.0	219.3
42.5°	9509.2	7435.7	2154.5	919.9	471.9	305.1	257.4	228.8	214.5	205.0	205.0
45°	9647.4	7388.1	1878.0	700.7	433.8	281.2	233.6	209.7	200.2	190.7	190.7
47.5°	9628.3	7168.8	1596.8	562.4	395.6	257.4	219.3	200.2	190.7	181.1	176.4
50°	9595.0	6963.9	1310.8	500.5	352.7	243.1	205.0	190.7	176.4	166.8	162.1
52.5°	9814.2	6897.1	1086.8	457.6	328.9	233.6	200.2	181.1	166.8	157.3	157.3
55°	10033.5	6925.7	853.2	429.0	305.1	228.8	195.4	176.4	162.1	147.8	147.8
57.5°	10019.2	6801.8	648.2	400.4	286.0	224.0	190.7	171.6	147.8	138.2	138.2
60°	*9108.8*	*6067.8*	*505.2*	*367.0*	*262.2*	*209.7*	*176.4*	*162.1*	*138.2*	*123.9*	*123.9*
62.5°	7702.7	4771.3	414.7	324.1	233.6	190.7	162.1	147.8	123.9	100.1	100.1
65°	5691.2	3441.4	333.7	281.2	214.5	166.8	147.8	128.7	100.1	81.0	76.3
67.5°	3851.3	2116.3	266.9	233.6	190.7	143.0	123.9	109.6	90.6	66.7	62.0
70°	2283.2	1124.9	195.4	162.1	143.0	104.9	104.9	95.3	76.3	57.2	52.4
72.5°	1086.8	390.9	143.0	119.2	109.6	76.3	81.0	81.0	62.0	42.9	38.1
75°	552.9	190.7	95.3	85.8	71.5	57.2	66.7	62.0	42.9	28.6	28.6
77.5°	314.6	133.5	66.7	57.2	47.7	38.1	42.9	38.1	23.8	14.3	14.3
80°	176.4	95.3	42.9	38.1	28.6	23.8	23.8	19.1	14.3	4.8	4.8
82.5°	66.7	57.2	28.6	19.1	14.3	14.3	9.5	9.5	4.8	0.0	0.0
85°	28.6	14.3	14.3	9.5	9.5	4.8	4.8	4.8	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	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°	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1
2.5°	2736.0	2745.5	2755.0	2793.2	2802.7	2831.3	2855.1	2883.7	2888.5	2926.6	2926.6
5°	2359.4	2354.7	2435.7	2554.8	2631.1	2736.0	2817.0	2902.8	2950.5	3012.4	3041.0
7.5°	1563.4	1682.6	1863.7	2073.4	2345.1	2597.7	2788.4	2955.2	3069.6	3141.1	3169.7
10°	776.9	843.7	1034.3	1377.5	1839.9	2354.7	2759.8	3069.6	3255.5	3336.5	3389.0
12.5°	548.1	562.4	595.8	781.7	1225.0	1954.3	2669.2	3193.6	3450.9	3603.5	3670.2
15°	490.9	500.5	514.8	567.2	757.9	1458.5	2507.2	3331.8	3756.0	3932.4	4018.2
17.5°	452.8	457.6	471.9	514.8	595.8	991.4	2245.0	3479.5	4123.0	4337.5	4499.6
20°	419.5	419.5	433.8	486.2	552.9	762.6	1868.5	3646.4	4590.1	4900.0	5062.0
22.5°	381.3	390.9	400.4	457.6	538.6	695.9	1515.7	3775.1	5109.7	5486.2	5676.9
25°	352.7	362.3	371.8	429.0	524.3	695.9	1310.8	3856.1	5691.2	6139.3	6401.4
27.5°	328.9	338.4	352.7	409.9	510.0	724.5	1229.8	3879.9	6325.1	6906.7	7259.4
30°	309.8	319.4	333.7	395.6	519.5	757.9	1258.4	3846.6	6968.6	7697.9	8117.3
32.5°	290.8	300.3	314.6	381.3	519.5	800.8	1353.7	3779.8	7593.0	8489.1	9003.9
35°	276.5	281.2	286.0	343.2	471.9	796.0	1472.8	3713.1	8222.2	9270.8	9871.4
37.5°	247.9	252.6	262.2	295.5	376.6	724.5	1496.7	3632.1	8717.9	9928.6	10591.2
40°	219.3	228.8	238.3	271.7	314.6	586.3	1391.8	3460.5	8980.1	10433.9	11239.4
42.5°	200.2	205.0	214.5	247.9	290.8	467.1	1167.8	3160.2	9213.6	10777.1	11711.3
45°	185.9	190.7	200.2	224.0	271.7	405.2	919.9	2793.2	9232.7	10886.7	11940.1
47.5°	171.6	176.4	181.1	205.0	262.2	362.3	705.4	2459.5	9227.9	11029.7	12135.5
50°	162.1	166.8	176.4	195.4	247.9	324.1	581.5	2187.8	9428.1	11339.5	12531.1
52.5°	157.3	157.3	171.6	190.7	233.6	295.5	486.2	1944.7	9533.0	11644.6	12817.1
55°	147.8	152.5	162.1	181.1	219.3	281.2	414.7	1639.7	9580.7	11797.1	12869.5
57.5°	138.2	143.0	157.3	171.6	209.7	266.9	357.5	1225.0	8899.1	11001.1	11992.5
60°	*123.9*	*133.5*	*152.5*	*166.8*	*195.4*	*243.1*	*314.6*	*829.4*	*7507.2*	*9561.6*	*10391.0*
62.5°	100.1	119.2	138.2	147.8	176.4	205.0	266.9	552.9	5996.3	7912.4	8856.2
65°	76.3	100.1	114.4	128.7	147.8	171.6	224.0	376.6	3999.1	5324.2	6387.1
67.5°	66.7	85.8	95.3	104.9	123.9	147.8	181.1	262.2	2426.1	3198.3	4247.0
70°	52.4	71.5	81.0	76.3	95.3	114.4	128.7	176.4	1239.3	1735.0	2416.6
72.5°	38.1	57.2	62.0	62.0	57.2	81.0	95.3	123.9	538.6	843.7	1096.3
75°	28.6	38.1	42.9	38.1	33.4	52.4	66.7	81.0	352.7	505.2	638.7
77.5°	14.3	14.3	23.8	23.8	14.3	28.6	33.4	47.7	200.2	295.5	367.0
80°	4.8	0.0	0.0	4.8	0.0	9.5	14.3	23.8	104.9	157.3	228.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	52.4	47.7	119.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	28.6
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: P1501962
CATALOG NUMBER: GSS-SB4B-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2917.1	*2917.1*	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1	2917.1
2.5°	2950.5	*2950.5*	2969.5	2998.1	3012.4	3022.0	3026.7	3036.3	3074.4	3064.9
5°	3074.4	*3083.9*	3098.2	3126.8	3160.2	3150.7	3150.7	3150.7	3174.5	3155.4
7.5°	3236.5	*3265.1*	3269.8	3303.2	3279.4	3231.7	3203.1	3160.2	3155.4	3155.4
10°	3498.6	*3489.1*	3489.1	3446.2	3360.4	3222.2	3098.2	3012.4	2964.8	2969.5
12.5°	3779.8	*3741.7*	3746.5	3589.2	3346.1	3041.0	2788.4	2602.5	2588.2	2573.9
15°	4127.8	*4027.7*	4008.6	3646.4	3131.6	2664.5	2416.6	2268.9	2221.2	2206.9
17.5°	4623.5	*4370.9*	4280.3	3546.3	2850.4	2430.9	2245.0	2178.3	2173.5	2168.8
20°	5147.8	*4647.3*	4475.7	3398.5	2755.0	2435.7	2297.5	2278.4	2268.9	2273.6
22.5°	5757.9	*4823.7*	4604.4	3422.3	2840.8	2593.0	2483.3	2469.0	2459.5	2469.0
25°	6387.1	*5028.7*	4757.0	3613.0	3098.2	2883.7	2755.0	2726.4	2755.0	2797.9
27.5°	7021.1	*5305.1*	5057.3	3989.6	3512.9	3279.4	3155.4	3260.3	3303.2	3308.0
30°	7583.5	*5691.2*	5462.4	4518.6	3984.8	3751.2	3775.1	3908.5	3961.0	4013.4
32.5°	8098.3	*6206.0*	6029.6	5119.2	4594.9	4456.7	4442.4	4542.5	4599.7	4566.3
35°	8617.8	*6878.1*	6706.5	5772.2	5343.2	5228.8	5109.7	5305.1	5286.0	5233.6
37.5°	9108.8	*7554.9*	7397.6	6472.9	6029.6	5829.4	5810.4	5986.7	6144.0	6134.5
40°	9461.5	*8103.0*	7912.4	7168.8	6749.4	6577.8	6677.9	6982.9	6944.8	6892.4
42.5°	9785.6	*8570.2*	8398.6	7778.9	7340.4	7416.7	7507.2	7712.2	7688.4	7635.9
45°	9938.1	*8970.6*	8822.8	8241.3	8026.8	8269.9	8265.1	8341.4	8212.7	8193.6
47.5°	10152.6	*9256.5*	9104.0	8656.0	8846.6	8946.7	8665.5	8584.5	8465.3	8370.0
50°	10548.3	*9699.8*	9547.3	9285.1	9447.2	9137.4	8794.2	8617.8	8374.7	8207.9
52.5°	11010.6	*10371.9*	10238.4	10133.6	9680.8	9042.0	8603.5	8284.2	7988.7	7845.7
55°	11592.1	*11363.3*	11268.0	10691.3	9471.0	8651.2	8136.4	7540.6	7135.4	7002.0
57.5°	11782.8	*12817.1*	12783.7	10781.8	8884.8	7941.0	7011.5	6206.0	5786.5	5700.7
60°	*11220.3*	*13956.3*	*13837.1*	*10629.3*	*7821.8*	*6444.3*	*5357.5*	*4532.9*	*3851.3*	*3751.2*
62.5°	10500.6	*13084.0*	13041.1	9861.9	5958.1	4618.7	4003.9	3231.7	2940.9	2864.7
65°	8994.4	*10705.6*	10724.6	7912.4	3770.3	3317.5	3288.9	2569.1	2211.7	2154.5
67.5°	6925.7	*8212.7*	8079.2	4976.2	2197.4	2654.9	2626.3	1878.0	1358.5	1320.3
70°	4046.8	*6115.4*	5900.9	2588.2	1453.8	2216.4	2021.0	1320.3	924.7	881.8
72.5°	1787.4	*3365.1*	3613.0	1139.2	1024.8	1763.6	1458.5	810.3	519.5	510.0
75°	991.4	*1668.3*	1744.5	495.7	719.7	1253.6	881.8	452.8	295.5	290.8
77.5°	595.8	*738.8*	719.7	319.4	538.6	800.8	533.8	257.4	185.9	176.4
80°	333.7	*338.4*	286.0	233.6	319.4	448.1	300.3	162.1	85.8	85.8
82.5°	205.0	*185.9*	147.8	71.5	85.8	271.7	109.6	90.6	28.6	28.6
85°	85.8	*57.2*	38.1	14.3	33.4	71.5	38.1	42.9	14.3	14.3
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

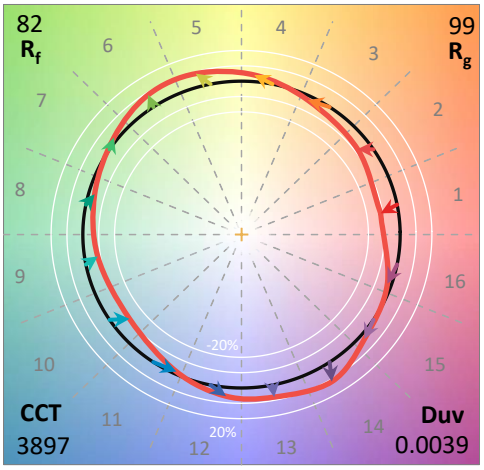
Test Information

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

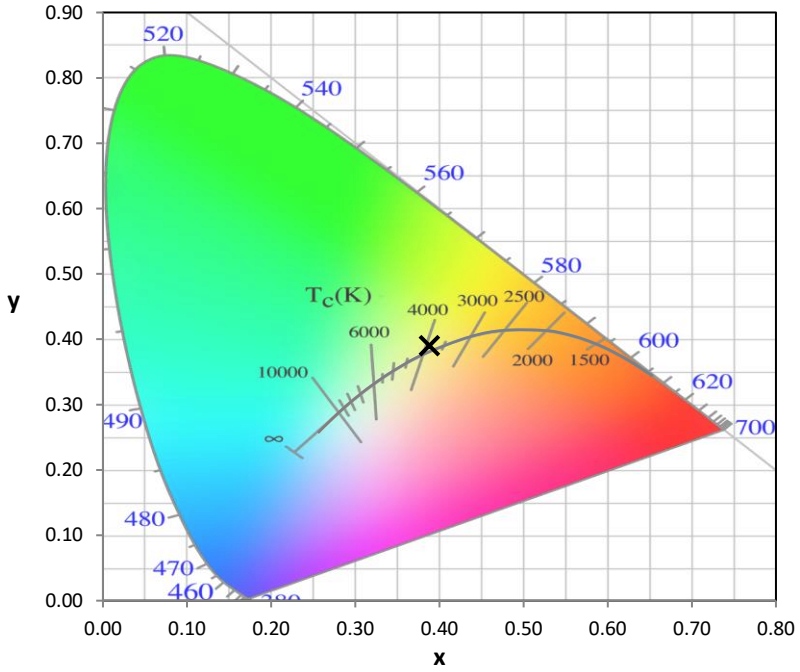
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

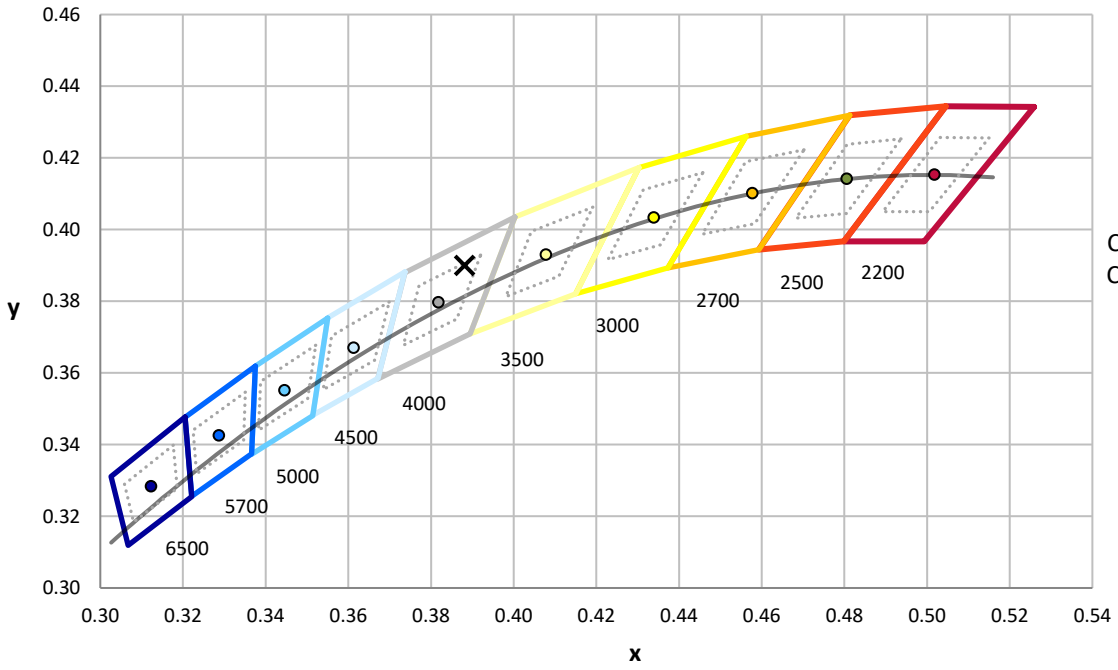
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

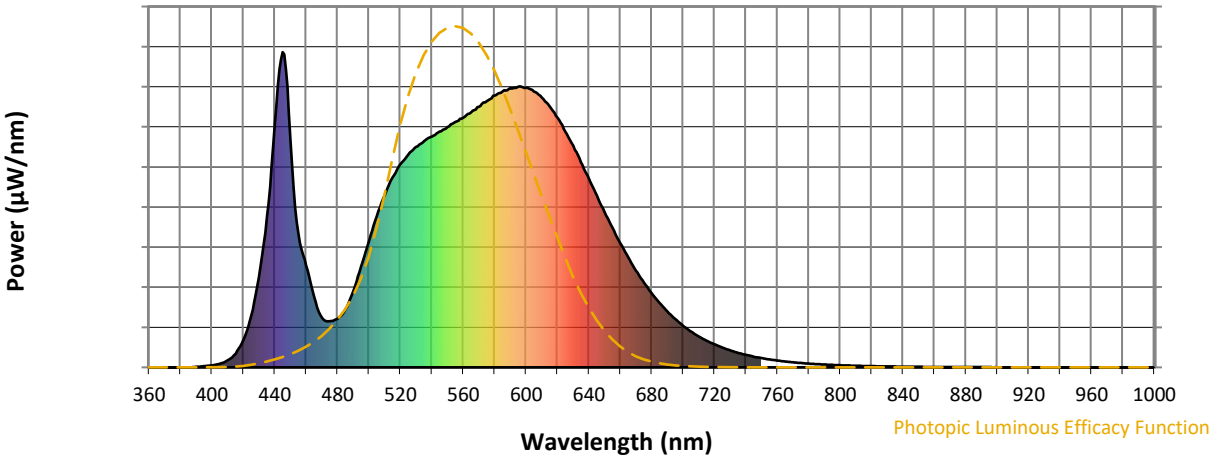


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

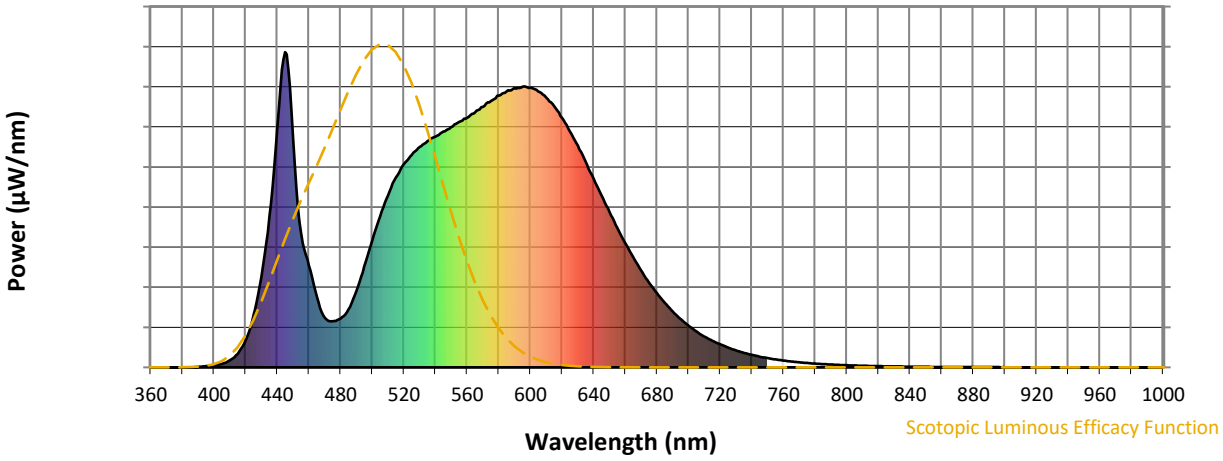


Photopic Lumens: NR

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

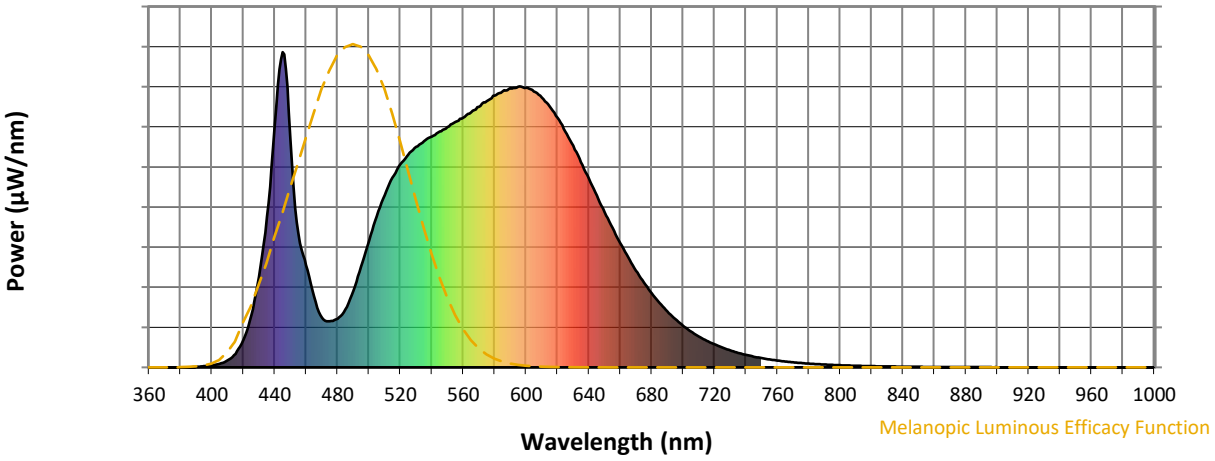


Scotopic Lumens: NR **S/P: 1.57**

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			

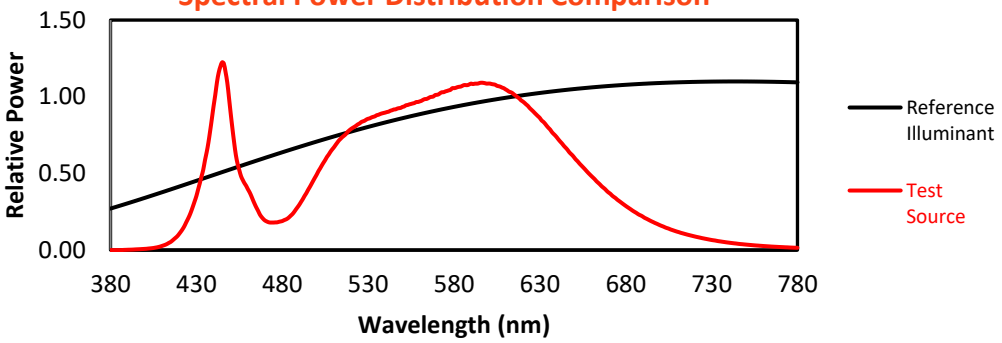
REPORT NUMBER: SP1-2407-184-11

TM-30-18

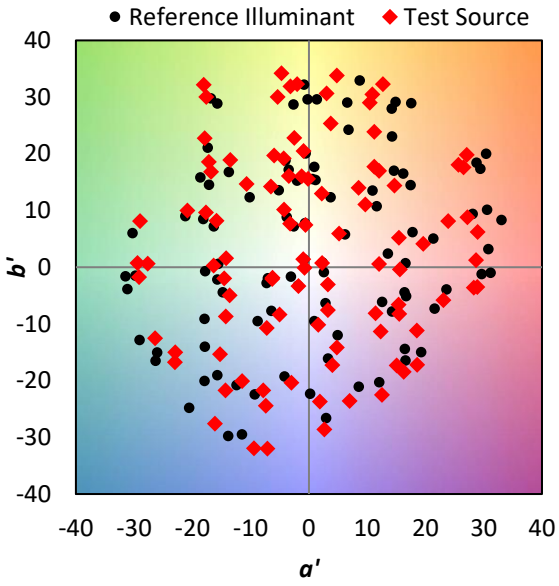
Summary

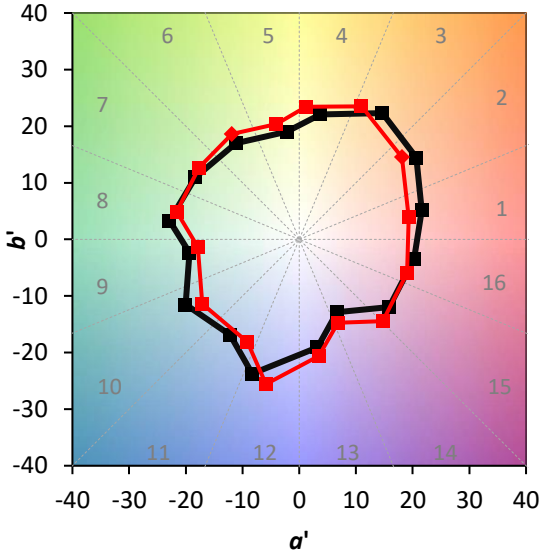
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

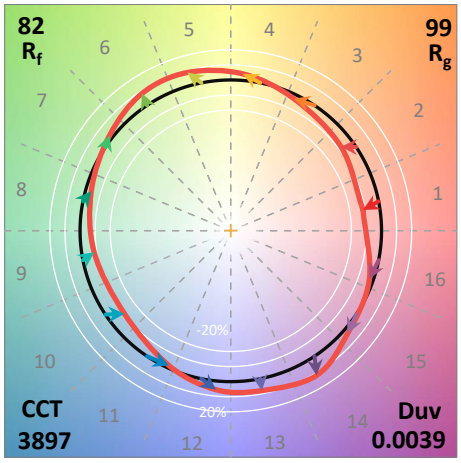
Spectral Power Distribution Comparison

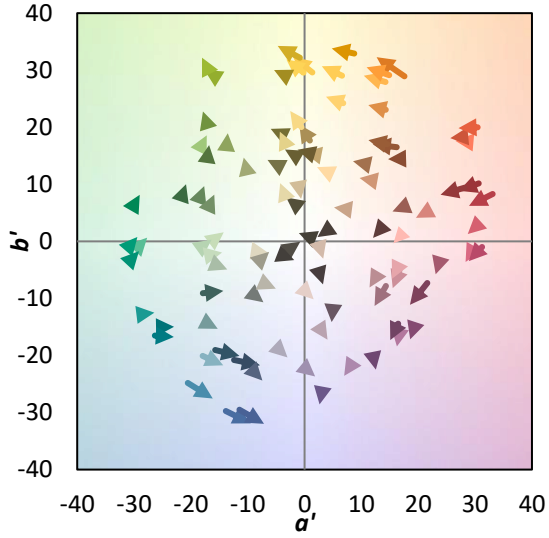


Color Vector Graphics







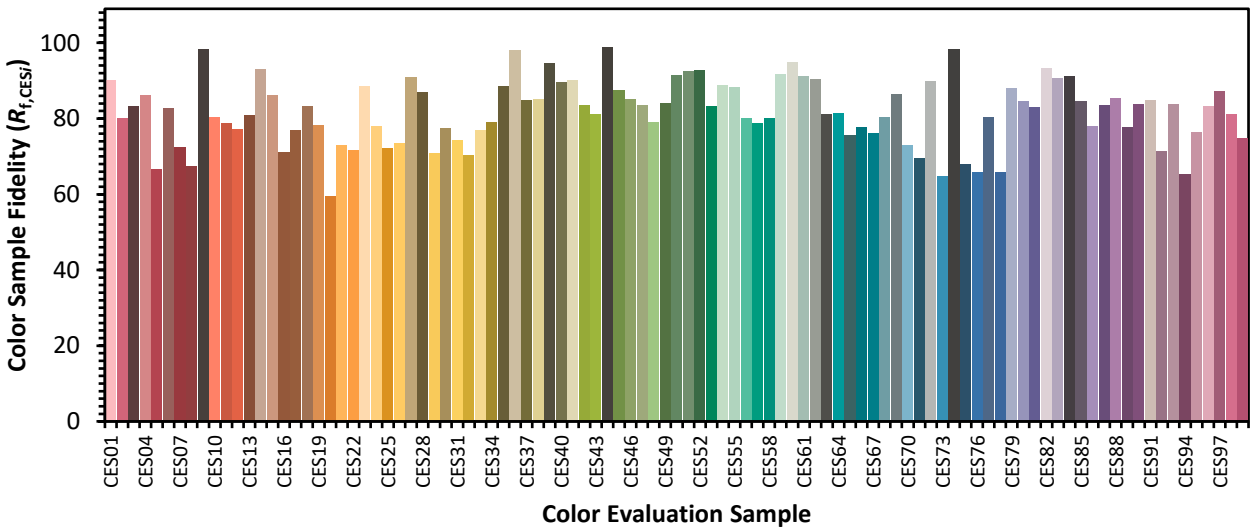


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Individual Sample Fidelity Index ($R_{f,i}$)

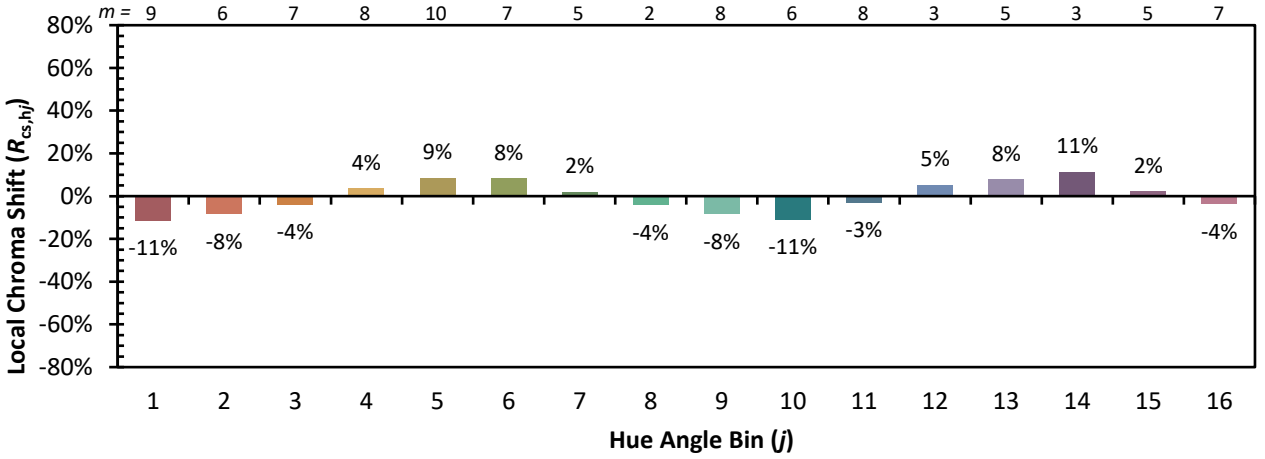
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 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	

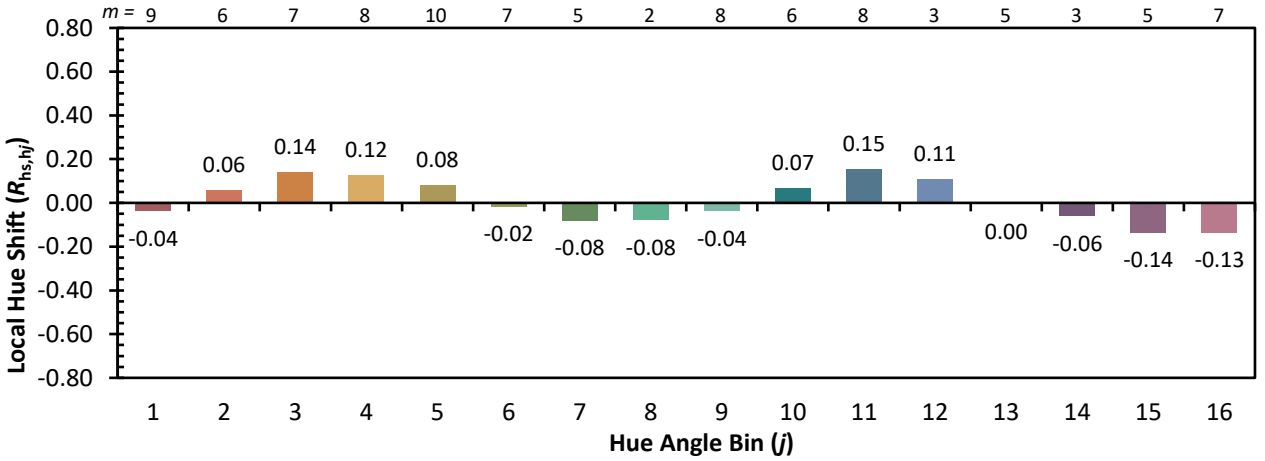


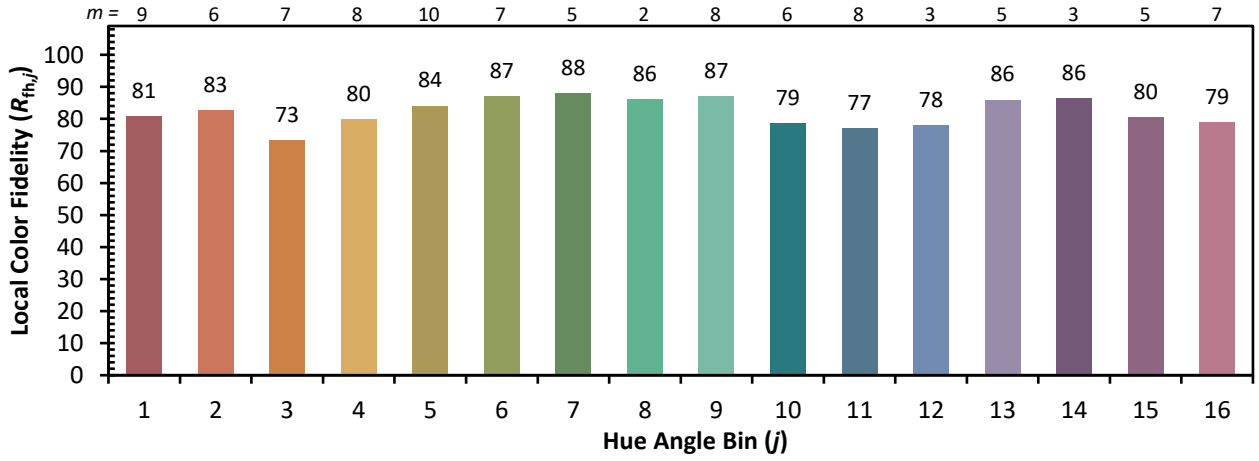
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Color Rendition by Hue-Angle Bin



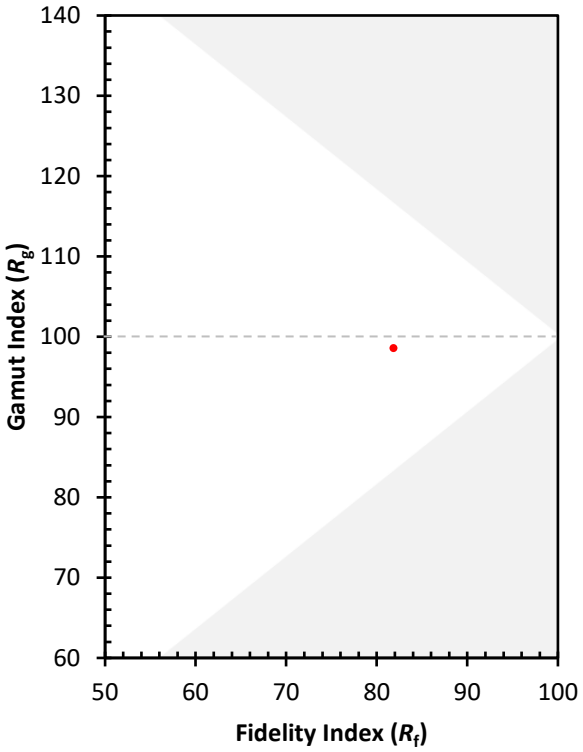


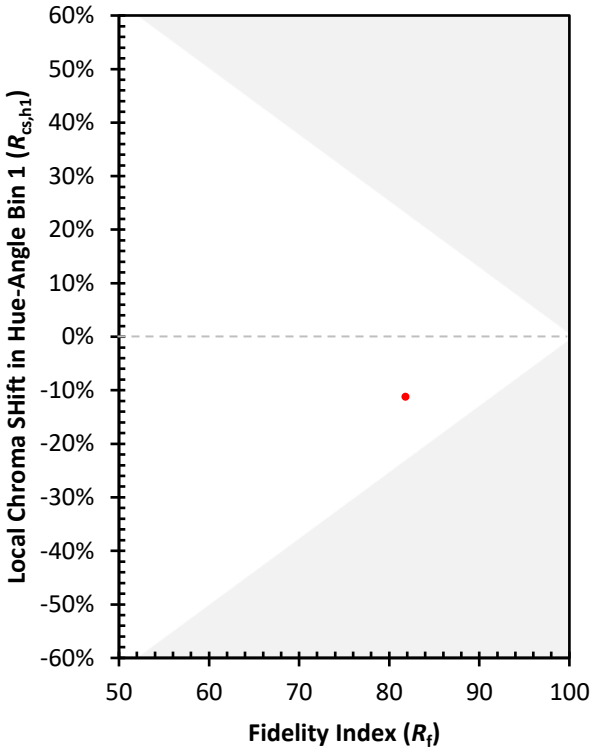


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Measure Comparisons





(END OF REPORT)