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: P1501895

Luminaire Tested: GSS-SB5C-827-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501895
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5C-827-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(130) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25497.2 lumens
Efficiency:	N/A
Efficacy:	101.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G3

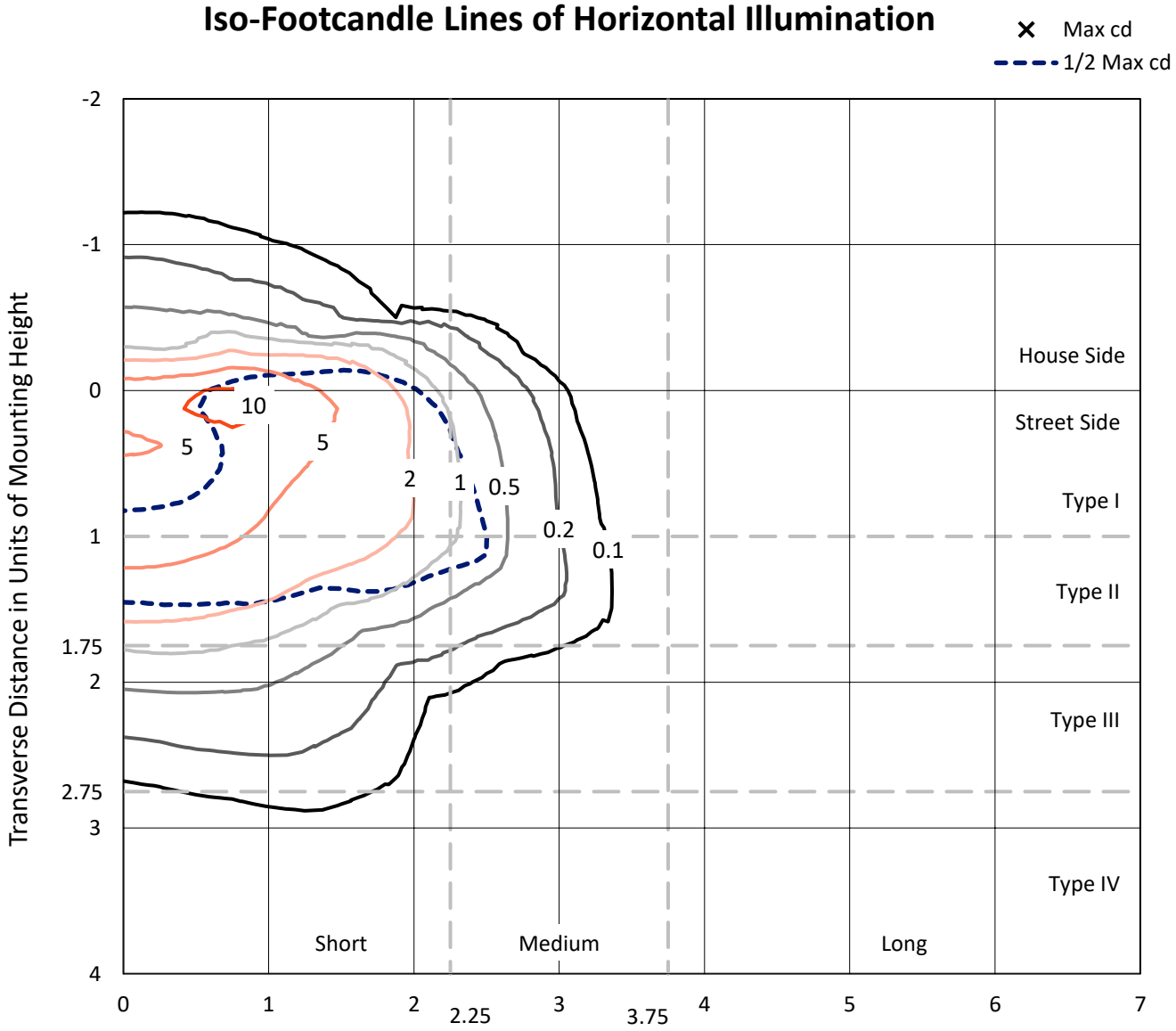
Input Watts (W):	252
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	7.9%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



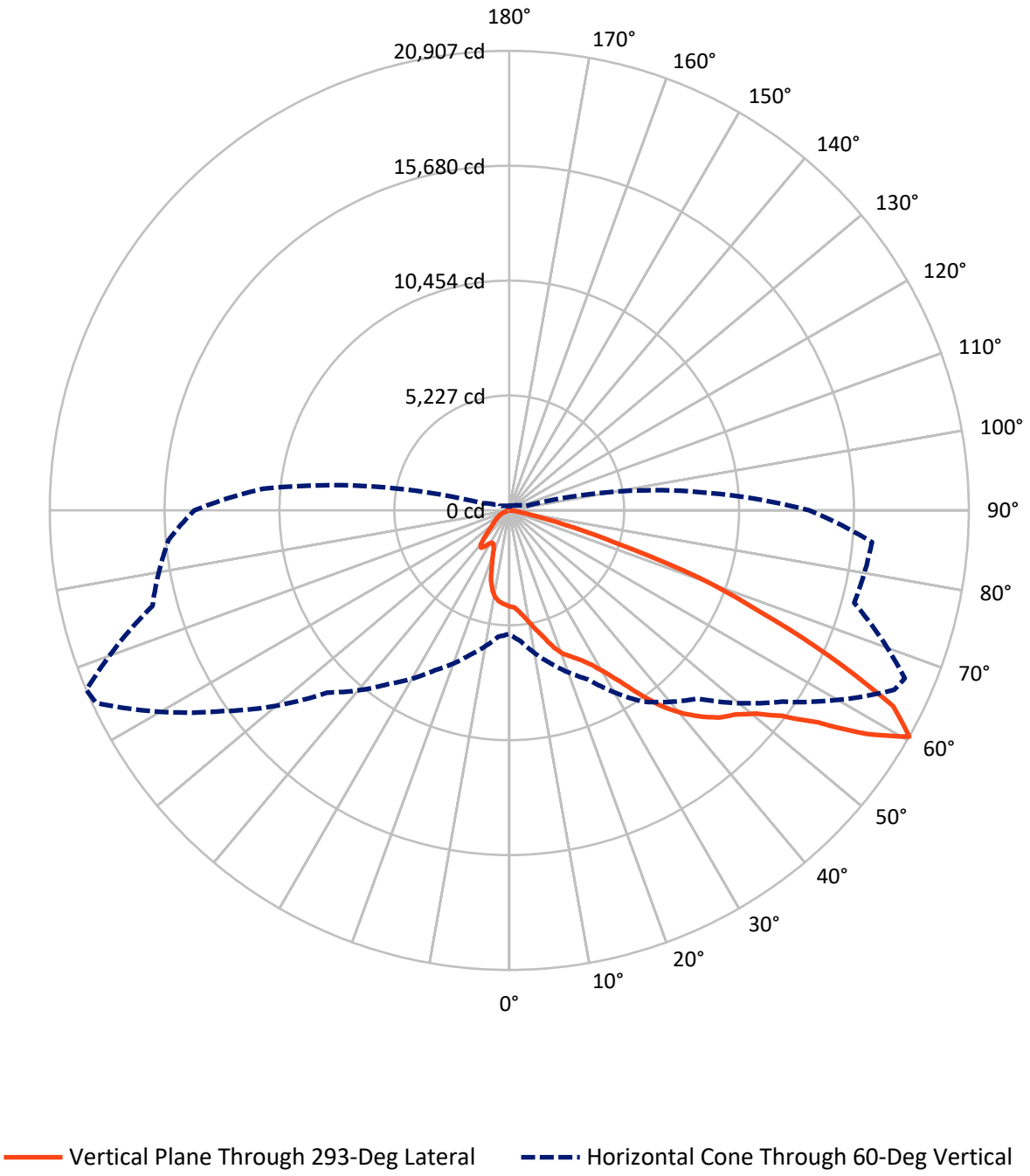
Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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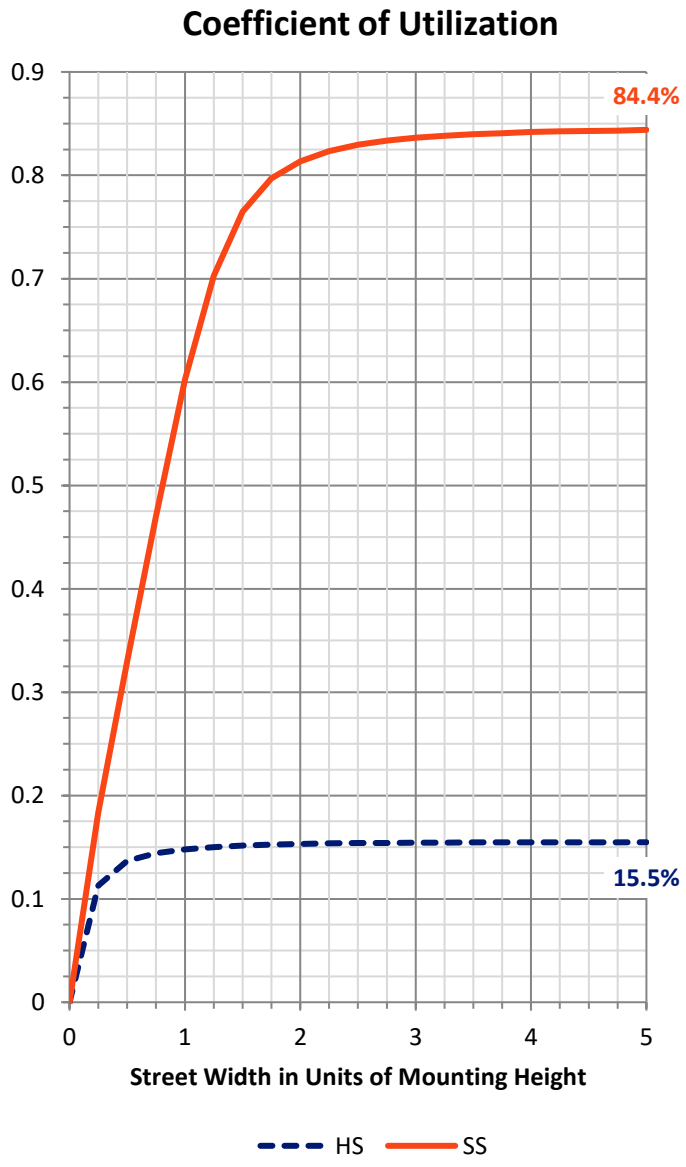
REPORT NUMBER: P1501895
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3978.2	0.0	3978.2
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	21519.0	0.0	21519.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	25497.2	0.0	25497.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	1.6
10°-20°	996.6	3.9
20°-30°	1860.4	7.3
30°-40°	3689.4	14.5
40°-50°	5882.2	23.1
50°-60°	7027.7	27.6
60°-70°	4607.1	18.1
70°-80°	965.2	3.8
80°-90°	73.0	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25497.2	100.0
0°-180°	25497.2	100.0



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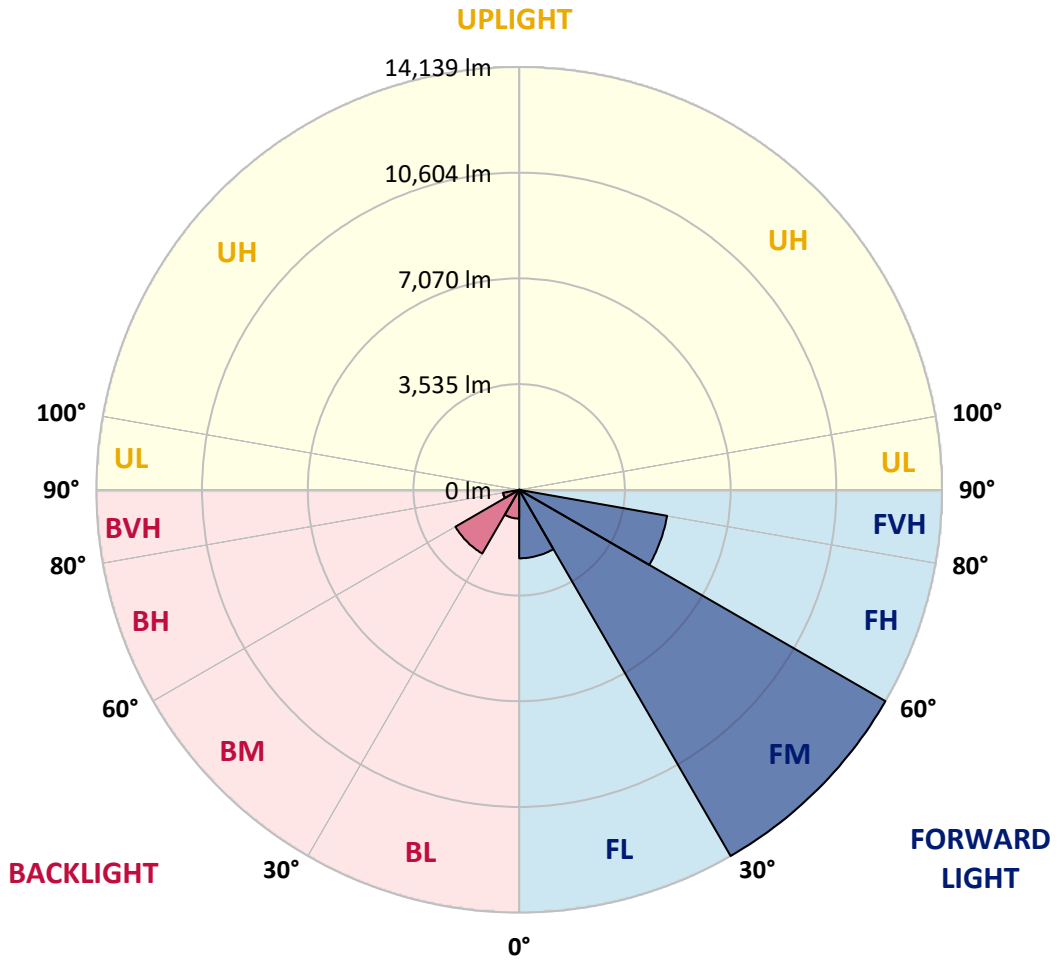
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2290.2	9.0			
FM	(30°-60°)	14139.2	55.5			
FH	(60°-80°)	5022.8	19.7			G3/7500
FVH	(80°-90°)	66.9	0.3			G1/100
BL	(0°-30°)	962.4	3.8	B2/1000		
BM	(30°-60°)	2460.1	9.6	B2/2500		
BH	(60°-80°)	549.5	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°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4591.3	4577.0	4555.6	4562.8	4555.6	4527.1	4484.2	4448.5	4477.1	4434.2	4405.7
5°	4727.0	4727.0	4712.7	4712.7	4719.8	4705.6	4677.0	4627.0	4634.2	4598.5	4505.6
7.5°	4727.0	4705.6	4741.3	4777.0	4841.2	4876.9	4891.2	4862.7	4876.9	4805.5	4684.1
10°	4448.5	4434.2	4527.1	4662.7	4848.4	5012.6	5119.7	5126.9	5148.3	5076.9	4934.1
12.5°	3855.9	3827.3	4012.9	4270.0	4648.4	5026.9	5326.8	5441.0	5491.0	5462.5	5262.5
15°	3306.0	3341.7	3470.3	3748.7	4255.7	4834.1	5441.0	5819.5	5890.9	5926.6	5691.0
17.5°	3248.9	3256.1	3298.9	3434.6	3820.1	4519.9	5455.3	6212.2	6312.2	6469.3	6147.9
20°	3406.0	3391.7	3434.6	3477.4	3663.1	4241.4	5319.6	6590.6	6783.4	7119.0	6769.2
22.5°	3698.8	3698.8	3720.2	3748.7	3841.6	4220.0	5262.5	6940.5	7269.0	7954.5	7547.5
25°	4191.5	4134.3	4148.6	4112.9	4191.5	4477.1	5391.1	7219.0	7668.9	8882.7	8475.7
27.5°	4955.5	4976.9	4848.4	4655.6	4698.4	4941.2	5705.2	7533.2	8083.0	9846.7	9418.3
30°	6012.3	5976.6	5898.0	5519.6	5348.2	5562.4	6283.6	8047.3	8640.0	11067.7	10675.0
32.5°	6840.6	6940.5	6804.9	6540.7	6276.5	6340.7	7097.6	8875.6	9318.3	12188.8	11974.6
35°	7840.2	7840.2	7868.8	7497.5	7319.0	7304.7	8118.7	9775.3	10218.0	13202.7	13352.7
37.5°	9189.8	9097.0	8939.9	8525.7	8390.0	8568.6	9075.5	10703.6	11182.0	14023.9	14423.7
40°	10325.1	10389.4	10368.0	9768.2	9504.0	9696.8	10146.6	11496.1	11867.5	14552.3	15287.7
42.5°	11439.0	11474.7	11381.9	11096.3	10710.7	10725.0	11096.3	12095.9	12474.4	15059.2	16101.7
45°	12274.5	12267.3	12203.1	12131.7	11903.2	11667.5	11731.8	12760.0	13088.5	15223.5	16544.5
47.5°	12538.7	12595.8	12652.9	12852.8	13009.9	12638.6	12310.2	13117.0	13416.9	15194.9	16708.7
50°	12295.9	12417.3	12695.7	12995.6	13531.2	13502.6	12795.7	13502.6	13795.4	15352.0	16901.5
52.5°	11753.2	11874.6	12245.9	12788.6	13595.4	13995.3	13695.4	14152.4	14495.1	15751.9	17301.3
55°	10489.3	10539.3	11303.4	12017.4	13274.1	13781.1	14659.4	15252.0	15537.7	16237.4	17829.7
57.5°	8540.0	8661.4	9411.1	10575.0	12374.4	13217.0	15209.2	17130.0	17122.8	16701.5	17944.0
60°	*5619.5*	*5976.6*	*7197.6*	*8482.9*	*10632.2*	*12110.2*	*15173.5*	*19329.2*	*19550.6*	*16244.6*	*16565.9*
62.5°	4291.4	4441.4	5134.0	6205.1	7868.8	10039.5	14937.9	19986.2	20157.5	15016.4	14502.3
65°	3227.5	3413.1	4077.2	5034.0	5555.3	6804.9	13395.5	17372.8	17608.4	13402.7	11274.8
67.5°	1977.9	2127.9	3013.3	4134.3	4205.7	4227.2	9039.8	13159.9	13245.6	10810.7	7590.3
70°	1321.0	1470.9	2085.0	3177.5	3348.9	2434.9	4962.6	9960.9	9953.8	7397.5	4612.7
72.5°	764.0	835.4	1321.0	2342.1	2634.8	1549.5	2477.7	6333.6	6055.1	3477.4	2156.4
75°	435.6	485.6	728.3	1506.6	1849.4	985.4	978.2	3391.7	2999.0	1792.3	1178.2
77.5°	264.2	285.6	399.9	985.4	1113.9	664.1	542.7	1578.0	1520.9	1049.6	621.2
80°	128.5	149.9	242.8	578.4	714.0	357.0	328.5	621.2	664.1	578.4	328.5
82.5°	42.8	57.1	135.7	221.4	464.1	142.8	135.7	342.7	364.2	342.7	157.1
85°	21.4	28.6	64.3	71.4	178.5	71.4	50.0	149.9	185.7	114.2	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°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4384.2	4370.0	4341.4	4291.4	4284.3	4248.6	4191.5	4155.8	4127.2	4148.6	4155.8
5°	4462.8	4427.1	4341.4	4205.7	4062.9	3920.1	3784.4	3627.4	3520.2	3506.0	3477.4
7.5°	4605.6	4534.2	4348.5	4084.3	3720.2	3377.4	2977.6	2592.0	2399.2	2370.6	2306.4
10°	4834.1	4712.7	4405.7	3870.1	3170.4	2456.3	1849.4	1435.2	1199.6	1156.8	1171.0
12.5°	5105.4	4934.1	4412.8	3506.0	2413.5	1520.9	1049.6	892.6	842.6	821.2	821.2
15°	5455.3	5205.4	4405.7	3034.7	1628.0	978.2	842.6	778.3	756.9	742.6	742.6
17.5°	5898.0	5569.6	4355.7	2327.8	1099.6	849.7	771.2	721.2	692.6	685.5	685.5
20°	6419.3	5976.6	4241.4	1735.1	921.1	792.6	728.3	664.1	642.6	628.4	628.4
22.5°	7083.3	6469.3	4020.1	1349.5	871.1	756.9	685.5	614.1	592.7	578.4	578.4
25°	7854.5	7097.6	3727.3	1213.9	864.0	728.3	642.6	571.2	549.8	542.7	535.5
27.5°	8768.5	7768.8	3456.0	1221.0	878.3	706.9	599.8	535.5	514.1	492.7	499.8
30°	9846.7	8461.5	3234.6	1306.7	892.6	685.5	571.2	514.1	492.7	464.1	464.1
32.5°	10910.6	9275.5	3213.2	1463.8	942.5	671.2	542.7	485.6	464.1	442.7	442.7
35°	12003.1	10018.1	3334.6	1670.9	1042.5	649.8	507.0	457.0	435.6	421.3	414.1
37.5°	13045.6	10610.7	3448.8	1799.4	985.4	557.0	464.1	421.3	399.9	371.3	371.3
40°	13738.3	10932.1	3470.3	1699.4	814.0	499.8	421.3	378.4	349.9	335.6	328.5
42.5°	14245.2	11139.1	3227.5	1378.1	706.9	457.0	385.6	342.7	321.3	307.0	307.0
45°	14452.3	11067.7	2813.3	1049.6	649.8	421.3	349.9	314.2	299.9	285.6	285.6
47.5°	14423.7	10739.3	2392.1	842.6	592.7	385.6	328.5	299.9	285.6	271.3	264.2
50°	14373.8	10432.2	1963.6	749.7	528.4	364.2	307.0	285.6	264.2	249.9	242.8
52.5°	14702.2	10332.3	1628.0	685.5	492.7	349.9	299.9	271.3	249.9	235.6	235.6
55°	15030.7	10375.1	1278.1	642.6	457.0	342.7	292.8	264.2	242.8	221.4	221.4
57.5°	15009.3	10189.4	971.1	599.8	428.4	335.6	285.6	257.1	221.4	207.1	207.1
60°	*13645.4*	*9089.8*	*756.9*	*549.8*	*392.7*	*314.2*	*264.2*	*242.8*	*207.1*	*185.7*	*185.7*
62.5°	11539.0	7147.6	621.2	485.6	349.9	285.6	242.8	221.4	185.7	149.9	149.9
65°	8525.7	5155.4	499.8	421.3	321.3	249.9	221.4	192.8	149.9	121.4	114.2
67.5°	5769.5	3170.4	399.9	349.9	285.6	214.2	185.7	164.2	135.7	100.0	92.8
70°	3420.3	1685.1	292.8	242.8	214.2	157.1	157.1	142.8	114.2	85.7	78.5
72.5°	1628.0	585.5	214.2	178.5	164.2	114.2	121.4	121.4	92.8	64.3	57.1
75°	828.3	285.6	142.8	128.5	107.1	85.7	100.0	92.8	64.3	42.8	42.8
77.5°	471.3	199.9	100.0	85.7	71.4	57.1	64.3	57.1	35.7	21.4	21.4
80°	264.2	142.8	64.3	57.1	42.8	35.7	35.7	28.6	21.4	7.1	7.1
82.5°	100.0	85.7	42.8	28.6	21.4	21.4	14.3	14.3	7.1	0.0	0.0
85°	42.8	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°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4098.6	4112.9	4127.2	4184.3	4198.6	4241.4	4277.1	4320.0	4327.1	4384.2	4384.2
5°	3534.5	3527.4	3648.8	3827.3	3941.5	4098.6	4220.0	4348.5	4419.9	4512.8	4555.6
7.5°	2342.1	2520.6	2791.9	3106.1	3513.1	3891.6	4177.2	4427.1	4598.5	4705.6	4748.4
10°	1163.9	1263.9	1549.5	2063.6	2756.2	3527.4	4134.3	4598.5	4876.9	4998.3	5076.9
12.5°	821.2	842.6	892.6	1171.0	1835.1	2927.6	3998.7	4784.1	5169.7	5398.2	5498.2
15°	735.5	749.7	771.2	849.7	1135.3	2185.0	3755.9	4991.2	5626.7	5890.9	6019.4
17.5°	678.3	685.5	706.9	771.2	892.6	1485.2	3363.2	5212.5	6176.5	6497.8	6740.6
20°	628.4	628.4	649.8	728.3	828.3	1142.5	2799.1	5462.5	6876.3	7340.4	7583.2
22.5°	571.2	585.5	599.8	685.5	806.9	1042.5	2270.7	5655.2	7654.6	8218.7	8504.3
25°	528.4	542.7	557.0	642.6	785.5	1042.5	1963.6	5776.6	8525.7	9196.9	9589.6
27.5°	492.7	507.0	528.4	614.1	764.0	1085.4	1842.2	5812.3	9475.4	10346.5	10874.9
30°	464.1	478.4	499.8	592.7	778.3	1135.3	1885.1	5762.4	10439.4	11531.9	12160.2
32.5°	435.6	449.8	471.3	571.2	778.3	1199.6	2027.9	5662.4	11374.8	12717.2	13488.3
35°	414.1	421.3	428.4	514.1	706.9	1192.5	2206.4	5562.4	12317.3	13888.2	14787.9
37.5°	371.3	378.4	392.7	442.7	564.1	1085.4	2242.1	5441.0	13059.9	14873.6	15866.1
40°	328.5	342.7	357.0	407.0	471.3	878.3	2085.0	5184.0	13452.6	15630.5	16837.2
42.5°	299.9	307.0	321.3	371.3	435.6	699.8	1749.4	4734.1	13802.5	16144.6	17544.1
45°	278.5	285.6	299.9	335.6	407.0	606.9	1378.1	4184.3	13831.1	16308.8	17886.9
47.5°	257.1	264.2	271.3	307.0	392.7	542.7	1056.8	3684.5	13823.9	16523.0	18179.6
50°	242.8	249.9	264.2	292.8	371.3	485.6	871.1	3277.5	14123.8	16987.2	18772.3
52.5°	235.6	235.6	257.1	285.6	349.9	442.7	728.3	2913.3	14280.9	17444.2	19200.7
55°	221.4	228.5	242.8	271.3	328.5	421.3	621.2	2456.3	14352.3	17672.7	19279.3
57.5°	207.1	214.2	235.6	257.1	314.2	399.9	535.5	1835.1	13331.2	16480.2	17965.4
60°	*185.7*	*199.9*	*228.5*	*249.9*	*292.8*	*364.2*	*471.3*	*1242.4*	*11246.2*	*14323.8*	*15566.2*
62.5°	149.9	178.5	207.1	221.4	264.2	307.0	399.9	828.3	8982.7	11853.2	13267.0
65°	114.2	149.9	171.4	192.8	221.4	257.1	335.6	564.1	5990.9	7975.9	9568.2
67.5°	100.0	128.5	142.8	157.1	185.7	221.4	271.3	392.7	3634.5	4791.3	6362.2
70°	78.5	107.1	121.4	114.2	142.8	171.4	192.8	264.2	1856.5	2599.1	3620.2
72.5°	57.1	85.7	92.8	92.8	85.7	121.4	142.8	185.7	806.9	1263.9	1642.3
75°	42.8	57.1	64.3	57.1	50.0	78.5	100.0	121.4	528.4	756.9	956.8
77.5°	21.4	21.4	35.7	35.7	21.4	42.8	50.0	71.4	299.9	442.7	549.8
80°	7.1	0.0	0.0	7.1	0.0	14.3	21.4	35.7	157.1	235.6	342.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	78.5	71.4	178.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	42.8
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: P1501895
CATALOG NUMBER: GSS-SB5C-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4419.9	4419.9	4448.5	4491.4	4512.8	4527.1	4534.2	4548.5	4605.6	4591.3
5°	4605.6	4619.9	4641.3	4684.1	4734.1	4719.8	4719.8	4719.8	4755.5	4727.0
7.5°	4848.4	4891.2	4898.4	4948.3	4912.6	4841.2	4798.4	4734.1	4727.0	4727.0
10°	5241.1	5226.8	5226.8	5162.6	5034.0	4827.0	4641.3	4512.8	4441.4	4448.5
12.5°	5662.4	5605.3	5612.4	5376.8	5012.6	4555.6	4177.2	3898.7	3877.3	3855.9
15°	6183.6	6033.7	6005.1	5462.5	4691.3	3991.5	3620.2	3398.9	3327.5	3306.0
17.5°	6926.3	6547.8	6412.1	5312.5	4270.0	3641.6	3363.2	3263.2	3256.1	3248.9
20°	7711.7	6962.0	6704.9	5091.2	4127.2	3648.8	3441.7	3413.1	3398.9	3406.0
22.5°	8625.7	7226.2	6897.7	5126.9	4255.7	3884.4	3720.2	3698.8	3684.5	3698.8
25°	9568.2	7533.2	7126.2	5412.5	4641.3	4320.0	4127.2	4084.3	4127.2	4191.5
27.5°	10517.9	7947.3	7576.0	5976.6	5262.5	4912.6	4727.0	4884.1	4948.3	4955.5
30°	11360.5	8525.7	8183.0	6769.2	5969.4	5619.5	5655.2	5855.2	5933.7	6012.3
32.5°	12131.7	9296.9	9032.7	7668.9	6883.4	6676.3	6654.9	6804.9	6890.5	6840.6
35°	12910.0	10303.7	10046.6	8647.1	8004.5	7833.1	7654.6	7947.3	7918.8	7840.2
37.5°	13645.4	11317.6	11082.0	9696.8	9032.7	8732.8	8704.2	8968.4	9204.1	9189.8
40°	14173.8	12138.8	11853.2	10739.3	10110.9	9853.8	10003.8	10460.8	10403.7	10325.1
42.5°	14659.4	12838.6	12581.5	11653.2	10996.3	11110.6	11246.2	11553.3	11517.6	11439.0
45°	14887.9	13438.4	13217.0	12345.9	12024.5	12388.7	12381.6	12495.8	12303.0	12274.5
47.5°	15209.2	13866.8	13638.3	12967.1	13252.7	13402.7	12981.4	12860.0	12681.5	12538.7
50°	15801.8	14530.8	14302.4	13909.6	14152.4	13688.3	13174.2	12910.0	12545.8	12295.9
52.5°	16494.5	15537.7	15337.7	15180.6	14502.3	13545.5	12888.5	12410.1	11967.4	11753.2
55°	17365.6	17022.9	16880.1	16016.1	14188.1	12959.9	12188.8	11296.2	10689.3	10489.3
57.5°	17651.2	19200.7	19150.7	16151.7	13309.8	11896.0	10503.6	9296.9	8668.5	8540.0
60°	16808.7	20907.3	20728.8	15923.2	11717.5	9653.9	8025.9	6790.6	5769.5	5619.5
62.5°	15730.4	19600.6	19536.3	14773.6	8925.6	6919.1	5998.0	4841.2	4405.7	4291.4
65°	13474.1	16037.5	16066.0	11853.2	5648.1	4969.8	4926.9	3848.7	3313.2	3227.5
67.5°	10375.1	12303.0	12103.1	7454.6	3291.8	3977.2	3934.4	2813.3	2035.0	1977.9
70°	6062.3	9161.2	8839.9	3877.3	2177.8	3320.3	3027.6	1977.9	1385.3	1321.0
72.5°	2677.7	5041.2	5412.5	1706.6	1535.2	2642.0	2185.0	1213.9	778.3	764.0
75°	1485.2	2499.2	2613.4	742.6	1078.2	1877.9	1321.0	678.3	442.7	435.6
77.5°	892.6	1106.8	1078.2	478.4	806.9	1199.6	799.7	385.6	278.5	264.2
80°	499.8	507.0	428.4	349.9	478.4	671.2	449.8	242.8	128.5	128.5
82.5°	307.0	278.5	221.4	107.1	128.5	407.0	164.2	135.7	42.8	42.8
85°	128.5	85.7	57.1	21.4	50.0	107.1	57.1	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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

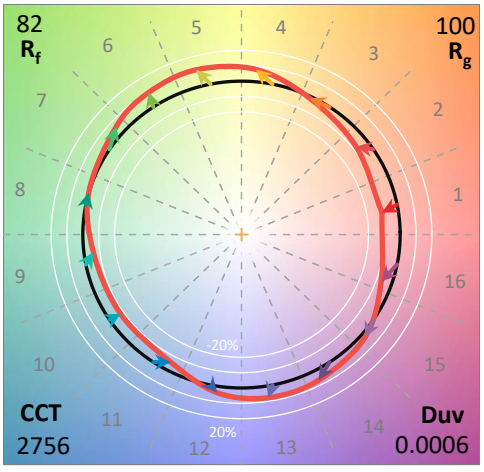
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

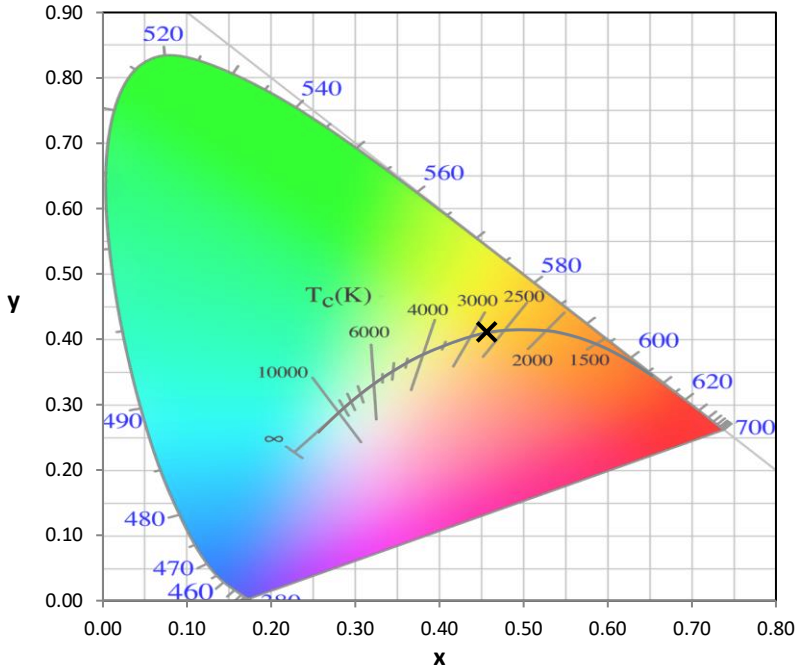
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

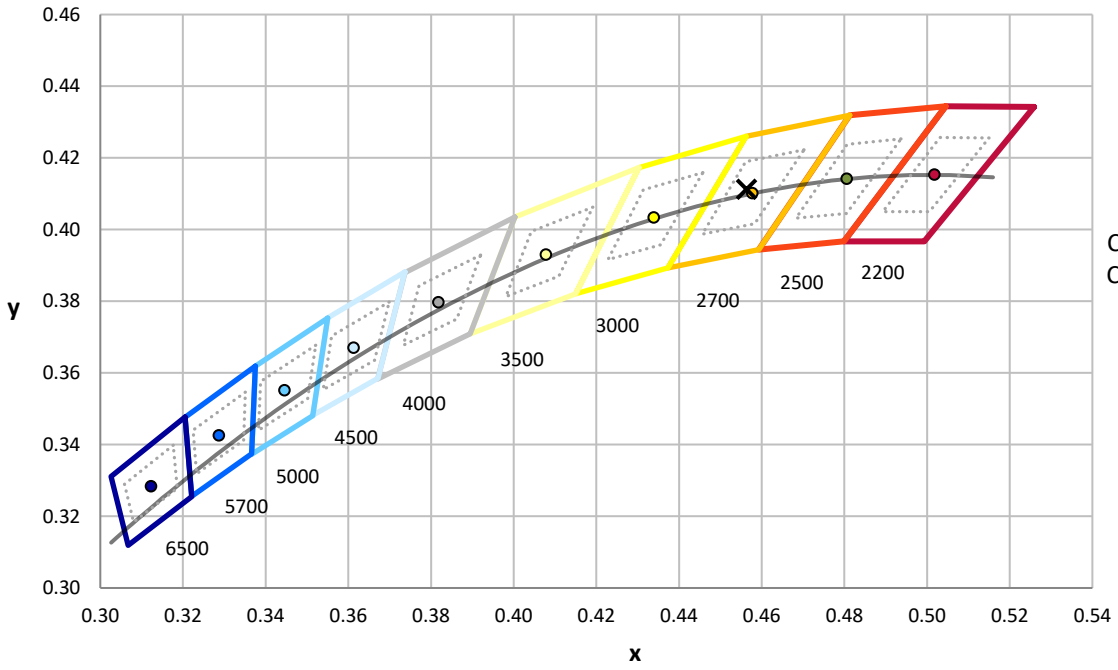
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

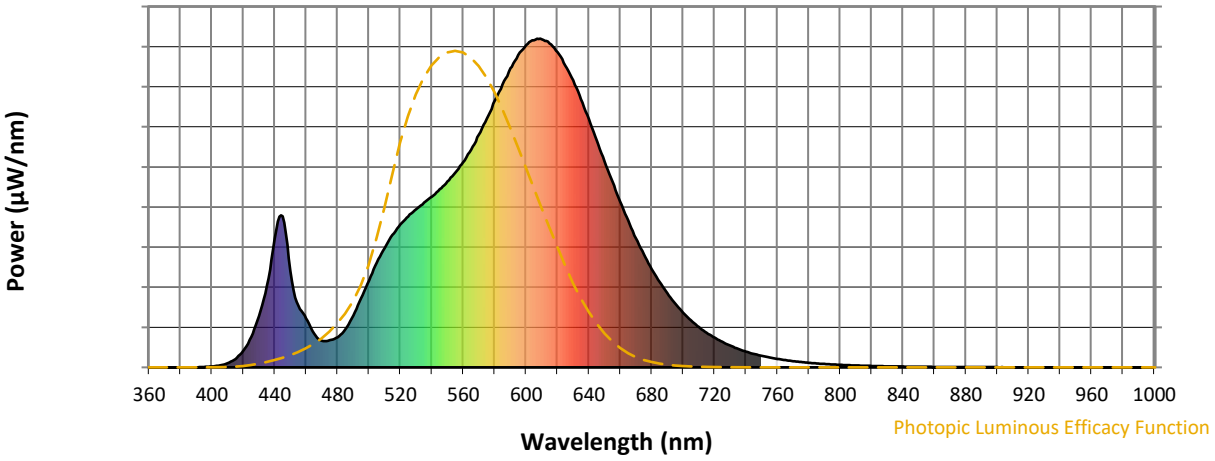


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

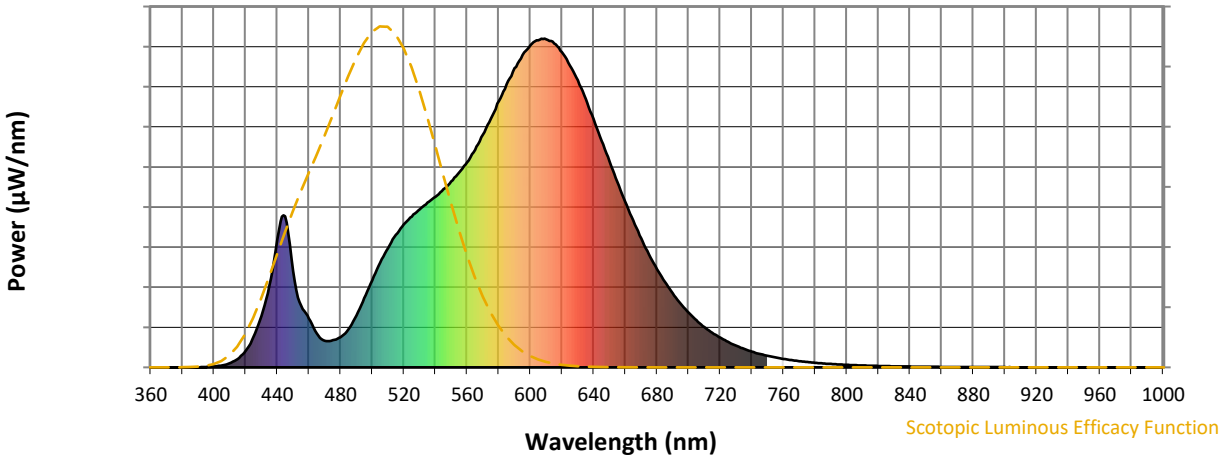


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

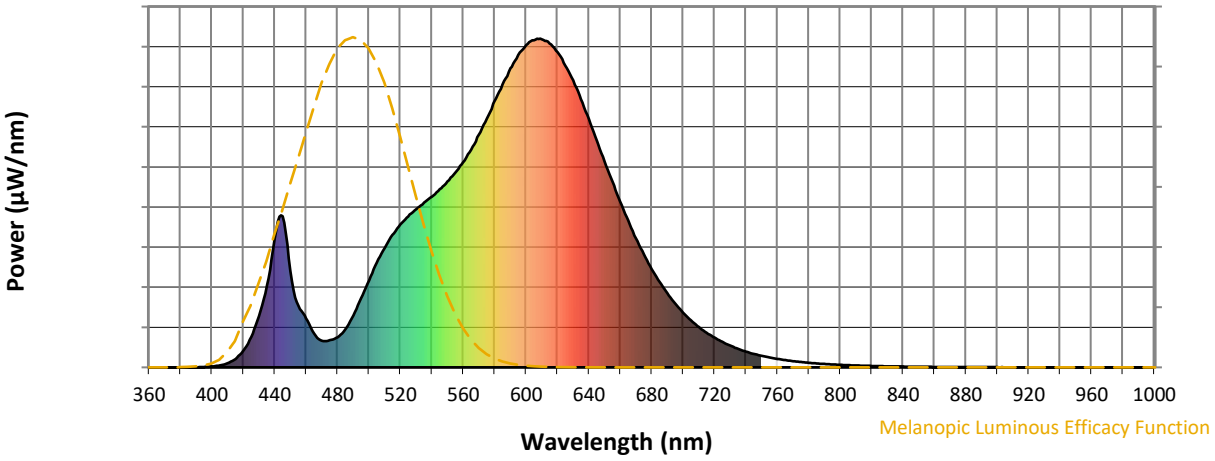


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

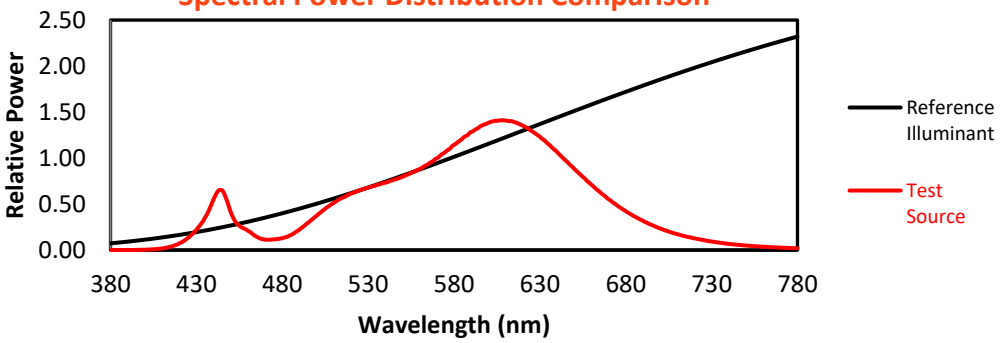
REPORT NUMBER: SP1-2407-184-8

TM-30-18

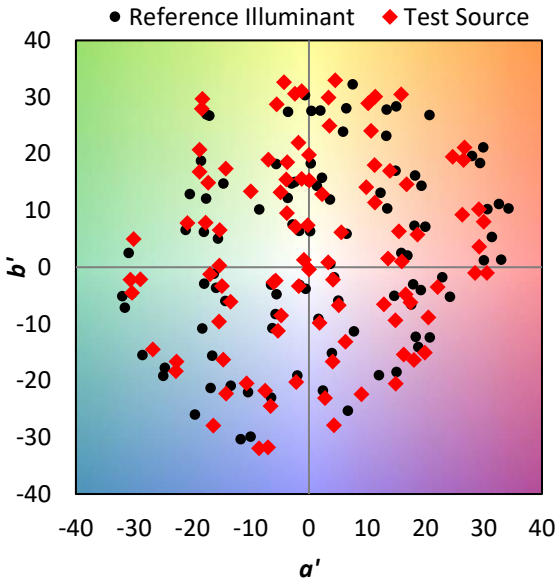
Summary

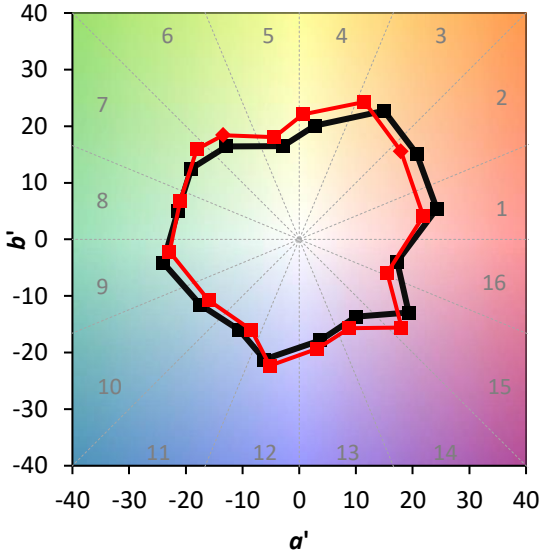
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

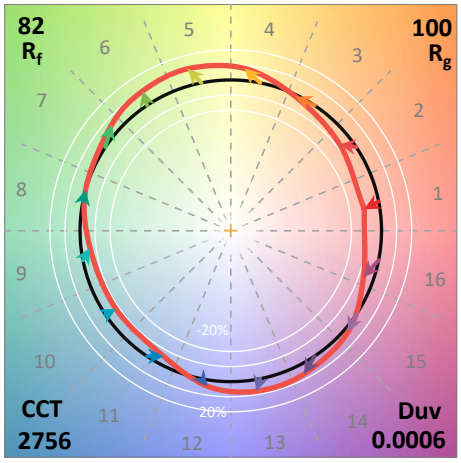
Spectral Power Distribution Comparison

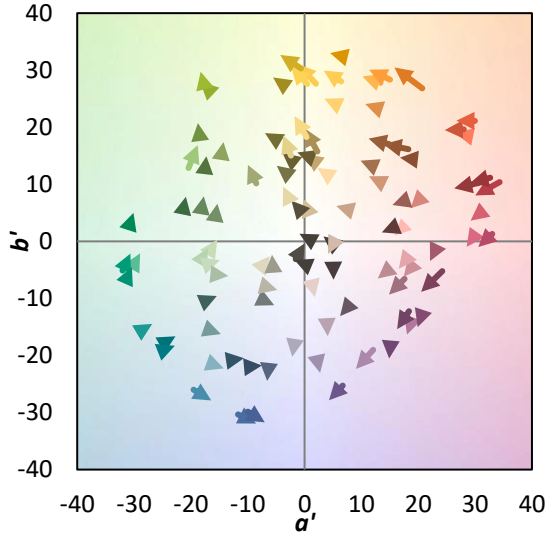


Color Vector Graphics







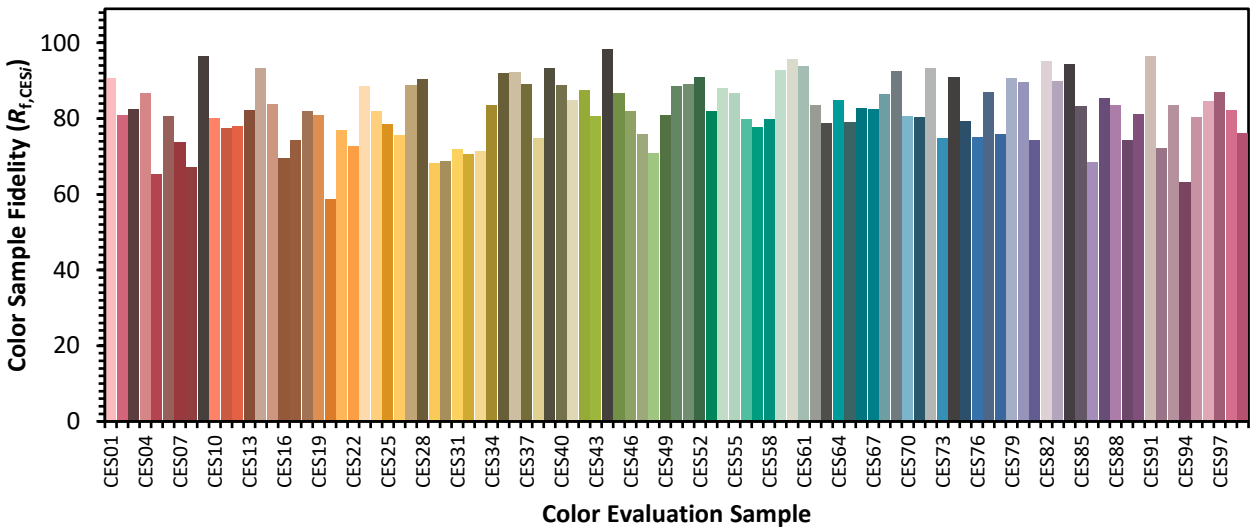


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Individual Sample Fidelity Index ($R_{f,i}$)

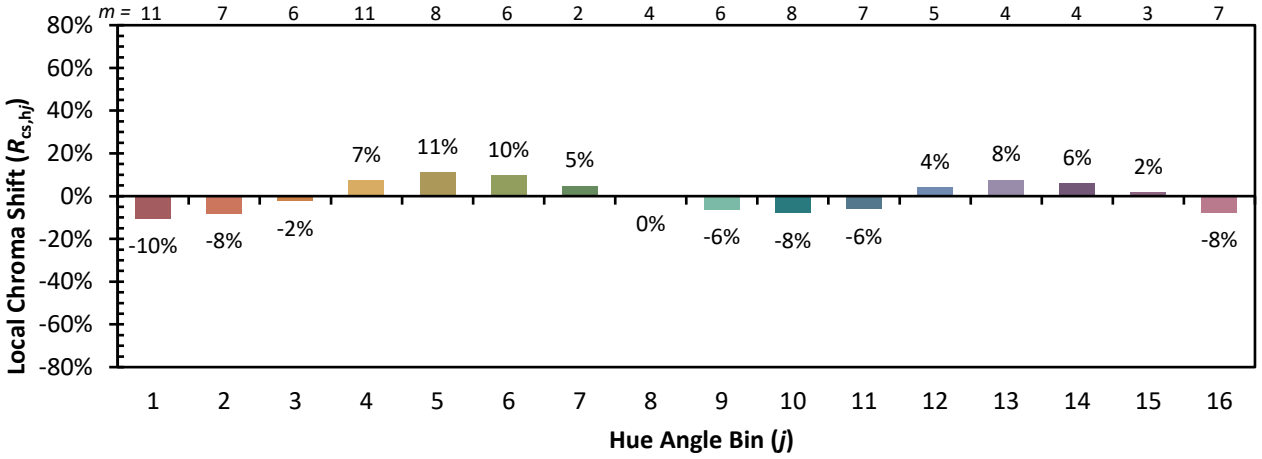
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
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CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

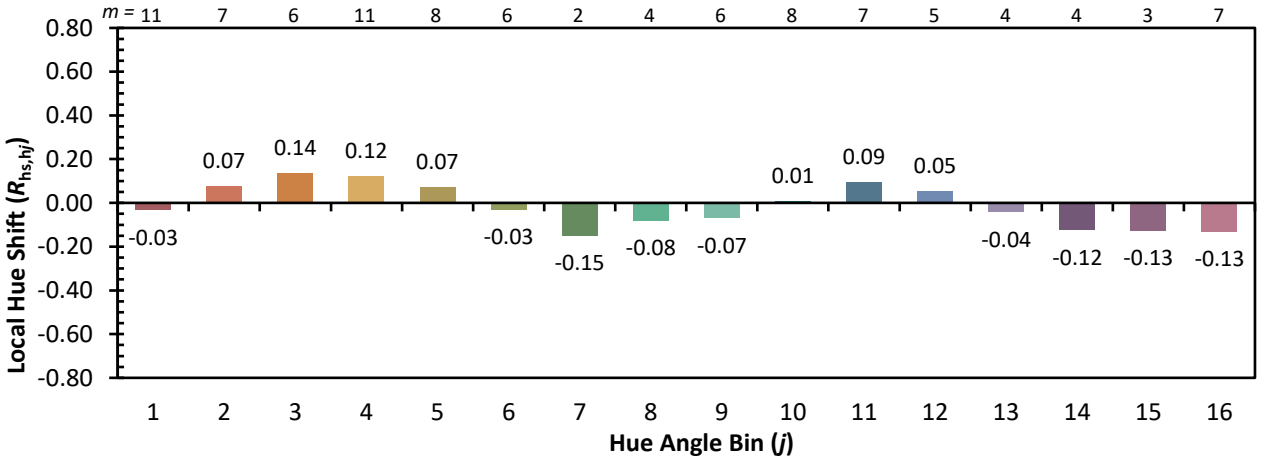


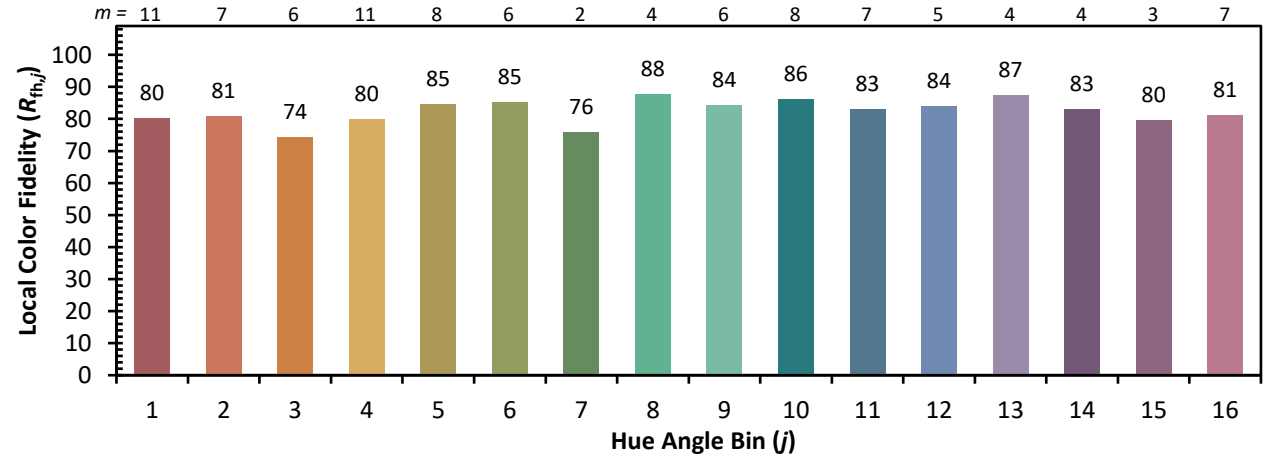
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Color Rendition by Hue-Angle Bin



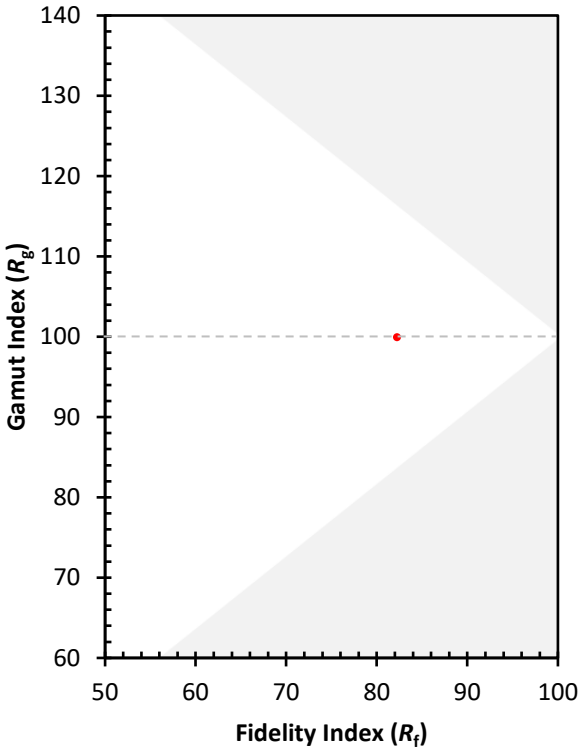


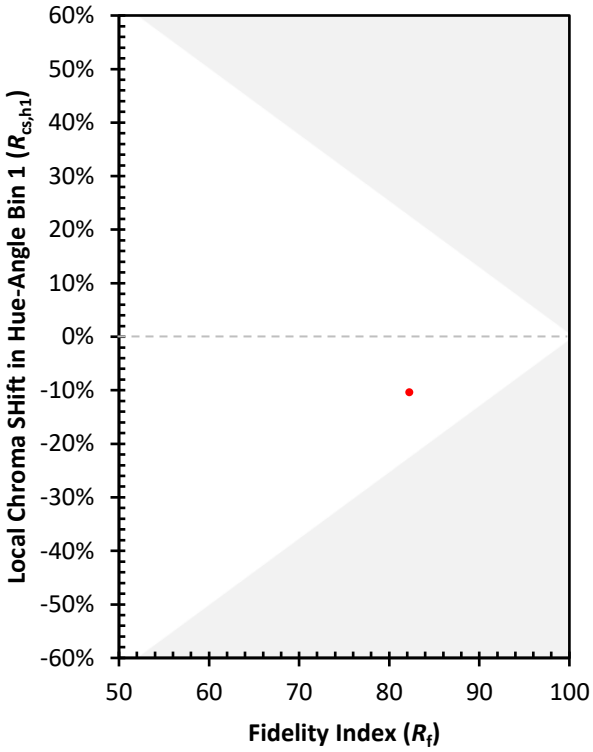


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Measure Comparisons





(END OF REPORT)