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: P1501969

Luminaire Tested: GSS-SB6A-840-U-T2LG-HSS

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:	P1501969
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6A-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 170W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(156) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20263.4 lumens
Efficiency:	N/A
Efficacy:	119.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

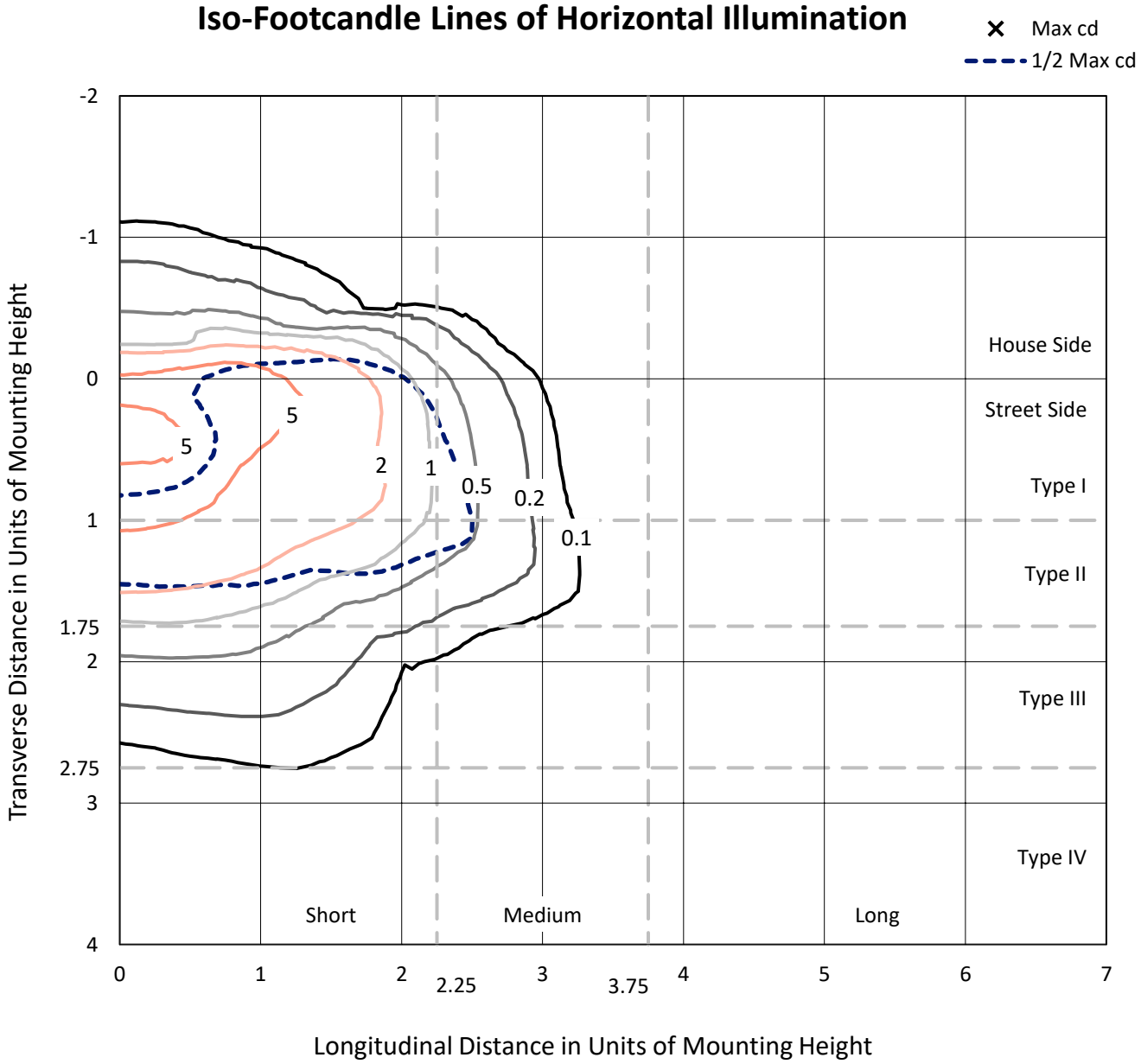
Input Watts (W):	170
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	12.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



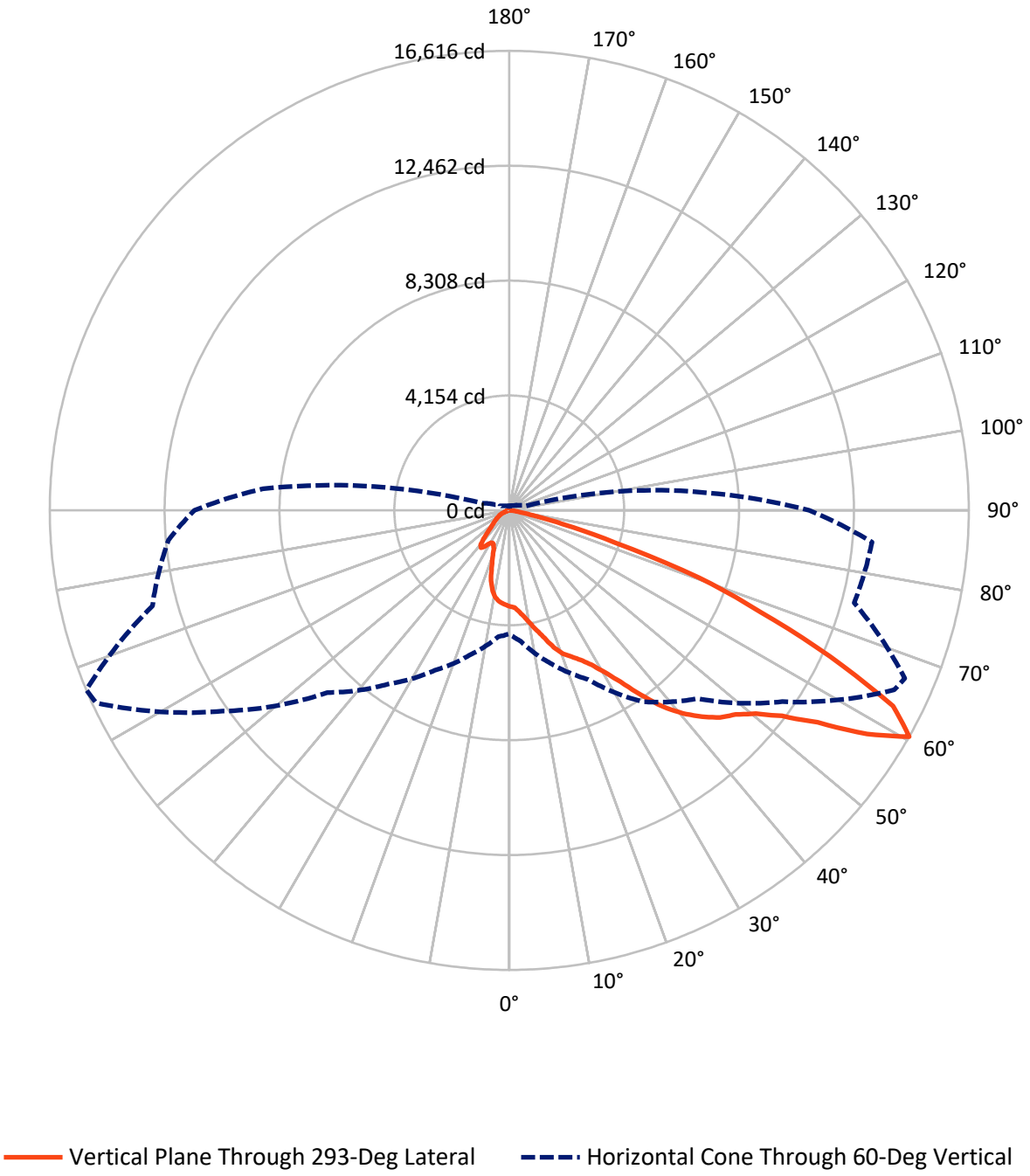
Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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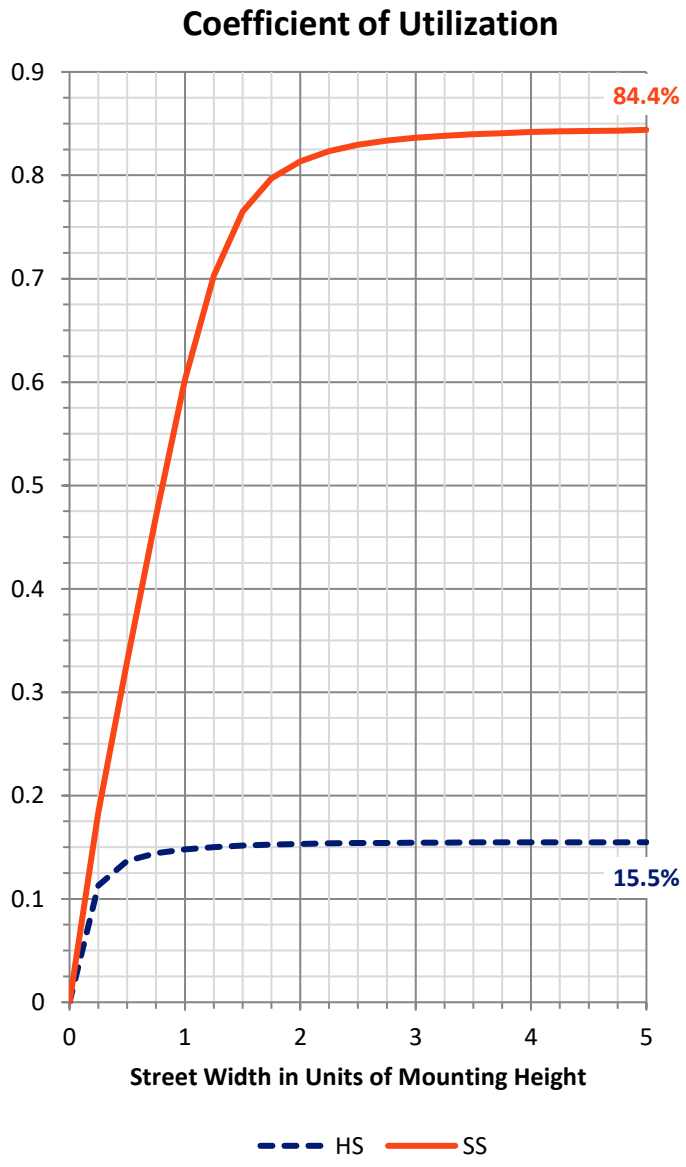
REPORT NUMBER: P1501969
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3161.6	0.0	3161.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	17101.8	0.0	17101.8
	% Fixture	84.4	0.0	84.4
Total	Lumens	20263.4	0.0	20263.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.6
10°-20°	792.0	3.9
20°-30°	1478.5	7.3
30°-40°	2932.0	14.5
40°-50°	4674.7	23.1
50°-60°	5585.1	27.6
60°-70°	3661.4	18.1
70°-80°	767.1	3.8
80°-90°	58.0	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°	20263.4	100.0
0°-180°	20263.4	100.0



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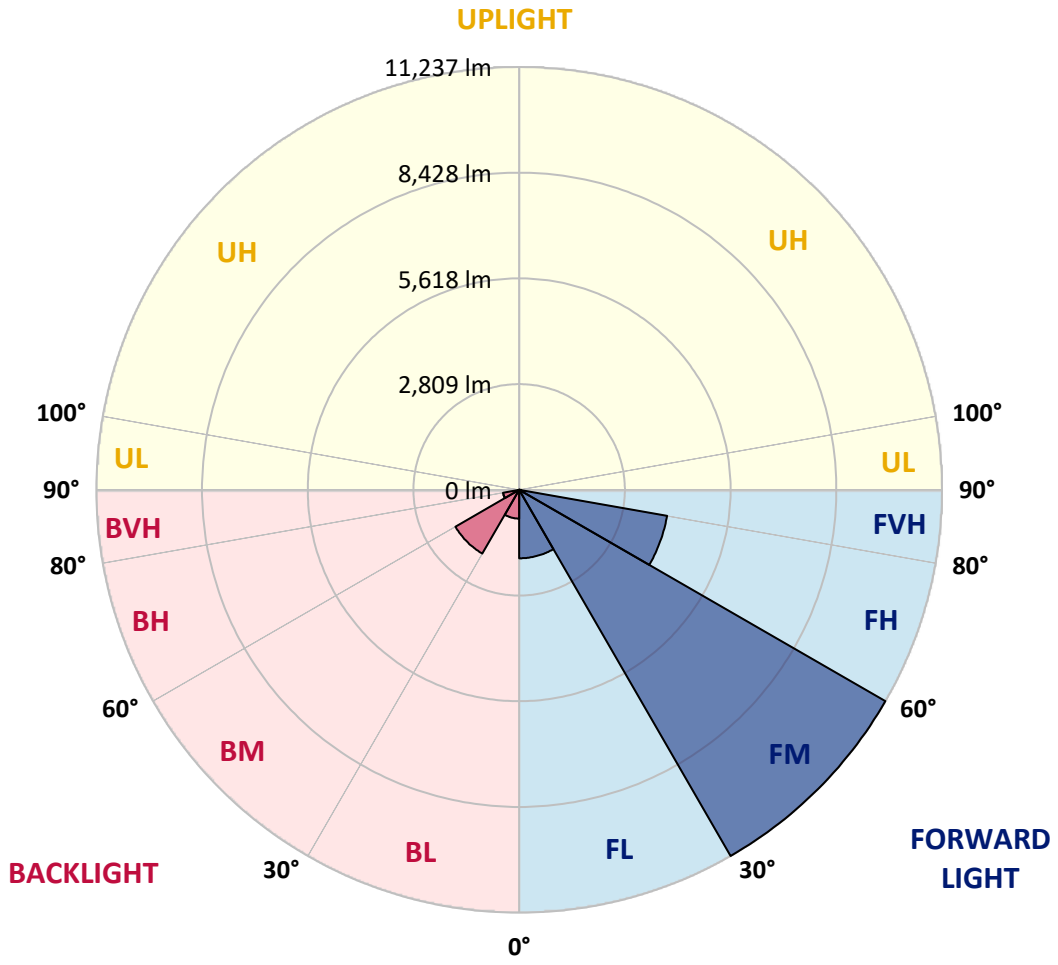
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1820.1	9.0			
FM	(30°-60°)	11236.8	55.5			
FH	(60°-80°)	3991.8	19.7			G2/5000
FVH	(80°-90°)	53.2	0.3			G1/100
BL	(0°-30°)	764.9	3.8	B2/1000		
BM	(30°-60°)	1955.1	9.6	B2/2500		
BH	(60°-80°)	436.7	2.2	B1/500		G1/500
BVH	(80°-90°)	4.9	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°	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9
2.5°	3648.9	3637.5	3620.5	3626.2	3620.5	3597.8	3563.7	3535.4	3558.1	3524.0	3501.3
5°	3756.7	3756.7	3745.3	3745.3	3751.0	3739.7	3717.0	3677.2	3682.9	3654.5	3580.8
7.5°	3756.7	3739.7	3768.0	3796.4	3847.5	3875.8	3887.2	3864.5	3875.8	3819.1	3722.6
10°	3535.4	3524.0	3597.8	3705.6	3853.1	3983.7	4068.8	4074.5	4091.5	4034.7	3921.2
12.5°	3064.4	3041.7	3189.2	3393.5	3694.3	3995.0	4233.4	4324.2	4363.9	4341.2	4182.3
15°	2627.4	2655.8	2757.9	2979.2	3382.1	3841.8	4324.2	4624.9	4681.7	4710.0	4522.8
17.5°	2582.0	2587.7	2621.7	2729.5	3036.0	3592.1	4335.5	4937.0	5016.5	5141.3	4885.9
20°	2706.9	2695.5	2729.5	2763.6	2911.1	3370.8	4227.7	5237.8	5391.0	5657.7	5379.7
22.5°	2939.5	2939.5	2956.5	2979.2	3053.0	3353.8	4182.3	5515.8	5776.9	6321.7	5998.2
25°	3331.1	3285.7	3297.0	3268.6	3331.1	3558.1	4284.4	5737.2	6094.7	7059.4	6735.9
27.5°	3938.3	3955.3	3853.1	3699.9	3734.0	3926.9	4534.1	5986.8	6423.8	7825.5	7485.0
30°	4778.1	4749.8	4687.3	4386.6	4250.4	4420.6	4993.8	6395.4	6866.4	8795.8	8483.7
32.5°	5436.4	5515.8	5408.0	5198.1	4988.1	5039.2	5640.7	7053.7	7405.5	9686.8	9516.5
35°	6230.9	6230.9	6253.6	5958.5	5816.6	5805.3	6452.2	7768.7	8120.6	10492.6	10611.8
37.5°	7303.4	7229.6	7104.8	6775.6	6667.8	6809.7	7212.6	8506.4	8886.6	11145.2	11463.0
40°	8205.7	8256.7	8239.7	7763.0	7553.1	7706.3	8063.8	9136.3	9431.4	11565.1	12149.6
42.5°	9090.9	9119.3	9045.5	8818.5	8512.1	8523.5	8818.5	9613.0	9913.8	11968.0	12796.5
45°	9754.9	9749.2	9698.1	9641.4	9459.8	9272.5	9323.6	10140.8	10401.8	12098.5	13148.4
47.5°	9964.8	10010.2	10055.6	10214.5	10339.4	10044.3	9783.2	10424.5	10662.8	12075.8	13278.9
50°	9771.9	9868.4	10089.7	10328.0	10753.6	10730.9	10169.1	10730.9	10963.6	12200.7	13432.1
52.5°	9340.6	9437.1	9732.2	10163.5	10804.7	11122.5	10884.1	11247.3	11519.7	12518.5	13749.9
55°	8336.2	8375.9	8983.1	9550.6	10549.3	10952.2	11650.2	12121.2	12348.2	12904.4	14169.8
57.5°	6787.0	6883.5	7479.3	8404.3	9834.3	10503.9	12087.2	13613.7	13608.0	13273.2	14260.6
60°	*4466.0*	*4749.8*	*5720.1*	*6741.6*	*8449.7*	*9624.4*	*12058.8*	*15361.5*	*15537.4*	*12910.0*	*13165.4*
62.5°	3410.5	3529.7	4080.1	4931.3	6253.6	7978.7	11871.6	15883.6	16019.8	11934.0	11525.4
65°	2565.0	2712.5	3240.3	4000.7	4414.9	5408.0	10645.8	13806.6	13993.9	10651.5	8960.4
67.5°	1571.9	1691.1	2394.7	3285.7	3342.4	3359.4	7184.2	10458.5	10526.6	8591.6	6032.2
70°	1049.8	1169.0	1657.0	2525.3	2661.5	1935.1	3943.9	7916.3	7910.6	5879.0	3665.9
72.5°	607.2	663.9	1049.8	1861.3	2094.0	1231.4	1969.1	5033.5	4812.2	2763.6	1713.8
75°	346.2	385.9	578.8	1197.4	1469.8	783.1	777.4	2695.5	2383.4	1424.4	936.3
77.5°	210.0	227.0	317.8	783.1	885.3	527.8	431.3	1254.1	1208.7	834.2	493.7
80°	102.1	119.2	192.9	459.7	567.5	283.7	261.0	493.7	527.8	459.7	261.0
82.5°	34.0	45.4	107.8	175.9	368.9	113.5	107.8	272.4	289.4	272.4	124.8
85°	17.0	22.7	51.1	56.7	141.9	56.7	39.7	119.2	147.5	90.8	51.1
87.5°	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.3	11.3	11.3	11.3
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°	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9
2.5°	3484.3	3472.9	3450.2	3410.5	3404.8	3376.5	3331.1	3302.7	3280.0	3297.0	3302.7
5°	3546.7	3518.3	3450.2	3342.4	3228.9	3115.4	3007.6	2882.8	2797.6	2786.3	2763.6
7.5°	3660.2	3603.5	3455.9	3246.0	2956.5	2684.2	2366.4	2059.9	1906.7	1884.0	1832.9
10°	3841.8	3745.3	3501.3	3075.7	2519.6	1952.1	1469.8	1140.6	953.4	919.3	930.7
12.5°	4057.4	3921.2	3507.0	2786.3	1918.1	1208.7	834.2	709.3	669.6	652.6	652.6
15°	4335.5	4136.9	3501.3	2411.8	1293.8	777.4	669.6	618.5	601.5	590.2	590.2
17.5°	4687.3	4426.3	3461.6	1850.0	873.9	675.3	612.9	573.1	550.4	544.8	544.8
20°	5101.6	4749.8	3370.8	1379.0	732.0	629.9	578.8	527.8	510.7	499.4	499.4
22.5°	5629.3	5141.3	3194.9	1072.5	692.3	601.5	544.8	488.0	471.0	459.7	459.7
25°	6242.2	5640.7	2962.2	964.7	686.6	578.8	510.7	454.0	437.0	431.3	425.6
27.5°	6968.6	6174.1	2746.6	970.4	698.0	561.8	476.7	425.6	408.6	391.6	397.2
30°	7825.5	6724.6	2570.7	1038.5	709.3	544.8	454.0	408.6	391.6	368.9	368.9
32.5°	8671.0	7371.5	2553.6	1163.3	749.1	533.4	431.3	385.9	368.9	351.8	351.8
35°	9539.2	7961.7	2650.1	1327.9	828.5	516.4	402.9	363.2	346.2	334.8	329.1
37.5°	10367.7	8432.7	2740.9	1430.0	783.1	442.6	368.9	334.8	317.8	295.1	295.1
40°	10918.2	8688.0	2757.9	1350.6	646.9	397.2	334.8	300.8	278.1	266.7	261.0
42.5°	11321.1	8852.6	2565.0	1095.2	561.8	363.2	306.4	272.4	255.4	244.0	244.0
45°	11485.7	8795.8	2235.8	834.2	516.4	334.8	278.1	249.7	238.3	227.0	227.0
47.5°	11463.0	8534.8	1901.0	669.6	471.0	306.4	261.0	238.3	227.0	215.6	210.0
50°	11423.2	8290.8	1560.6	595.8	419.9	289.4	244.0	227.0	210.0	198.6	192.9
52.5°	11684.3	8211.3	1293.8	544.8	391.6	278.1	238.3	215.6	198.6	187.3	187.3
55°	11945.3	8245.4	1015.8	510.7	363.2	272.4	232.7	210.0	192.9	175.9	175.9
57.5°	11928.3	8097.9	771.8	476.7	340.5	266.7	227.0	204.3	175.9	164.6	164.6
60°	*10844.4*	*7223.9*	*601.5*	*437.0*	*312.1*	*249.7*	*210.0*	*192.9*	*164.6*	*147.5*	*147.5*
62.5°	9170.4	5680.4	493.7	385.9	278.1	227.0	192.9	175.9	147.5	119.2	119.2
65°	6775.6	4097.2	397.2	334.8	255.4	198.6	175.9	153.2	119.2	96.5	90.8
67.5°	4585.2	2519.6	317.8	278.1	227.0	170.2	147.5	130.5	107.8	79.4	73.8
70°	2718.2	1339.2	232.7	192.9	170.2	124.8	124.8	113.5	90.8	68.1	62.4
72.5°	1293.8	465.3	170.2	141.9	130.5	90.8	96.5	96.5	73.8	51.1	45.4
75°	658.3	227.0	113.5	102.1	85.1	68.1	79.4	73.8	51.1	34.0	34.0
77.5°	374.5	158.9	79.4	68.1	56.7	45.4	51.1	45.4	28.4	17.0	17.0
80°	210.0	113.5	51.1	45.4	34.0	28.4	28.4	22.7	17.0	5.7	5.7
82.5°	79.4	68.1	34.0	22.7	17.0	17.0	11.3	11.3	5.7	0.0	0.0
85°	34.0	17.0	17.0	11.3	11.3	5.7	5.7	5.7	0.0	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	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°	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9
2.5°	3257.3	3268.6	3280.0	3325.4	3336.7	3370.8	3399.2	3433.2	3438.9	3484.3	3484.3
5°	2809.0	2803.3	2899.8	3041.7	3132.5	3257.3	3353.8	3455.9	3512.7	3586.4	3620.5
7.5°	1861.3	2003.2	2218.8	2468.5	2792.0	3092.7	3319.7	3518.3	3654.5	3739.7	3773.7
10°	925.0	1004.4	1231.4	1640.0	2190.4	2803.3	3285.7	3654.5	3875.8	3972.3	4034.7
12.5°	652.6	669.6	709.3	930.7	1458.4	2326.6	3177.9	3802.1	4108.5	4290.1	4369.5
15°	584.5	595.8	612.9	675.3	902.3	1736.5	2984.9	3966.6	4471.7	4681.7	4783.8
17.5°	539.1	544.8	561.8	612.9	709.3	1180.3	2672.8	4142.6	4908.6	5164.0	5357.0
20°	499.4	499.4	516.4	578.8	658.3	908.0	2224.5	4341.2	5464.8	5833.6	6026.6
22.5°	454.0	465.3	476.7	544.8	641.2	828.5	1804.6	4494.4	6083.3	6531.6	6758.6
25°	419.9	431.3	442.6	510.7	624.2	828.5	1560.6	4590.9	6775.6	7309.1	7621.2
27.5°	391.6	402.9	419.9	488.0	607.2	862.6	1464.1	4619.2	7530.4	8222.7	8642.6
30°	368.9	380.2	397.2	471.0	618.5	902.3	1498.1	4579.5	8296.5	9164.7	9664.1
32.5°	346.2	357.5	374.5	454.0	618.5	953.4	1611.6	4500.1	9039.9	10106.7	10719.6
35°	329.1	334.8	340.5	408.6	561.8	947.7	1753.5	4420.6	9788.9	11037.4	11752.4
37.5°	295.1	300.8	312.1	351.8	448.3	862.6	1781.9	4324.2	10379.1	11820.5	12609.3
40°	261.0	272.4	283.7	323.5	374.5	698.0	1657.0	4119.9	10691.2	12422.0	13381.0
42.5°	238.3	244.0	255.4	295.1	346.2	556.1	1390.3	3762.4	10969.3	12830.6	13942.8
45°	221.3	227.0	238.3	266.7	323.5	482.4	1095.2	3325.4	10992.0	12961.1	14215.2
47.5°	204.3	210.0	215.6	244.0	312.1	431.3	839.9	2928.2	10986.3	13131.3	14447.9
50°	192.9	198.6	210.0	232.7	295.1	385.9	692.3	2604.7	11224.6	13500.2	14918.9
52.5°	187.3	187.3	204.3	227.0	278.1	351.8	578.8	2315.3	11349.5	13863.4	15259.4
55°	175.9	181.6	192.9	215.6	261.0	334.8	493.7	1952.1	11406.2	14045.0	15321.8
57.5°	164.6	170.2	187.3	204.3	249.7	317.8	425.6	1458.4	10594.7	13097.3	14277.6
60°	*147.5*	*158.9*	*181.6*	*198.6*	*232.7*	*289.4*	*374.5*	*987.4*	*8937.7*	*11383.5*	*12370.9*
62.5°	119.2	141.9	164.6	175.9	210.0	244.0	317.8	658.3	7138.8	9420.1	10543.7
65°	90.8	119.2	136.2	153.2	175.9	204.3	266.7	448.3	4761.1	6338.7	7604.1
67.5°	79.4	102.1	113.5	124.8	147.5	175.9	215.6	312.1	2888.4	3807.7	5056.2
70°	62.4	85.1	96.5	90.8	113.5	136.2	153.2	210.0	1475.4	2065.6	2877.1
72.5°	45.4	68.1	73.8	73.8	68.1	96.5	113.5	147.5	641.2	1004.4	1305.2
75°	34.0	45.4	51.1	45.4	39.7	62.4	79.4	96.5	419.9	601.5	760.4
77.5°	17.0	17.0	28.4	28.4	17.0	34.0	39.7	56.7	238.3	351.8	437.0
80°	5.7	0.0	0.0	5.7	0.0	11.3	17.0	28.4	124.8	187.3	272.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	62.4	56.7	141.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	34.0
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

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

Scaled Data Report

REPORT NUMBER: P1501969
CATALOG NUMBER: GSS-SB6A-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9	3472.9
2.5°	3512.7	3512.7	3535.4	3569.4	3586.4	3597.8	3603.5	3614.8	3660.2	3648.9
5°	3660.2	3671.6	3688.6	3722.6	3762.4	3751.0	3751.0	3751.0	3779.4	3756.7
7.5°	3853.1	3887.2	3892.9	3932.6	3904.2	3847.5	3813.4	3762.4	3756.7	3756.7
10°	4165.3	4153.9	4153.9	4102.8	4000.7	3836.1	3688.6	3586.4	3529.7	3535.4
12.5°	4500.1	4454.7	4460.3	4273.1	3983.7	3620.5	3319.7	3098.4	3081.4	3064.4
15°	4914.3	4795.2	4772.5	4341.2	3728.3	3172.2	2877.1	2701.2	2644.4	2627.4
17.5°	5504.5	5203.7	5095.9	4222.0	3393.5	2894.1	2672.8	2593.4	2587.7	2582.0
20°	6128.7	5532.9	5328.6	4046.1	3280.0	2899.8	2735.2	2712.5	2701.2	2706.9
22.5°	6855.1	5742.8	5481.8	4074.5	3382.1	3087.1	2956.5	2939.5	2928.2	2939.5
25°	7604.1	5986.8	5663.4	4301.5	3688.6	3433.2	3280.0	3246.0	3280.0	3331.1
27.5°	8358.9	6316.0	6020.9	4749.8	4182.3	3904.2	3756.7	3881.5	3932.6	3938.3
30°	9028.5	6775.6	6503.3	5379.7	4744.1	4466.0	4494.4	4653.3	4715.7	4778.1
32.5°	9641.4	7388.5	7178.5	6094.7	5470.4	5305.9	5288.9	5408.0	5476.1	5436.4
35°	10259.9	8188.6	7984.4	6872.1	6361.4	6225.2	6083.3	6316.0	6293.3	6230.9
37.5°	10844.4	8994.5	8807.2	7706.3	7178.5	6940.2	6917.5	7127.5	7314.7	7303.4
40°	11264.4	9647.1	9420.1	8534.8	8035.4	7831.1	7950.3	8313.5	8268.1	8205.7
42.5°	11650.2	10203.2	9998.9	9261.2	8739.1	8829.9	8937.7	9181.7	9153.4	9090.9
45°	11831.8	10679.9	10503.9	9811.6	9556.3	9845.7	9840.0	9930.8	9777.6	9754.9
47.5°	12087.2	11020.3	10838.8	10305.3	10532.3	10651.5	10316.7	10220.2	10078.3	9964.8
50°	12558.2	11548.1	11366.5	11054.4	11247.3	10878.5	10469.9	10259.9	9970.5	9771.9
52.5°	13108.6	12348.2	12189.3	12064.5	11525.4	10765.0	10242.9	9862.7	9510.9	9340.6
55°	13801.0	13528.6	13415.1	12728.4	11275.7	10299.7	9686.8	8977.4	8495.1	8336.2
57.5°	14028.0	15259.4	15219.6	12836.3	10577.7	9454.1	8347.5	7388.5	6889.1	6787.0
60°	13358.3	16615.6	16473.8	12654.7	9312.2	7672.2	6378.4	5396.7	4585.2	4466.0
62.5°	12501.4	15577.2	15526.1	11741.0	7093.4	5498.8	4766.8	3847.5	3501.3	3410.5
65°	10708.2	12745.5	12768.2	9420.1	4488.7	3949.6	3915.6	3058.7	2633.1	2565.0
67.5°	8245.4	9777.6	9618.7	5924.4	2616.1	3160.8	3126.8	2235.8	1617.3	1571.9
70°	4817.9	7280.7	7025.3	3081.4	1730.8	2638.8	2406.1	1571.9	1100.9	1049.8
72.5°	2128.0	4006.4	4301.5	1356.3	1220.1	2099.7	1736.5	964.7	618.5	607.2
75°	1180.3	1986.2	2077.0	590.2	856.9	1492.5	1049.8	539.1	351.8	346.2
77.5°	709.3	879.6	856.9	380.2	641.2	953.4	635.6	306.4	221.3	210.0
80°	397.2	402.9	340.5	278.1	380.2	533.4	357.5	192.9	102.1	102.1
82.5°	244.0	221.3	175.9	85.1	102.1	323.5	130.5	107.8	34.0	34.0
85°	102.1	68.1	45.4	17.0	39.7	85.1	45.4	51.1	17.0	17.0
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: SP1-2407-184-11

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

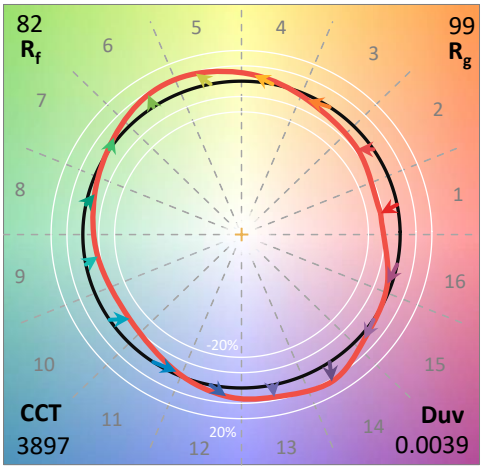
Test Information

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

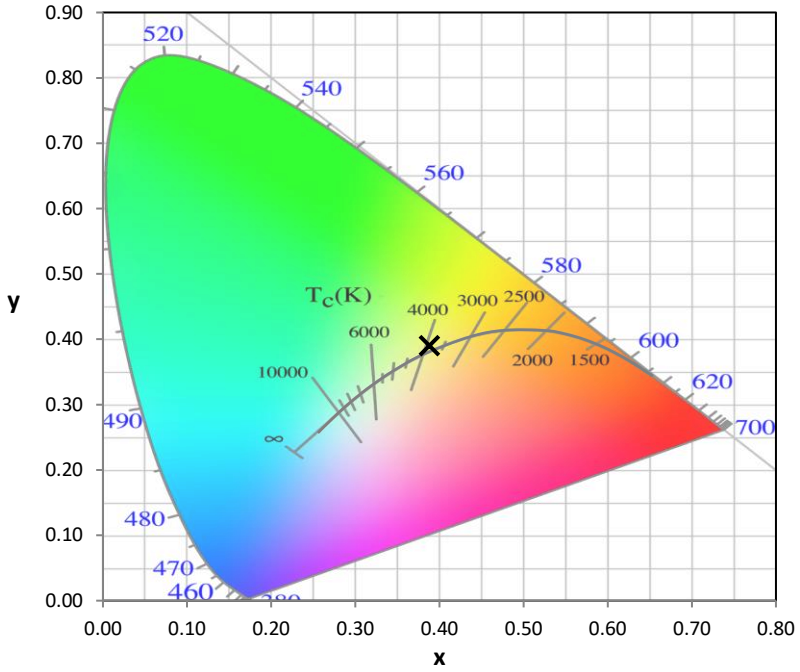
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

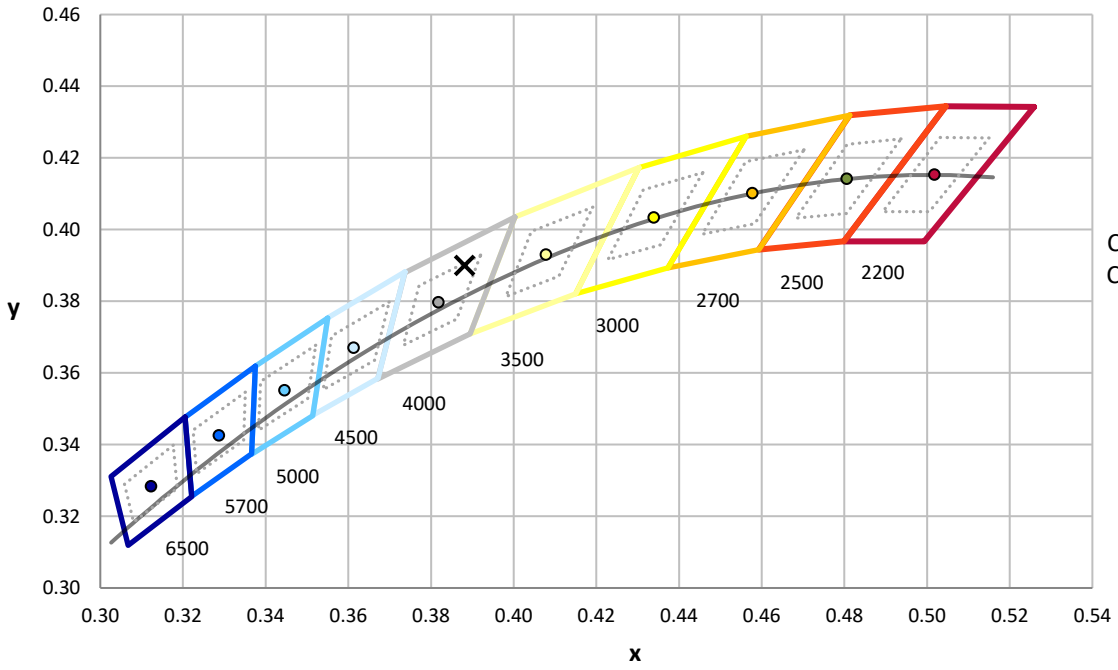
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

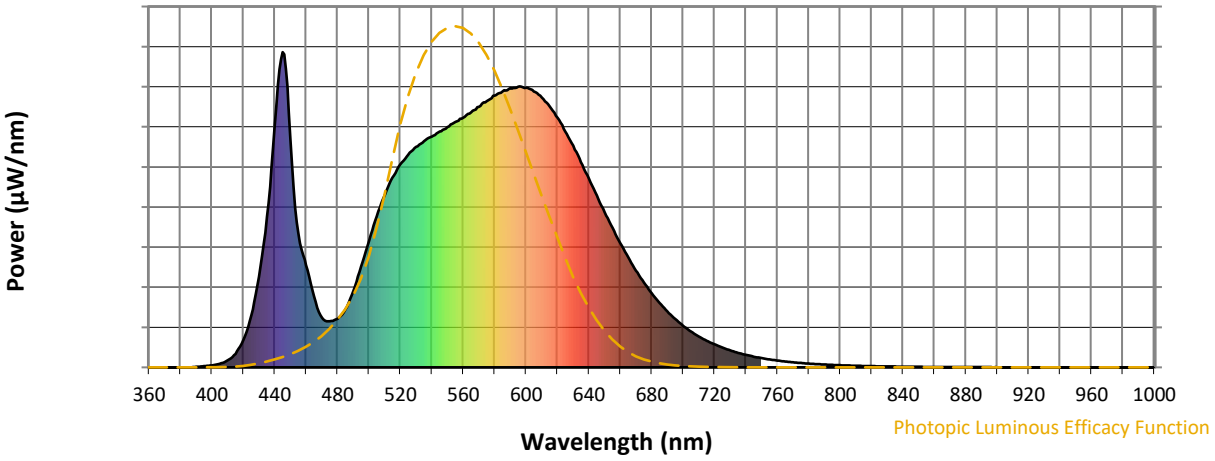


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

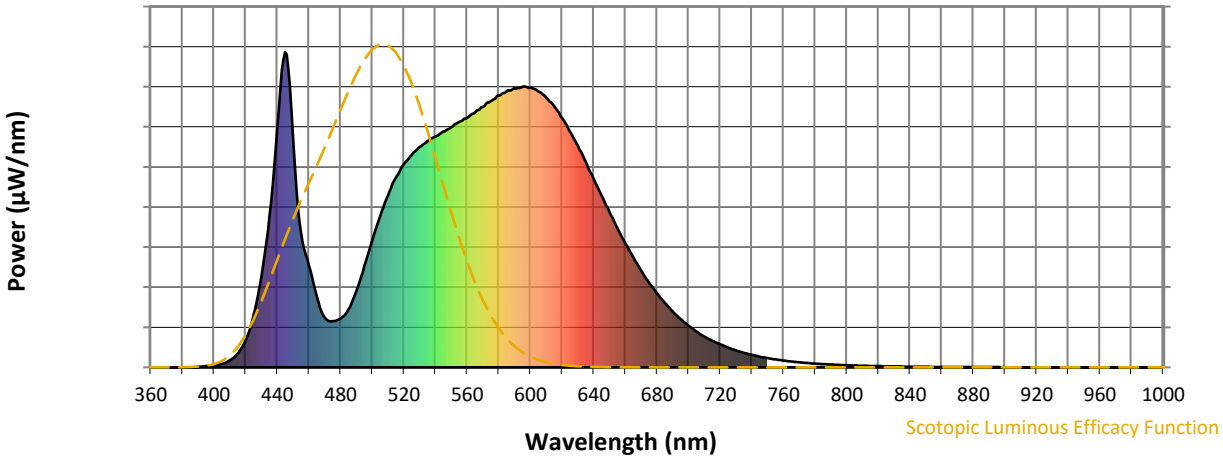


Photopic Lumens: NR

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

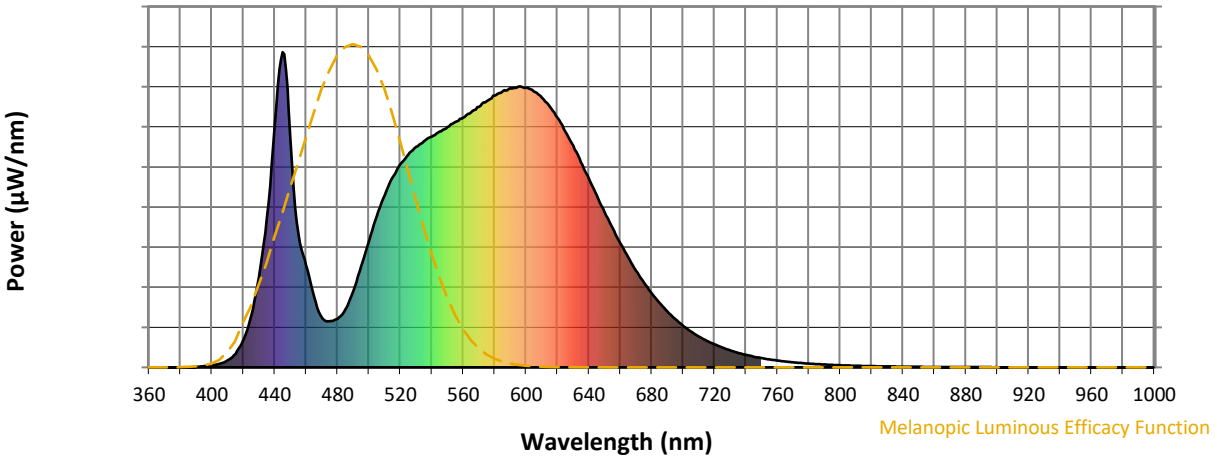


Scotopic Lumens: NR **S/P: 1.57**

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			

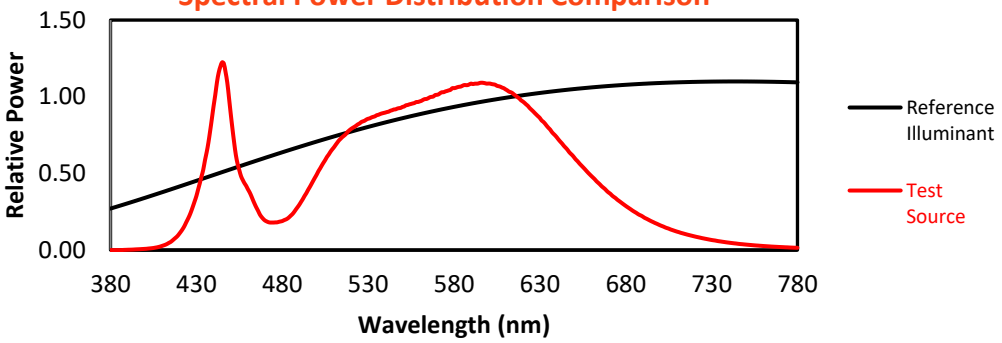
REPORT NUMBER: SP1-2407-184-11

TM-30-18

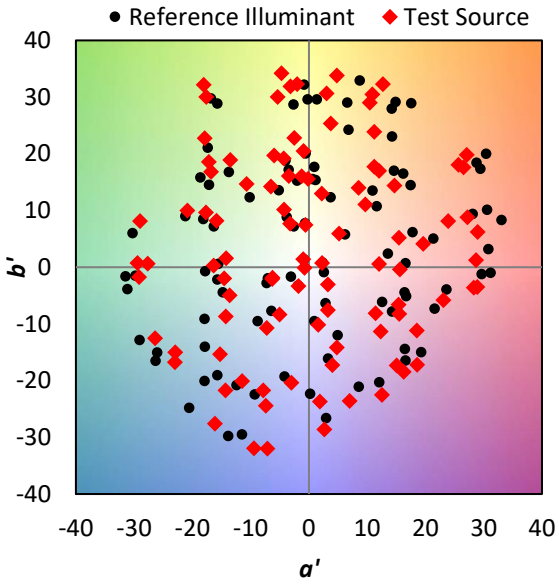
Summary

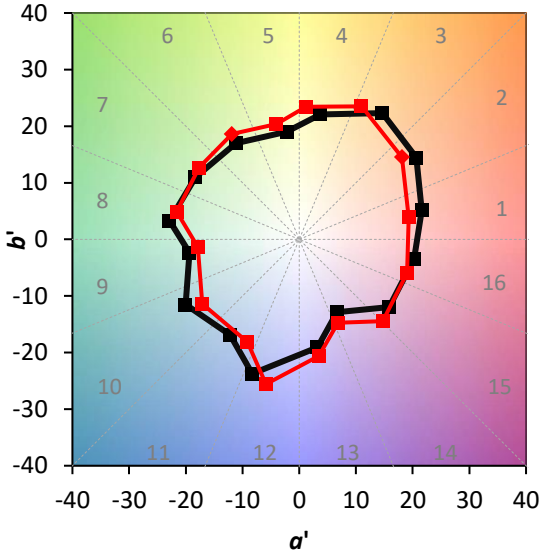
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

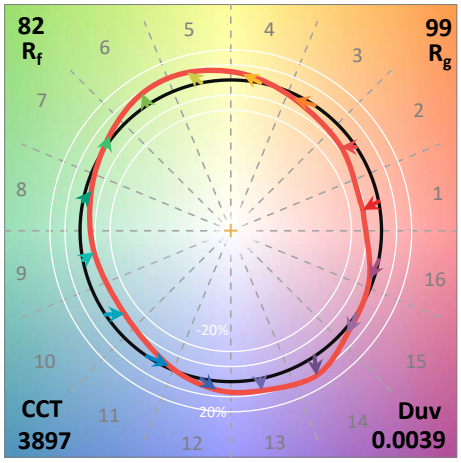
Spectral Power Distribution Comparison

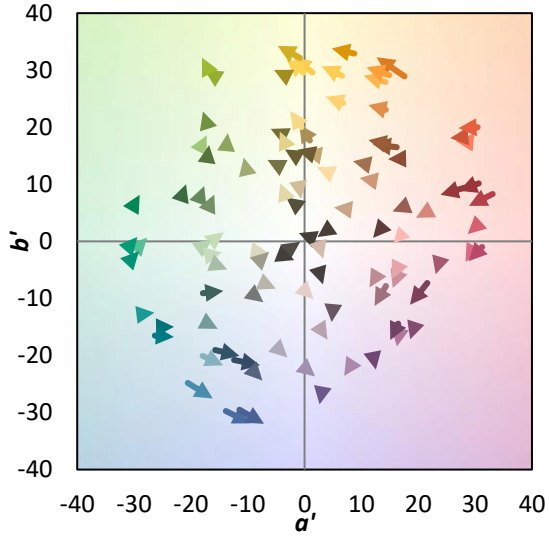


Color Vector Graphics







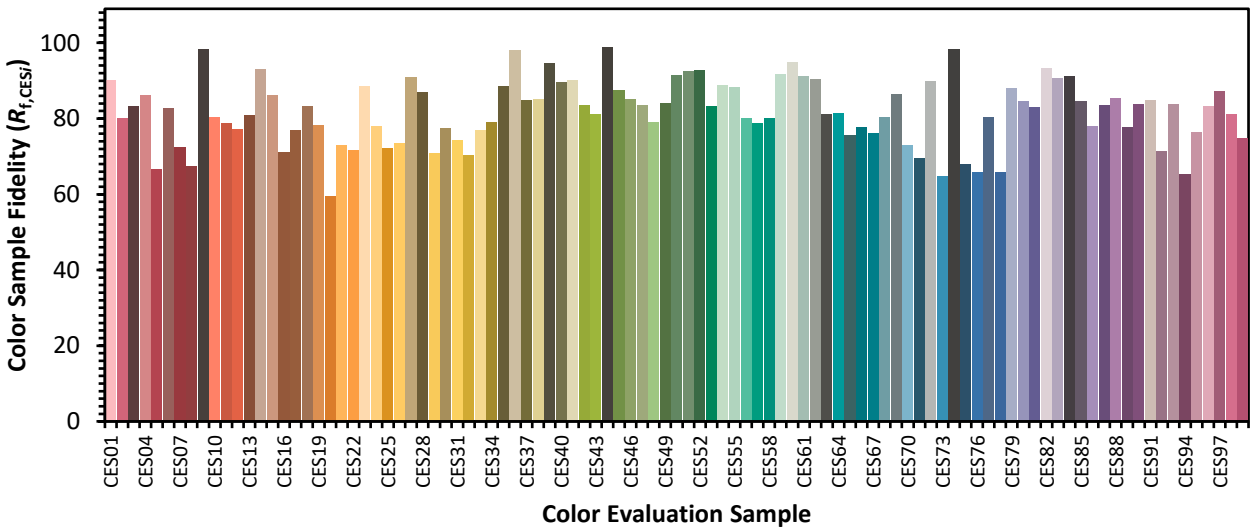


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Individual Sample Fidelity Index ($R_{f,i}$)

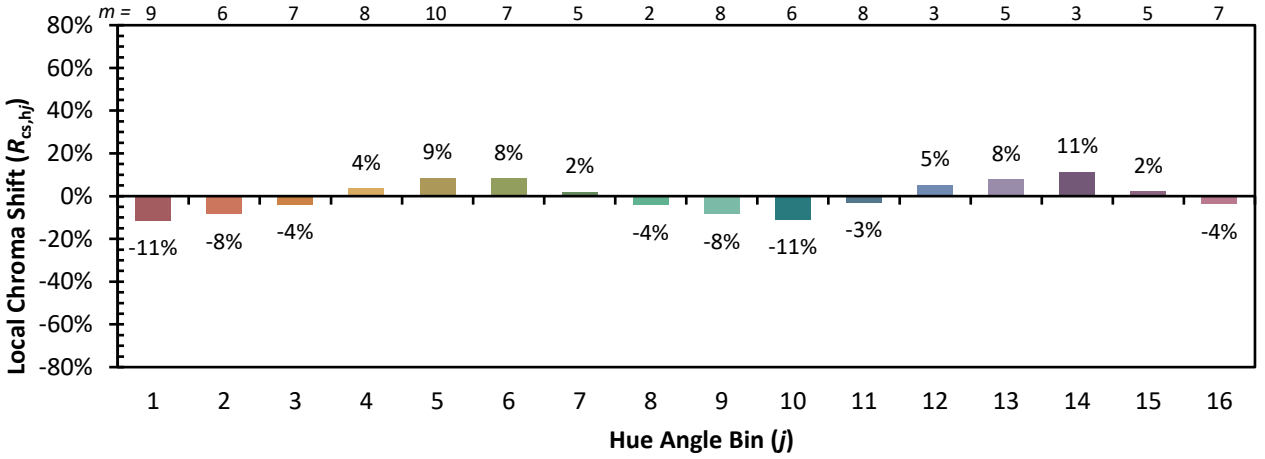
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82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

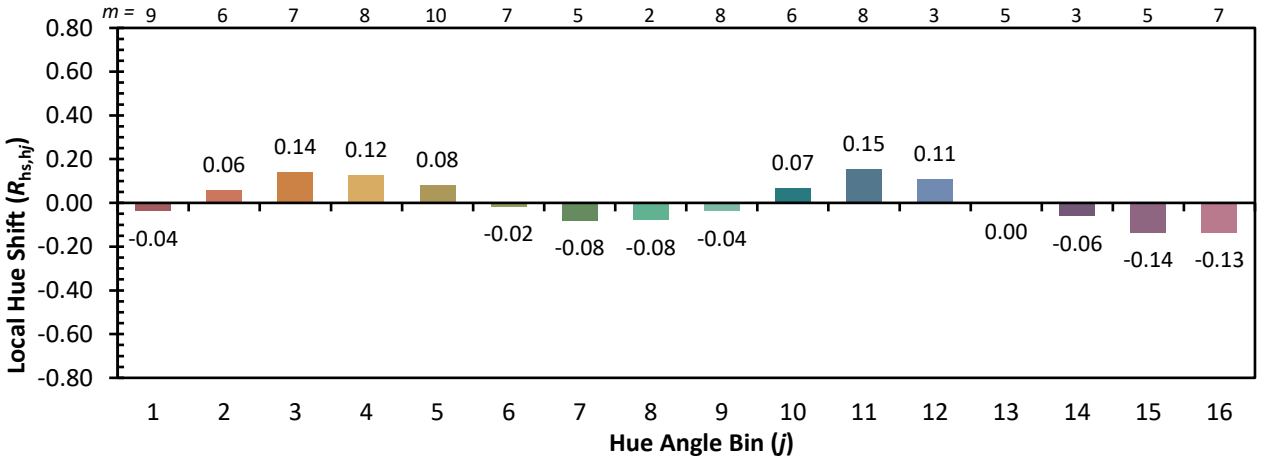


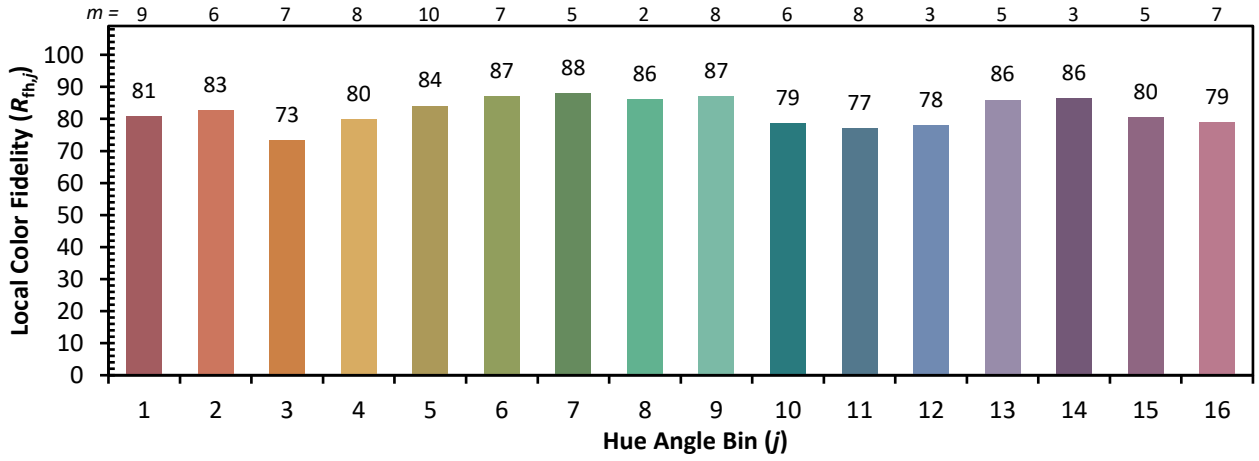
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Color Rendition by Hue-Angle Bin



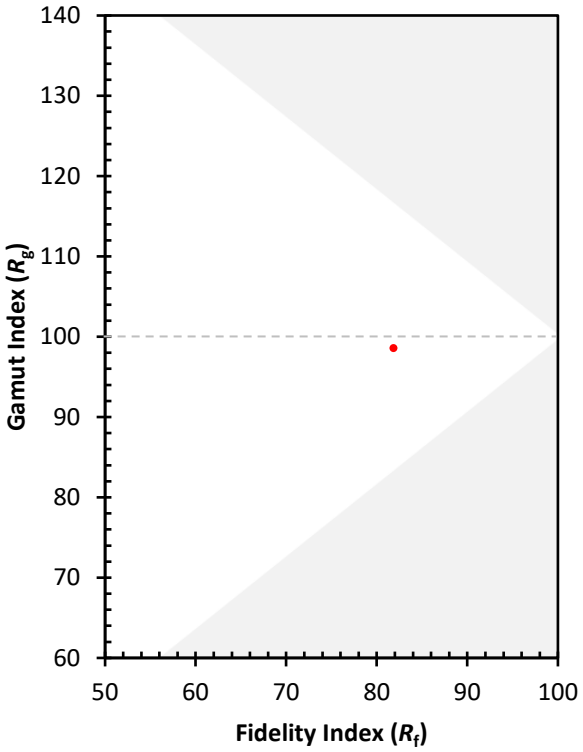


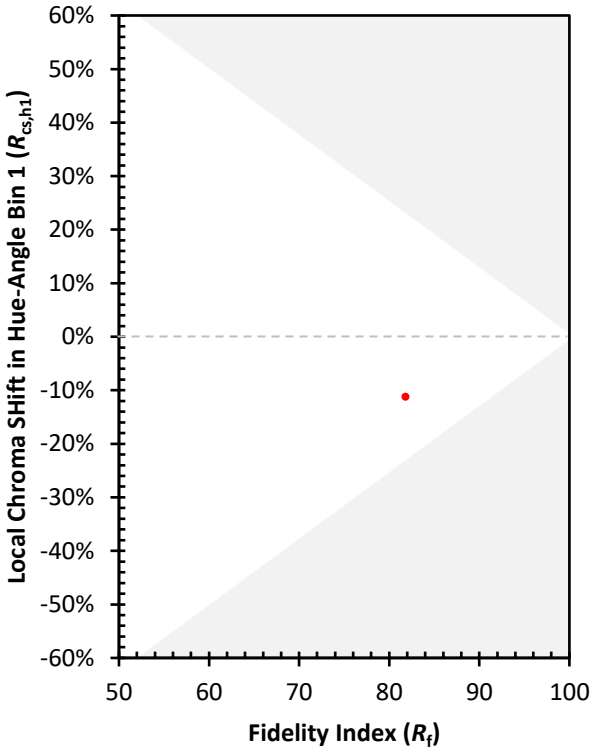


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Measure Comparisons





(END OF REPORT)