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: P1501967

Luminaire Tested: GSS-SB5C-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:	P1501967
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5C-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(130) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28040.7 lumens
Efficiency:	N/A
Efficacy:	111.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

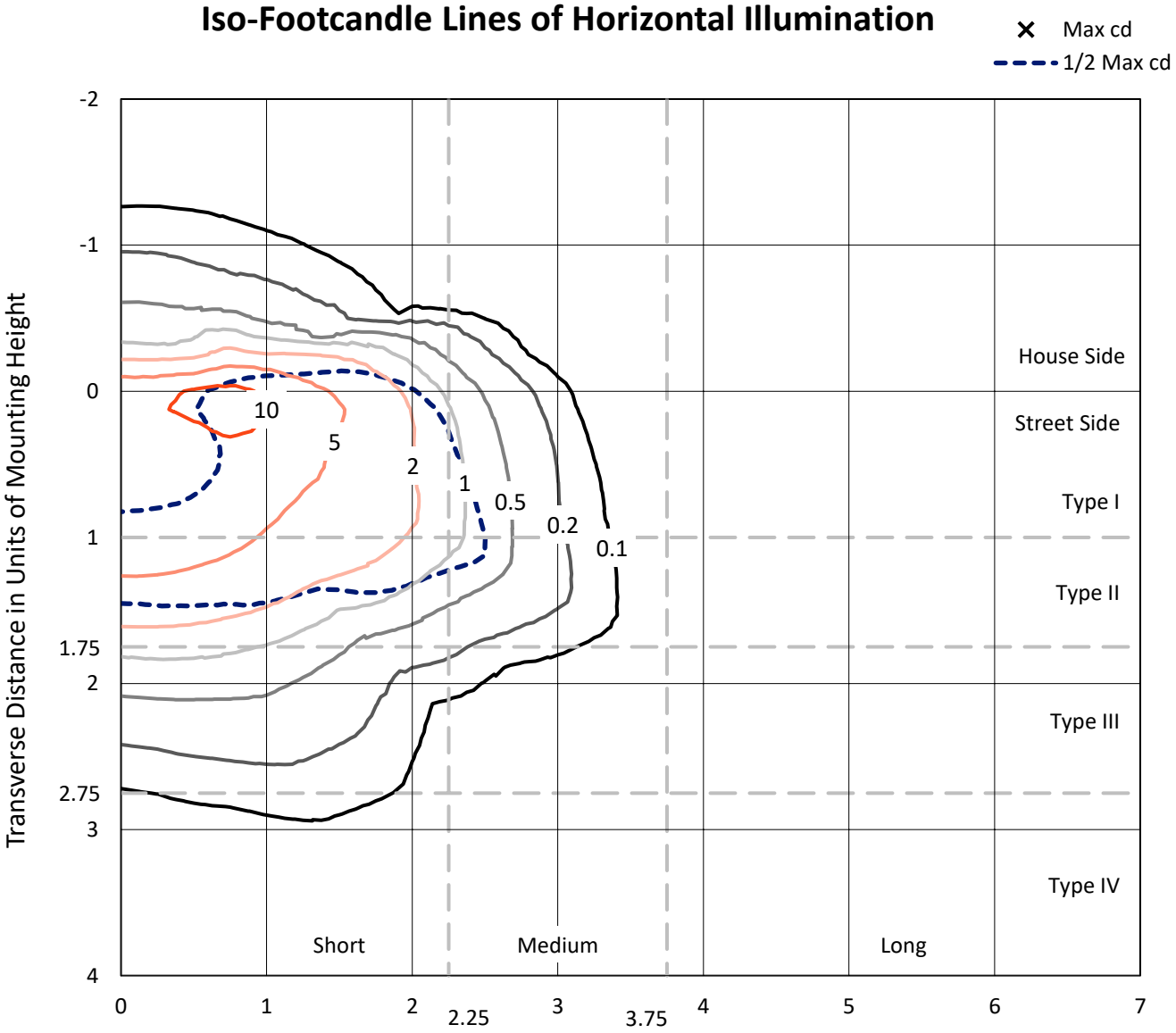
Input Watts (W):	252
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	7.9%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



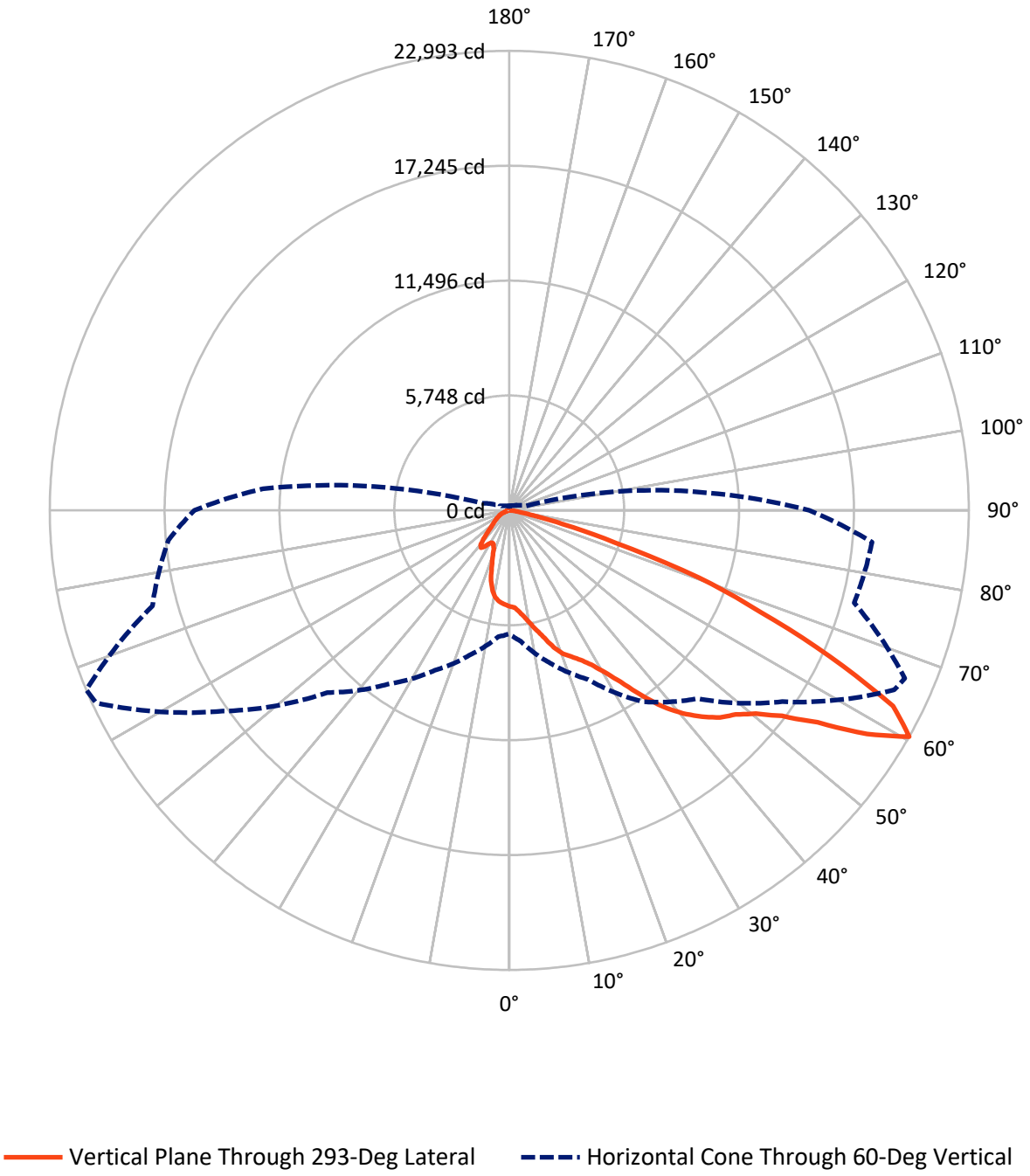
Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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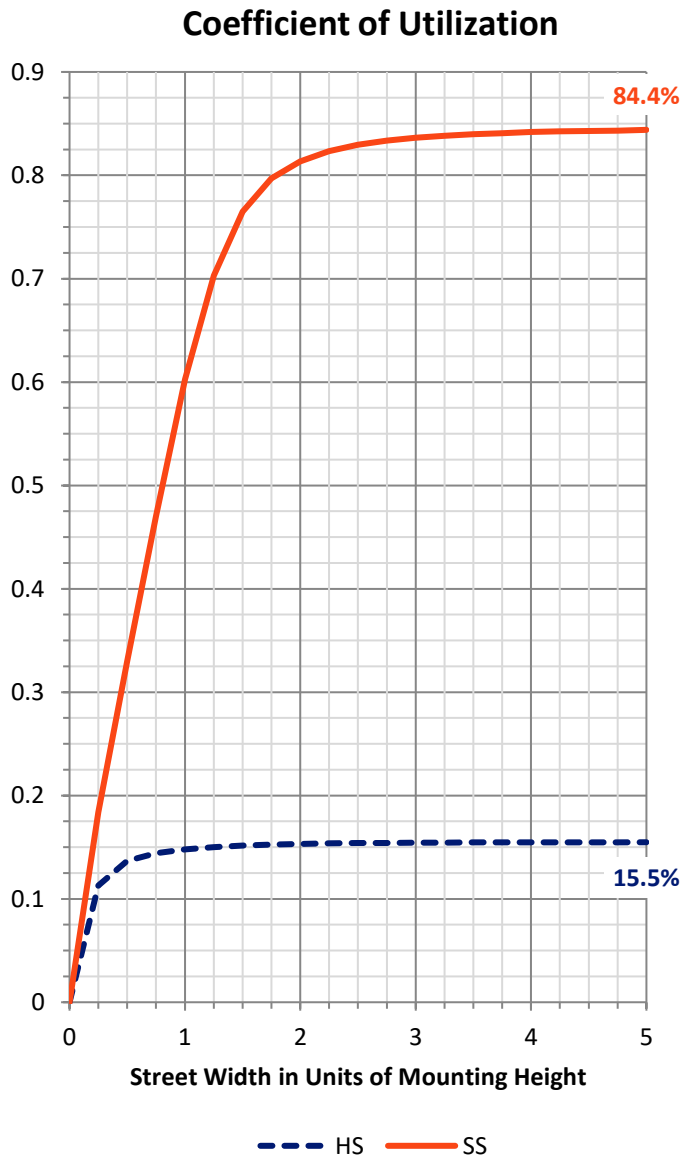
REPORT NUMBER: P1501967
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4375.0	0.0	4375.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	23665.7	0.0	23665.7
	% Fixture	84.4	0.0	84.4
Total	Lumens	28040.7	0.0	28040.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.1	1.6
10°-20°	1096.0	3.9
20°-30°	2046.0	7.3
30°-40°	4057.4	14.5
40°-50°	6469.0	23.1
50°-60°	7728.8	27.6
60°-70°	5066.7	18.1
70°-80°	1061.5	3.8
80°-90°	80.3	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°	28040.7	100.0
0°-180°	28040.7	100.0



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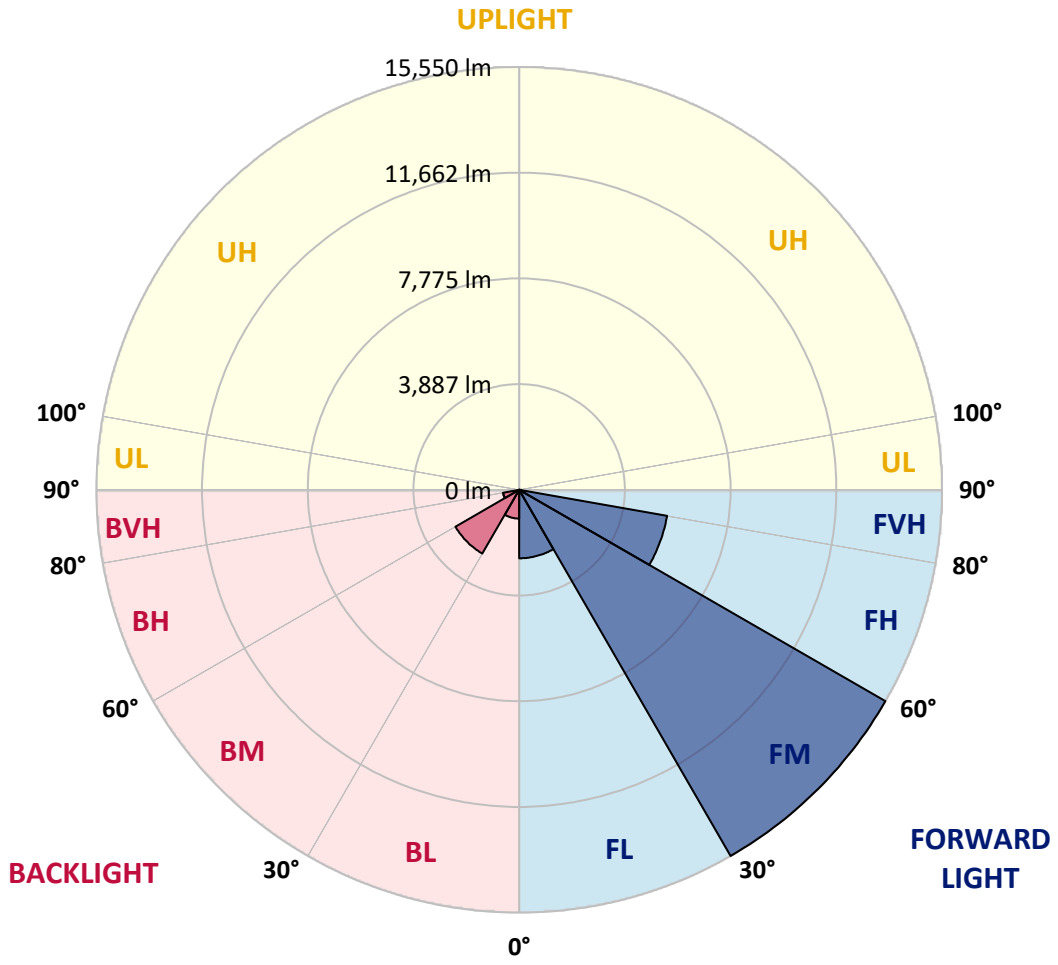
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2518.6	9.0			
FM	(30°-60°)	15549.7	55.5			
FH	(60°-80°)	5523.9	19.7			G3/7500
FVH	(80°-90°)	73.6	0.3			G1/100
BL	(0°-30°)	1058.5	3.8	B3/2500		
BM	(30°-60°)	2705.5	9.6	B3/5000		
BH	(60°-80°)	604.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9
2.5°	5049.3	5033.6	5010.1	5017.9	5010.1	4978.7	4931.5	4892.3	4923.7	4876.6	4845.2
5°	5198.5	5198.5	5182.8	5182.8	5190.7	5175.0	5143.6	5088.6	5096.5	5057.2	4955.1
7.5°	5198.5	5175.0	5214.2	5253.5	5324.2	5363.4	5379.2	5347.7	5363.4	5284.9	5151.4
10°	4892.3	4876.6	4978.7	5127.9	5332.0	5512.6	5630.4	5638.3	5661.9	5583.3	5426.3
12.5°	4240.5	4209.1	4413.3	4696.0	5112.2	5528.4	5858.2	5983.8	6038.8	6007.4	5787.5
15°	3635.8	3675.1	3816.4	4122.7	4680.3	5316.3	5983.8	6400.0	6478.5	6517.8	6258.7
17.5°	3573.0	3580.9	3628.0	3777.2	4201.2	4970.8	5999.5	6831.9	6941.9	7114.6	6761.2
20°	3745.8	3730.1	3777.2	3824.3	4028.5	4664.5	5850.3	7248.1	7460.1	7829.2	7444.4
22.5°	4067.7	4067.7	4091.3	4122.7	4224.8	4641.0	5787.5	7632.9	7994.1	8748.0	8300.4
25°	4609.6	4546.8	4562.5	4523.2	4609.6	4923.7	5928.8	7939.2	8433.9	9768.9	9321.2
27.5°	5449.8	5473.4	5332.0	5120.0	5167.1	5434.1	6274.4	8284.7	8889.3	10829.0	10357.8
30°	6612.0	6572.8	6486.4	6070.2	5881.7	6117.3	6910.4	8850.1	9501.9	12171.8	11739.9
32.5°	7523.0	7632.9	7483.7	7193.1	6902.6	6973.3	7805.7	9761.0	10247.9	13404.7	13169.1
35°	8622.3	8622.3	8653.8	8245.4	8049.1	8033.4	8928.6	10750.4	11237.3	14519.8	14684.7
37.5°	10106.5	10004.4	9831.7	9376.2	9227.0	9423.3	9980.9	11771.3	12297.4	15422.8	15862.6
40°	11355.1	11425.8	11402.2	10742.6	10452.0	10664.1	11158.8	12643.0	13051.3	16004.0	16812.8
42.5°	12580.1	12619.4	12517.3	12203.2	11779.2	11794.9	12203.2	13302.6	13718.8	16561.5	17708.0
45°	13498.9	13491.1	13420.4	13341.9	13090.6	12831.4	12902.1	14032.9	14394.1	16742.1	18194.9
47.5°	13789.5	13852.3	13915.1	14135.0	14307.8	13899.4	13538.2	14425.5	14755.4	16710.7	18375.5
50°	13522.5	13656.0	13962.2	14292.0	14881.0	14849.6	14072.2	14849.6	15171.6	16883.5	18587.5
52.5°	12925.7	13059.2	13467.5	14064.3	14951.7	15391.4	15061.6	15564.2	15941.1	17323.2	19027.3
55°	11535.7	11590.7	12430.9	13216.2	14598.3	15155.9	16121.7	16773.5	17087.6	17857.2	19608.4
57.5°	9391.9	9525.4	10350.0	11630.0	13608.9	14535.5	16726.4	18838.8	18831.0	18367.6	19734.0
60°	*6180.1*	*6572.8*	*7915.6*	*9329.1*	*11692.8*	*13318.3*	*16687.1*	*21257.5*	*21500.9*	*17865.1*	*18218.4*
62.5°	4719.5	4884.4	5646.1	6824.1	8653.8	11041.0	16428.0	21979.9	22168.4	16514.4	15949.0
65°	3549.5	3753.6	4483.9	5536.2	6109.5	7483.7	14731.8	19105.8	19364.9	14739.7	12399.5
67.5°	2175.2	2340.1	3313.9	4546.8	4625.3	4648.8	9941.6	14472.7	14566.9	11889.1	8347.5
70°	1452.8	1617.7	2293.0	3494.5	3683.0	2677.8	5457.7	10954.6	10946.8	8135.5	5072.9
72.5°	840.2	918.8	1452.8	2575.7	2897.7	1704.1	2724.9	6965.4	6659.2	3824.3	2371.5
75°	479.0	534.0	801.0	1656.9	2033.9	1083.7	1075.8	3730.1	3298.2	1971.0	1295.7
77.5°	290.6	314.1	439.8	1083.7	1225.0	730.3	596.8	1735.5	1672.6	1154.4	683.2
80°	141.3	164.9	267.0	636.1	785.3	392.6	361.2	683.2	730.3	636.1	361.2
82.5°	47.1	62.8	149.2	243.4	510.4	157.1	149.2	376.9	400.5	376.9	172.8
85°	23.6	31.4	70.7	78.5	196.3	78.5	55.0	164.9	204.2	125.6	70.7
87.5°	0.0	7.9	7.9	7.9	7.9	7.9	7.9	15.7	15.7	15.7	15.7
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°	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9
2.5°	4821.6	4805.9	4774.5	4719.5	4711.7	4672.4	4609.6	4570.3	4538.9	4562.5	4570.3
5°	4908.0	4868.7	4774.5	4625.3	4468.2	4311.2	4162.0	3989.2	3871.4	3855.7	3824.3
7.5°	5065.0	4986.5	4782.3	4491.8	4091.3	3714.4	3274.6	2850.6	2638.5	2607.1	2536.4
10°	5316.3	5182.8	4845.2	4256.2	3486.6	2701.4	2033.9	1578.4	1319.3	1272.1	1287.9
12.5°	5614.7	5426.3	4853.0	3855.7	2654.2	1672.6	1154.4	981.6	926.6	903.1	903.1
15°	5999.5	5724.7	4845.2	3337.4	1790.4	1075.8	926.6	856.0	832.4	816.7	816.7
17.5°	6486.4	6125.2	4790.2	2560.0	1209.3	934.5	848.1	793.1	761.7	753.9	753.9
20°	7059.6	6572.8	4664.5	1908.2	1013.0	871.7	801.0	730.3	706.7	691.0	691.0
22.5°	7790.0	7114.6	4421.1	1484.2	958.0	832.4	753.9	675.3	651.8	636.1	636.1
25°	8638.1	7805.7	4099.1	1335.0	950.2	801.0	706.7	628.2	604.7	596.8	589.0
27.5°	9643.2	8543.8	3800.7	1342.8	965.9	777.4	659.6	589.0	565.4	541.8	549.7
30°	10829.0	9305.5	3557.3	1437.1	981.6	753.9	628.2	565.4	541.8	510.4	510.4
32.5°	11999.0	10200.8	3533.7	1609.8	1036.6	738.2	596.8	534.0	510.4	486.9	486.9
35°	13200.5	11017.4	3667.2	1837.5	1146.5	714.6	557.5	502.6	479.0	463.3	455.5
37.5°	14347.0	11669.2	3792.9	1978.9	1083.7	612.5	510.4	463.3	439.8	408.3	408.3
40°	15108.7	12022.6	3816.4	1869.0	895.2	549.7	463.3	416.2	384.8	369.1	361.2
42.5°	15666.3	12250.3	3549.5	1515.6	777.4	502.6	424.0	376.9	353.4	337.7	337.7
45°	15894.0	12171.8	3094.0	1154.4	714.6	463.3	384.8	345.5	329.8	314.1	314.1
47.5°	15862.6	11810.6	2630.7	926.6	651.8	424.0	361.2	329.8	314.1	298.4	290.6
50°	15807.6	11472.9	2159.5	824.5	581.1	400.5	337.7	314.1	290.6	274.8	267.0
52.5°	16168.9	11363.0	1790.4	753.9	541.8	384.8	329.8	298.4	274.8	259.1	259.1
55°	16530.1	11410.1	1405.6	706.7	502.6	376.9	322.0	290.6	267.0	243.4	243.4
57.5°	16506.5	11205.9	1068.0	659.6	471.2	369.1	314.1	282.7	243.4	227.7	227.7
60°	*15006.7*	*9996.6*	*832.4*	*604.7*	*431.9*	*345.5*	*290.6*	*267.0*	*227.7*	*204.2*	*204.2*
62.5°	12690.1	7860.6	683.2	534.0	384.8	314.1	267.0	243.4	204.2	164.9	164.9
65°	9376.2	5669.7	549.7	463.3	353.4	274.8	243.4	212.0	164.9	133.5	125.6
67.5°	6345.0	3486.6	439.8	384.8	314.1	235.6	204.2	180.6	149.2	109.9	102.1
70°	3761.5	1853.3	322.0	267.0	235.6	172.8	172.8	157.1	125.6	94.2	86.4
72.5°	1790.4	643.9	235.6	196.3	180.6	125.6	133.5	133.5	102.1	70.7	62.8
75°	910.9	314.1	157.1	141.3	117.8	94.2	109.9	102.1	70.7	47.1	47.1
77.5°	518.3	219.9	109.9	94.2	78.5	62.8	70.7	62.8	39.3	23.6	23.6
80°	290.6	157.1	70.7	62.8	47.1	39.3	39.3	31.4	23.6	7.9	7.9
82.5°	109.9	94.2	47.1	31.4	23.6	23.6	15.7	15.7	7.9	0.0	0.0
85°	47.1	23.6	23.6	15.7	15.7	7.9	7.9	7.9	0.0	0.0	0.0
87.5°	7.9	7.9	7.9	7.9	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°	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9
2.5°	4507.5	4523.2	4538.9	4601.7	4617.4	4664.5	4703.8	4750.9	4758.8	4821.6	4821.6
5°	3887.1	3879.3	4012.8	4209.1	4334.7	4507.5	4641.0	4782.3	4860.9	4963.0	5010.1
7.5°	2575.7	2772.0	3070.4	3416.0	3863.6	4279.8	4593.9	4868.7	5057.2	5175.0	5222.1
10°	1280.0	1389.9	1704.1	2269.5	3031.2	3879.3	4546.8	5057.2	5363.4	5496.9	5583.3
12.5°	903.1	926.6	981.6	1287.9	2018.2	3219.6	4397.6	5261.4	5685.4	5936.7	6046.6
15°	808.8	824.5	848.1	934.5	1248.6	2402.9	4130.6	5489.1	6188.0	6478.5	6619.9
17.5°	746.0	753.9	777.4	848.1	981.6	1633.4	3698.7	5732.5	6792.6	7146.0	7413.0
20°	691.0	691.0	714.6	801.0	910.9	1256.4	3078.3	6007.4	7562.2	8072.7	8339.6
22.5°	628.2	643.9	659.6	753.9	887.4	1146.5	2497.2	6219.4	8418.2	9038.5	9352.7
25°	581.1	596.8	612.5	706.7	863.8	1146.5	2159.5	6352.9	9376.2	10114.4	10546.3
27.5°	541.8	557.5	581.1	675.3	840.2	1193.6	2026.0	6392.2	10420.6	11378.7	11959.8
30°	510.4	526.1	549.7	651.8	856.0	1248.6	2073.1	6337.2	11480.8	12682.2	13373.3
32.5°	479.0	494.7	518.3	628.2	856.0	1319.3	2230.2	6227.3	12509.5	13985.8	14833.9
35°	455.5	463.3	471.2	565.4	777.4	1311.4	2426.5	6117.3	13546.0	15273.6	16263.1
37.5°	408.3	416.2	431.9	486.9	620.4	1193.6	2465.8	5983.8	14362.7	16357.3	17448.9
40°	361.2	376.9	392.6	447.6	518.3	965.9	2293.0	5701.1	14794.6	17189.7	18516.8
42.5°	329.8	337.7	353.4	408.3	479.0	769.6	1923.9	5206.4	15179.4	17755.1	19294.3
45°	306.3	314.1	329.8	369.1	447.6	667.5	1515.6	4601.7	15210.8	17935.7	19671.2
47.5°	282.7	290.6	298.4	337.7	431.9	596.8	1162.2	4052.0	15203.0	18171.3	19993.2
50°	267.0	274.8	290.6	322.0	408.3	534.0	958.0	3604.4	15532.8	18681.8	20644.9
52.5°	259.1	259.1	282.7	314.1	384.8	486.9	801.0	3203.9	15705.5	19184.3	21116.1
55°	243.4	251.3	267.0	298.4	361.2	463.3	683.2	2701.4	15784.1	19435.6	21202.5
57.5°	227.7	235.6	259.1	282.7	345.5	439.8	589.0	2018.2	14661.1	18124.2	19757.6
60°	*204.2*	*219.9*	*251.3*	*274.8*	*322.0*	*400.5*	*518.3*	*1366.4*	*12368.1*	*15752.7*	*17119.0*
62.5°	164.9	196.3	227.7	243.4	290.6	337.7	439.8	910.9	9878.8	13035.6	14590.5
65°	125.6	164.9	188.5	212.0	243.4	282.7	369.1	620.4	6588.5	8771.5	10522.7
67.5°	109.9	141.3	157.1	172.8	204.2	243.4	298.4	431.9	3997.1	5269.2	6996.8
70°	86.4	117.8	133.5	125.6	157.1	188.5	212.0	290.6	2041.7	2858.4	3981.4
72.5°	62.8	94.2	102.1	102.1	94.2	133.5	157.1	204.2	887.4	1389.9	1806.1
75°	47.1	62.8	70.7	62.8	55.0	86.4	109.9	133.5	581.1	832.4	1052.3
77.5°	23.6	23.6	39.3	39.3	23.6	47.1	55.0	78.5	329.8	486.9	604.7
80°	7.9	0.0	0.0	7.9	0.0	15.7	23.6	39.3	172.8	259.1	376.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	86.4	78.5	196.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	47.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1501967
CATALOG NUMBER: GSS-SB5C-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4805.9	*4805.9*	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9	4805.9
2.5°	4860.9	*4860.9*	4892.3	4939.4	4963.0	4978.7	4986.5	5002.2	5065.0	5049.3
5°	5065.0	*5080.7*	5104.3	5151.4	5206.4	5190.7	5190.7	5190.7	5229.9	5198.5
7.5°	5332.0	*5379.2*	5387.0	5442.0	5402.7	5324.2	5277.1	5206.4	5198.5	5198.5
10°	5763.9	*5748.2*	5748.2	5677.6	5536.2	5308.5	5104.3	4963.0	4884.4	4892.3
12.5°	6227.3	*6164.4*	6172.3	5913.1	5512.6	5010.1	4593.9	4287.6	4264.1	4240.5
15°	6800.5	*6635.6*	6604.2	6007.4	5159.3	4389.7	3981.4	3737.9	3659.4	3635.8
17.5°	7617.2	*7201.0*	7051.8	5842.5	4696.0	4004.9	3698.7	3588.7	3580.9	3573.0
20°	8481.0	*7656.5*	7373.8	5599.0	4538.9	4012.8	3785.0	3753.6	3737.9	3745.8
22.5°	9486.2	*7947.0*	7585.8	5638.3	4680.3	4271.9	4091.3	4067.7	4052.0	4067.7
25°	10522.7	*8284.7*	7837.1	5952.4	5104.3	4750.9	4538.9	4491.8	4538.9	4609.6
27.5°	11567.1	*8740.1*	8331.8	6572.8	5787.5	5402.7	5198.5	5371.3	5442.0	5449.8
30°	12493.8	*9376.2*	8999.3	7444.4	6564.9	6180.1	6219.4	6439.3	6525.7	6612.0
32.5°	13341.9	*10224.3*	9933.8	8433.9	7570.1	7342.3	7318.8	7483.7	7577.9	7523.0
35°	14197.8	*11331.6*	11048.9	9509.7	8803.0	8614.5	8418.2	8740.1	8708.7	8622.3
37.5°	15006.7	*12446.6*	12187.5	10664.1	9933.8	9603.9	9572.5	9863.1	10122.2	10106.5
40°	15587.8	*13349.7*	13035.6	11810.6	11119.5	10836.8	11001.7	11504.3	11441.5	11355.1
42.5°	16121.7	*14119.3*	13836.6	12815.7	12093.3	12218.9	12368.1	12705.8	12666.5	12580.1
45°	16373.0	*14778.9*	14535.5	13577.4	13224.1	13624.6	13616.7	13742.4	13530.3	13498.9
47.5°	16726.4	*15250.1*	14998.8	14260.6	14574.7	14739.7	14276.3	14142.8	13946.5	13789.5
50°	17378.2	*15980.4*	15729.1	15297.2	15564.2	15053.8	14488.4	14197.8	13797.3	13522.5
52.5°	18139.9	*17087.6*	16867.8	16695.0	15949.0	14896.7	14174.3	13648.1	13161.2	12925.7
55°	19097.9	*18721.0*	18564.0	17613.8	15603.5	14252.8	13404.7	12423.1	11755.6	11535.7
57.5°	19412.1	*21116.1*	21061.1	17763.0	14637.6	13082.7	11551.4	10224.3	9533.3	9391.9
60°	*18485.4*	*22992.9*	*22796.6*	*17511.7*	*12886.4*	*10617.0*	*8826.5*	*7468.0*	*6345.0*	*6180.1*
62.5°	17299.7	*21555.9*	21485.2	16247.4	9816.0	7609.3	6596.3	5324.2	4845.2	4719.5
65°	14818.2	*17637.3*	17668.7	13035.6	6211.5	5465.5	5418.4	4232.6	3643.7	3549.5
67.5°	11410.1	*13530.3*	13310.5	8198.3	3620.1	4374.0	4326.9	3094.0	2238.0	2175.2
70°	6667.0	*10075.1*	9721.7	4264.1	2395.1	3651.5	3329.6	2175.2	1523.4	1452.8
72.5°	2944.8	*5544.1*	5952.4	1876.8	1688.3	2905.5	2402.9	1335.0	856.0	840.2
75°	1633.4	*2748.5*	2874.1	816.7	1185.8	2065.3	1452.8	746.0	486.9	479.0
77.5°	981.6	*1217.2*	1185.8	526.1	887.4	1319.3	879.5	424.0	306.3	290.6
80°	549.7	*557.5*	471.2	384.8	526.1	738.2	494.7	267.0	141.3	141.3
82.5°	337.7	*306.3*	243.4	117.8	141.3	447.6	180.6	149.2	47.1	47.1
85°	141.3	*94.2*	62.8	23.6	55.0	117.8	62.8	70.7	23.6	23.6
87.5°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

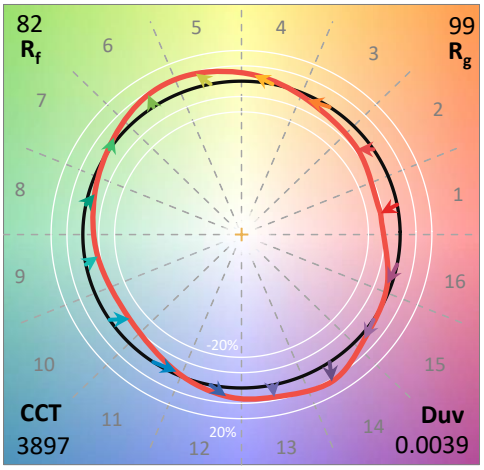
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

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

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



Test Conditions

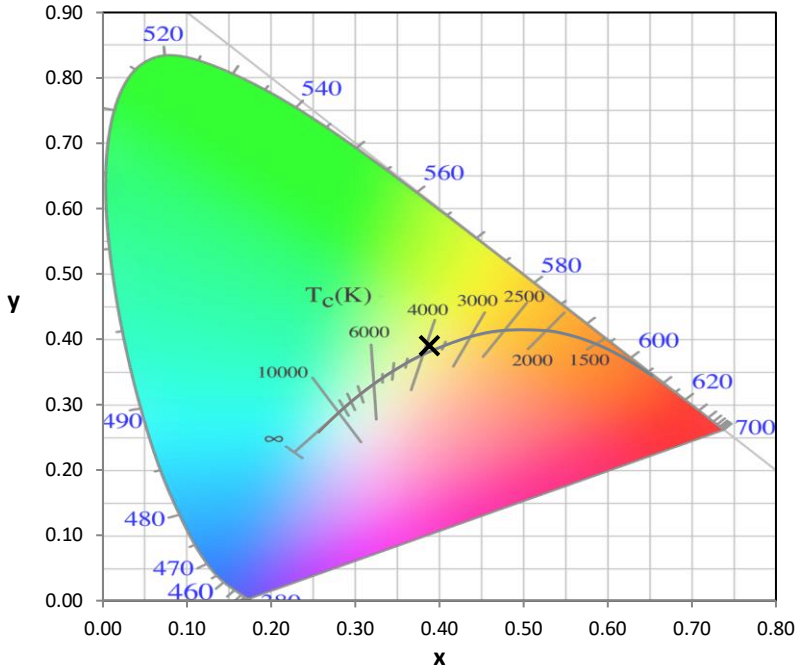
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

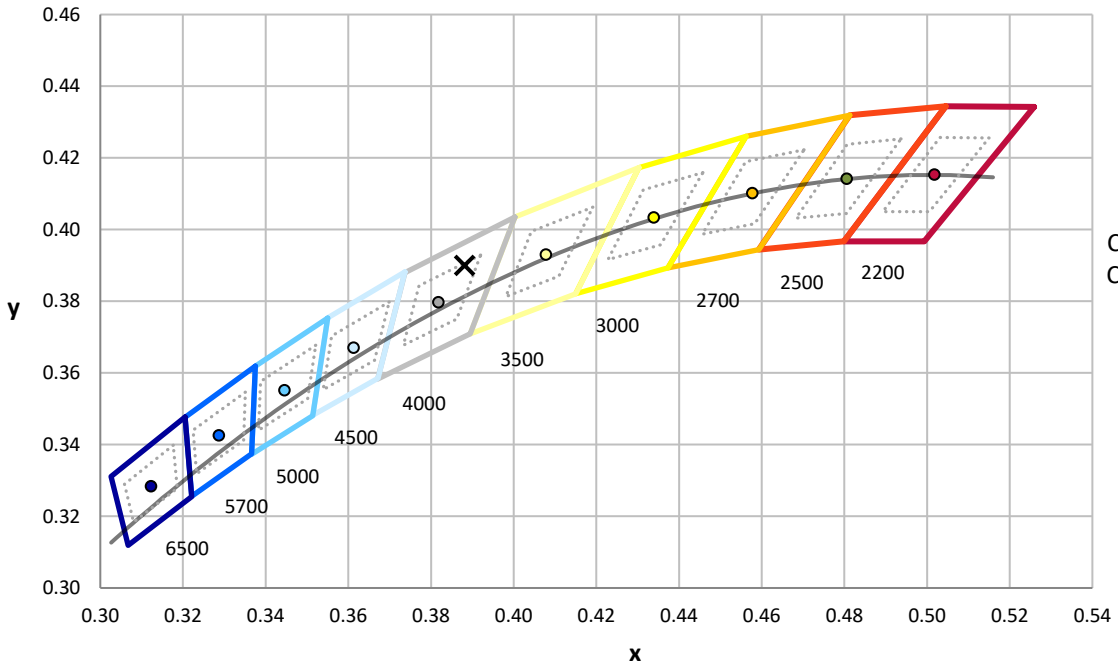
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

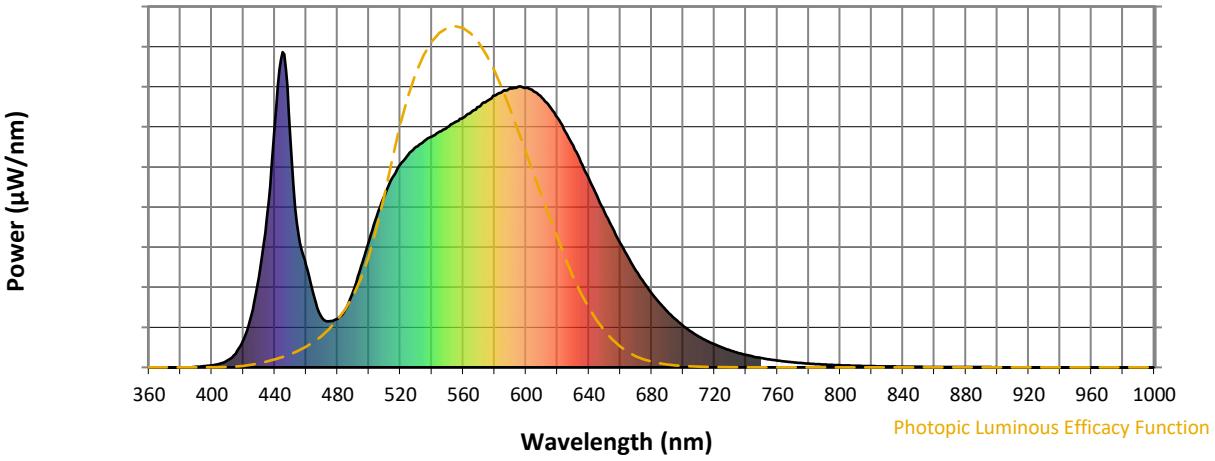


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

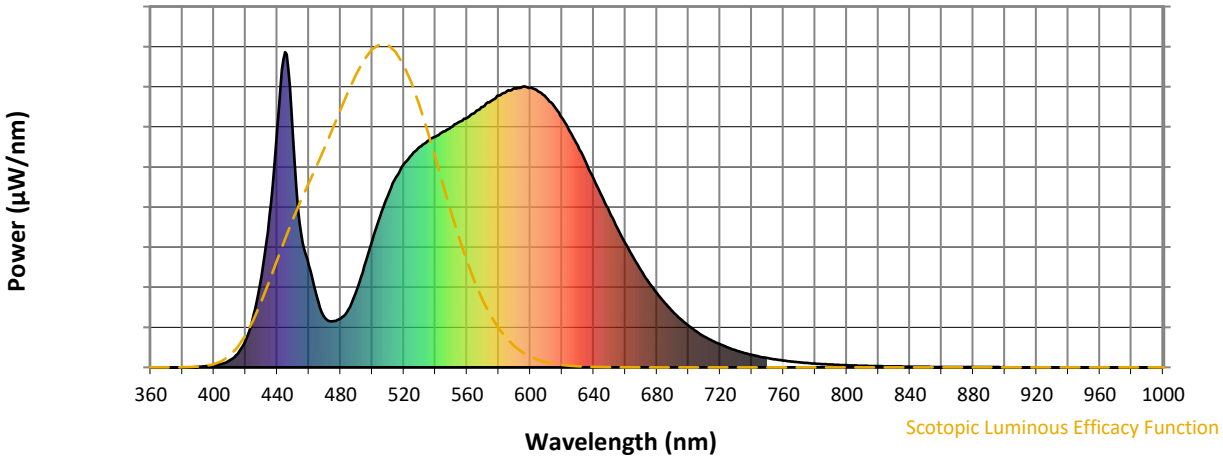


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

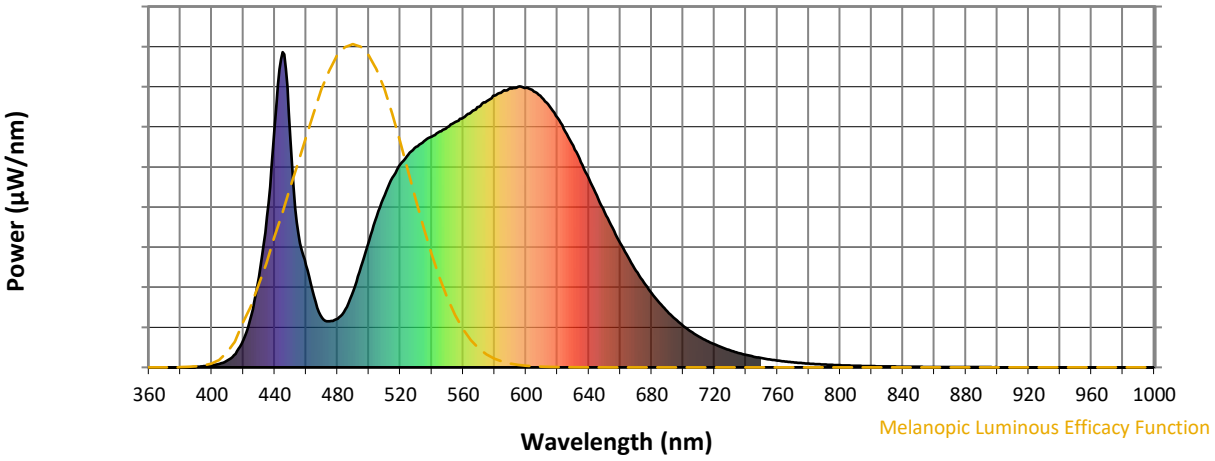


Scotopic Lumens: NR **S/P: 1.57**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

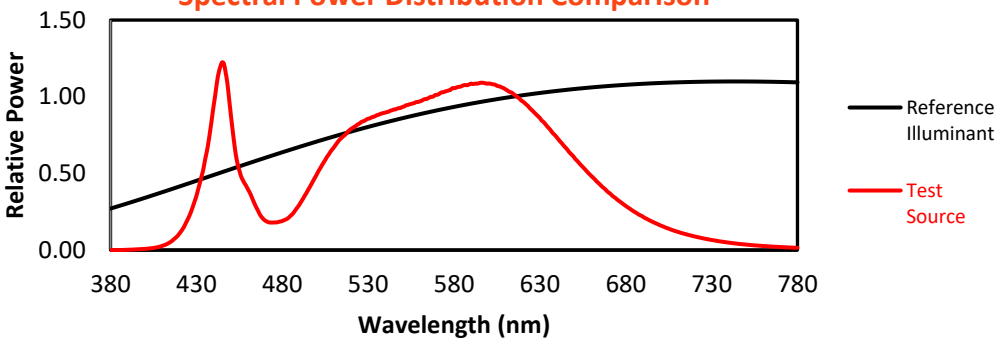
REPORT NUMBER: SP1-2407-184-11

TM-30-18

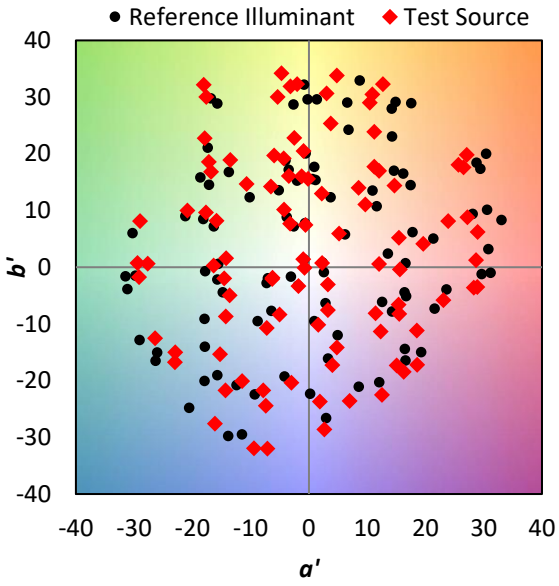
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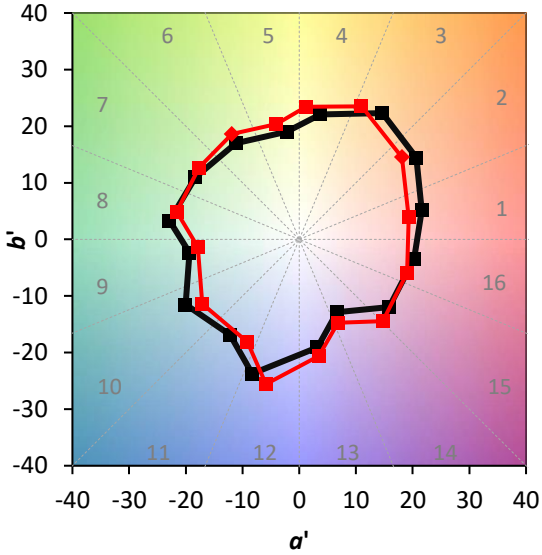
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

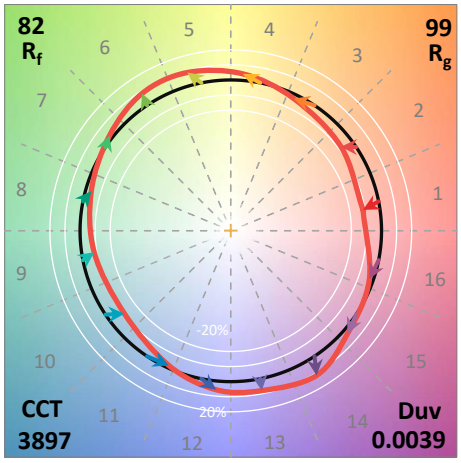
Spectral Power Distribution Comparison

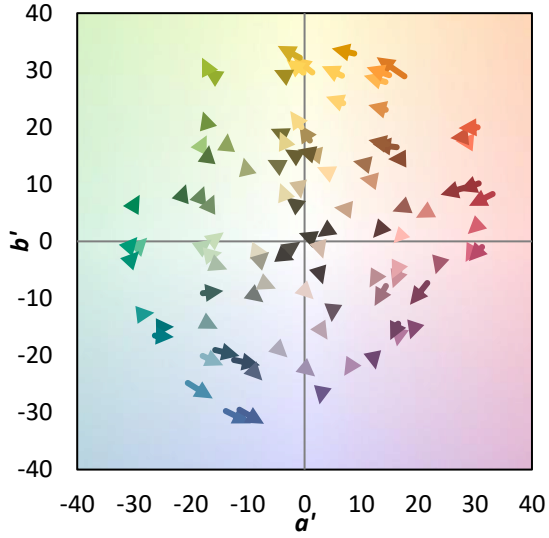


Color Vector Graphics







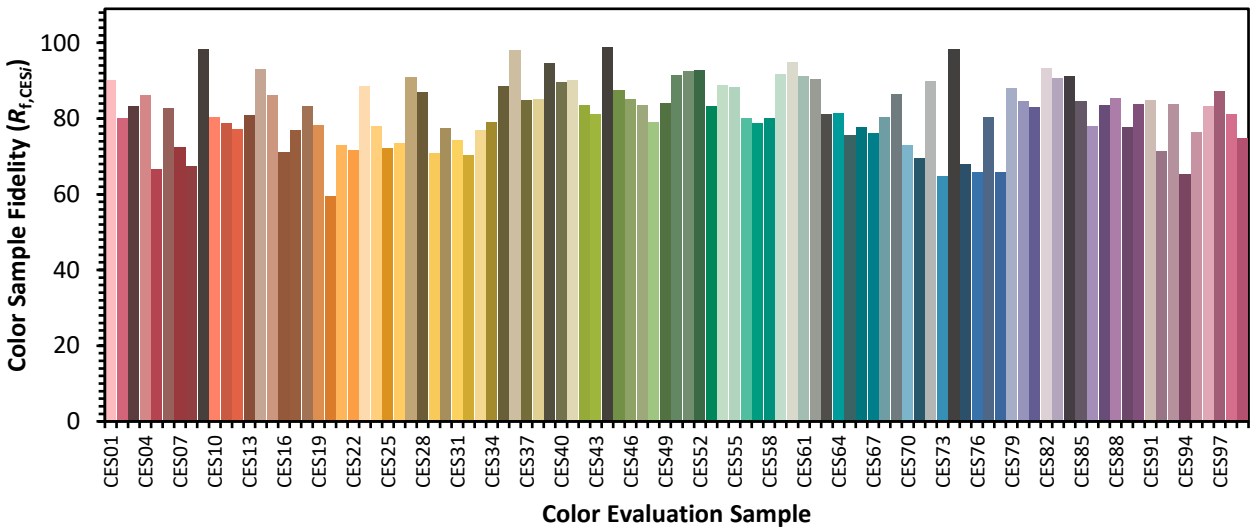


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Individual Sample Fidelity Index ($R_{f,i}$)

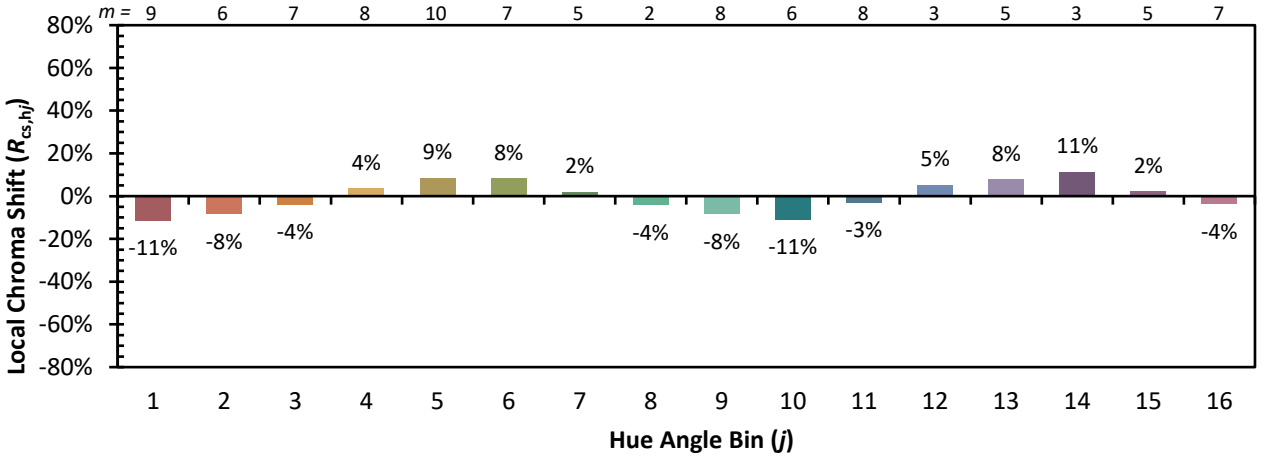
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82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

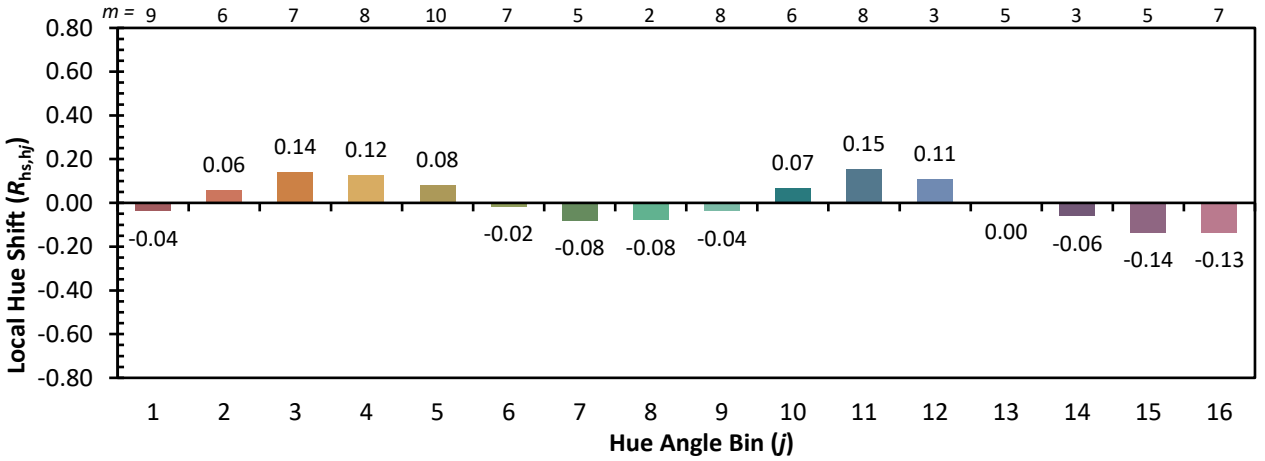


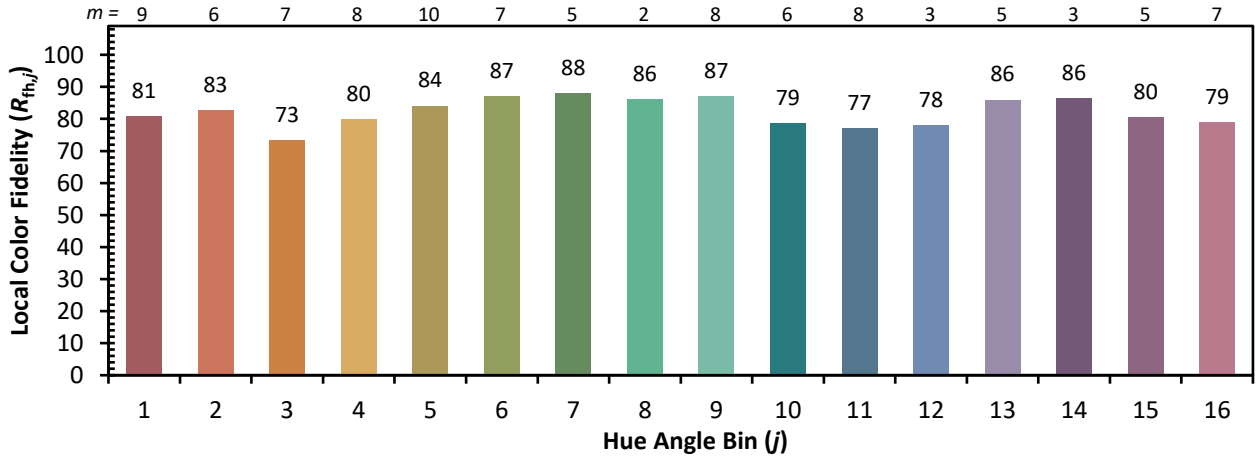
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Color Rendition by Hue-Angle Bin



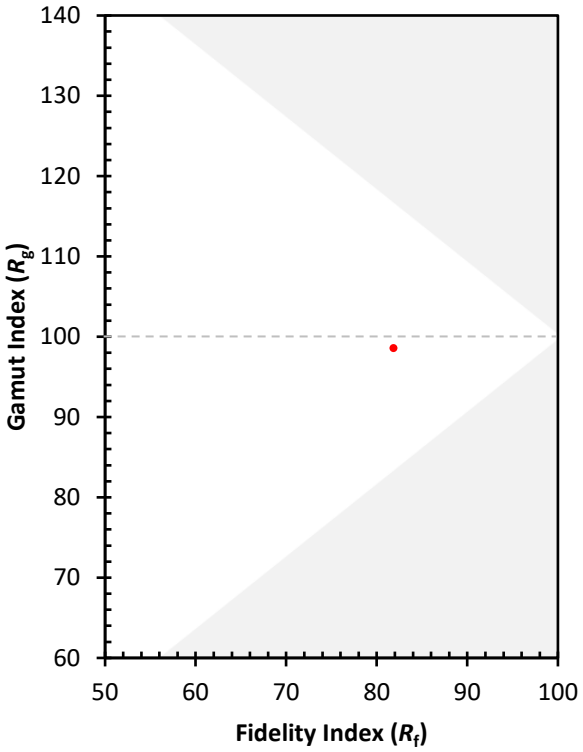


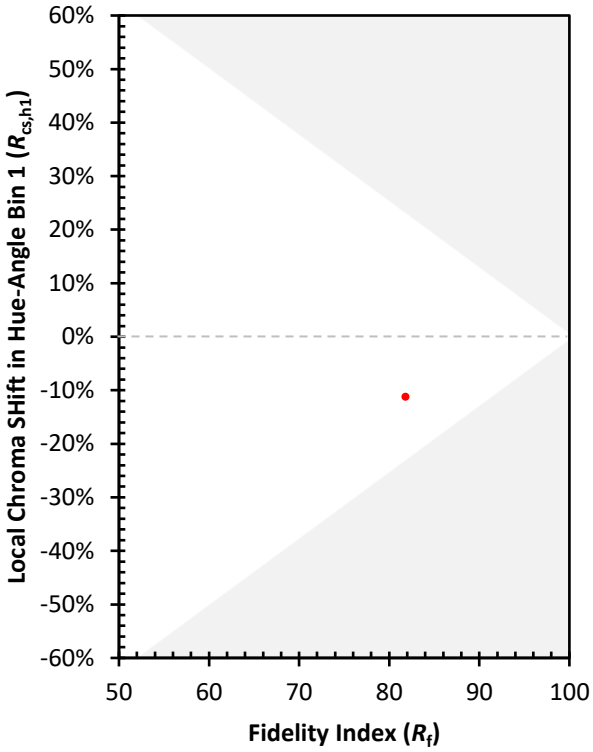


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Measure Comparisons





(END OF REPORT)