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: P1501971

Luminaire Tested: GSS-SB6C-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:	P1501971
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6C-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 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:	33665.6 lumens
Efficiency:	N/A
Efficacy:	112.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

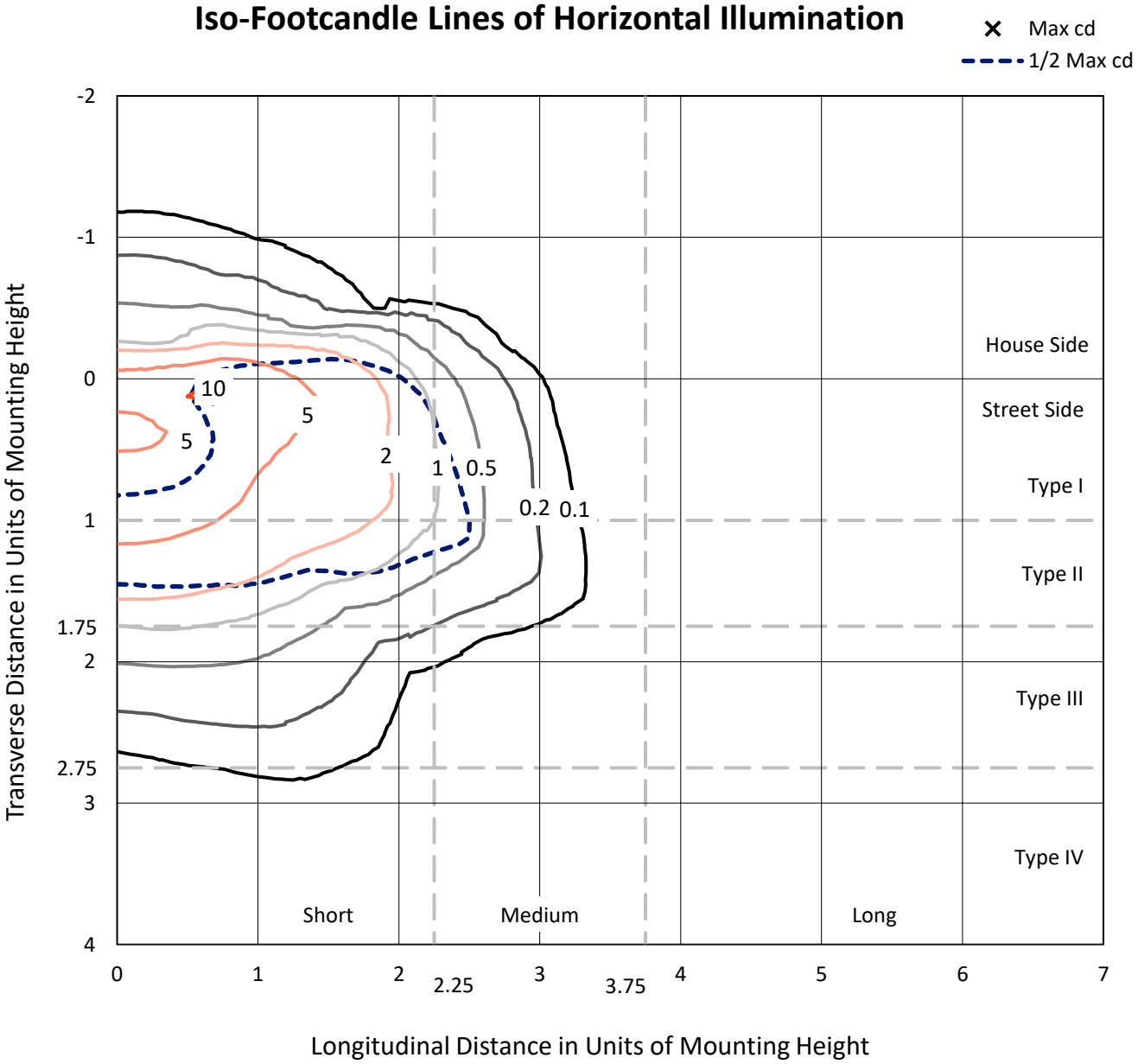
Input Watts (W):	300
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



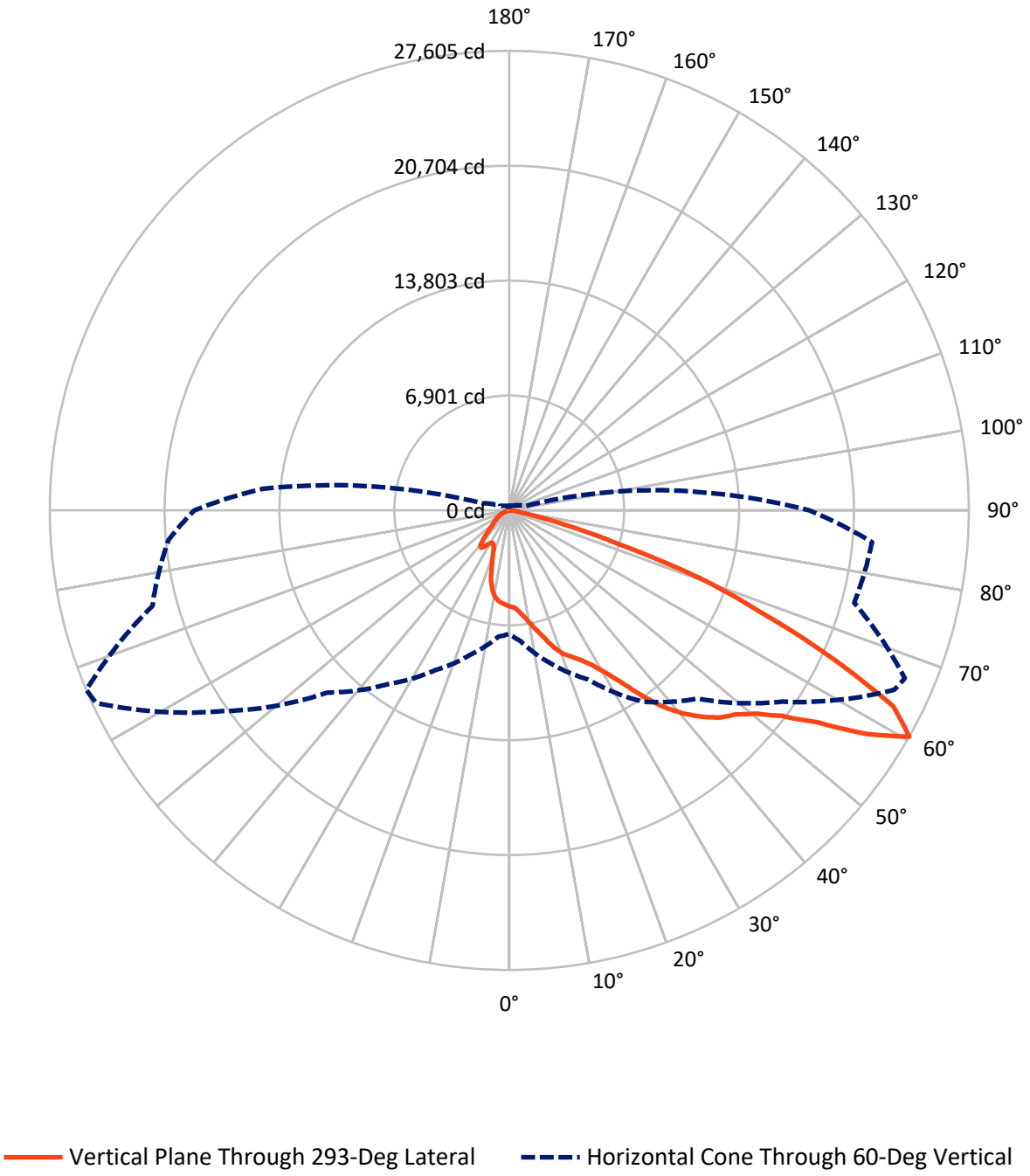
Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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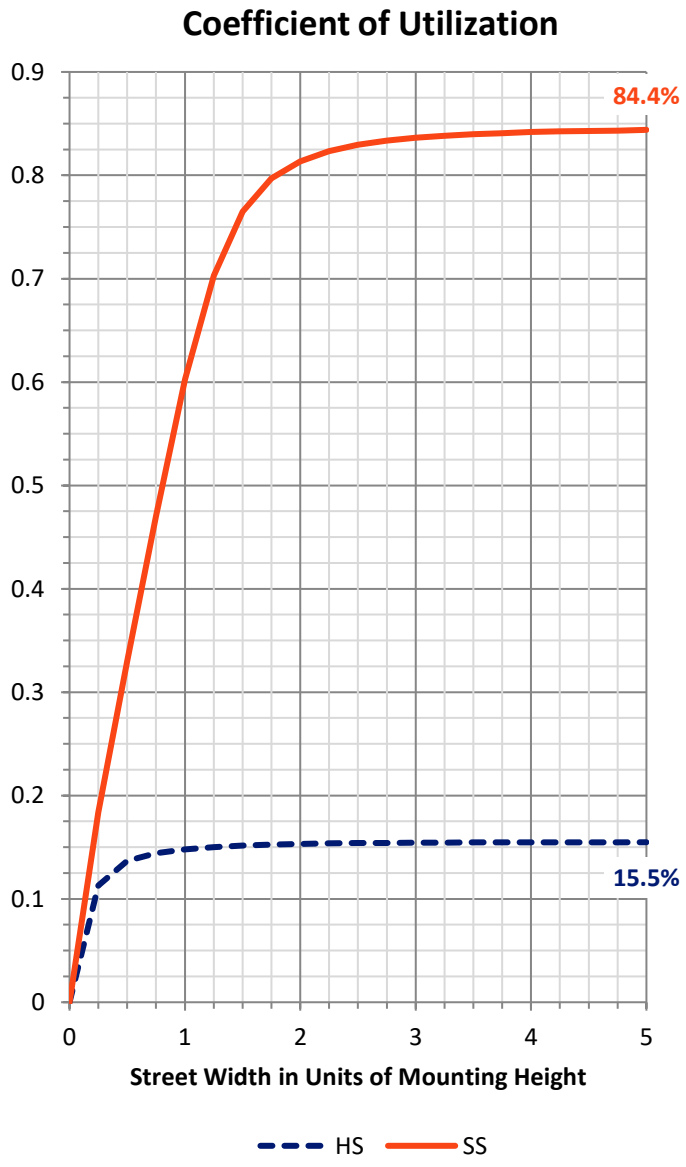
REPORT NUMBER: P1501971
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5252.6	0.0	5252.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	28413.0	0.0	28413.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	33665.6	0.0	33665.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	1.6
10°-20°	1315.8	3.9
20°-30°	2456.4	7.3
30°-40°	4871.3	14.5
40°-50°	7766.6	23.1
50°-60°	9279.2	27.6
60°-70°	6083.0	18.1
70°-80°	1274.5	3.8
80°-90°	96.4	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°	33665.6	100.0
0°-180°	33665.6	100.0



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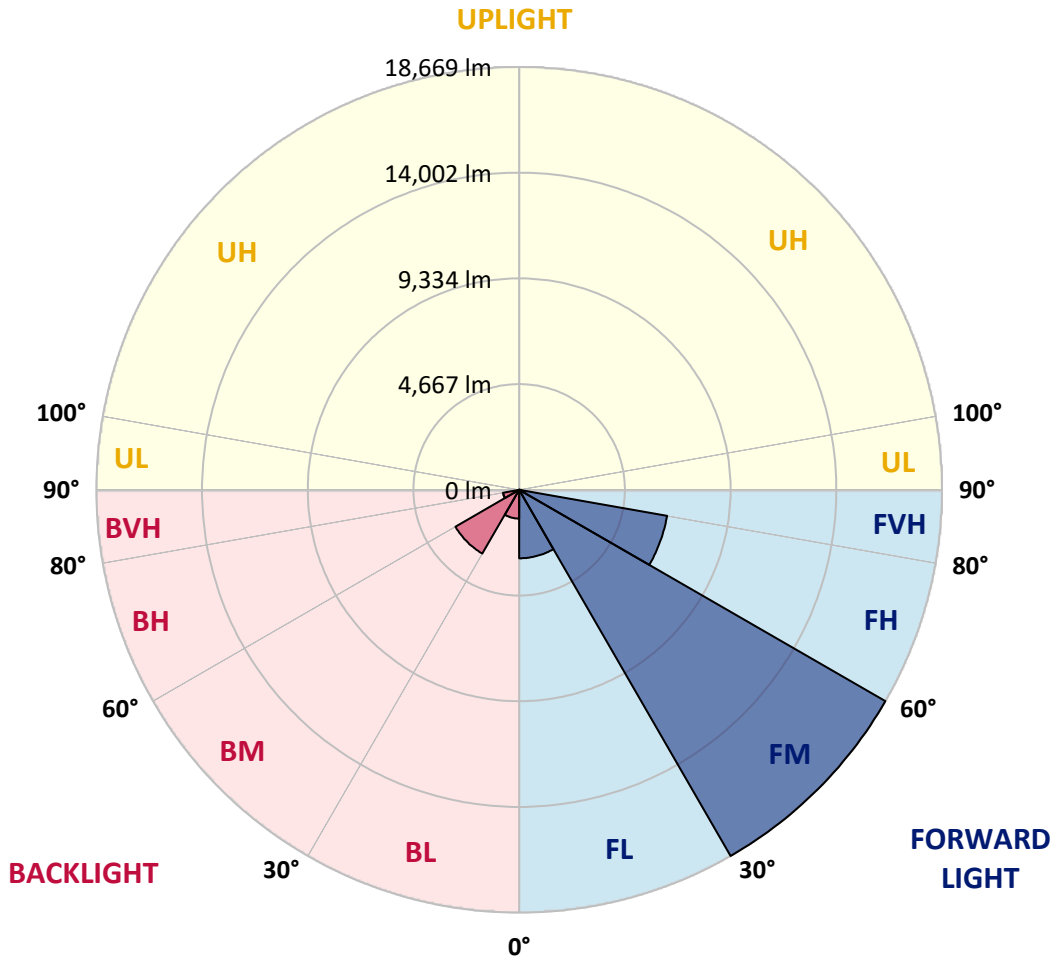
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3023.9	9.0			
FM	(30°-60°)	18668.8	55.5			
FH	(60°-80°)	6631.9	19.7			G3/7500
FVH	(80°-90°)	88.3	0.3			G1/100
BL	(0°-30°)	1270.8	3.8	B3/2500		
BM	(30°-60°)	3248.2	9.6	B3/5000		
BH	(60°-80°)	725.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	8.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9
2.5°	6062.2	6043.4	6015.1	6024.5	6015.1	5977.4	5920.8	5873.6	5911.4	5854.8	5817.1
5°	6241.3	6241.3	6222.5	6222.5	6231.9	6213.1	6175.3	6109.3	6118.8	6071.6	5949.1
7.5°	6241.3	6213.1	6260.2	6307.3	6392.2	6439.3	6458.2	6420.5	6439.3	6345.1	6184.8
10°	5873.6	5854.8	5977.4	6156.5	6401.6	6618.5	6759.9	6769.3	6797.6	6703.3	6514.8
12.5°	5091.1	5053.4	5298.5	5637.9	6137.6	6637.3	7033.3	7184.1	7250.1	7212.4	6948.4
15°	4365.2	4412.3	4582.0	4949.7	5619.1	6382.8	7184.1	7683.8	7778.1	7825.2	7514.1
17.5°	4289.7	4299.2	4355.7	4534.9	5044.0	5967.9	7203.0	8202.4	8334.4	8541.8	8117.5
20°	4497.2	4478.3	4534.9	4591.4	4836.6	5600.2	7023.9	8702.1	8956.6	9399.7	8937.8
22.5°	4883.7	4883.7	4912.0	4949.7	5072.3	5572.0	6948.4	9164.0	9597.7	10502.8	9965.4
25°	5534.2	5458.8	5477.7	5430.5	5534.2	5911.4	7118.1	9531.7	10125.7	11728.4	11191.0
27.5°	6543.0	6571.3	6401.6	6147.1	6203.6	6524.2	7533.0	9946.5	10672.5	13001.2	12435.5
30°	7938.4	7891.2	7787.5	7287.9	7061.6	7344.4	8296.6	10625.4	11407.9	14613.4	14094.9
32.5°	9032.0	9164.0	8984.9	8636.1	8287.2	8372.1	9371.4	11719.0	12303.6	16093.6	15810.8
35°	10352.0	10352.0	10389.7	9899.4	9663.7	9644.9	10719.6	12906.9	13491.5	17432.4	17630.4
37.5°	12133.8	12011.3	11803.9	11257.0	11077.9	11313.6	11983.0	14132.6	14764.3	18516.6	19044.6
40°	13632.9	13717.8	13689.5	12897.5	12548.7	12803.2	13397.2	15179.1	15669.4	19214.3	20185.4
42.5°	15103.7	15150.8	15028.2	14651.1	14142.0	14160.9	14651.1	15971.0	16470.7	19883.7	21260.2
45°	16206.7	16197.3	16112.5	16018.2	15716.5	15405.4	15490.2	16847.9	17281.5	20100.5	21844.7
47.5°	16555.6	16631.0	16706.4	16970.4	17177.8	16687.6	16253.9	17319.3	17715.2	20062.8	22061.5
50°	16235.0	16395.3	16763.0	17159.0	17866.1	17828.4	16895.0	17828.4	18214.9	20270.2	22316.1
52.5°	15518.5	15678.8	16169.0	16885.6	17950.9	18478.9	18082.9	18686.3	19138.9	20798.2	22844.1
55°	13849.7	13915.7	14924.5	15867.3	17526.7	18196.1	19355.7	20138.2	20515.3	21439.3	23541.7
57.5°	11275.9	11436.2	12426.1	13962.9	16338.7	17451.2	20081.7	22617.8	22608.4	22052.1	23692.6
60°	*7419.8*	*7891.2*	*9503.4*	*11200.5*	*14038.3*	*15989.9*	*20034.5*	*25521.6*	*25813.9*	*21448.7*	*21873.0*
62.5°	5666.2	5864.2	6778.7	8192.9	10389.7	13255.8	19723.4	26389.0	26615.3	19827.1	19148.3
65°	4261.5	4506.6	5383.4	6646.7	7335.0	8984.9	17686.9	22938.3	23249.5	17696.4	14886.8
67.5°	2611.6	2809.5	3978.6	5458.8	5553.1	5581.4	11935.9	17375.8	17489.0	14274.0	10022.0
70°	1744.2	1942.2	2753.0	4195.5	4421.7	3215.0	6552.5	13152.1	13142.6	9767.4	6090.5
72.5°	1008.8	1103.1	1744.2	3092.4	3478.9	2045.9	3271.5	8362.6	7995.0	4591.4	2847.3
75°	575.1	641.1	961.7	1989.3	2441.9	1301.1	1291.6	4478.3	3959.8	2366.4	1555.6
77.5°	348.8	377.1	528.0	1301.1	1470.8	876.8	716.5	2083.6	2008.2	1385.9	820.2
80°	169.7	198.0	320.6	763.7	942.8	471.4	433.7	820.2	876.8	763.7	433.7
82.5°	56.6	75.4	179.1	292.3	612.8	188.6	179.1	452.5	480.8	452.5	207.4
85°	28.3	37.7	84.9	94.3	235.7	94.3	66.0	198.0	245.1	150.8	84.9
87.5°	0.0	9.4	9.4	9.4	9.4	9.4	9.4	18.9	18.9	18.9	18.9
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°	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9
2.5°	5788.8	5769.9	5732.2	5666.2	5656.8	5609.7	5534.2	5487.1	5449.4	5477.7	5487.1
5°	5892.5	5845.4	5732.2	5553.1	5364.5	5176.0	4996.8	4789.4	4648.0	4629.2	4591.4
7.5°	6081.1	5986.8	5741.7	5392.8	4912.0	4459.4	3931.5	3422.4	3167.8	3130.1	3045.2
10°	6382.8	6222.5	5817.1	5110.0	4186.0	3243.2	2441.9	1895.0	1583.9	1527.3	1546.2
12.5°	6741.0	6514.8	5826.5	4629.2	3186.7	2008.2	1385.9	1178.5	1112.5	1084.2	1084.2
15°	7203.0	6873.0	5817.1	4006.9	2149.6	1291.6	1112.5	1027.7	999.4	980.5	980.5
17.5°	7787.5	7353.8	5751.1	3073.5	1451.9	1121.9	1018.2	952.2	914.5	905.1	905.1
20°	8475.8	7891.2	5600.2	2291.0	1216.2	1046.5	961.7	876.8	848.5	829.7	829.7
22.5°	9352.6	8541.8	5308.0	1781.9	1150.2	999.4	905.1	810.8	782.5	763.7	763.7
25°	10370.8	9371.4	4921.4	1602.8	1140.8	961.7	848.5	754.2	726.0	716.5	707.1
27.5°	11577.6	10257.7	4563.2	1612.2	1159.6	933.4	792.0	707.1	678.8	650.5	660.0
30°	13001.2	11172.2	4270.9	1725.3	1178.5	905.1	754.2	678.8	650.5	612.8	612.8
32.5°	14406.0	12247.0	4242.6	1932.7	1244.5	886.2	716.5	641.1	612.8	584.5	584.5
35°	15848.5	13227.5	4402.9	2206.2	1376.5	857.9	669.4	603.4	575.1	556.3	546.8
37.5°	17225.0	14010.0	4553.7	2375.9	1301.1	735.4	612.8	556.3	528.0	490.3	490.3
40°	18139.5	14434.3	4582.0	2243.9	1074.8	660.0	556.3	499.7	462.0	443.1	433.7
42.5°	18808.9	14707.7	4261.5	1819.6	933.4	603.4	509.1	452.5	424.3	405.4	405.4
45°	19082.3	14613.4	3714.6	1385.9	857.9	556.3	462.0	414.8	396.0	377.1	377.1
47.5°	19044.6	14179.7	3158.4	1112.5	782.5	509.1	433.7	396.0	377.1	358.3	348.8
50°	18978.6	13774.3	2592.7	989.9	697.7	480.8	405.4	377.1	348.8	330.0	320.6
52.5°	19412.3	13642.3	2149.6	905.1	650.5	462.0	396.0	358.3	330.0	311.1	311.1
55°	19846.0	13698.9	1687.6	848.5	603.4	452.5	386.5	348.8	320.6	292.3	292.3
57.5°	19817.7	13453.8	1282.2	792.0	565.7	443.1	377.1	339.4	292.3	273.4	273.4
60°	*18016.9*	*12001.9*	*999.4*	*726.0*	*518.5*	*414.8*	*348.8*	*320.6*	*273.4*	*245.1*	*245.1*
62.5°	15235.7	9437.4	820.2	641.1	462.0	377.1	320.6	292.3	245.1	198.0	198.0
65°	11257.0	6807.0	660.0	556.3	424.3	330.0	292.3	254.6	198.0	160.3	150.8
67.5°	7617.8	4186.0	528.0	462.0	377.1	282.8	245.1	216.8	179.1	132.0	122.6
70°	4516.0	2225.0	386.5	320.6	282.8	207.4	207.4	188.6	150.8	113.1	103.7
72.5°	2149.6	773.1	282.8	235.7	216.8	150.8	160.3	160.3	122.6	84.9	75.4
75°	1093.6	377.1	188.6	169.7	141.4	113.1	132.0	122.6	84.9	56.6	56.6
77.5°	622.2	264.0	132.0	113.1	94.3	75.4	84.9	75.4	47.1	28.3	28.3
80°	348.8	188.6	84.9	75.4	56.6	47.1	47.1	37.7	28.3	9.4	9.4
82.5°	132.0	113.1	56.6	37.7	28.3	28.3	18.9	18.9	9.4	0.0	0.0
85°	56.6	28.3	28.3	18.9	18.9	9.4	9.4	9.4	0.0	0.0	0.0
87.5°	9.4	9.4	9.4	9.4	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°	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9
2.5°	5411.7	5430.5	5449.4	5524.8	5543.7	5600.2	5647.4	5703.9	5713.4	5788.8	5788.8
5°	4666.9	4657.4	4817.7	5053.4	5204.3	5411.7	5572.0	5741.7	5835.9	5958.5	6015.1
7.5°	3092.4	3328.1	3686.4	4101.2	4638.6	5138.3	5515.4	5845.4	6071.6	6213.1	6269.6
10°	1536.8	1668.8	2045.9	2724.7	3639.2	4657.4	5458.8	6071.6	6439.3	6599.6	6703.3
12.5°	1084.2	1112.5	1178.5	1546.2	2423.0	3865.5	5279.7	6316.8	6825.9	7127.6	7259.6
15°	971.1	989.9	1018.2	1121.9	1499.1	2885.0	4959.1	6590.2	7429.3	7778.1	7947.8
17.5°	895.7	905.1	933.4	1018.2	1178.5	1961.0	4440.6	6882.4	8155.2	8579.5	8900.0
20°	829.7	829.7	857.9	961.7	1093.6	1508.5	3695.8	7212.4	9079.2	9692.0	10012.5
22.5°	754.2	773.1	792.0	905.1	1065.4	1376.5	2998.1	7467.0	10106.8	10851.6	11228.8
25°	697.7	716.5	735.4	848.5	1037.1	1376.5	2592.7	7627.3	11257.0	12143.3	12661.8
27.5°	650.5	669.4	697.7	810.8	1008.8	1433.1	2432.4	7674.4	12511.0	13661.2	14358.9
30°	612.8	631.7	660.0	782.5	1027.7	1499.1	2489.0	7608.4	13783.7	15226.2	16055.9
32.5°	575.1	594.0	622.2	754.2	1027.7	1583.9	2677.6	7476.4	15018.8	16791.3	17809.5
35°	546.8	556.3	565.7	678.8	933.4	1574.5	2913.3	7344.4	16263.3	18337.5	19525.4
37.5°	490.3	499.7	518.5	584.5	744.8	1433.1	2960.4	7184.1	17243.8	19638.5	20949.0
40°	433.7	452.5	471.4	537.4	622.2	1159.6	2753.0	6844.7	17762.4	20637.9	22231.2
42.5°	396.0	405.4	424.3	490.3	575.1	923.9	2309.9	6250.8	18224.3	21316.7	23164.6
45°	367.7	377.1	396.0	443.1	537.4	801.4	1819.6	5524.8	18262.1	21533.6	23617.2
47.5°	339.4	348.8	358.3	405.4	518.5	716.5	1395.3	4864.9	18252.6	21816.4	24003.7
50°	320.6	330.0	348.8	386.5	490.3	641.1	1150.2	4327.5	18648.6	22429.2	24786.2
52.5°	311.1	311.1	339.4	377.1	462.0	584.5	961.7	3846.6	18856.0	23032.6	25351.9
55°	292.3	301.7	320.6	358.3	433.7	556.3	820.2	3243.2	18950.3	23334.3	25455.6
57.5°	273.4	282.8	311.1	339.4	414.8	528.0	707.1	2423.0	17602.1	21759.8	23720.9
60°	*245.1*	*264.0*	*301.7*	*330.0*	*386.5*	*480.8*	*622.2*	*1640.5*	*14849.1*	*18912.6*	*20553.1*
62.5°	198.0	235.7	273.4	292.3	348.8	405.4	528.0	1093.6	11860.4	15650.5	17517.2
65°	150.8	198.0	226.3	254.6	292.3	339.4	443.1	744.8	7910.1	10531.1	12633.5
67.5°	132.0	169.7	188.6	207.4	245.1	292.3	358.3	518.5	4798.9	6326.2	8400.4
70°	103.7	141.4	160.3	150.8	188.6	226.3	254.6	348.8	2451.3	3431.8	4780.0
72.5°	75.4	113.1	122.6	122.6	113.1	160.3	188.6	245.1	1065.4	1668.8	2168.4
75°	56.6	75.4	84.9	75.4	66.0	103.7	132.0	160.3	697.7	999.4	1263.4
77.5°	28.3	28.3	47.1	47.1	28.3	56.6	66.0	94.3	396.0	584.5	726.0
80°	9.4	0.0	0.0	9.4	0.0	18.9	28.3	47.1	207.4	311.1	452.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	103.7	94.3	235.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	56.6
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: P1501971
CATALOG NUMBER: GSS-SB6C-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9	5769.9
2.5°	5835.9	5835.9	5873.6	5930.2	5958.5	5977.4	5986.8	6005.6	6081.1	6062.2
5°	6081.1	6099.9	6128.2	6184.8	6250.8	6231.9	6231.9	6231.9	6279.1	6241.3
7.5°	6401.6	6458.2	6467.6	6533.6	6486.5	6392.2	6335.6	6250.8	6241.3	6241.3
10°	6920.2	6901.3	6901.3	6816.5	6646.7	6373.3	6128.2	5958.5	5864.2	5873.6
12.5°	7476.4	7401.0	7410.4	7099.3	6618.5	6015.1	5515.4	5147.7	5119.4	5091.1
15°	8164.7	7966.7	7929.0	7212.4	6194.2	5270.3	4780.0	4487.7	4393.5	4365.2
17.5°	9145.2	8645.5	8466.4	7014.4	5637.9	4808.3	4440.6	4308.6	4299.2	4289.7
20°	10182.2	9192.3	8852.9	6722.2	5449.4	4817.7	4544.3	4506.6	4487.7	4497.2
22.5°	11389.0	9541.1	9107.5	6769.3	5619.1	5128.8	4912.0	4883.7	4864.9	4883.7
25°	12633.5	9946.5	9409.2	7146.4	6128.2	5703.9	5449.4	5392.8	5449.4	5534.2
27.5°	13887.5	10493.4	10003.1	7891.2	6948.4	6486.5	6241.3	6448.8	6533.6	6543.0
30°	15000.0	11257.0	10804.5	8937.8	7881.8	7419.8	7467.0	7731.0	7834.7	7938.4
32.5°	16018.2	12275.3	11926.4	10125.7	9088.6	8815.2	8786.9	8984.9	9098.0	9032.0
35°	17045.8	13604.6	13265.2	11417.3	10568.8	10342.5	10106.8	10493.4	10455.7	10352.0
37.5°	18016.9	14943.4	14632.3	12803.2	11926.4	11530.5	11492.7	11841.6	12152.7	12133.8
40°	18714.6	16027.6	15650.5	14179.7	13350.1	13010.7	13208.6	13812.0	13736.6	13632.9
42.5°	19355.7	16951.6	16612.2	15386.5	14519.1	14670.0	14849.1	15254.5	15207.4	15103.7
45°	19657.4	17743.5	17451.2	16301.0	15876.8	16357.6	16348.2	16499.0	16244.5	16206.7
47.5°	20081.7	18309.2	18007.5	17121.3	17498.4	17696.4	17140.1	16979.8	16744.1	16555.6
50°	20864.2	19186.0	18884.3	18365.8	18686.3	18073.5	17394.7	17045.8	16565.0	16235.0
52.5°	21778.7	20515.3	20251.4	20043.9	19148.3	17884.9	17017.6	16385.9	15801.3	15518.5
55°	22928.9	22476.4	22287.8	21147.0	18733.5	17111.8	16093.6	14915.1	14113.7	13849.7
57.5°	23306.0	25351.9	25285.9	21326.2	17573.8	15707.1	13868.6	12275.3	11445.6	11275.9
60°	22193.5	27605.2	27369.5	21024.5	15471.4	12746.7	10597.1	8966.0	7617.8	7419.8
62.5°	20769.9	25879.9	25795.0	19506.6	11785.0	9135.7	7919.5	6392.2	5817.1	5666.2
65°	17790.7	21175.3	21213.0	15650.5	7457.6	6561.9	6505.3	5081.7	4374.6	4261.5
67.5°	13698.9	16244.5	15980.5	9842.8	4346.3	5251.4	5194.8	3714.6	2687.0	2611.6
70°	8004.4	12096.1	11671.9	5119.4	2875.5	4384.0	3997.5	2611.6	1829.0	1744.2
72.5°	3535.5	6656.2	7146.4	2253.3	2027.0	3488.4	2885.0	1602.8	1027.7	1008.8
75°	1961.0	3299.8	3450.7	980.5	1423.6	2479.6	1744.2	895.7	584.5	575.1
77.5°	1178.5	1461.3	1423.6	631.7	1065.4	1583.9	1055.9	509.1	367.7	348.8
80°	660.0	669.4	565.7	462.0	631.7	886.2	594.0	320.6	169.7	169.7
82.5°	405.4	367.7	292.3	141.4	169.7	537.4	216.8	179.1	56.6	56.6
85°	169.7	113.1	75.4	28.3	66.0	141.4	75.4	84.9	28.3	28.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

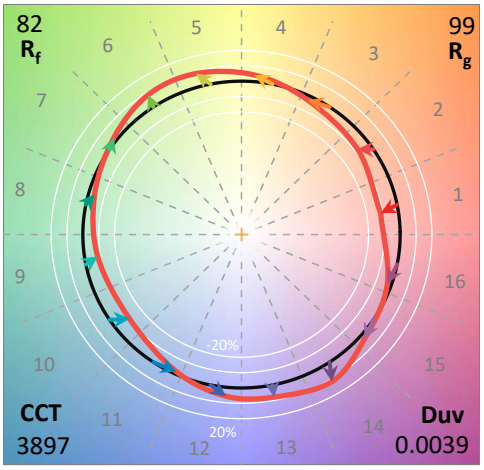
Test Information

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

Spectral Parameters

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

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



Test Conditions

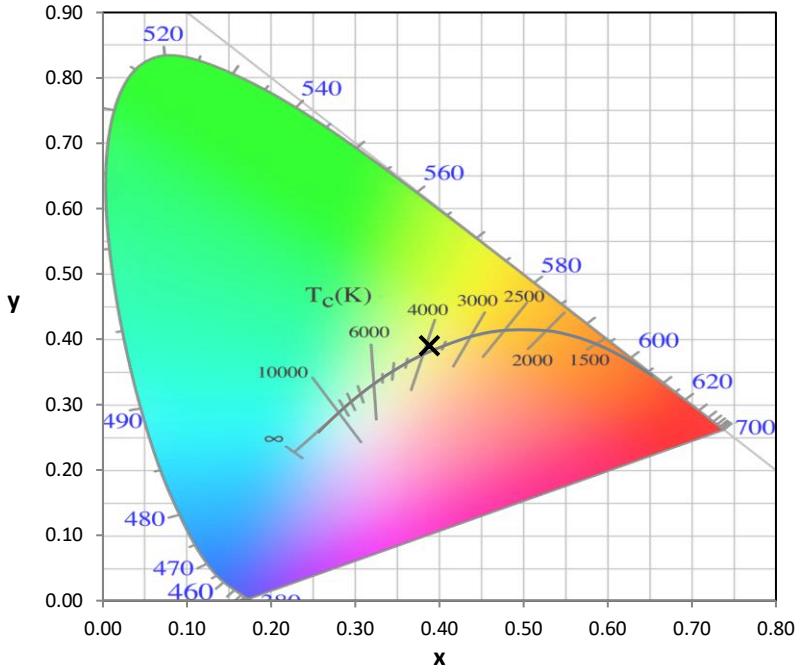
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

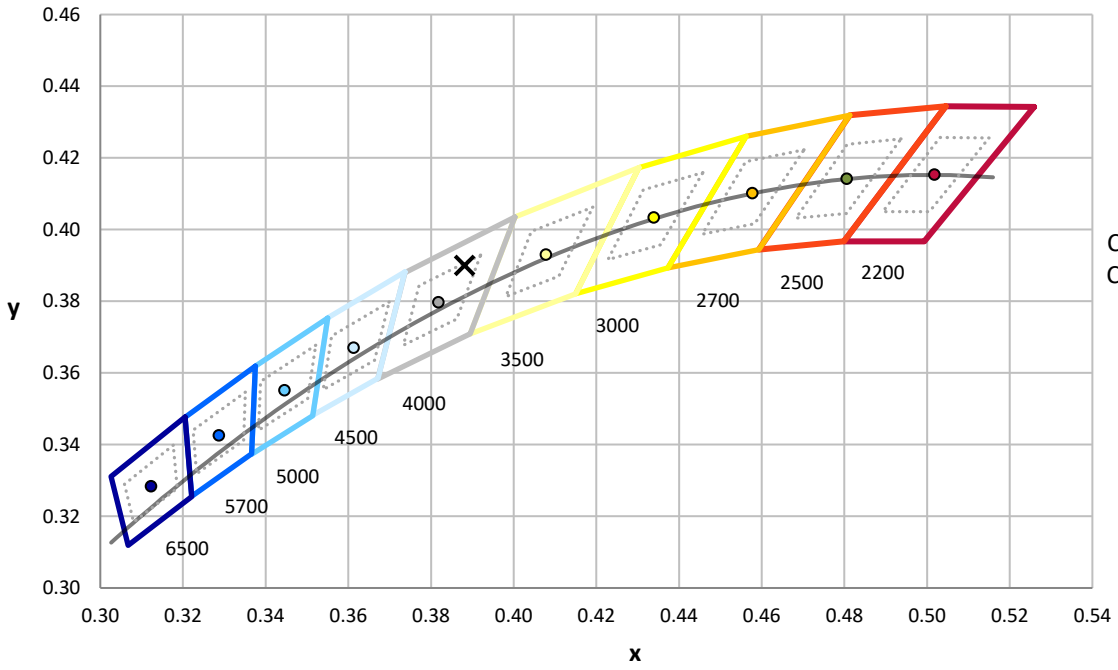
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

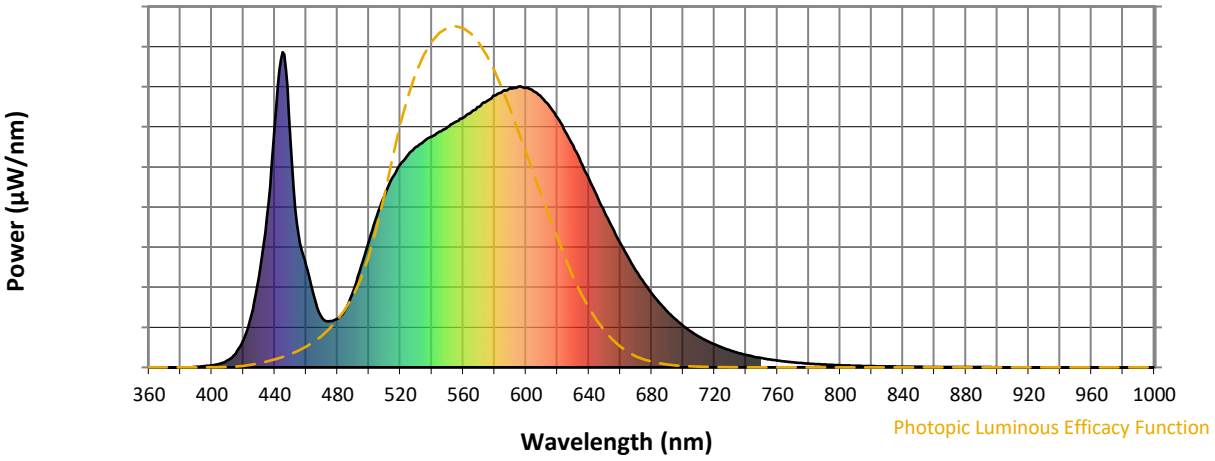


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

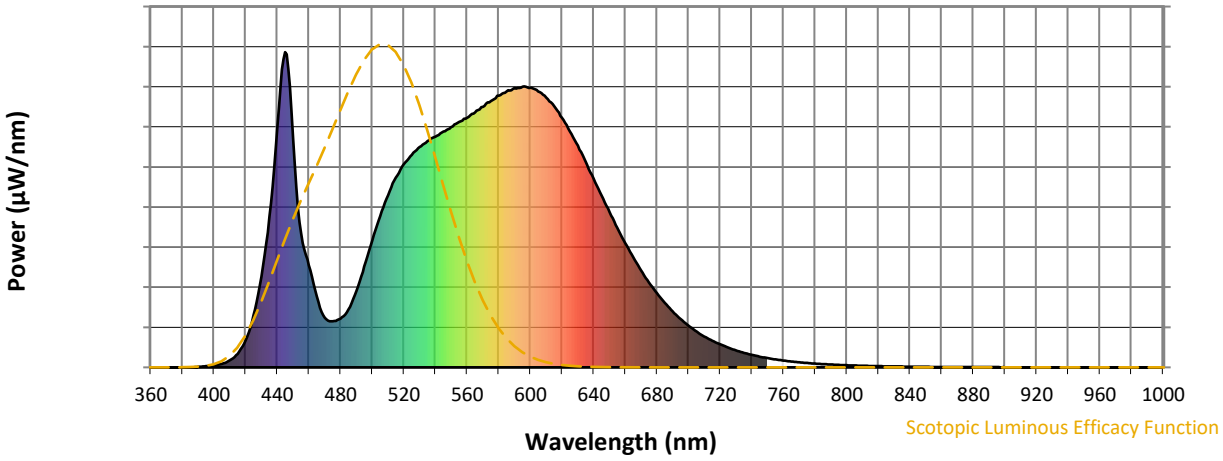


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

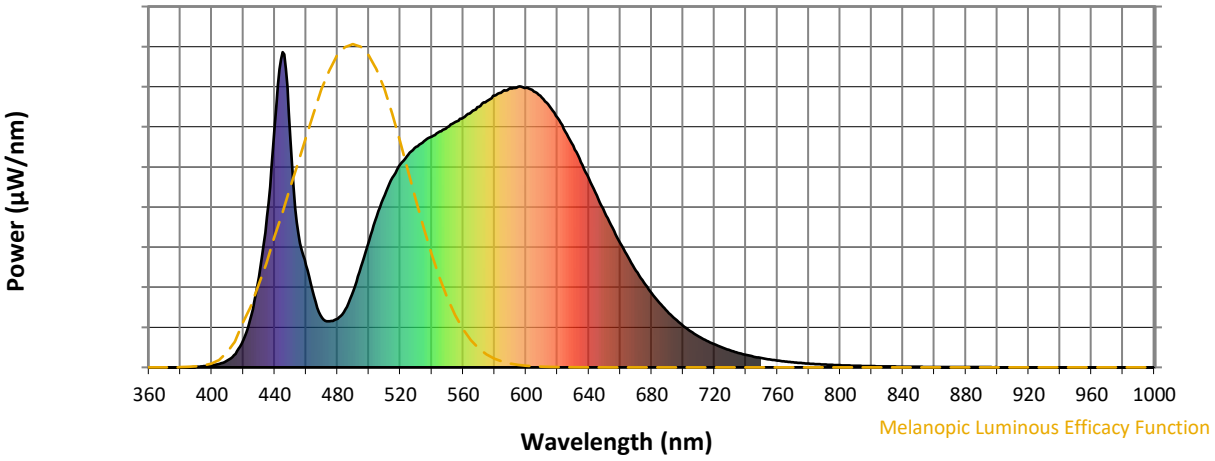


Scotopic Lumens: NR **S/P: 1.57**

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

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



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

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

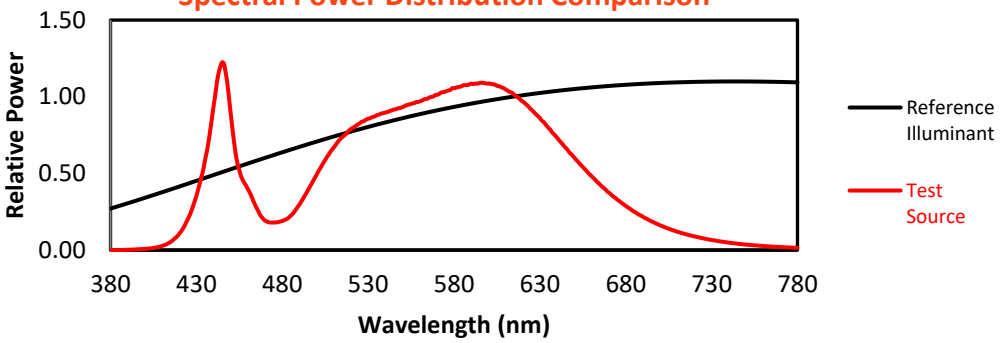
REPORT NUMBER: SP1-2407-184-11

TM-30-18

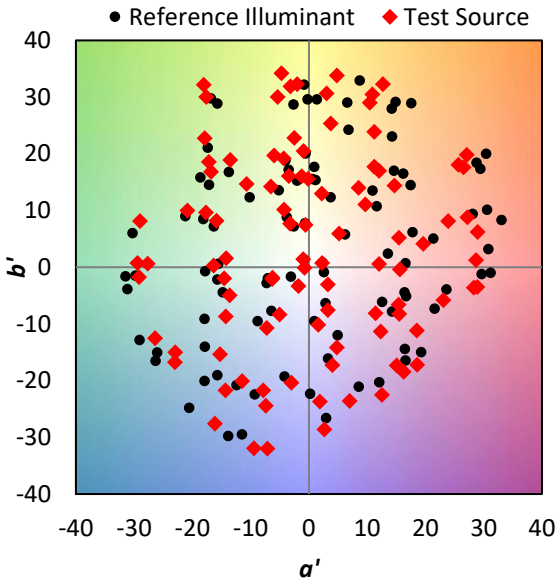
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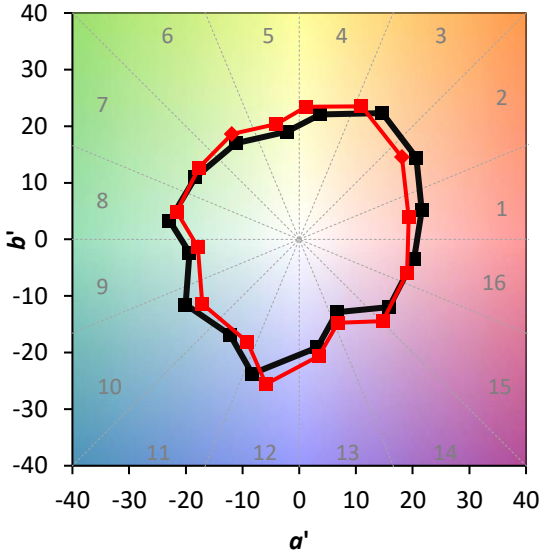
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

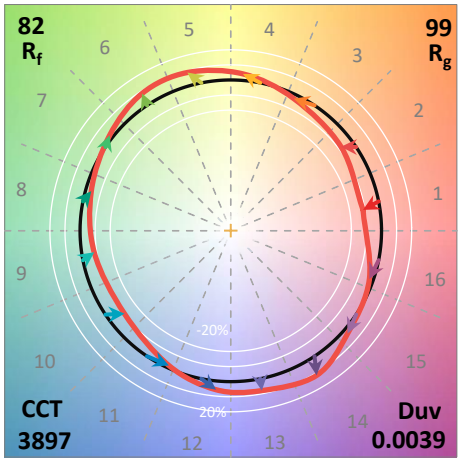
Spectral Power Distribution Comparison

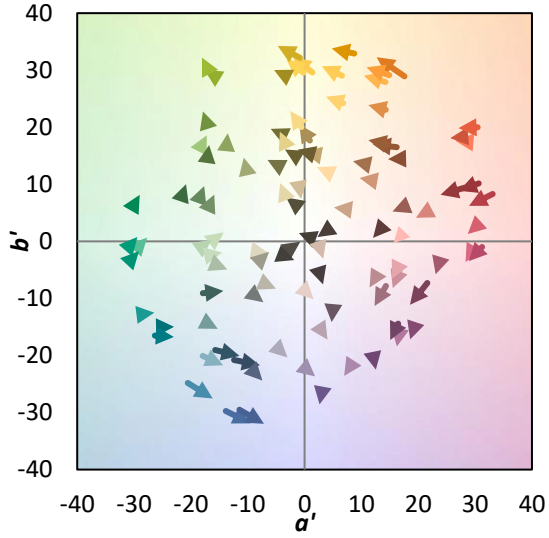


Color Vector Graphics







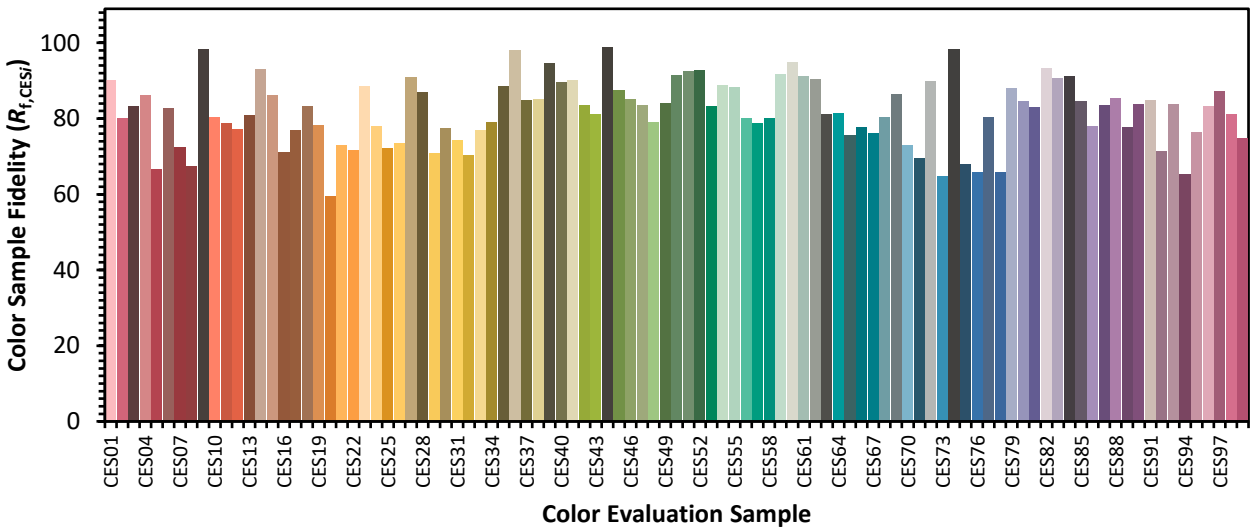


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Individual Sample Fidelity Index ($R_{f,i}$)

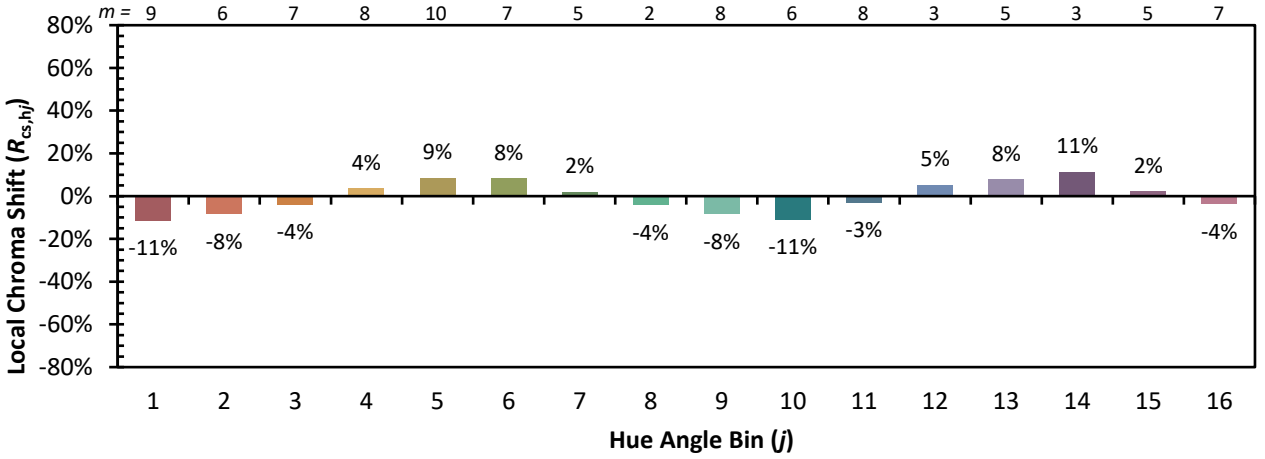
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CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57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

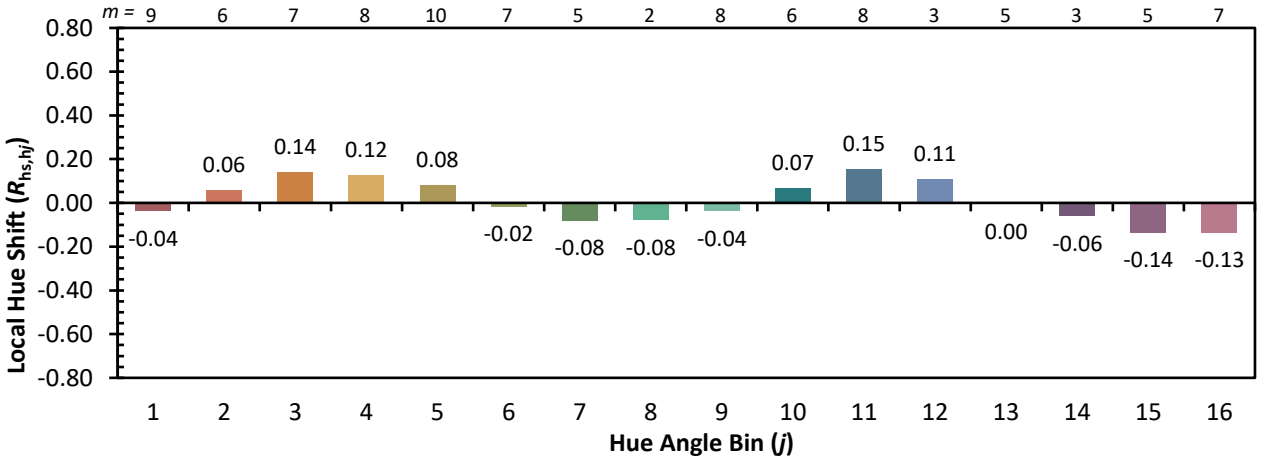


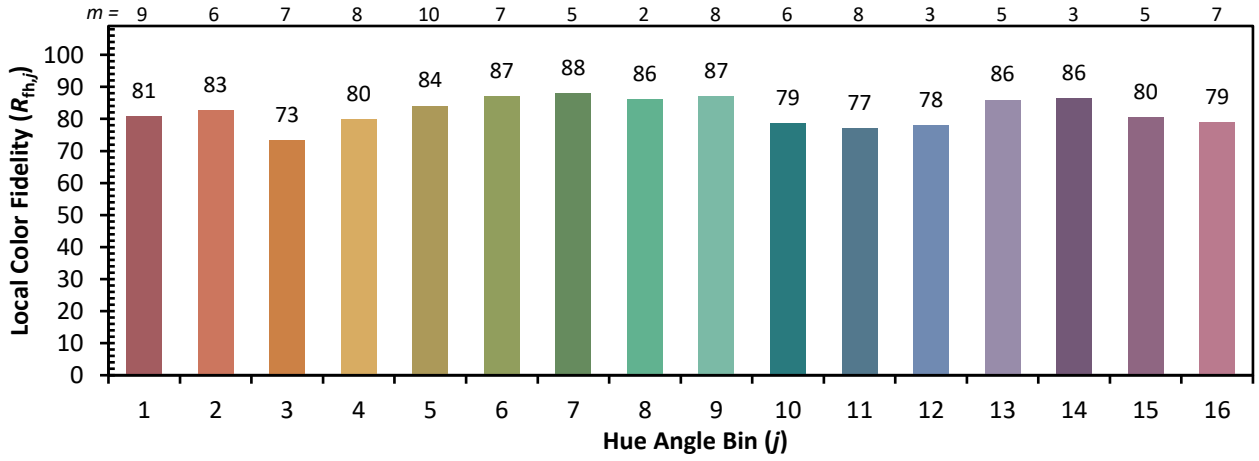
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Color Rendition by Hue-Angle Bin



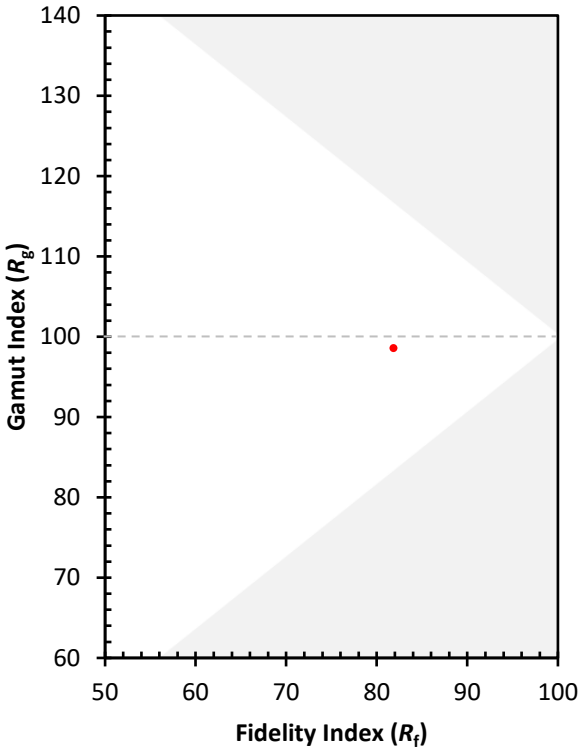


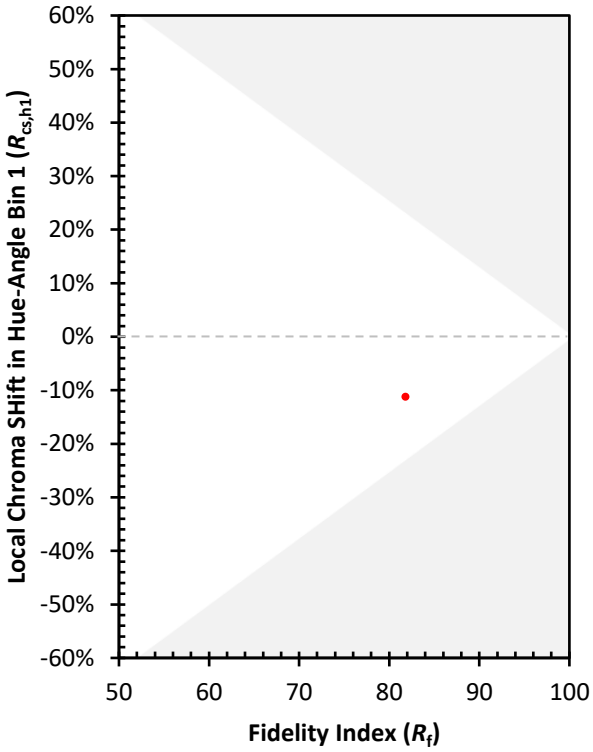


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Measure Comparisons





(END OF REPORT)