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: P1501939

Luminaire Tested: GSS-SB4C-835-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501939
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-835-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21774.4 lumens
Efficiency:	N/A
Efficacy:	106.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

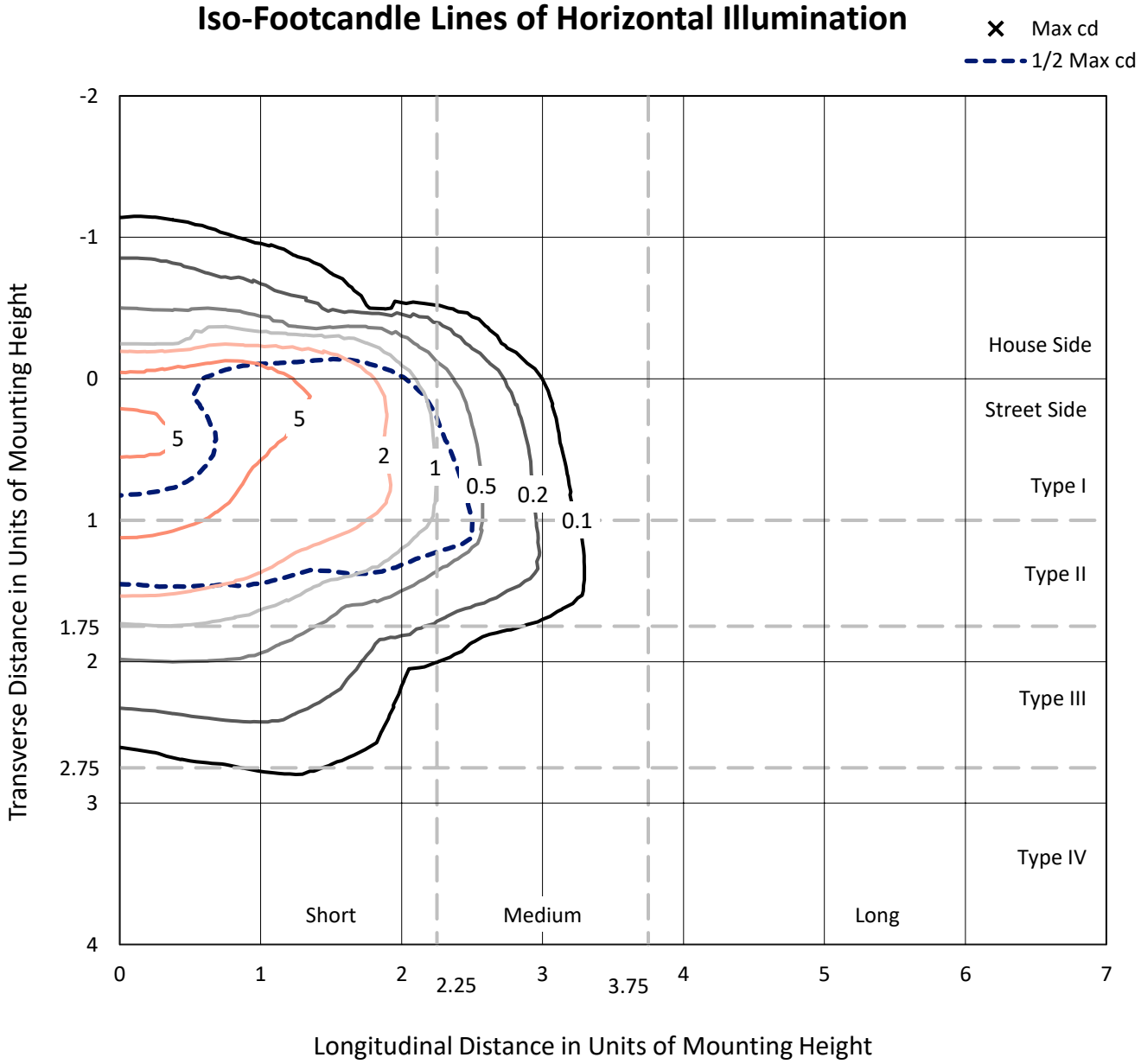
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



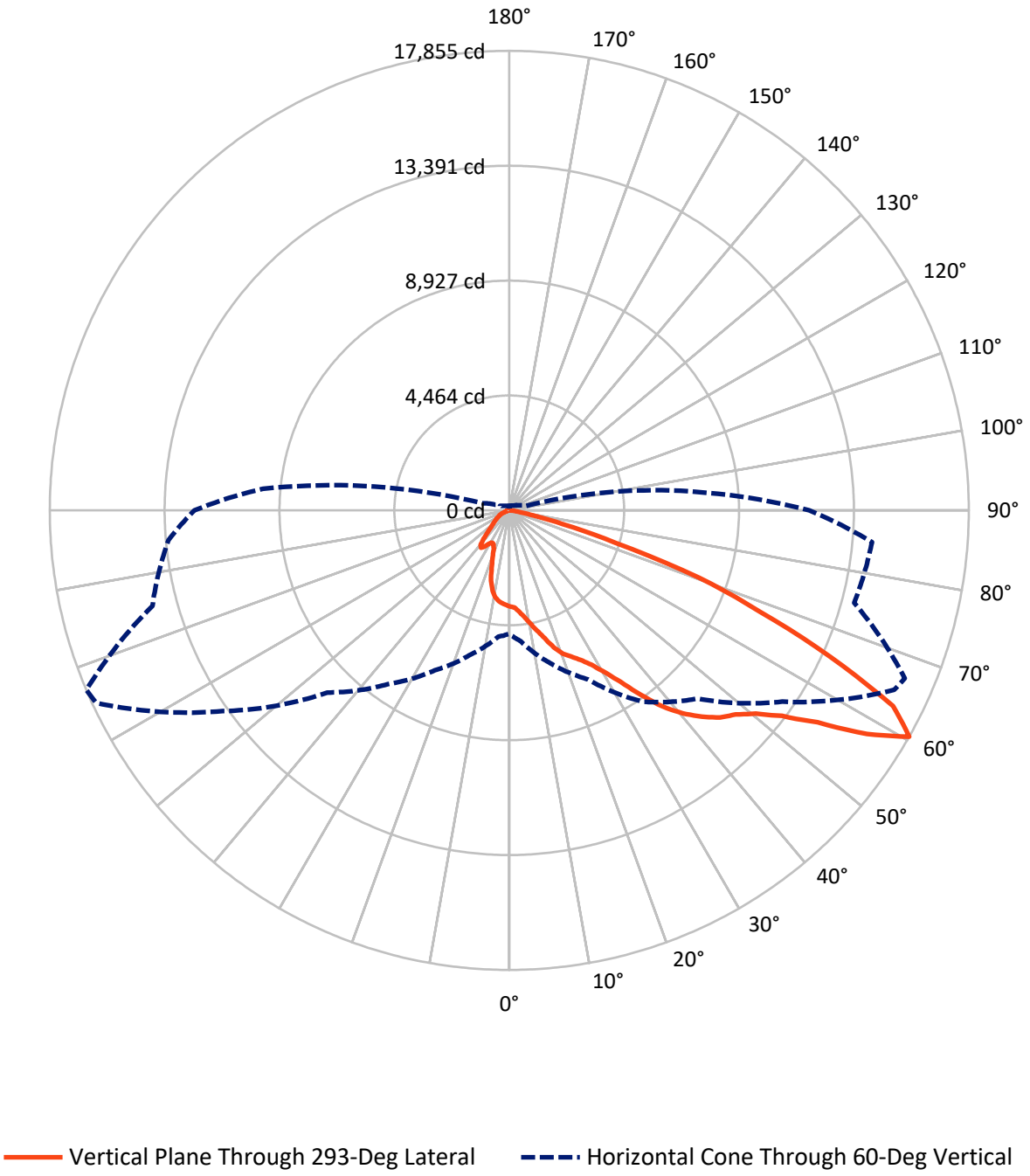
Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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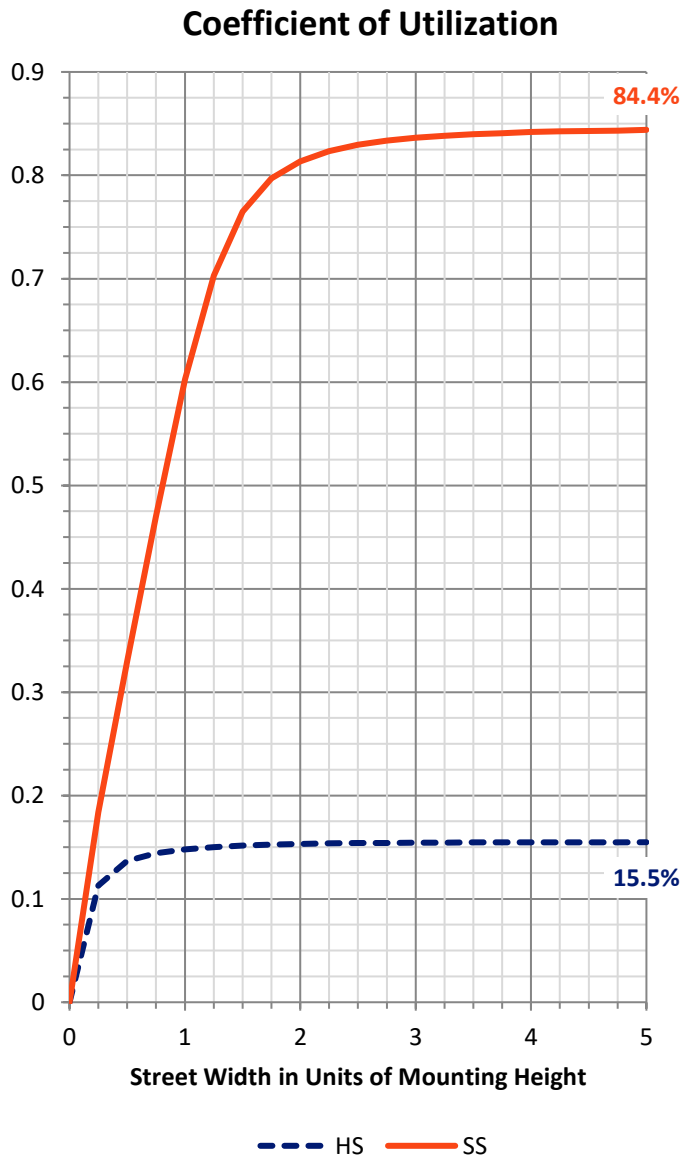
REPORT NUMBER: P1501939
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3397.3	0.0	3397.3
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	18377.0	0.0	18377.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	21774.4	0.0	21774.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.9	1.6
10°-20°	851.1	3.9
20°-30°	1588.8	7.3
30°-40°	3150.7	14.5
40°-50°	5023.3	23.1
50°-60°	6001.6	27.6
60°-70°	3934.4	18.1
70°-80°	824.3	3.8
80°-90°	62.4	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°	21774.4	100.0
0°-180°	21774.4	100.0



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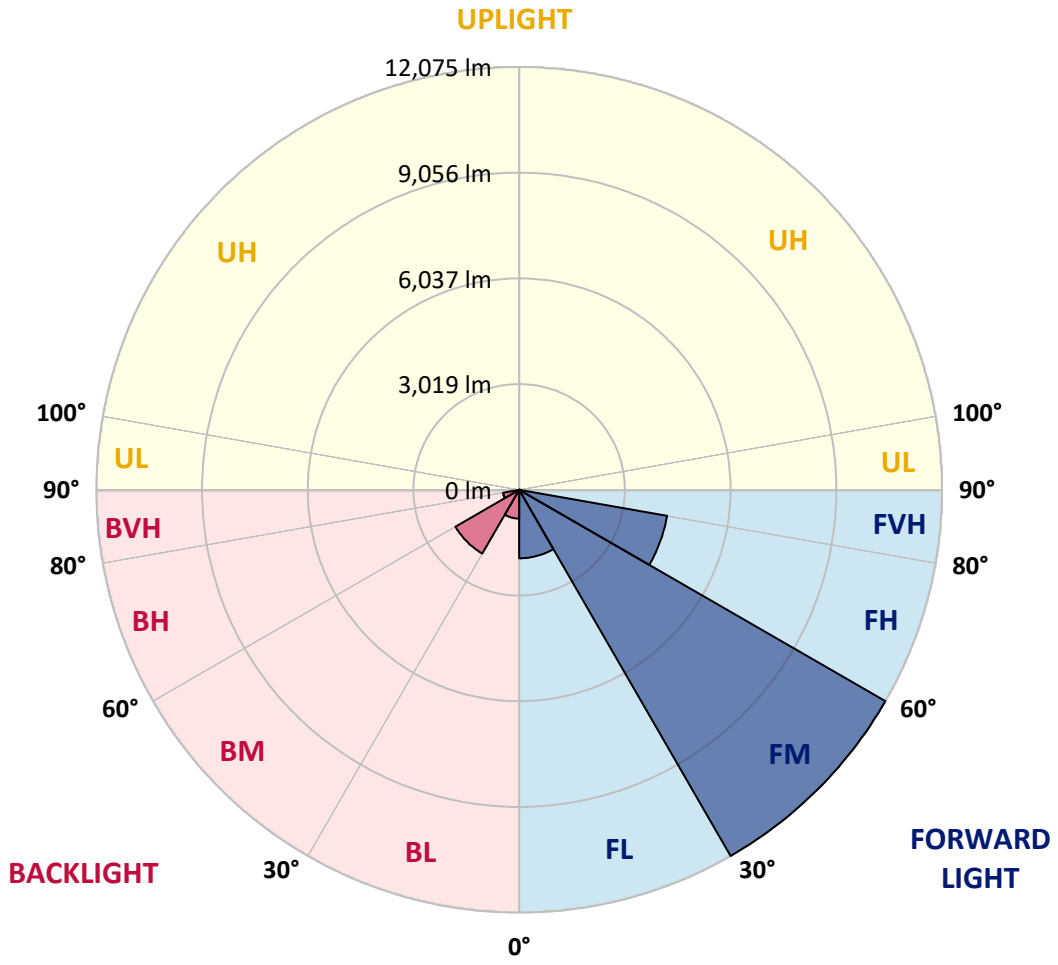
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1955.8	9.0			
FM	(30°-60°)	12074.7	55.5			
FH	(60°-80°)	4289.4	19.7			G2/5000
FVH	(80°-90°)	57.1	0.3			G1/100
BL	(0°-30°)	821.9	3.8	B2/1000		
BM	(30°-60°)	2100.9	9.6	B2/2500		
BH	(60°-80°)	469.3	2.2	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9
2.5°	3920.9	3908.7	3890.4	3896.5	3890.4	3866.1	3829.5	3799.0	3823.4	3786.8	3762.4
5°	4036.8	4036.8	4024.6	4024.6	4030.7	4018.5	3994.1	3951.4	3957.5	3927.0	3847.8
7.5°	4036.8	4018.5	4049.0	4079.5	4134.4	4164.9	4177.0	4152.7	4164.9	4103.9	4000.2
10°	3799.0	3786.8	3866.1	3981.9	4140.5	4280.7	4372.2	4378.3	4396.6	4335.6	4213.6
12.5°	3292.9	3268.5	3427.0	3646.5	3969.7	4292.9	4549.0	4646.6	4689.3	4664.9	4494.1
15°	2823.3	2853.8	2963.6	3201.4	3634.3	4128.3	4646.6	4969.8	5030.8	5061.2	4860.0
17.5°	2774.5	2780.6	2817.2	2933.1	3262.4	3860.0	4658.8	5305.2	5390.5	5524.7	5250.3
20°	2908.7	2896.5	2933.1	2969.7	3128.2	3622.1	4542.9	5628.3	5793.0	6079.6	5780.8
22.5°	3158.7	3158.7	3177.0	3201.4	3280.7	3603.8	4494.1	5927.1	6207.6	6793.0	6445.5
25°	3579.5	3530.7	3542.9	3512.4	3579.5	3823.4	4603.9	6165.0	6549.1	7585.8	7238.2
27.5°	4231.9	4250.2	4140.5	3975.8	4012.4	4219.7	4872.2	6433.3	6902.8	8409.0	8043.1
30°	5134.4	5103.9	5036.9	4713.7	4567.3	4750.2	5366.1	6872.3	7378.4	9451.7	9116.3
32.5°	5841.8	5927.1	5811.3	5585.7	5360.0	5414.9	6061.3	7579.7	7957.7	10409.1	10226.1
35°	6695.5	6695.5	6719.9	6402.8	6250.3	6238.1	6933.3	8348.0	8726.1	11275.0	11403.0
37.5°	7848.0	7768.7	7634.5	7280.9	7165.0	7317.5	7750.4	9140.7	9549.3	11976.2	12317.7
40°	8817.5	8872.4	8854.1	8341.9	8116.3	8280.9	8665.1	9817.6	10134.7	12427.5	13055.6
42.5°	9768.8	9799.3	9720.0	9476.1	9146.8	9159.0	9476.1	10329.8	10653.0	12860.4	13750.7
45°	10482.3	10476.2	10421.3	10360.3	10165.2	9963.9	10018.8	10896.9	11177.4	13000.7	14128.8
47.5°	10707.9	10756.7	10805.4	10976.2	11110.3	10793.3	10512.7	11201.8	11457.9	12976.3	14269.0
50°	10500.6	10604.2	10842.0	11098.1	11555.5	11531.1	10927.4	11531.1	11781.1	13110.4	14433.7
52.5°	10037.1	10140.8	10457.9	10921.3	11610.4	11951.8	11695.7	12086.0	12378.7	13451.9	14775.2
55°	8957.8	9000.5	9652.9	10262.7	11336.0	11768.9	12519.0	13025.1	13269.0	13866.6	15226.4
57.5°	7293.1	7396.7	8037.0	9031.0	10567.6	11287.2	12988.5	14628.8	14622.7	14262.9	15324.0
60°	*4799.0*	*5103.9*	*6146.7*	*7244.3*	*9079.7*	*10342.0*	*12958.0*	*16507.0*	*16696.0*	*13872.7*	*14147.1*
62.5°	3664.8	3792.9	4384.4	5299.1	6719.9	8573.6	12756.8	17068.0	17214.3	12823.8	12384.8
65°	2756.2	2914.8	3481.9	4299.0	4744.2	5811.3	11439.6	14836.1	15037.4	11445.7	9628.6
67.5°	1689.1	1817.2	2573.3	3530.7	3591.7	3609.9	7719.9	11238.4	11311.6	9232.2	6482.0
70°	1128.1	1256.2	1780.6	2713.6	2859.9	2079.4	4238.0	8506.5	8500.4	6317.4	3939.2
72.5°	652.5	713.5	1128.1	2000.1	2250.1	1323.2	2116.0	5408.8	5171.0	2969.7	1841.6
75°	372.0	414.7	622.0	1286.7	1579.4	841.5	835.4	2896.5	2561.1	1530.6	1006.2
77.5°	225.6	243.9	341.5	841.5	951.3	567.1	463.4	1347.6	1298.8	896.4	530.5
80°	109.8	128.1	207.3	493.9	609.8	304.9	280.5	530.5	567.1	493.9	280.5
82.5°	36.6	48.8	115.9	189.0	396.4	122.0	115.9	292.7	311.0	292.7	134.2
85°	18.3	24.4	54.9	61.0	152.4	61.0	42.7	128.1	158.5	97.6	54.9
87.5°	0.0	6.1	6.1	6.1	6.1	6.1	6.1	12.2	12.2	12.2	12.2
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°	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9
2.5°	3744.1	3731.9	3707.5	3664.8	3658.7	3628.2	3579.5	3549.0	3524.6	3542.9	3549.0
5°	3811.2	3780.7	3707.5	3591.7	3469.7	3347.7	3231.9	3097.7	3006.3	2994.1	2969.7
7.5°	3933.1	3872.2	3713.6	3488.0	3177.0	2884.3	2542.8	2213.5	2048.9	2024.5	1969.6
10°	4128.3	4024.6	3762.4	3305.1	2707.5	2097.7	1579.4	1225.7	1024.4	987.9	1000.1
12.5°	4360.0	4213.6	3768.5	2994.1	2061.1	1298.8	896.4	762.2	719.6	701.3	701.3
15°	4658.8	4445.4	3762.4	2591.6	1390.3	835.4	719.6	664.7	646.4	634.2	634.2
17.5°	5036.9	4756.3	3719.7	1987.9	939.1	725.6	658.6	615.9	591.5	585.4	585.4
20°	5482.0	5103.9	3622.1	1481.8	786.6	676.9	622.0	567.1	548.8	536.6	536.6
22.5°	6049.1	5524.7	3433.1	1152.5	743.9	646.4	585.4	524.4	506.1	493.9	493.9
25°	6707.7	6061.3	3183.1	1036.6	737.8	622.0	548.8	487.8	469.5	463.4	457.3
27.5°	7488.2	6634.5	2951.4	1042.7	750.0	603.7	512.2	457.3	439.0	420.8	426.9
30°	8409.0	7226.0	2762.3	1115.9	762.2	585.4	487.8	439.0	420.8	396.4	396.4
32.5°	9317.6	7921.1	2744.0	1250.1	804.9	573.2	463.4	414.7	396.4	378.1	378.1
35°	10250.5	8555.3	2847.7	1426.9	890.3	554.9	432.9	390.3	372.0	359.8	353.7
37.5°	11140.8	9061.5	2945.3	1536.7	841.5	475.6	396.4	359.8	341.5	317.1	317.1
40°	11732.3	9335.9	2963.6	1451.3	695.2	426.9	359.8	323.2	298.8	286.6	280.5
42.5°	12165.3	9512.7	2756.2	1176.9	603.7	390.3	329.3	292.7	274.4	262.2	262.2
45°	12342.1	9451.7	2402.6	896.4	554.9	359.8	298.8	268.3	256.1	243.9	243.9
47.5°	12317.7	9171.2	2042.8	719.6	506.1	329.3	280.5	256.1	243.9	231.7	225.6
50°	12275.0	8909.0	1676.9	640.3	451.2	311.0	262.2	243.9	225.6	213.4	207.3
52.5°	12555.5	8823.6	1390.3	585.4	420.8	298.8	256.1	231.7	213.4	201.2	201.2
55°	12836.0	8860.2	1091.5	548.8	390.3	292.7	250.0	225.6	207.3	189.0	189.0
57.5°	12817.7	8701.7	829.3	512.2	365.9	286.6	243.9	219.5	189.0	176.8	176.8
60°	*11653.1*	*7762.6*	*646.4*	*469.5*	*335.4*	*268.3*	*225.6*	*207.3*	*176.8*	*158.5*	*158.5*
62.5°	9854.2	6104.0	530.5	414.7	298.8	243.9	207.3	189.0	158.5	128.1	128.1
65°	7280.9	4402.7	426.9	359.8	274.4	213.4	189.0	164.6	128.1	103.7	97.6
67.5°	4927.1	2707.5	341.5	298.8	243.9	182.9	158.5	140.3	115.9	85.4	79.3
70°	2920.9	1439.1	250.0	207.3	182.9	134.2	134.2	122.0	97.6	73.2	67.1
72.5°	1390.3	500.0	182.9	152.4	140.3	97.6	103.7	103.7	79.3	54.9	48.8
75°	707.4	243.9	122.0	109.8	91.5	73.2	85.4	79.3	54.9	36.6	36.6
77.5°	402.5	170.7	85.4	73.2	61.0	48.8	54.9	48.8	30.5	18.3	18.3
80°	225.6	122.0	54.9	48.8	36.6	30.5	30.5	24.4	18.3	6.1	6.1
82.5°	85.4	73.2	36.6	24.4	18.3	18.3	12.2	12.2	6.1	0.0	0.0
85°	36.6	18.3	18.3	12.2	12.2	6.1	6.1	6.1	0.0	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	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°	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9
2.5°	3500.2	3512.4	3524.6	3573.4	3585.6	3622.1	3652.6	3689.2	3695.3	3744.1	3744.1
5°	3018.5	3012.4	3116.0	3268.5	3366.0	3500.2	3603.8	3713.6	3774.6	3853.9	3890.4
7.5°	2000.1	2152.6	2384.3	2652.6	3000.2	3323.3	3567.3	3780.7	3927.0	4018.5	4055.1
10°	994.0	1079.3	1323.2	1762.3	2353.8	3012.4	3530.7	3927.0	4164.9	4268.5	4335.6
12.5°	701.3	719.6	762.2	1000.1	1567.2	2500.1	3414.8	4085.6	4414.9	4610.0	4695.4
15°	628.1	640.3	658.6	725.6	969.6	1866.0	3207.5	4262.4	4805.1	5030.8	5140.5
17.5°	579.3	585.4	603.7	658.6	762.2	1268.4	2872.1	4451.5	5274.7	5549.1	5756.4
20°	536.6	536.6	554.9	622.0	707.4	975.7	2390.4	4664.9	5872.3	6268.6	6476.0
22.5°	487.8	500.0	512.2	585.4	689.1	890.3	1939.1	4829.5	6536.9	7018.7	7262.6
25°	451.2	463.4	475.6	548.8	670.8	890.3	1676.9	4933.2	7280.9	7854.1	8189.5
27.5°	420.8	432.9	451.2	524.4	652.5	926.9	1573.3	4963.7	8091.9	8835.8	9287.1
30°	396.4	408.6	426.9	506.1	664.7	969.6	1609.8	4921.0	8915.1	9848.1	10384.7
32.5°	372.0	384.2	402.5	487.8	664.7	1024.4	1731.8	4835.6	9713.9	10860.3	11518.9
35°	353.7	359.8	365.9	439.0	603.7	1018.3	1884.2	4750.2	10518.8	11860.4	12628.7
37.5°	317.1	323.2	335.4	378.1	481.7	926.9	1914.7	4646.6	11153.0	12701.9	13549.5
40°	280.5	292.7	304.9	347.6	402.5	750.0	1780.6	4427.1	11488.4	13348.3	14378.8
42.5°	256.1	262.2	274.4	317.1	372.0	597.6	1494.0	4042.9	11787.2	13787.3	14982.5
45°	237.8	243.9	256.1	286.6	347.6	518.3	1176.9	3573.4	11811.6	13927.6	15275.2
47.5°	219.5	225.6	231.7	262.2	335.4	463.4	902.5	3146.5	11805.5	14110.5	15525.2
50°	207.3	213.4	225.6	250.0	317.1	414.7	743.9	2798.9	12061.6	14506.9	16031.3
52.5°	201.2	201.2	219.5	243.9	298.8	378.1	622.0	2487.9	12195.8	14897.1	16397.2
55°	189.0	195.1	207.3	231.7	280.5	359.8	530.5	2097.7	12256.7	15092.3	16464.3
57.5°	176.8	182.9	201.2	219.5	268.3	341.5	457.3	1567.2	11384.7	14073.9	15342.3
60°	*158.5*	*170.7*	*195.1*	*213.4*	*250.0*	*311.0*	*402.5*	*1061.0*	*9604.2*	*12232.4*	*13293.4*
62.5°	128.1	152.4	176.8	189.0	225.6	262.2	341.5	707.4	7671.1	10122.5	11329.9
65°	97.6	128.1	146.3	164.6	189.0	219.5	286.6	481.7	5116.1	6811.3	8171.2
67.5°	85.4	109.8	122.0	134.2	158.5	189.0	231.7	335.4	3103.8	4091.7	5433.2
70°	67.1	91.5	103.7	97.6	122.0	146.3	164.6	225.6	1585.4	2219.6	3091.6
72.5°	48.8	73.2	79.3	79.3	73.2	103.7	122.0	158.5	689.1	1079.3	1402.5
75°	36.6	48.8	54.9	48.8	42.7	67.1	85.4	103.7	451.2	646.4	817.1
77.5°	18.3	18.3	30.5	30.5	18.3	36.6	42.7	61.0	256.1	378.1	469.5
80°	6.1	0.0	0.0	6.1	0.0	12.2	18.3	30.5	134.2	201.2	292.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	67.1	61.0	152.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	36.6
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: P1501939
CATALOG NUMBER: GSS-SB4C-835-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3731.9	*3731.9*	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9
2.5°	3774.6	*3774.6*	3799.0	3835.6	3853.9	3866.1	3872.2	3884.4	3933.1	3920.9
5°	3933.1	*3945.3*	3963.6	4000.2	4042.9	4030.7	4030.7	4030.7	4061.2	4036.8
7.5°	4140.5	*4177.0*	4183.1	4225.8	4195.3	4134.4	4097.8	4042.9	4036.8	4036.8
10°	4475.8	*4463.6*	4463.6	4408.8	4299.0	4122.2	3963.6	3853.9	3792.9	3799.0
12.5°	4835.6	*4786.8*	4792.9	4591.7	4280.7	3890.4	3567.3	3329.4	3311.1	3292.9
15°	5280.8	*5152.7*	5128.3	4664.9	4006.3	3408.7	3091.6	2902.6	2841.6	2823.3
17.5°	5914.9	*5591.8*	5475.9	4536.8	3646.5	3109.9	2872.1	2786.7	2780.6	2774.5
20°	6585.7	*5945.4*	5725.9	4347.8	3524.6	3116.0	2939.2	2914.8	2902.6	2908.7
22.5°	7366.2	*6171.1*	5890.6	4378.3	3634.3	3317.2	3177.0	3158.7	3146.5	3158.7
25°	8171.2	*6433.3*	6085.7	4622.2	3963.6	3689.2	3524.6	3488.0	3524.6	3579.5
27.5°	8982.2	*6786.9*	6469.9	5103.9	4494.1	4195.3	4036.8	4171.0	4225.8	4231.9
30°	9701.7	*7280.9*	6988.2	5780.8	5097.8	4799.0	4829.5	5000.3	5067.3	5134.4
32.5°	10360.3	*7939.4*	7713.8	6549.1	5878.4	5701.5	5683.2	5811.3	5884.5	5841.8
35°	11025.0	*8799.2*	8579.7	7384.5	6835.7	6689.4	6536.9	6786.9	6762.6	6695.5
37.5°	11653.1	*9665.1*	9463.9	8280.9	7713.8	7457.7	7433.3	7658.9	7860.2	7848.0
40°	12104.3	*10366.4*	10122.5	9171.2	8634.6	8415.1	8543.1	8933.4	8884.6	8817.5
42.5°	12519.0	*10964.0*	10744.5	9951.7	9390.7	9488.3	9604.2	9866.4	9835.9	9768.8
45°	12714.1	*11476.2*	11287.2	10543.2	10268.8	10579.8	10573.7	10671.3	10506.6	10482.3
47.5°	12988.5	*11842.1*	11647.0	11073.8	11317.7	11445.7	11085.9	10982.3	10829.8	10707.9
50°	13494.6	*12409.2*	12214.1	11878.7	12086.0	11689.6	11250.6	11025.0	10714.0	10500.6
52.5°	14086.1	*13269.0*	13098.2	12964.1	12384.8	11567.7	11006.7	10598.1	10220.0	10037.1
55°	14830.0	*14537.3*	14415.4	13677.5	12116.5	11067.7	10409.1	9646.8	9128.5	8957.8
57.5°	15074.0	*16397.2*	16354.5	13793.4	11366.5	10159.1	8970.0	7939.4	7402.8	7293.1
60°	*14354.4*	*17854.6*	*17702.1*	*13598.3*	*10006.6*	*8244.3*	*6854.0*	*5799.1*	*4927.1*	*4799.0*
62.5°	13433.6	*16738.7*	16683.8	12616.5	7622.4	5908.8	5122.2	4134.4	3762.4	3664.8
65°	11506.7	*13695.8*	13720.2	10122.5	4823.4	4244.1	4207.5	3286.8	2829.4	2756.2
67.5°	8860.2	*10506.6*	10335.9	6366.2	2811.1	3396.5	3359.9	2402.6	1737.9	1689.1
70°	5177.1	*7823.6*	7549.2	3311.1	1859.9	2835.5	2585.5	1689.1	1183.0	1128.1
72.5°	2286.7	*4305.1*	4622.2	1457.4	1311.0	2256.2	1866.0	1036.6	664.7	652.5
75°	1268.4	*2134.3*	2231.8	634.2	920.8	1603.7	1128.1	579.3	378.1	372.0
77.5°	762.2	*945.2*	920.8	408.6	689.1	1024.4	683.0	329.3	237.8	225.6
80°	426.9	*432.9*	365.9	298.8	408.6	573.2	384.2	207.3	109.8	109.8
82.5°	262.2	*237.8*	189.0	91.5	109.8	347.6	140.3	115.9	36.6	36.6
85°	109.8	*73.2*	48.8	18.3	42.7	91.5	48.8	54.9	18.3	18.3
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

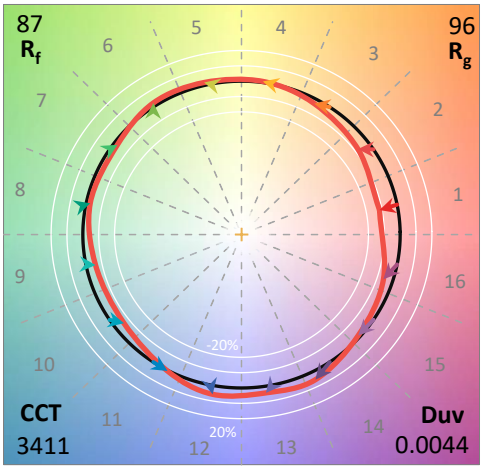
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

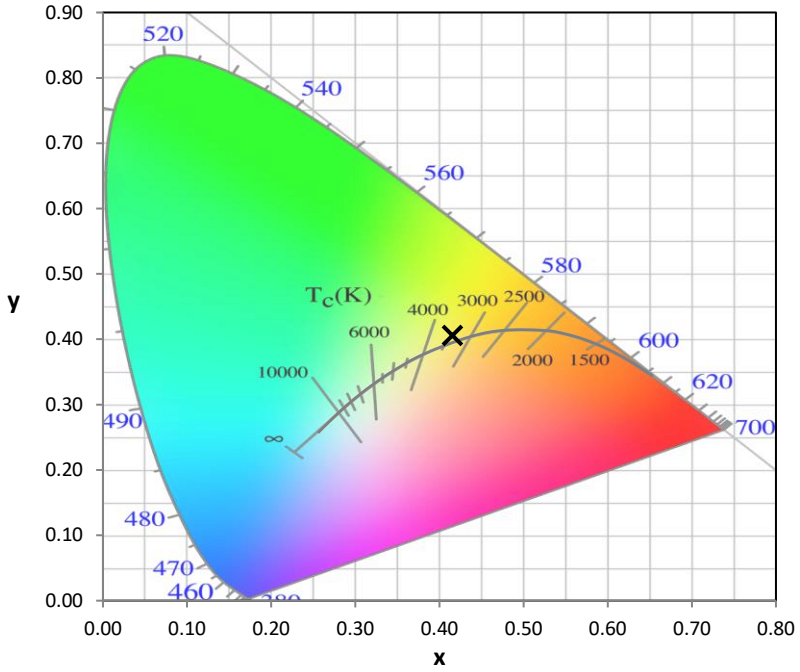
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

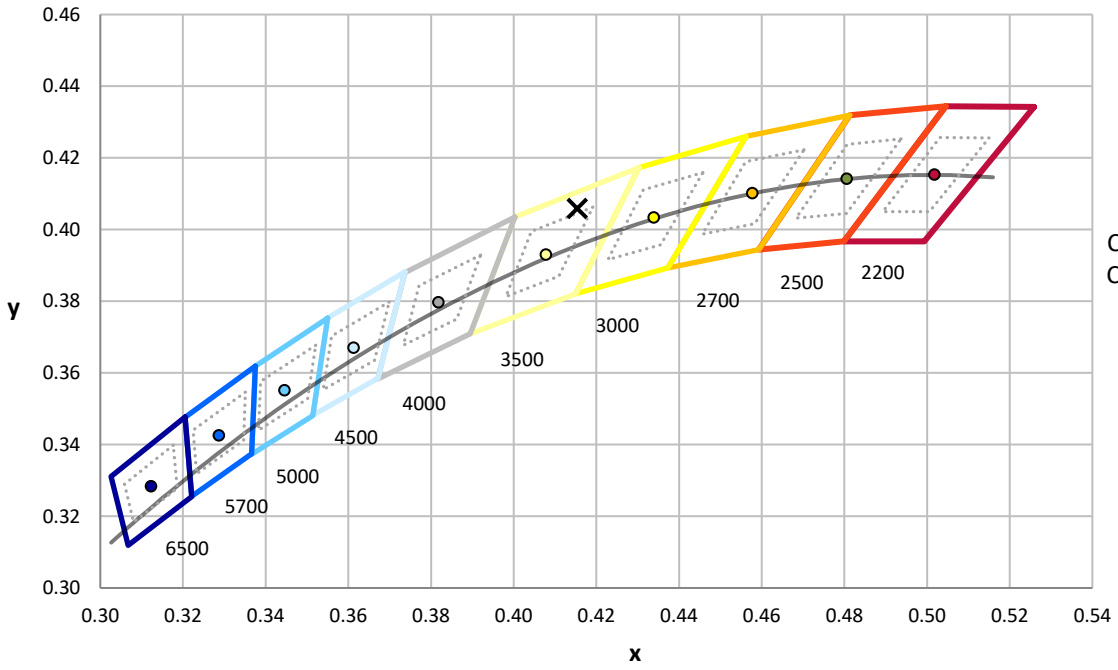
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

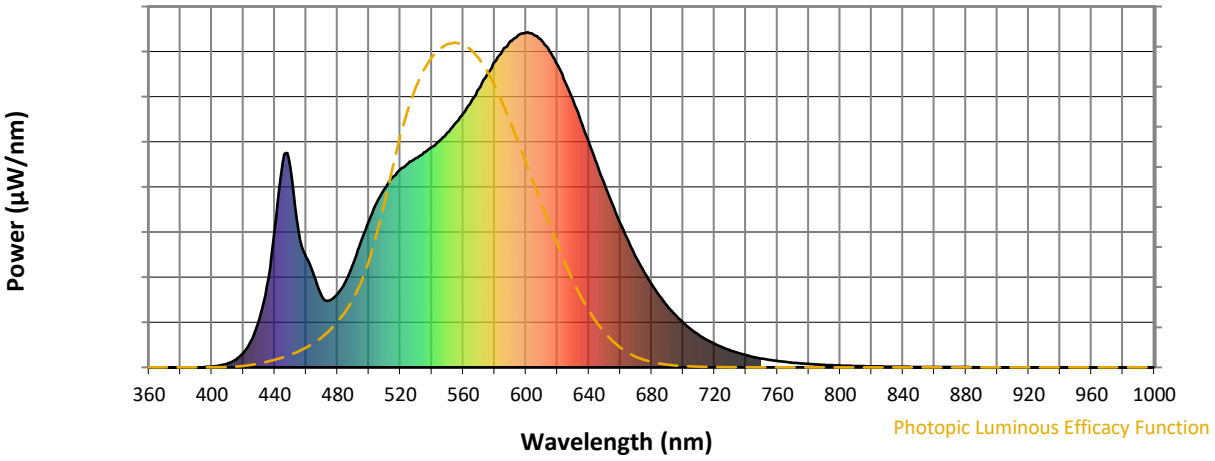


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

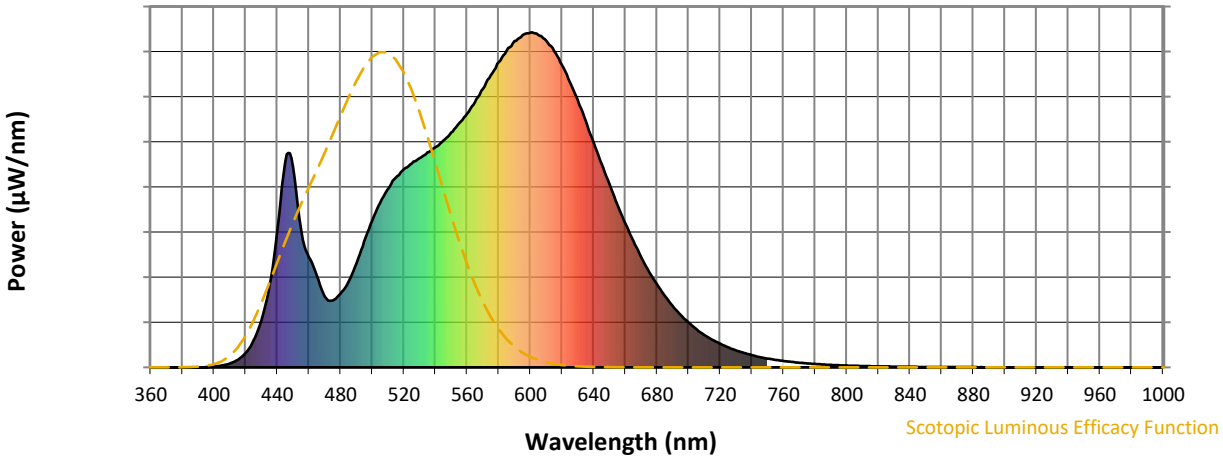


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

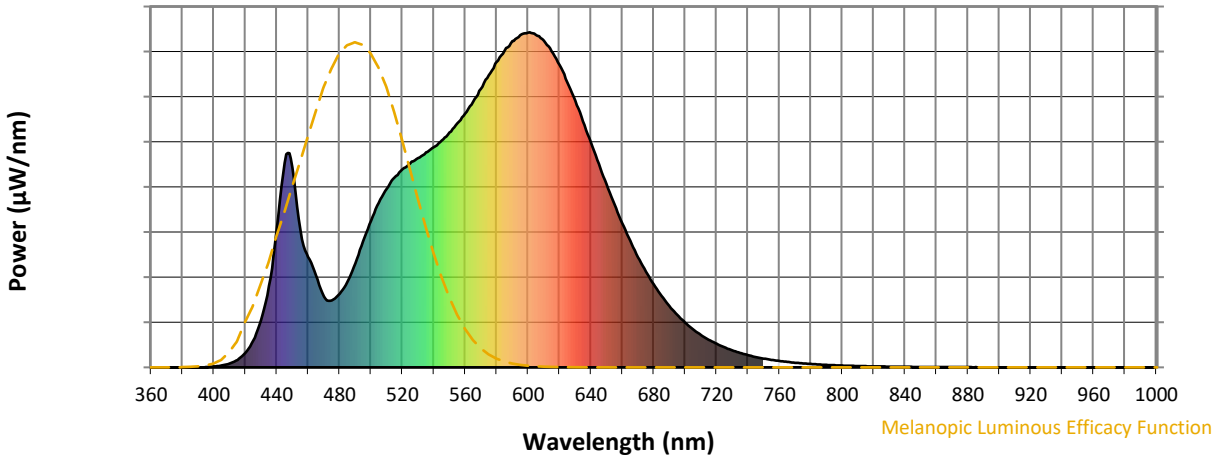


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

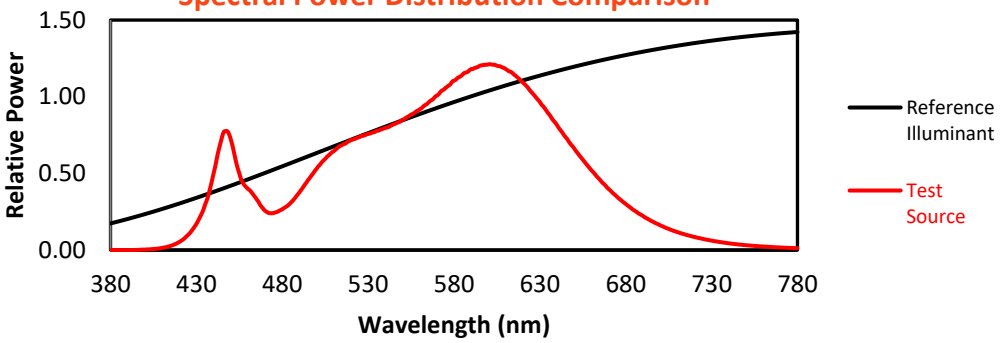
REPORT NUMBER: SP1-2407-184-10

TM-30-18

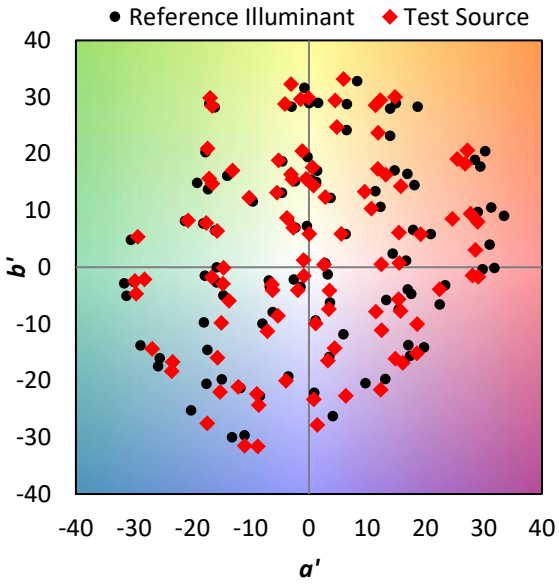
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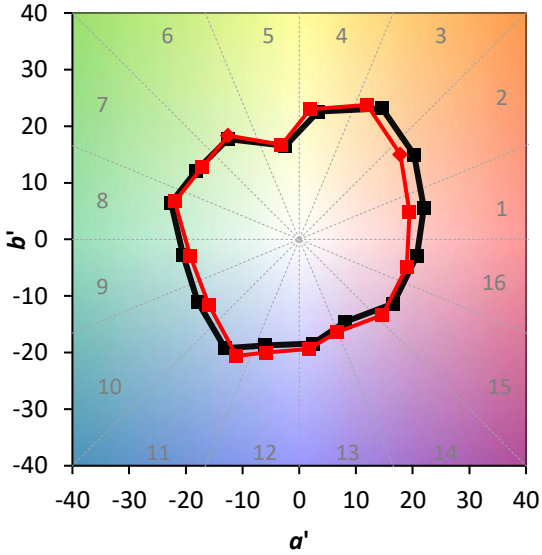
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

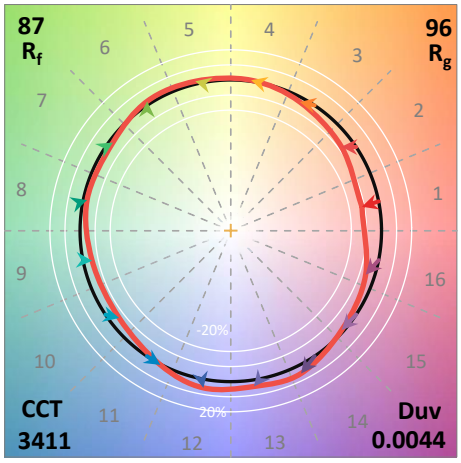
Spectral Power Distribution Comparison

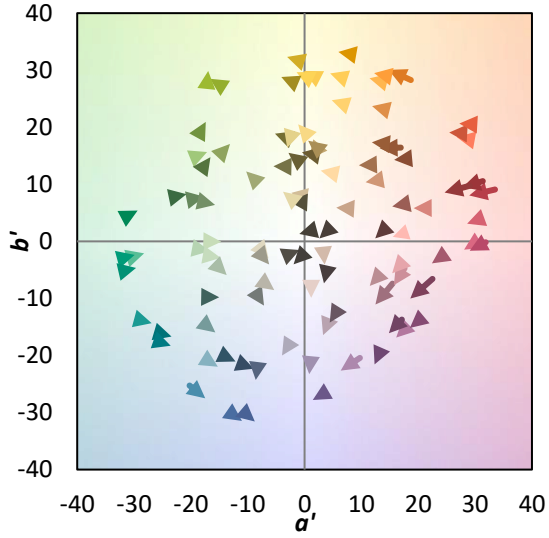


Color Vector Graphics







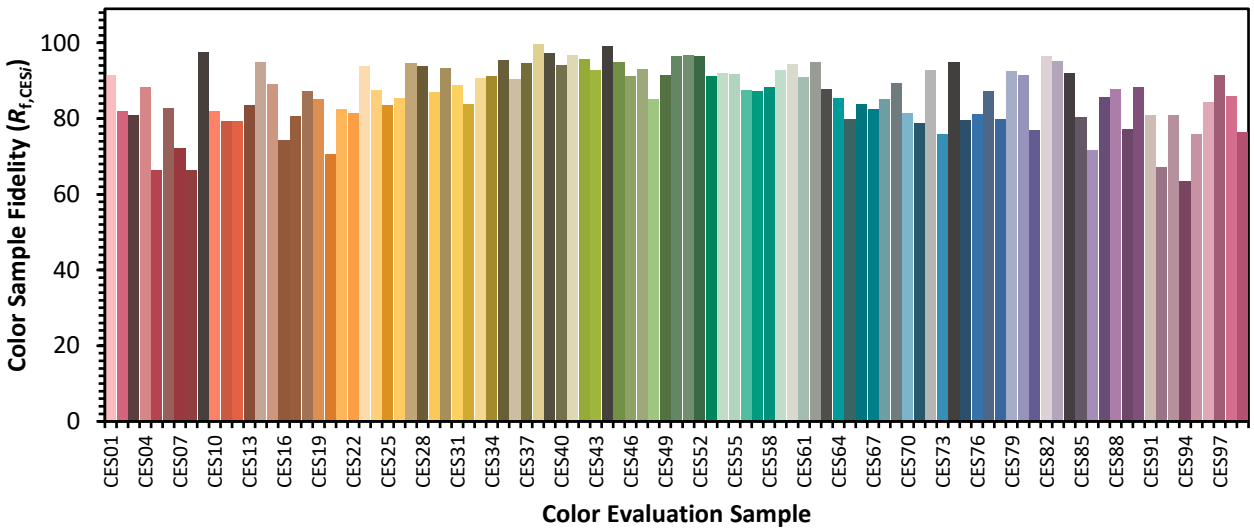


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Individual Sample Fidelity Index ($R_{f,i}$)

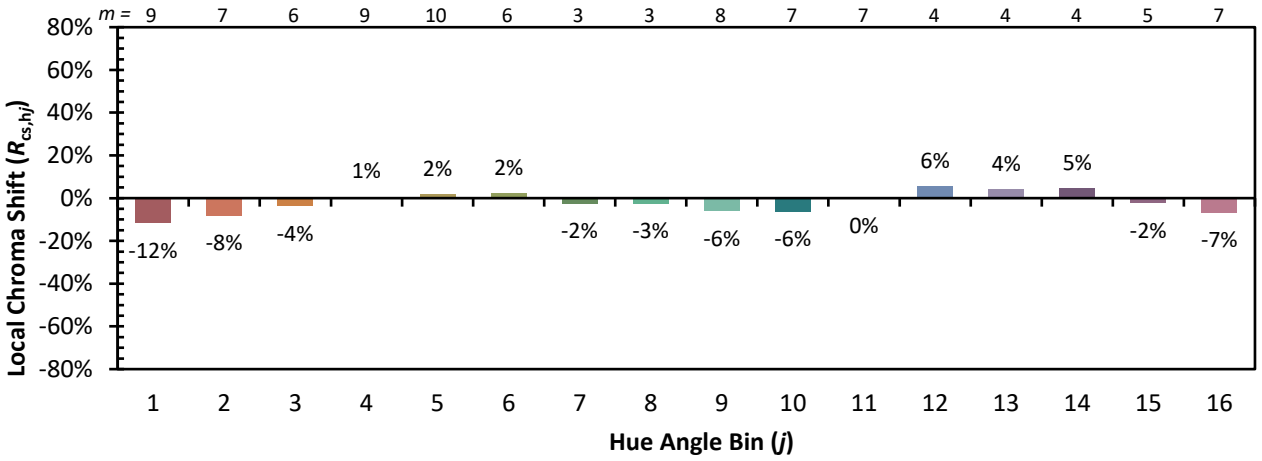
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

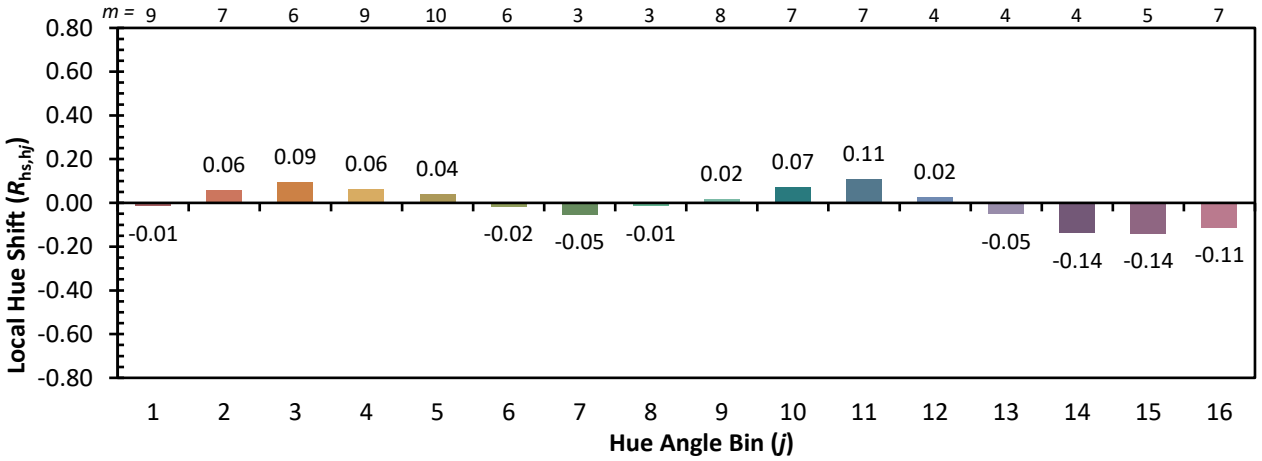


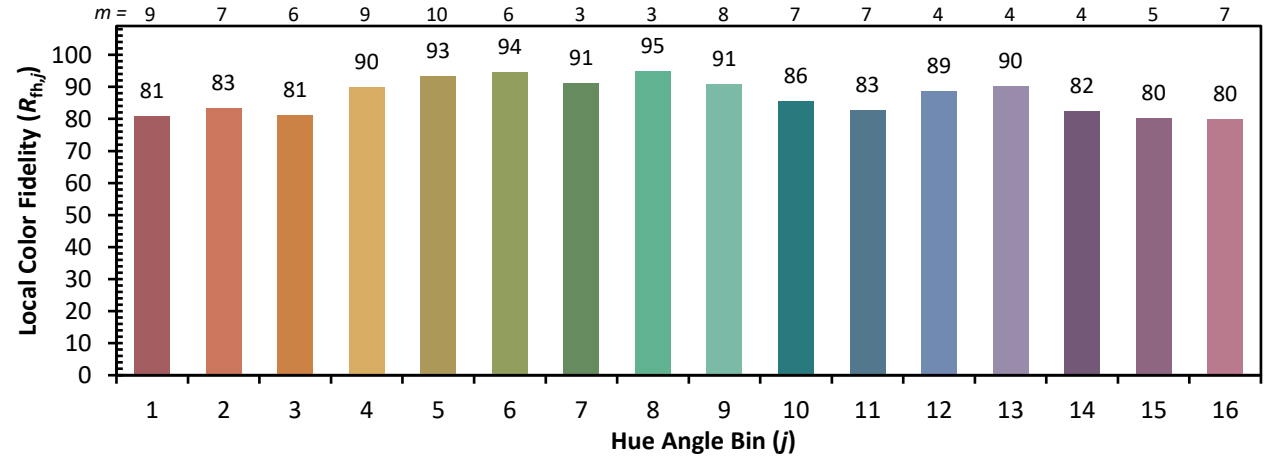
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Color Rendition by Hue-Angle Bin



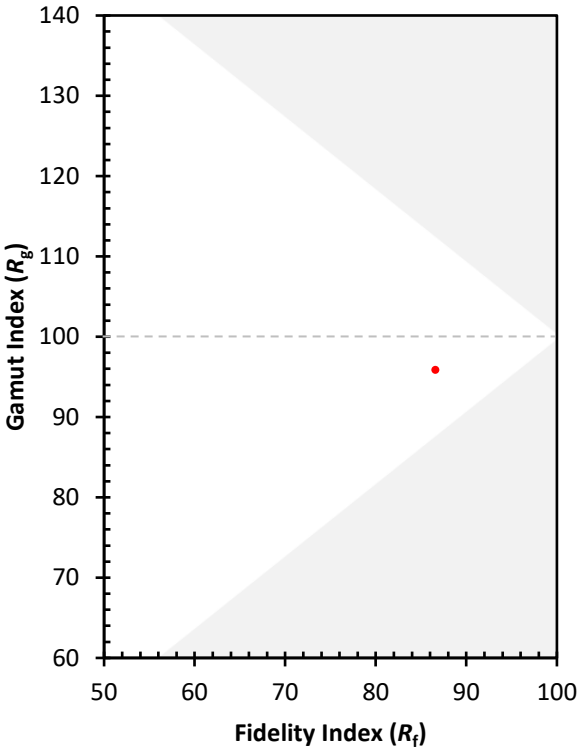


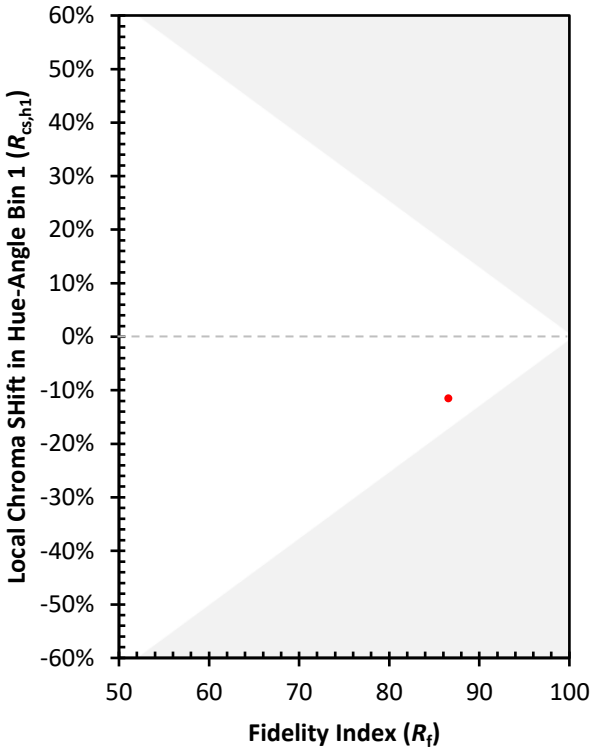


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Measure Comparisons





(END OF REPORT)