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: P1501970

Luminaire Tested: GSS-SB6B-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:	P1501970
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6B-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 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:	25528.9 lumens
Efficiency:	N/A
Efficacy:	116.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G3

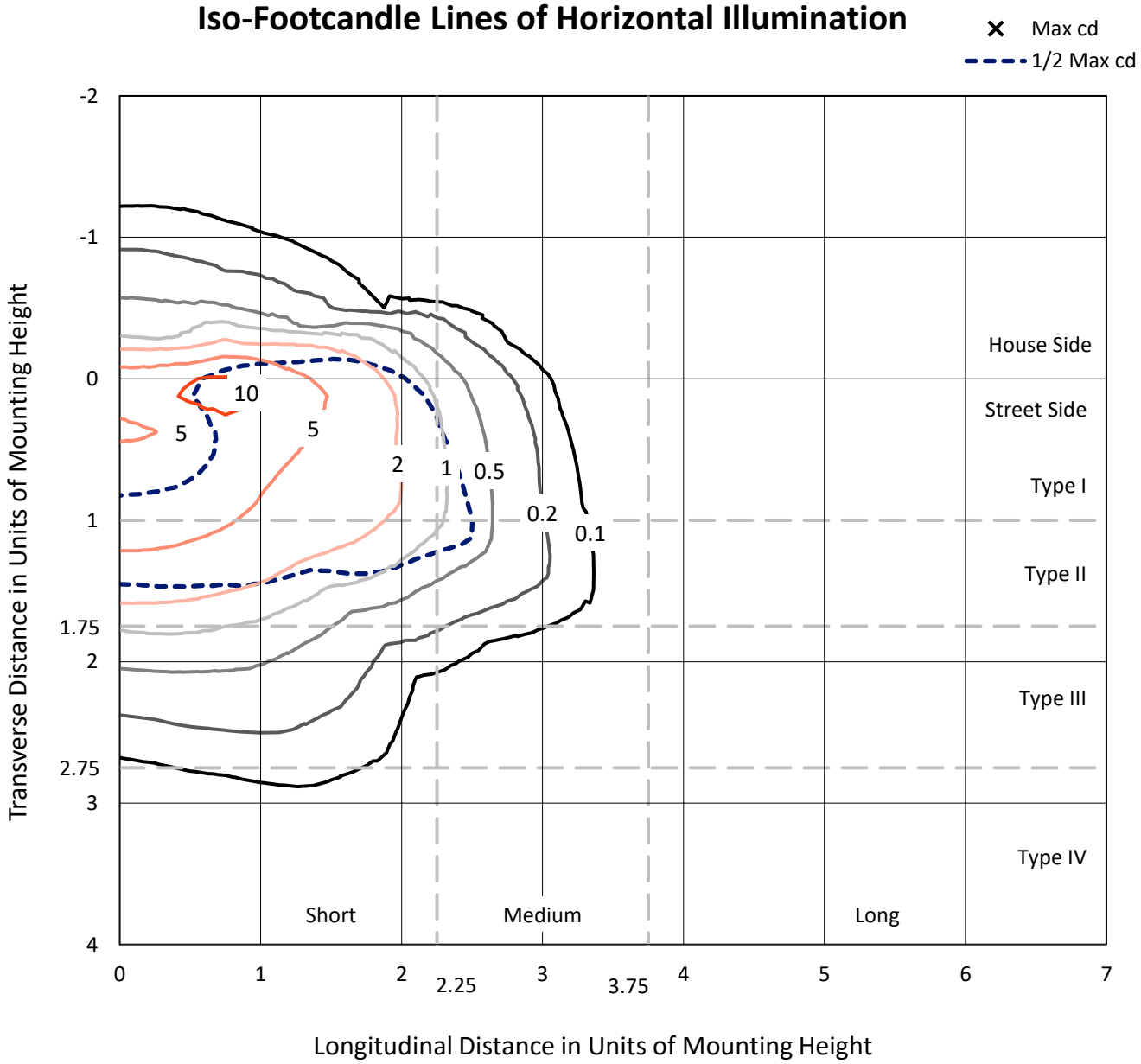
Input Watts (W):	219
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



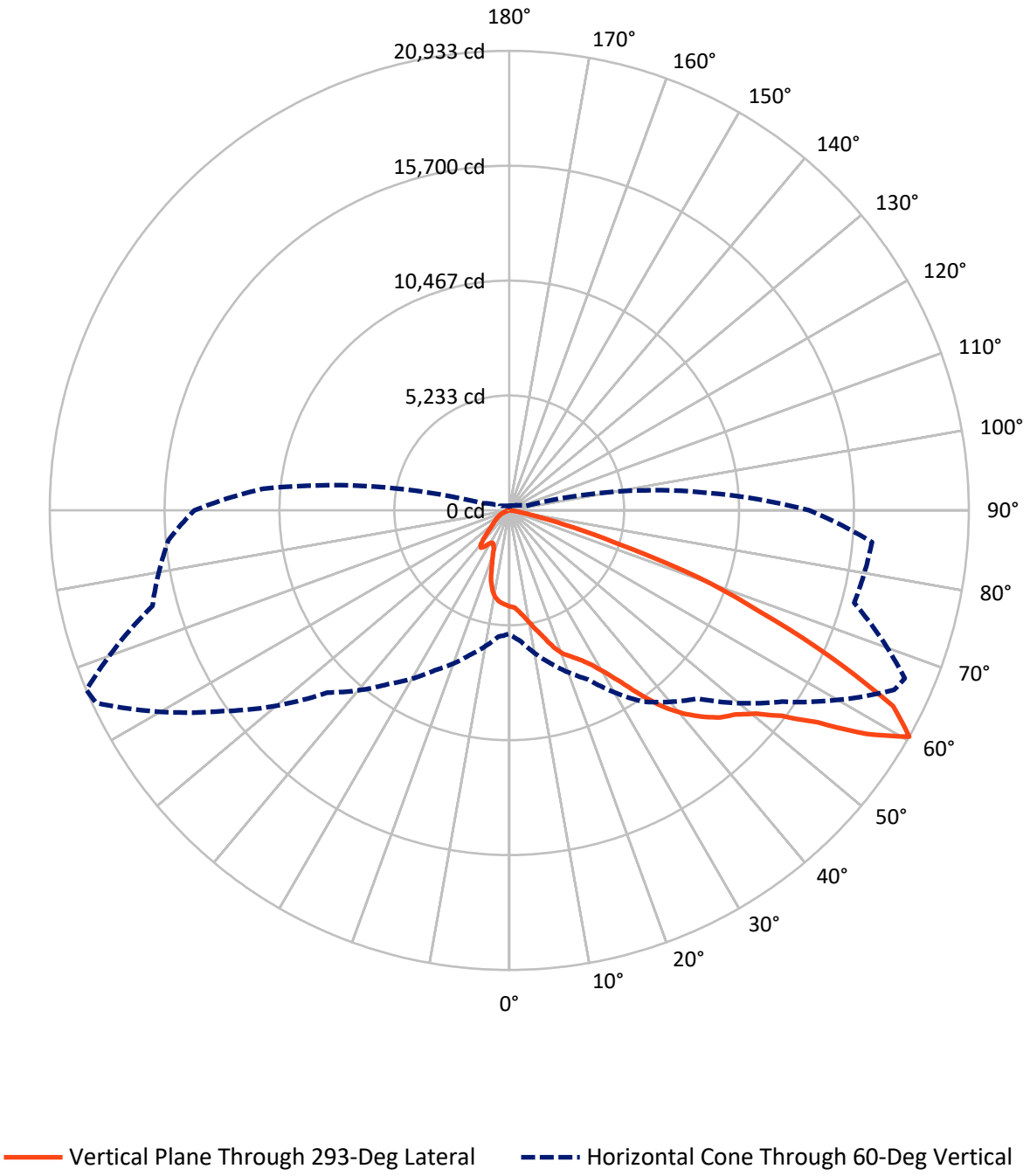
Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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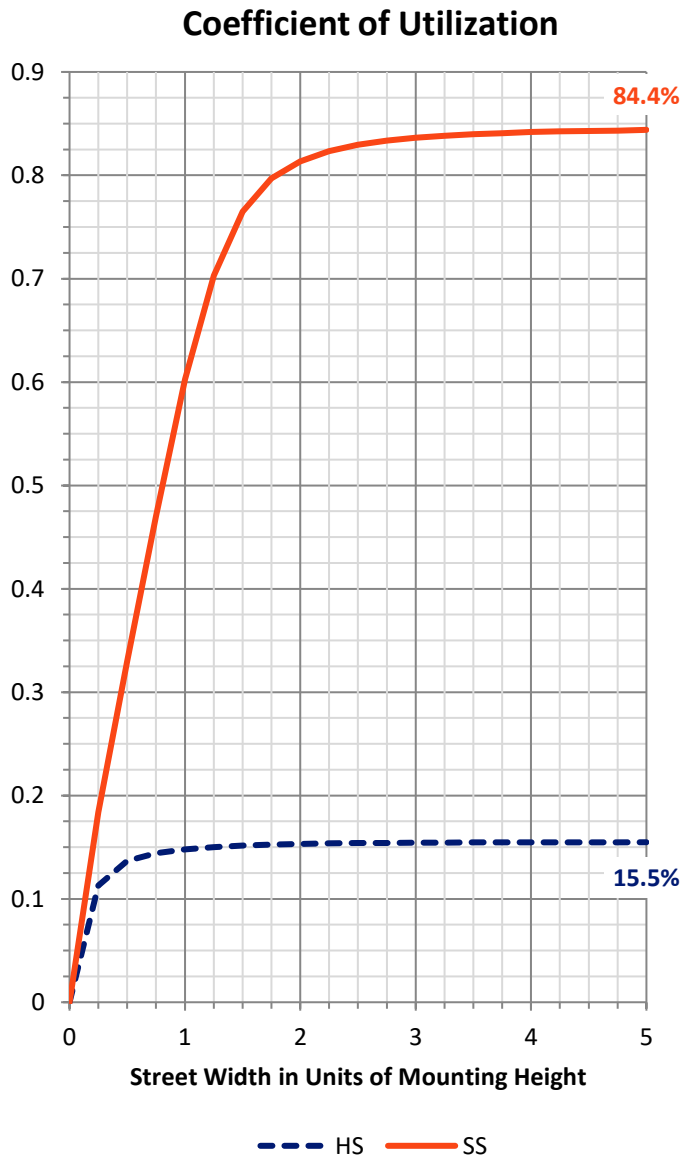
REPORT NUMBER: P1501970
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3983.1	0.0	3983.1
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	21545.8	0.0	21545.8
	% Fixture	84.4	0.0	84.4
Total	Lumens	25528.9	0.0	25528.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	1.6
10°-20°	997.8	3.9
20°-30°	1862.7	7.3
30°-40°	3693.9	14.5
40°-50°	5889.5	23.1
50°-60°	7036.5	27.6
60°-70°	4612.8	18.1
70°-80°	966.4	3.8
80°-90°	73.1	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°	25528.9	100.0
0°-180°	25528.9	100.0



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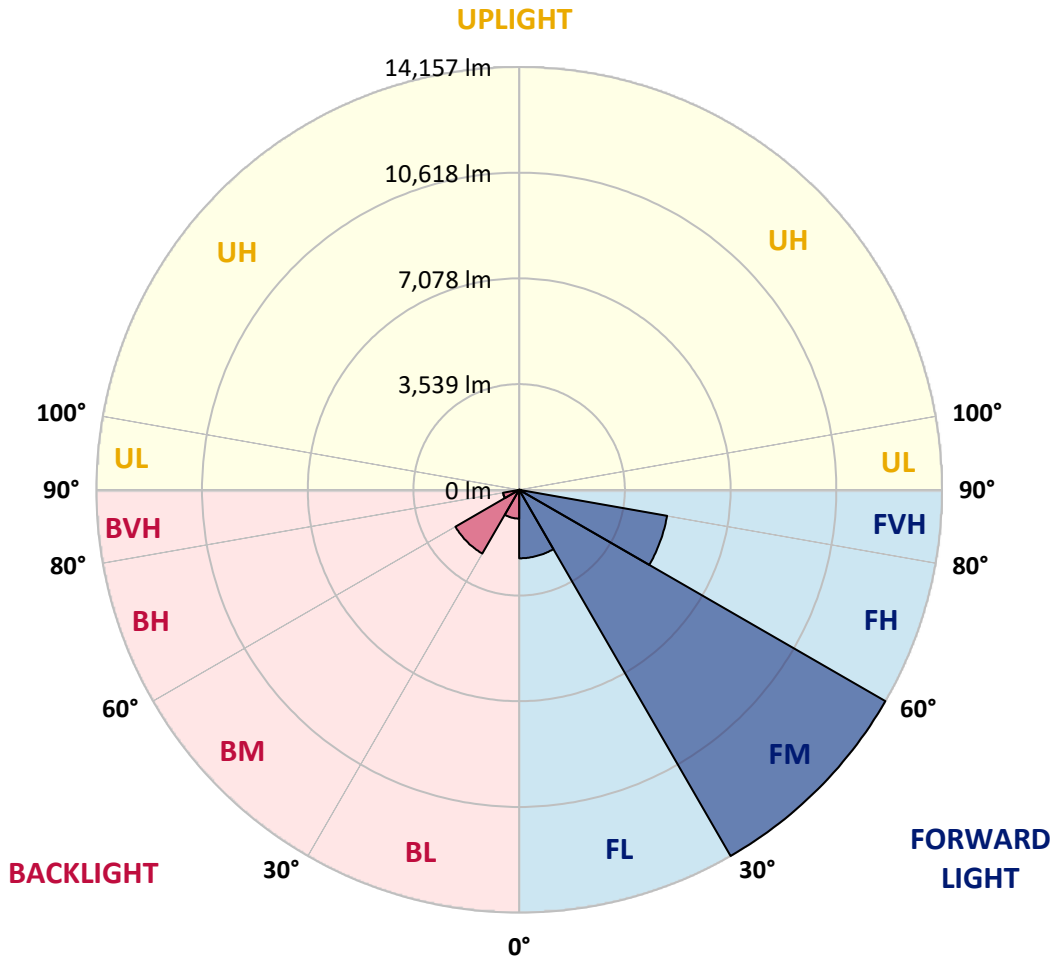
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2293.0	9.0			
FM	(30°-60°)	14156.7	55.5			
FH	(60°-80°)	5029.0	19.7			G3/7500
FVH	(80°-90°)	67.0	0.3			G1/100
BL	(0°-30°)	963.6	3.8	B2/1000		
BM	(30°-60°)	2463.2	9.6	B2/2500		
BH	(60°-80°)	550.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4
2.5°	4597.0	4582.7	4561.3	4568.4	4561.3	4532.7	4489.8	4454.0	4482.6	4439.7	4411.1
5°	4732.9	4732.9	4718.6	4718.6	4725.7	4711.4	4682.8	4632.8	4639.9	4604.2	4511.2
7.5°	4732.9	4711.4	4747.2	4782.9	4847.2	4883.0	4897.3	4868.7	4883.0	4811.5	4690.0
10°	4454.0	4439.7	4532.7	4668.5	4854.4	5018.8	5126.1	5133.2	5154.7	5083.2	4940.2
12.5°	3860.6	3832.0	4017.9	4275.3	4654.2	5033.1	5333.4	5447.8	5497.8	5469.2	5269.1
15°	3310.1	3345.9	3474.6	3753.4	4261.0	4840.1	5447.8	5826.7	5898.2	5933.9	5698.0
17.5°	3252.9	3260.1	3303.0	3438.8	3824.9	4525.5	5462.1	6219.9	6320.0	6477.3	6155.6
20°	3410.2	3395.9	3438.8	3481.7	3667.6	4246.7	5326.3	6598.8	6791.9	7127.9	6777.6
22.5°	3703.4	3703.4	3724.8	3753.4	3846.3	4225.3	5269.1	6949.2	7278.0	7964.4	7556.8
25°	4196.7	4139.5	4153.8	4118.0	4196.7	4482.6	5397.7	7228.0	7678.4	8893.8	8486.3
27.5°	4961.6	4983.1	4854.4	4661.4	4704.3	4947.3	5712.3	7542.5	8093.0	9858.9	9430.0
30°	6019.7	5984.0	5905.3	5526.4	5354.9	5569.3	6291.4	8057.3	8650.7	11081.5	10688.3
32.5°	6849.1	6949.2	6813.3	6548.8	6284.3	6348.6	7106.4	8886.6	9329.9	12203.9	11989.4
35°	7850.0	7850.0	7878.6	7506.8	7328.1	7313.8	8128.8	9787.4	10230.7	13219.1	13369.3
37.5°	9201.2	9108.3	8951.0	8536.3	8400.5	8579.2	9086.8	10716.9	11195.9	14041.3	14441.7
40°	10337.9	10402.3	10380.8	9780.3	9515.8	9708.8	10159.2	11510.4	11882.2	14570.3	15306.7
42.5°	11453.2	11489.0	11396.0	11110.1	10724.0	10738.3	11110.1	12111.0	12489.9	15077.9	16121.7
45°	12289.7	12282.6	12218.2	12146.7	11917.9	11682.0	11746.4	12775.9	13104.7	15242.4	16565.0
47.5°	12554.2	12611.4	12668.6	12868.8	13026.1	12654.3	12325.5	13133.3	13433.6	15213.8	16729.4
50°	12311.2	12432.7	12711.5	13011.8	13548.0	13519.4	12811.6	13519.4	13812.5	15371.1	16922.5
52.5°	11767.8	11889.3	12261.1	12804.5	13612.3	14012.7	13712.4	14170.0	14513.1	15771.4	17322.8
55°	10502.4	10552.4	11317.4	12032.3	13290.6	13798.2	14677.6	15271.0	15557.0	16257.6	17851.9
57.5°	8550.6	8672.1	9422.8	10588.2	12389.8	13233.4	15228.1	17151.3	17144.1	16722.3	17966.3
60°	*5626.5*	*5984.0*	*7206.5*	*8493.4*	*10645.4*	*12125.3*	*15192.3*	*19353.2*	*19574.9*	*16264.7*	*16586.5*
62.5°	4296.7	4446.9	5140.4	6212.8	7878.6	10052.0	14956.4	20011.0	20182.6	15035.0	14520.3
65°	3231.5	3417.4	4082.3	5040.3	5562.2	6813.3	13412.2	17394.3	17630.3	13419.3	11288.8
67.5°	1980.4	2130.5	3017.0	4139.5	4211.0	4232.4	9051.1	13176.2	13262.0	10824.1	7599.7
70°	1322.6	1472.8	2087.6	3181.5	3353.0	2437.9	4968.8	9973.3	9966.2	7406.7	4618.5
72.5°	765.0	836.5	1322.6	2345.0	2638.1	1551.4	2480.8	6341.5	6062.6	3481.7	2159.1
75°	436.1	486.2	729.2	1508.5	1851.7	986.6	979.5	3395.9	3002.7	1794.5	1179.6
77.5°	264.5	286.0	400.4	986.6	1115.3	664.9	543.3	1580.0	1522.8	1051.0	622.0
80°	128.7	150.1	243.1	579.1	714.9	357.5	328.9	622.0	664.9	579.1	328.9
82.5°	42.9	57.2	135.8	221.6	464.7	143.0	135.8	343.2	364.6	343.2	157.3
85°	21.4	28.6	64.3	71.5	178.7	71.5	50.0	150.1	185.9	114.4	64.3
87.5°	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.3	14.3	14.3	14.3
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°	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4
2.5°	4389.7	4375.4	4346.8	4296.7	4289.6	4253.9	4196.7	4160.9	4132.3	4153.8	4160.9
5°	4468.3	4432.6	4346.8	4211.0	4068.0	3925.0	3789.1	3631.9	3524.6	3510.3	3481.7
7.5°	4611.3	4539.8	4353.9	4089.4	3724.8	3381.6	2981.3	2595.2	2402.2	2373.6	2309.2
10°	4840.1	4718.6	4411.1	3874.9	3174.3	2459.4	1851.7	1437.0	1201.1	1158.2	1172.5
12.5°	5111.8	4940.2	4418.3	3510.3	2416.5	1522.8	1051.0	893.7	843.6	822.2	822.2
15°	5462.1	5211.9	4411.1	3038.5	1630.0	979.5	843.6	779.3	757.8	743.5	743.5
17.5°	5905.3	5576.5	4361.1	2330.7	1101.0	850.8	772.1	722.1	693.5	686.3	686.3
20°	6427.3	5984.0	4246.7	1737.3	922.3	793.6	729.2	664.9	643.4	629.1	629.1
22.5°	7092.1	6477.3	4025.1	1351.2	872.2	757.8	686.3	614.8	593.4	579.1	579.1
25°	7864.3	7106.4	3732.0	1215.4	865.1	729.2	643.4	571.9	550.5	543.3	536.2
27.5°	8779.4	7778.5	3460.3	1222.5	879.4	707.8	600.5	536.2	514.8	493.3	500.5
30°	9858.9	8472.0	3238.6	1308.3	893.7	686.3	571.9	514.8	493.3	464.7	464.7
32.5°	10924.2	9287.0	3217.2	1465.6	943.7	672.0	543.3	486.2	464.7	443.3	443.3
35°	12018.0	10030.5	3338.7	1672.9	1043.8	650.6	507.6	457.6	436.1	421.8	414.7
37.5°	13061.8	10623.9	3453.1	1801.6	986.6	557.6	464.7	421.8	400.4	371.8	371.8
40°	13755.3	10945.6	3474.6	1701.5	815.0	500.5	421.8	378.9	350.3	336.0	328.9
42.5°	14262.9	11153.0	3231.5	1379.8	707.8	457.6	386.1	343.2	321.7	307.4	307.4
45°	14470.3	11081.5	2816.8	1051.0	650.6	421.8	350.3	314.6	300.3	286.0	286.0
47.5°	14441.7	10752.6	2395.0	843.6	593.4	386.1	328.9	300.3	286.0	271.7	264.5
50°	14391.6	10445.2	1966.1	750.7	529.1	364.6	307.4	286.0	264.5	250.2	243.1
52.5°	14720.5	10345.1	1630.0	686.3	493.3	350.3	300.3	271.7	250.2	235.9	235.9
55°	15049.3	10388.0	1279.7	643.4	457.6	343.2	293.1	264.5	243.1	221.6	221.6
57.5°	15027.9	10202.1	972.3	600.5	429.0	336.0	286.0	257.4	221.6	207.3	207.3
60°	*13662.4*	*9101.1*	*757.8*	*550.5*	*393.2*	*314.6*	*264.5*	*243.1*	*207.3*	*185.9*	*185.9*
62.5°	11553.3	7156.5	622.0	486.2	350.3	286.0	243.1	221.6	185.9	150.1	150.1
65°	8536.3	5161.8	500.5	421.8	321.7	250.2	221.6	193.0	150.1	121.5	114.4
67.5°	5776.7	3174.3	400.4	350.3	286.0	214.5	185.9	164.4	135.8	100.1	92.9
70°	3424.5	1687.2	293.1	243.1	214.5	157.3	157.3	143.0	114.4	85.8	78.6
72.5°	1630.0	586.2	214.5	178.7	164.4	114.4	121.5	121.5	92.9	64.3	57.2
75°	829.3	286.0	143.0	128.7	107.2	85.8	100.1	92.9	64.3	42.9	42.9
77.5°	471.9	200.2	100.1	85.8	71.5	57.2	64.3	57.2	35.7	21.4	21.4
80°	264.5	143.0	64.3	57.2	42.9	35.7	35.7	28.6	21.4	7.1	7.1
82.5°	100.1	85.8	42.9	28.6	21.4	21.4	14.3	14.3	7.1	0.0	0.0
85°	42.9	21.4	21.4	14.3	14.3	7.1	7.1	7.1	0.0	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	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°	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4
2.5°	4103.7	4118.0	4132.3	4189.5	4203.8	4246.7	4282.5	4325.3	4332.5	4389.7	4389.7
5°	3538.9	3531.8	3653.3	3832.0	3946.4	4103.7	4225.3	4353.9	4425.4	4518.4	4561.3
7.5°	2345.0	2523.7	2795.4	3110.0	3517.5	3896.4	4182.4	4432.6	4604.2	4711.4	4754.3
10°	1165.3	1265.4	1551.4	2066.2	2759.6	3531.8	4139.5	4604.2	4883.0	5004.5	5083.2
12.5°	822.2	843.6	893.7	1172.5	1837.4	2931.2	4003.6	4790.1	5176.1	5404.9	5505.0
15°	736.4	750.7	772.1	850.8	1136.7	2187.7	3760.5	4997.4	5633.7	5898.2	6026.9
17.5°	679.2	686.3	707.8	772.1	893.7	1487.1	3367.3	5219.0	6184.2	6505.9	6749.0
20°	629.1	629.1	650.6	729.2	829.3	1143.9	2802.5	5469.2	6884.8	7349.5	7592.6
22.5°	571.9	586.2	600.5	686.3	807.9	1043.8	2273.5	5662.3	7664.1	8228.9	8514.9
25°	529.1	543.3	557.6	643.4	786.4	1043.8	1966.1	5783.8	8536.3	9208.3	9601.6
27.5°	493.3	507.6	529.1	614.8	765.0	1086.7	1844.5	5819.6	9487.2	10359.4	10888.4
30°	464.7	479.0	500.5	593.4	779.3	1136.7	1887.4	5769.5	10452.3	11546.2	12175.3
32.5°	436.1	450.4	471.9	571.9	779.3	1201.1	2030.4	5669.4	11388.9	12733.0	13505.1
35°	414.7	421.8	429.0	514.8	707.8	1193.9	2209.1	5569.3	12332.6	13905.5	14806.3
37.5°	371.8	378.9	393.2	443.3	564.8	1086.7	2244.9	5447.8	13076.1	14892.1	15885.8
40°	328.9	343.2	357.5	407.5	471.9	879.4	2087.6	5190.4	13469.3	15649.9	16858.1
42.5°	300.3	307.4	321.7	371.8	436.1	700.6	1751.6	4740.0	13819.7	16164.6	17565.9
45°	278.8	286.0	300.3	336.0	407.5	607.7	1379.8	4189.5	13848.3	16329.1	17909.1
47.5°	257.4	264.5	271.7	307.4	393.2	543.3	1058.1	3689.1	13841.1	16543.6	18202.2
50°	243.1	250.2	264.5	293.1	371.8	486.2	872.2	3281.5	14141.4	17008.3	18795.6
52.5°	235.9	235.9	257.4	286.0	350.3	443.3	729.2	2916.9	14298.7	17465.8	19224.6
55°	221.6	228.8	243.1	271.7	328.9	421.8	622.0	2459.4	14370.2	17694.6	19303.2
57.5°	207.3	214.5	235.9	257.4	314.6	400.4	536.2	1837.4	13347.8	16500.7	17987.7
60°	*185.9*	*200.2*	*228.8*	*250.2*	*293.1*	*364.6*	*471.9*	*1244.0*	*11260.2*	*14341.6*	*15585.5*
62.5°	150.1	178.7	207.3	221.6	264.5	307.4	400.4	829.3	8993.9	11867.9	13283.5
65°	114.4	150.1	171.6	193.0	221.6	257.4	336.0	564.8	5998.3	7985.8	9580.1
67.5°	100.1	128.7	143.0	157.3	185.9	221.6	271.7	393.2	3639.0	4797.2	6370.1
70°	78.6	107.2	121.5	114.4	143.0	171.6	193.0	264.5	1858.8	2602.4	3624.7
72.5°	57.2	85.8	92.9	92.9	85.8	121.5	143.0	185.9	807.9	1265.4	1644.3
75°	42.9	57.2	64.3	57.2	50.0	78.6	100.1	121.5	529.1	757.8	958.0
77.5°	21.4	21.4	35.7	35.7	21.4	42.9	50.0	71.5	300.3	443.3	550.5
80°	7.1	0.0	0.0	7.1	0.0	14.3	21.4	35.7	157.3	235.9	343.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	78.6	71.5	178.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	42.9
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: P1501970
CATALOG NUMBER: GSS-SB6B-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4	4375.4
2.5°	4425.4	4425.4	4454.0	4496.9	4518.4	4532.7	4539.8	4554.1	4611.3	4597.0
5°	4611.3	4625.6	4647.1	4690.0	4740.0	4725.7	4725.7	4725.7	4761.5	4732.9
7.5°	4854.4	4897.3	4904.4	4954.5	4918.7	4847.2	4804.4	4740.0	4732.9	4732.9
10°	5247.6	5233.3	5233.3	5169.0	5040.3	4832.9	4647.1	4518.4	4446.9	4454.0
12.5°	5669.4	5612.2	5619.4	5383.4	5018.8	4561.3	4182.4	3903.5	3882.1	3860.6
15°	6191.3	6041.2	6012.6	5469.2	4697.1	3996.5	3624.7	3403.1	3331.6	3310.1
17.5°	6934.9	6555.9	6420.1	5319.1	4275.3	3646.2	3367.3	3267.2	3260.1	3252.9
20°	7721.3	6970.6	6713.2	5097.5	4132.3	3653.3	3446.0	3417.4	3403.1	3410.2
22.5°	8636.4	7235.1	6906.3	5133.2	4261.0	3889.2	3724.8	3703.4	3689.1	3703.4
25°	9580.1	7542.5	7135.0	5419.2	4647.1	4325.3	4132.3	4089.4	4132.3	4196.7
27.5°	10531.0	7957.2	7585.4	5984.0	5269.1	4918.7	4732.9	4890.1	4954.5	4961.6
30°	11374.6	8536.3	8193.1	6777.6	5976.8	5626.5	5662.3	5862.5	5941.1	6019.7
32.5°	12146.7	9308.4	9043.9	7678.4	6892.0	6684.6	6663.2	6813.3	6899.1	6849.1
35°	12926.0	10316.5	10059.1	8657.8	8014.4	7842.8	7664.1	7957.2	7928.6	7850.0
37.5°	13662.4	11331.7	11095.8	9708.8	9043.9	8743.6	8715.0	8979.6	9215.5	9201.2
40°	14191.4	12153.9	11867.9	10752.6	10123.5	9866.1	10016.2	10473.8	10416.6	10337.9
42.5°	14677.6	12854.5	12597.1	11667.7	11010.0	11124.4	11260.2	11567.6	11531.9	11453.2
45°	14906.4	13455.0	13233.4	12361.2	12039.5	12404.1	12396.9	12511.3	12318.3	12289.7
47.5°	15228.1	13884.0	13655.2	12983.2	13269.2	13419.3	12997.5	12876.0	12697.2	12554.2
50°	15821.5	14548.9	14320.1	13926.9	14170.0	13705.3	13190.5	12926.0	12561.4	12311.2
52.5°	16515.0	15557.0	15356.8	15199.5	14520.3	13562.3	12904.5	12425.5	11982.3	11767.8
55°	17387.2	17044.0	16901.0	16036.0	14205.7	12976.0	12203.9	11310.2	10702.6	10502.4
57.5°	17673.2	19224.6	19174.5	16171.8	13326.4	11910.8	10516.7	9308.4	8679.3	8550.6
60°	16829.5	20933.2	20754.5	15943.0	11732.1	9665.9	8035.9	6799.0	5776.7	5626.5
62.5°	15750.0	19624.9	19560.6	14792.0	8936.7	6927.7	6005.4	4847.2	4411.1	4296.7
65°	13490.8	16057.4	16086.0	11867.9	5655.1	4975.9	4933.0	3853.5	3317.3	3231.5
67.5°	10388.0	12318.3	12118.1	7463.9	3295.8	3982.2	3939.3	2816.8	2037.6	1980.4
70°	6069.8	9172.6	8850.9	3882.1	2180.5	3324.4	3031.3	1980.4	1387.0	1322.6
72.5°	2681.0	5047.4	5419.2	1708.7	1537.1	2645.3	2187.7	1215.4	779.3	765.0
75°	1487.1	2502.3	2616.7	743.5	1079.5	1880.3	1322.6	679.2	443.3	436.1
77.5°	893.7	1108.1	1079.5	479.0	807.9	1201.1	800.7	386.1	278.8	264.5
80°	500.5	507.6	429.0	350.3	479.0	672.0	450.4	243.1	128.7	128.7
82.5°	307.4	278.8	221.6	107.2	128.7	407.5	164.4	135.8	42.9	42.9
85°	128.7	85.8	57.2	21.4	50.0	107.2	57.2	64.3	21.4	21.4
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

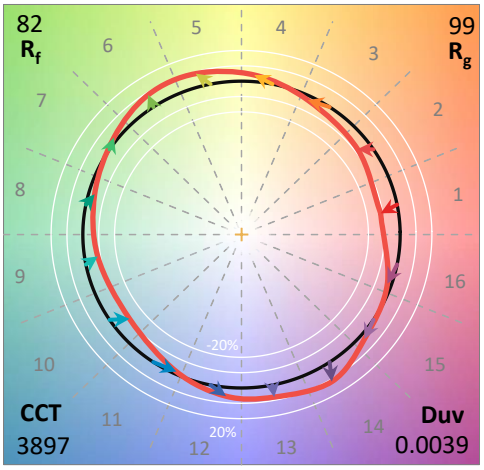
Test Information

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

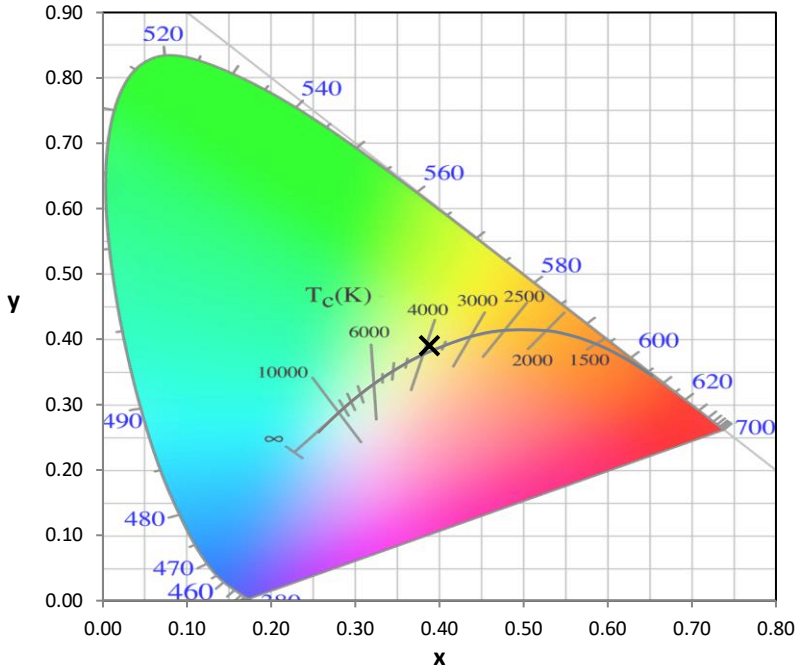
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

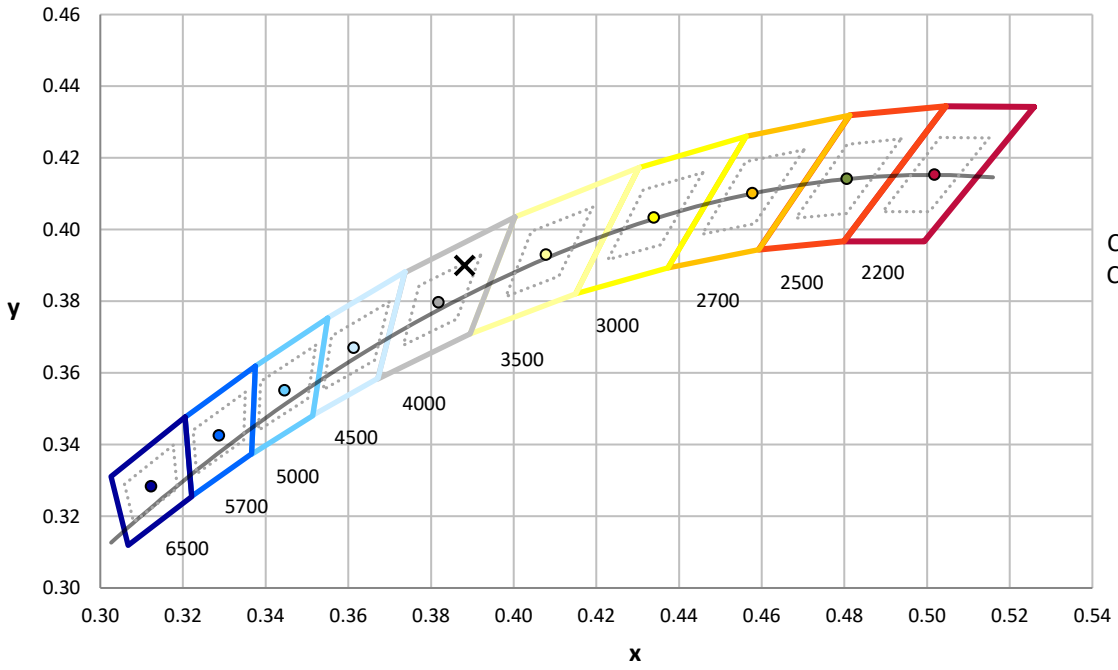
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

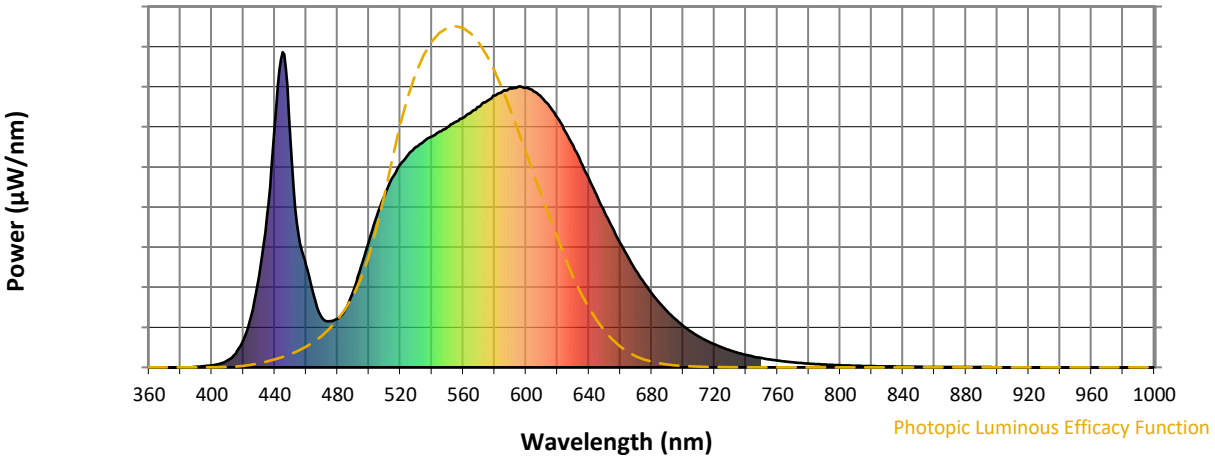


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

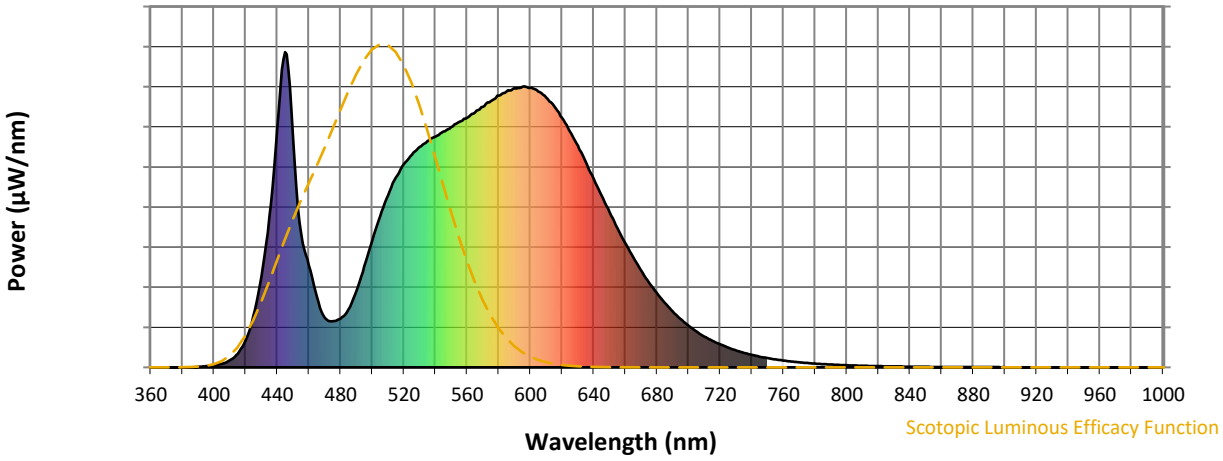


Photopic Lumens: NR

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

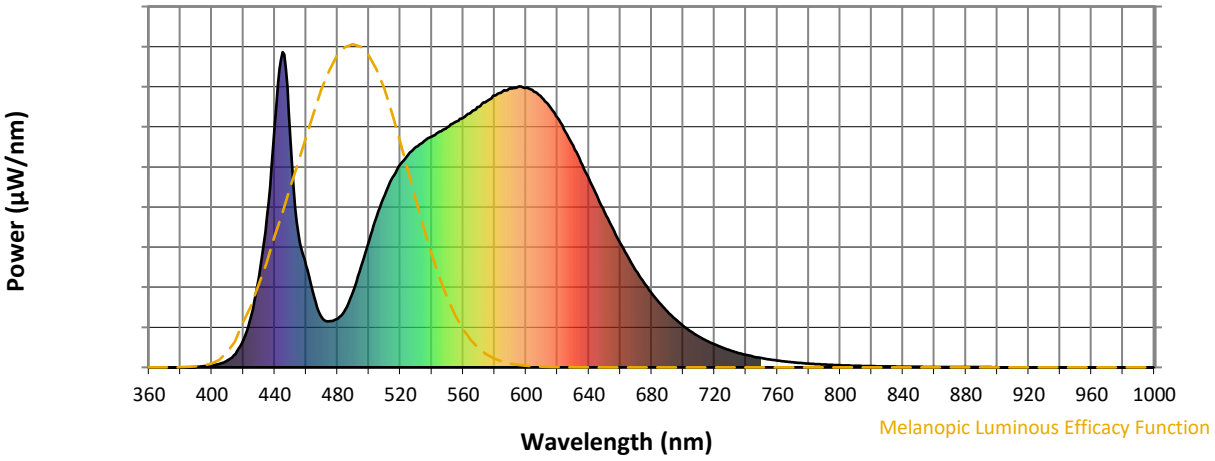


Scotopic Lumens: NR **S/P: 1.57**

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			

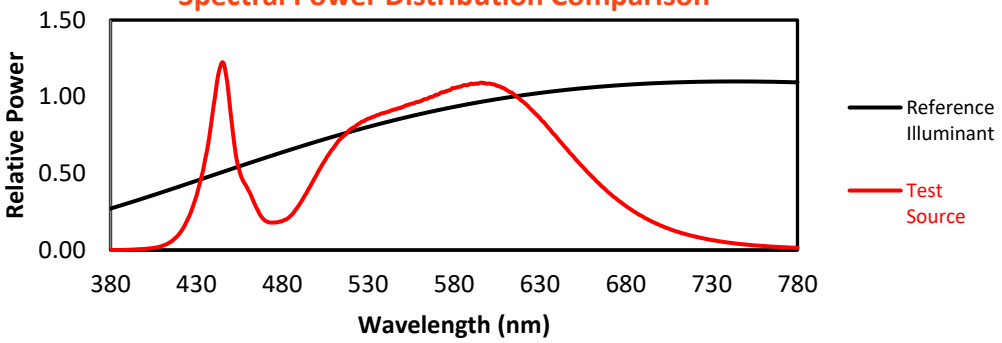
REPORT NUMBER: SP1-2407-184-11

TM-30-18

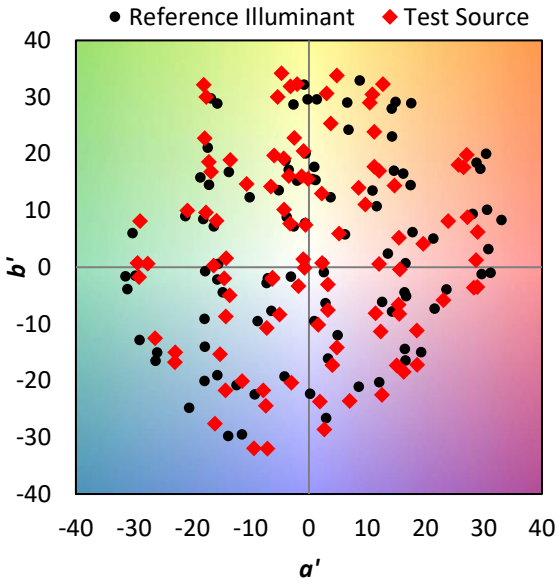
Summary

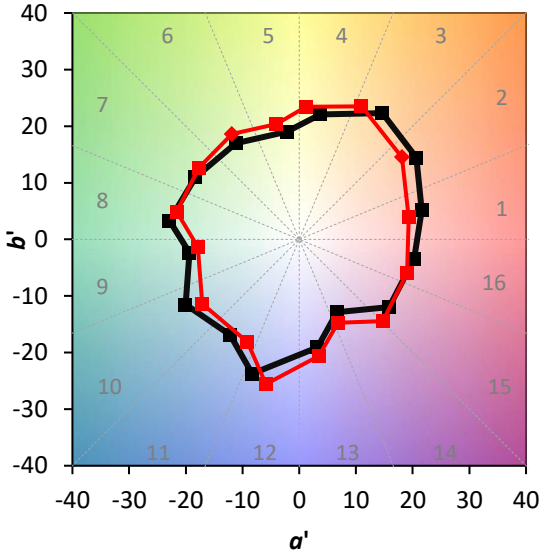
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

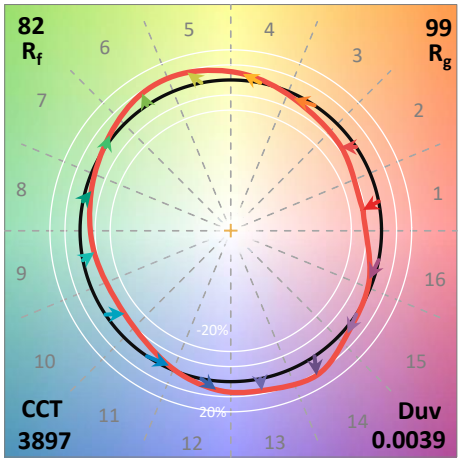
Spectral Power Distribution Comparison

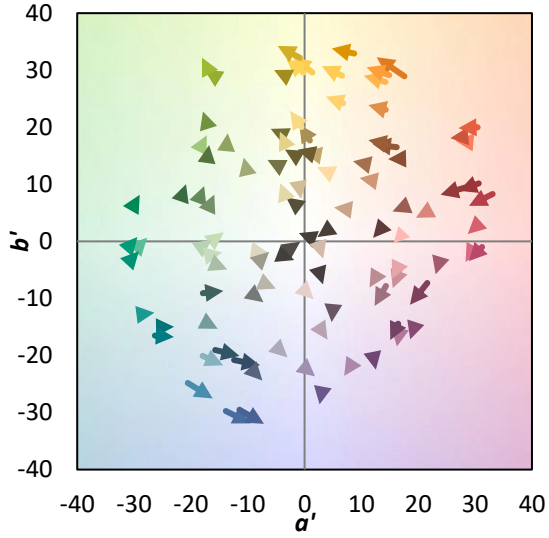


Color Vector Graphics







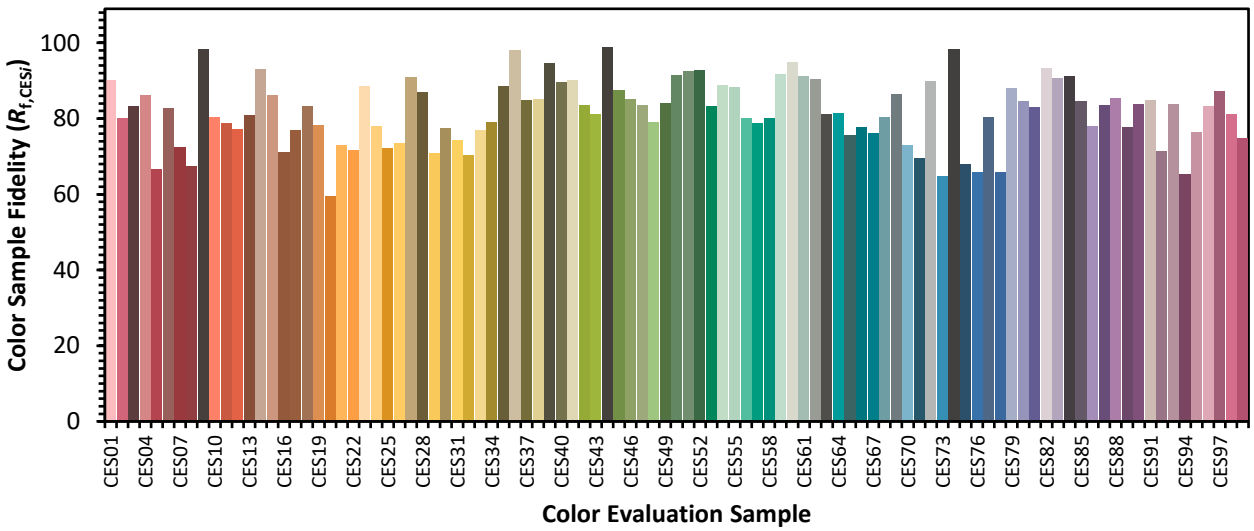


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Individual Sample Fidelity Index ($R_{f,i}$)

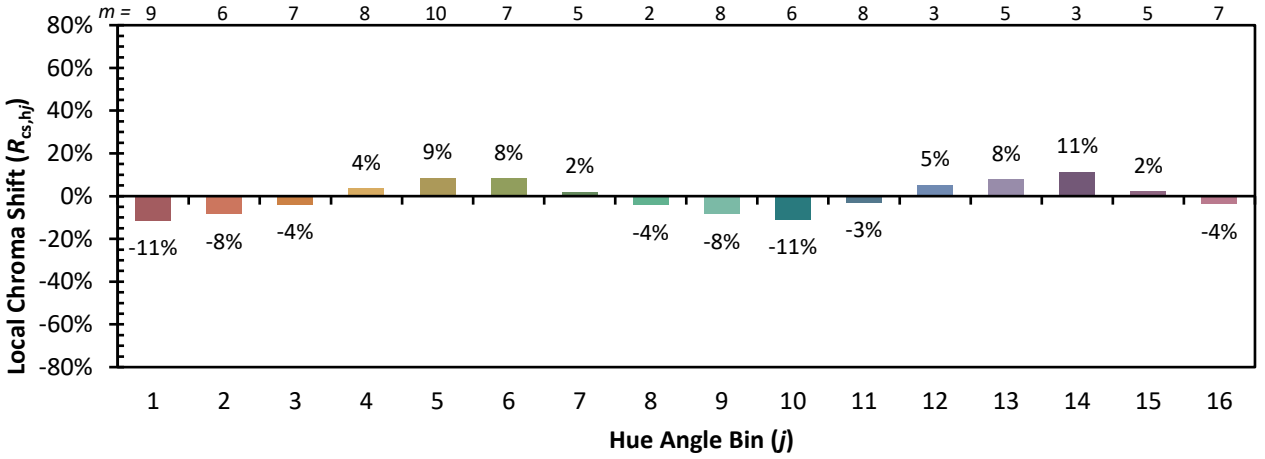
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82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

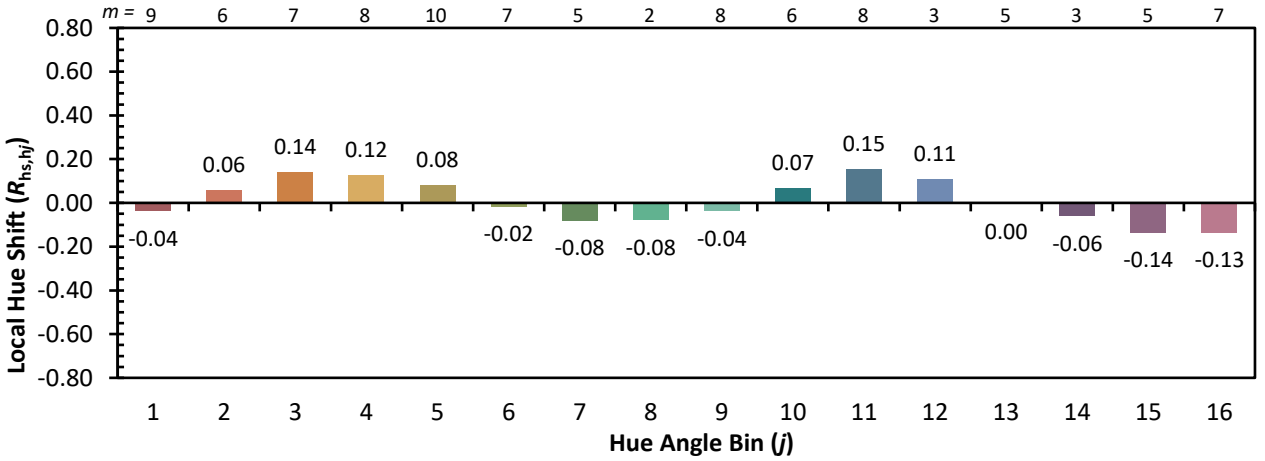


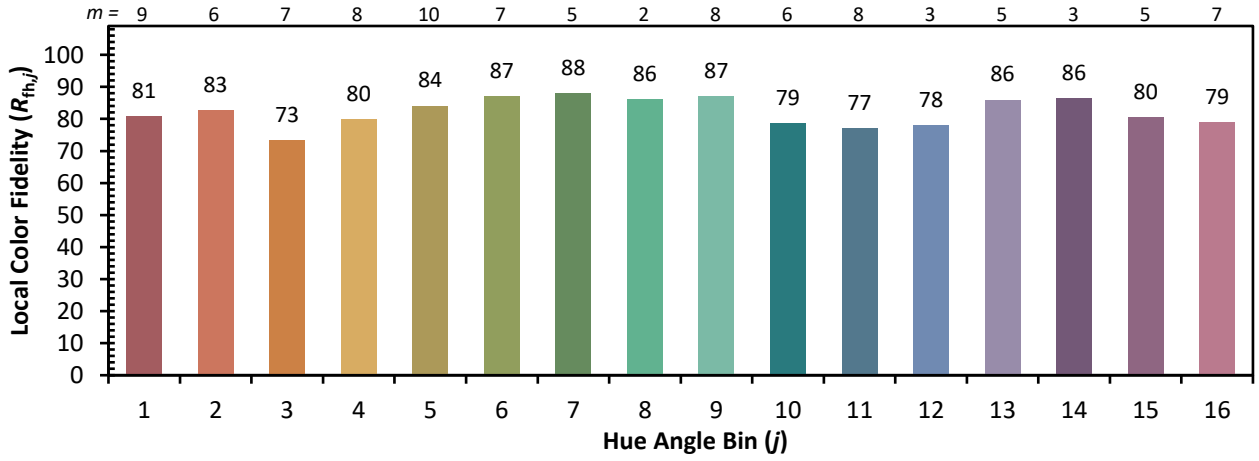
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Color Rendition by Hue-Angle Bin



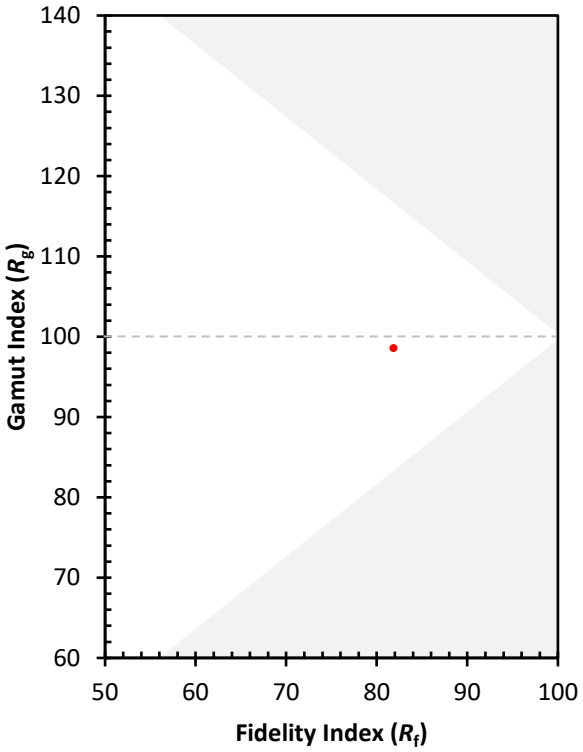


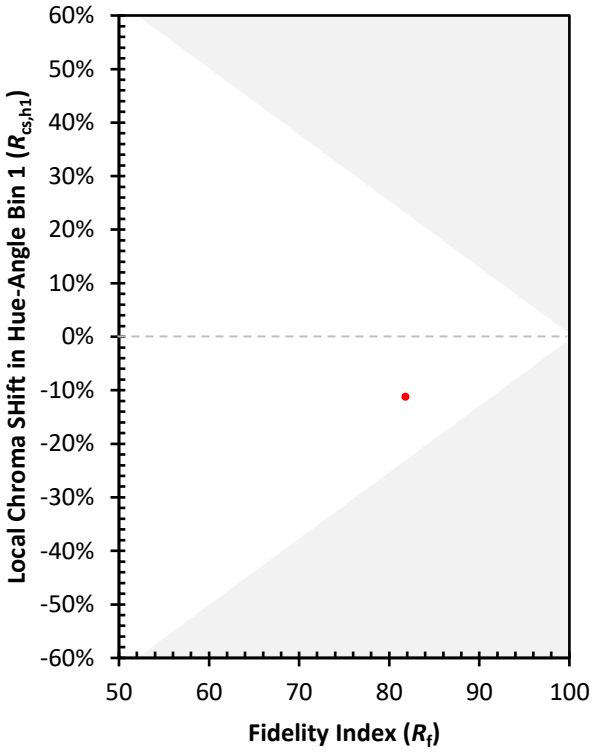


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Measure Comparisons





(END OF REPORT)