

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049553

Luminaire Tested: **GALN-SA6A-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049553
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17666.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

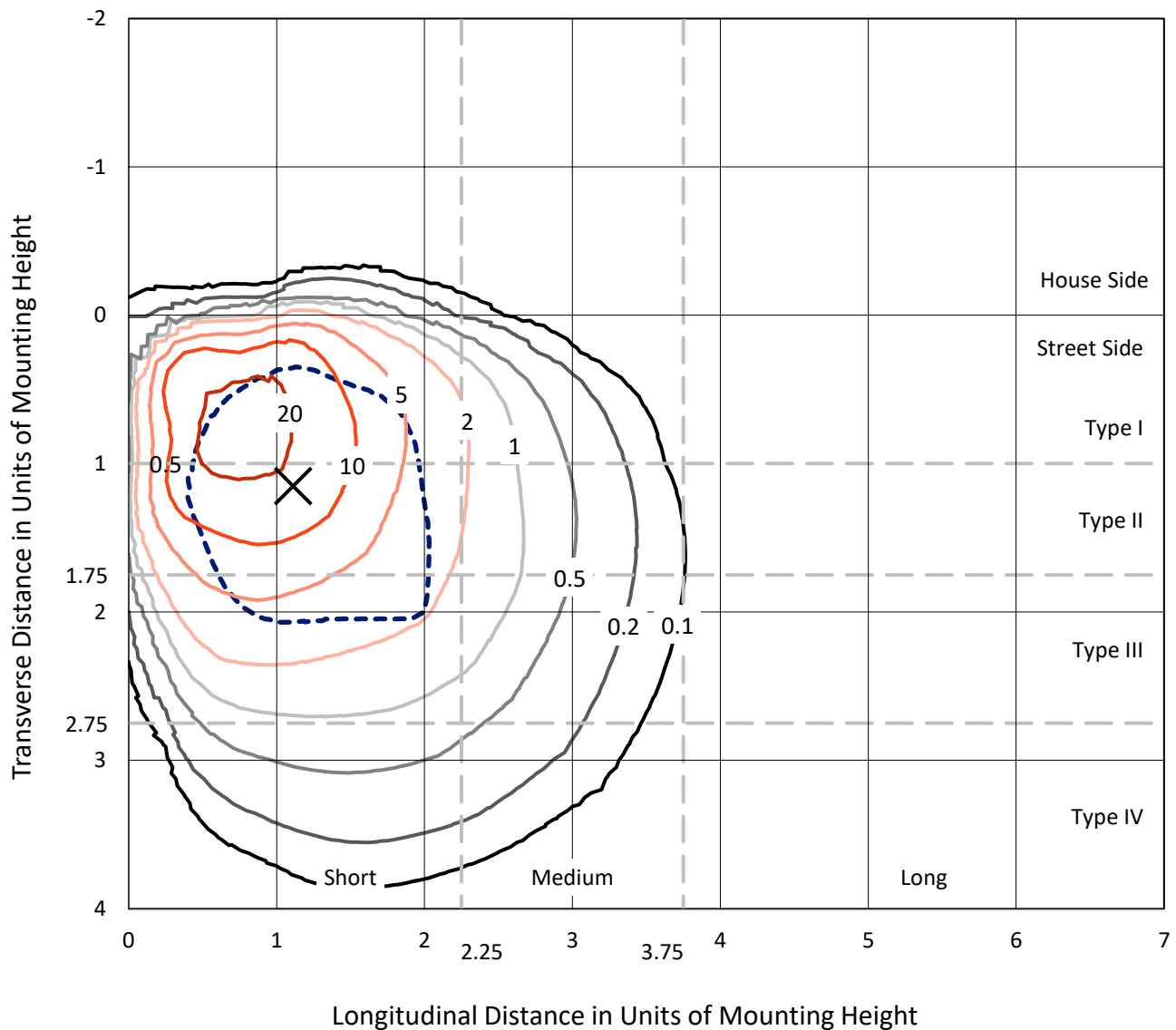
REPORT NUMBER: P1049553

CATALOG NUMBER: GALN-SA6A-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

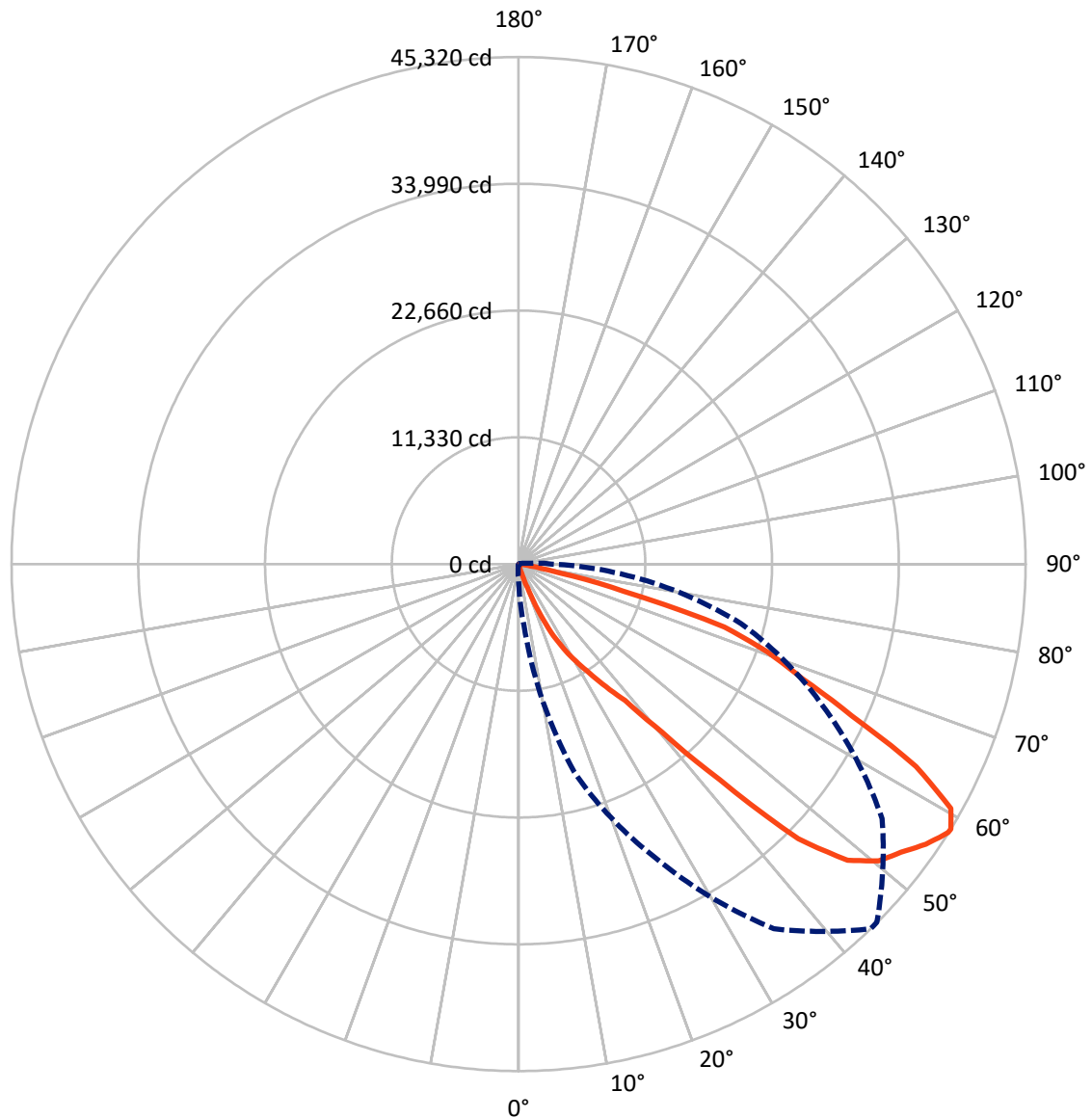


Based on 20 foot mounting height. Maximum calculated value = 30.8 fc

Type III - Short - N/A

REPORT NUMBER: P1049553
CATALOG NUMBER: GALN-SA6A-727-U-LBC

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P1049553

CATALOG NUMBER: GALN-SA6A-727-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	120.6	0.0	120.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17545.5	0.0	17545.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	17666.1	0.0	17666.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.0
10°-20°	38.7	0.2
20°-30°	418.5	2.4
30°-40°	1237.7	7.0
40°-50°	3689.0	20.9
50°-60°	5853.5	33.1
60°-70°	4882.5	27.6
70°-80°	1505.8	8.5
80°-90°	33.4	0.2
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°	17666.1	100.0
0°-180°	17666.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1049553

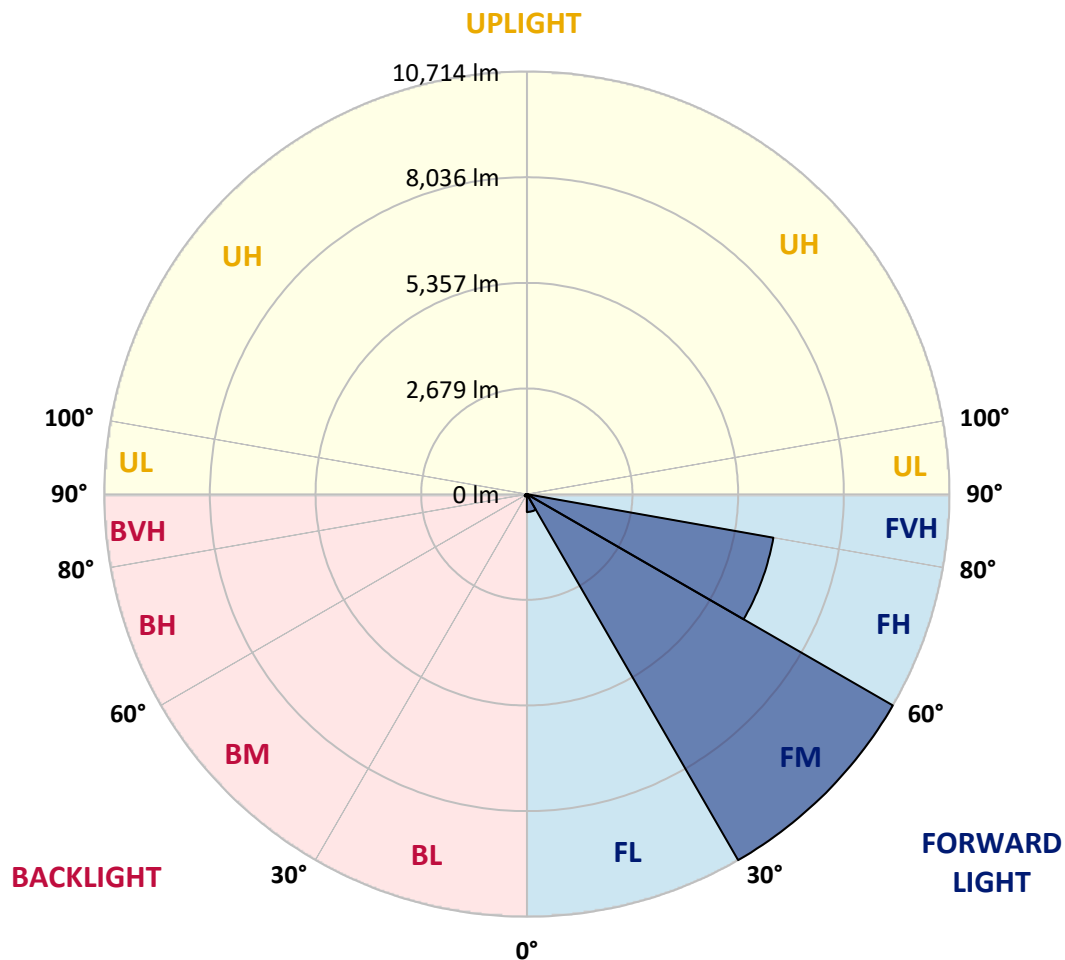
CATALOG NUMBER: GALN-SA6A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.4	2.6			
FM	(30°-60°)	10714.1	60.6			
FH	(60°-80°)	6347.2	35.9			G3/7500
FVH	(80°-90°)	31.8	0.2			G1/100
BL	(0°-30°)	11.8	0.1	B0/110		
BM	(30°-60°)	66.0	0.4	B0/220		
BH	(60°-80°)	41.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





REPORT NUMBER: P1049553

CATALOG NUMBER: GALN-SA6A-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	100.1	100.1	96.1	90.7	85.4	80.1	78.7	76.1	74.7	73.4	72.1
5°	104.1	104.1	102.8	98.8	93.4	89.4	89.4	85.4	82.7	80.1	77.4
7.5°	106.8	108.1	110.8	109.4	106.8	102.8	102.8	100.1	96.1	89.4	85.4
10°	110.8	114.8	120.1	122.8	124.1	124.1	122.8	121.4	114.8	105.4	94.8
12.5°	114.8	122.8	136.1	149.5	157.5	168.1	166.8	164.1	146.8	126.8	108.1
15°	122.8	134.8	162.8	201.5	261.6	298.9	313.6	300.3	242.9	170.8	125.4
17.5°	132.1	152.1	236.2	421.7	691.3	819.4	896.8	834.1	552.5	324.3	157.5
20°	141.5	185.5	439.1	1093.0	1793.6	2212.6	2328.7	2147.2	1378.6	617.9	233.5
22.5°	157.5	260.2	890.1	2259.3	3864.8	4493.3	4612.1	4031.6	2603.7	1219.8	351.0
25°	190.8	377.7	1534.7	3681.9	5767.8	6828.8	6779.4	6018.7	4223.8	1948.4	533.8
27.5°	238.9	549.8	2320.7	5231.3	7590.8	8526.3	8638.4	7697.5	5630.4	2865.2	758.0
30°	308.3	762.0	3164.2	6472.4	9052.1	10063.6	10082.3	9109.5	6888.8	3669.9	1032.9
32.5°	375.0	962.2	3902.1	7672.2	10492.0	11601.0	11683.8	10486.7	7828.3	4508.0	1271.8
35°	425.7	1093.0	4649.5	8726.4	11944.0	13472.0	13466.7	12045.4	8941.3	5256.7	1602.8
37.5°	429.7	1223.8	5326.1	9804.7	13783.0	15493.8	15663.3	14096.6	10286.5	6182.8	2008.5
40°	420.4	1370.6	6182.8	11486.2	17096.6	19721.6	19871.0	17896.0	12984.9	7768.3	2642.4
42.5°	431.1	1625.4	7573.4	14591.7	22598.8	26368.8	26657.1	24580.6	17945.3	11003.1	3772.7
45°	487.1	2104.5	10486.7	19787.0	30441.8	35037.9	34941.8	31951.2	23717.1	15927.5	6009.4
47.5°	672.6	3277.6	14805.2	24843.5	35454.3	39547.3	39630.0	35974.7	27085.5	19713.6	9021.4
50°	1034.3	5015.1	18433.8	27516.5	37609.5	41715.9	41638.5	37414.7	28365.3	21577.9	10867.0
52.5°	1345.2	6272.3	20254.1	28454.7	37885.8	42787.5	42782.1	37793.7	28564.1	21738.0	11097.9
55°	1422.6	6367.0	20268.7	28505.4	38505.0	44190.1	44366.2	38726.5	28821.7	21038.8	10229.1
57.5°	1391.9	5637.0	19422.7	28799.0	39607.3	45275.0	45284.4	39630.0	29475.6	20610.4	8790.5
58°	1365.2	5522.3	19251.8	28965.8	39796.8	45320.4	45297.7	39671.4	30008.1	20594.4	8565.0
60°	1215.8	4794.9	18585.9	29391.5	39515.2	44388.9	44176.7	38767.9	29929.4	20430.2	7429.3
62.5°	955.5	3740.7	17930.7	28899.1	36496.5	39879.6	39967.6	34322.6	27284.3	19473.4	6090.8
65°	760.7	2787.8	16564.1	25349.3	30053.5	32749.2	33077.5	27910.2	22773.6	16489.4	4490.7
67.5°	605.9	2015.1	13895.1	20182.0	23781.2	27332.4	27571.2	23432.9	17643.7	12633.9	3190.8
70°	492.4	1362.5	9591.2	14759.8	19614.8	23607.7	23622.4	19466.7	13169.1	8278.0	2001.8
72.5°	436.4	943.5	5567.6	10764.3	15904.8	19237.2	18848.8	15796.8	10121.0	4903.0	1193.1
75°	377.7	625.9	2730.4	6580.5	9643.3	9708.7	9856.8	7327.9	5059.2	2331.4	715.3
77.5°	310.9	444.4	1075.6	1797.6	2891.9	3702.0	3839.4	2909.3	1682.8	573.8	381.7
80°	213.5	210.9	289.6	551.2	827.4	1036.9	967.5	748.7	440.4	220.2	136.1
82.5°	92.1	100.1	130.8	157.5	128.1	124.1	118.8	76.1	58.7	45.4	28.0
85°	29.4	26.7	28.0	28.0	22.7	17.3	17.3	8.0	0.0	0.0	0.0
87.5°	14.7	12.0	12.0	10.7	6.7	2.7	1.3	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



REPORT NUMBER: P1049553

CATALOG NUMBER: GALN-SA6A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	70.7	70.7	68.1	65.4	64.1	61.4	60.1	58.7	57.4	56.0	54.7
5°	74.7	73.4	69.4	65.4	61.4	57.4	54.7	52.0	49.4	48.0	46.7
7.5°	81.4	78.7	70.7	64.1	58.7	53.4	50.7	46.7	44.0	40.0	38.7
10°	89.4	84.1	73.4	65.4	57.4	50.7	46.7	42.7	38.7	33.4	32.0
12.5°	100.1	90.7	77.4	64.1	54.7	46.7	42.7	37.4	33.4	29.4	26.7
15°	109.4	97.4	78.7	64.1	52.0	42.7	37.4	32.0	28.0	22.7	20.0
17.5°	122.8	102.8	77.4	60.1	48.0	37.4	32.0	28.0	21.4	13.3	10.7
20°	145.5	106.8	74.7	56.0	41.4	30.7	24.0	18.7	9.3	2.7	0.0
22.5°	181.5	117.4	72.1	50.7	36.0	24.0	16.0	6.7	0.0	0.0	0.0
25°	250.9	136.1	72.1	48.0	32.0	17.3	5.3	0.0	0.0	0.0	0.0
27.5°	333.6	161.5	72.1	41.4	25.4	9.3	0.0	0.0	0.0	0.0	0.0
30°	417.7	189.5	72.1	36.0	20.0	1.3	0.0	0.0	0.0	0.0	0.0
32.5°	497.8	213.5	73.4	30.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	579.2	217.5	72.1	26.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	683.3	209.5	68.1	24.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	840.7	213.5	64.1	22.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1131.7	230.9	58.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1956.4	309.6	53.4	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3236.2	556.5	52.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4130.3	700.6	54.7	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4123.7	780.7	57.4	26.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	3665.9	795.4	61.4	29.4	17.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3064.1	726.0	70.7	36.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	2957.3	694.0	73.4	37.4	34.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	2423.5	565.8	93.4	46.7	46.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1673.5	493.8	106.8	60.1	48.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1183.7	445.7	116.1	64.1	38.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	884.8	411.0	128.1	65.4	20.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	677.9	385.7	157.5	69.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	552.5	356.3	190.8	72.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	457.7	321.6	184.2	78.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	304.3	249.6	168.1	78.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	106.8	98.8	130.8	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	13.3	18.7	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

REPORT NUMBER: P1049553

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	54.7	54.7	53.4	54.7	54.7	57.4	64.1	73.4	84.1	88.1	92.1
5°	45.4	44.0	42.7	42.7	42.7	46.7	52.0	62.7	74.7	80.1	82.7
7.5°	37.4	36.0	34.7	33.4	33.4	36.0	42.7	54.7	66.7	72.1	76.1
10°	30.7	28.0	26.7	25.4	25.4	28.0	34.7	46.7	60.1	65.4	70.7
12.5°	25.4	21.4	18.7	17.3	16.0	20.0	26.7	37.4	52.0	58.7	64.1
15°	17.3	13.3	9.3	8.0	6.7	10.7	17.3	29.4	44.0	52.0	57.4
17.5°	9.3	4.0	1.3	0.0	0.0	2.7	8.0	21.4	36.0	42.7	49.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	26.7	33.4	40.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.0	22.7	29.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	12.0	17.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.7	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049553

CATALOG NUMBER: GALN-SA6A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	94.8	93.4	90.7	88.1	88.1	88.1	92.1	96.1	100.1	100.1
5°	88.1	88.1	86.7	84.1	84.1	85.4	90.7	97.4	102.8	104.1
7.5°	81.4	84.1	81.4	80.1	81.4	82.7	88.1	96.1	104.1	106.8
10°	77.4	78.7	78.7	77.4	77.4	80.1	85.4	96.1	106.8	110.8
12.5°	72.1	74.7	73.4	73.4	73.4	76.1	82.7	94.8	109.4	114.8
15°	66.7	70.7	70.7	69.4	69.4	70.7	80.1	93.4	113.4	122.8
17.5°	61.4	65.4	66.7	64.1	64.1	66.7	76.1	93.4	116.1	132.1
20°	50.7	57.4	61.4	57.4	57.4	60.1	69.4	88.1	117.4	141.5
22.5°	40.0	46.7	52.0	50.7	50.7	52.0	64.1	84.1	118.8	157.5
25°	29.4	36.0	40.0	42.7	42.7	46.7	58.7	81.4	124.1	190.8
27.5°	17.3	25.4	30.7	33.4	34.7	40.0	54.7	78.7	133.5	238.9
30°	8.0	14.7	21.4	26.7	26.7	36.0	50.7	76.1	145.5	308.3
32.5°	0.0	6.7	10.7	18.7	20.0	29.4	46.7	73.4	162.8	375.0
35°	0.0	0.0	5.3	14.7	14.7	24.0	42.7	70.7	189.5	425.7
37.5°	0.0	0.0	0.0	10.7	12.0	21.4	41.4	69.4	194.8	429.7
40°	0.0	0.0	0.0	8.0	9.3	20.0	41.4	70.7	176.2	420.4
42.5°	0.0	0.0	0.0	5.3	6.7	20.0	41.4	73.4	158.8	431.1
45°	0.0	0.0	0.0	4.0	5.3	21.4	40.0	72.1	149.5	487.1
47.5°	0.0	0.0	0.0	5.3	8.0	21.4	38.7	70.7	150.8	672.6
50°	0.0	0.0	0.0	6.7	9.3	21.4	40.0	68.1	165.5	1034.3
52.5°	0.0	0.0	0.0	5.3	8.0	24.0	44.0	66.7	180.2	1345.2
55°	0.0	0.0	0.0	1.3	4.0	30.7	48.0	66.7	202.8	1422.6
57.5°	0.0	0.0	0.0	0.0	0.0	34.7	54.7	70.7	240.2	1391.9
58°	0.0	0.0	0.0	0.0	0.0	34.7	56.0	70.7	242.9	1365.2
60°	0.0	0.0	0.0	0.0	0.0	34.7	61.4	78.7	261.6	1215.8
62.5°	0.0	0.0	0.0	0.0	0.0	29.4	73.4	98.8	272.2	955.5
65°	0.0	0.0	0.0	0.0	0.0	24.0	86.7	108.1	280.2	760.7
67.5°	0.0	0.0	0.0	0.0	0.0	22.7	89.4	109.4	284.3	605.9
70°	0.0	0.0	0.0	0.0	0.0	24.0	88.1	117.4	297.6	492.4
72.5°	0.0	0.0	0.0	0.0	0.0	26.7	80.1	129.4	297.6	436.4
75°	0.0	0.0	0.0	0.0	0.0	28.0	74.7	145.5	270.9	377.7
77.5°	0.0	0.0	0.0	0.0	0.0	26.7	73.4	169.5	241.5	310.9
80°	2.7	4.0	4.0	2.7	2.7	22.7	72.1	172.2	205.5	213.5
82.5°	8.0	10.7	9.3	6.7	6.7	20.0	64.1	144.1	106.8	92.1
85°	14.7	17.3	17.3	14.7	14.7	18.7	40.0	52.0	36.0	29.4
87.5°	20.0	22.7	22.7	20.0	20.0	18.7	17.3	16.0	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



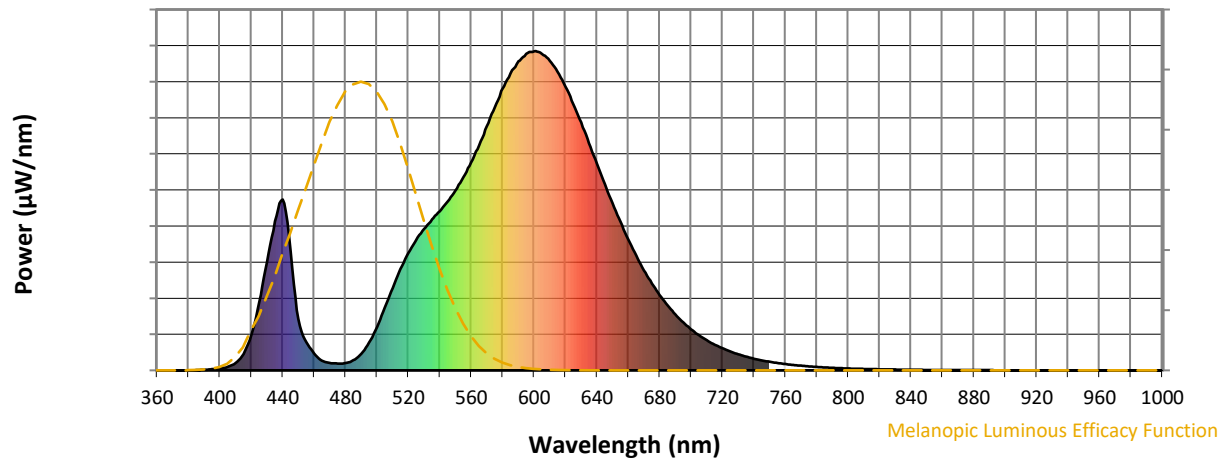
Scotopic Lumens: NR

S/P: 1.02

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

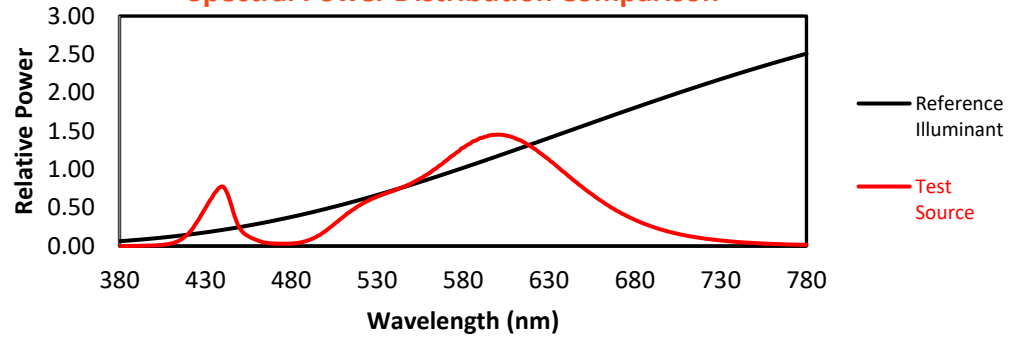
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

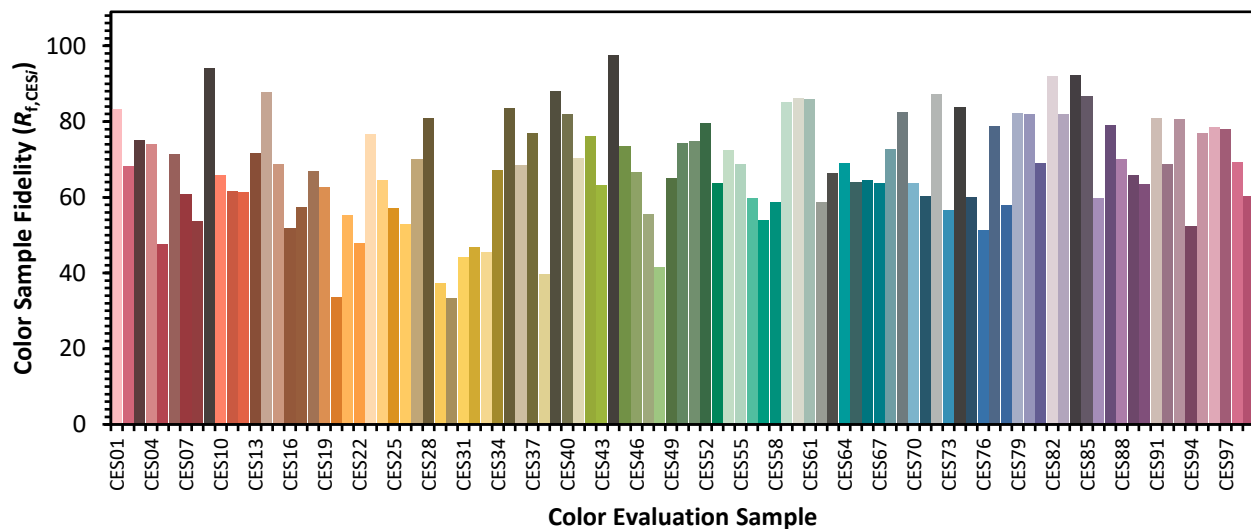


Color Vector Graphics

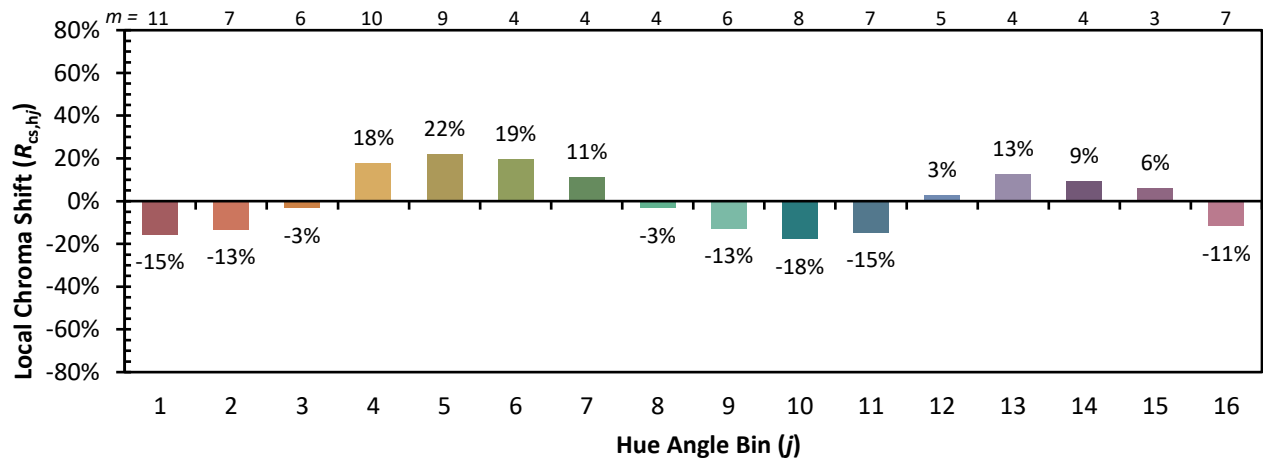


Individual Sample Fidelity Index (R_{fi})

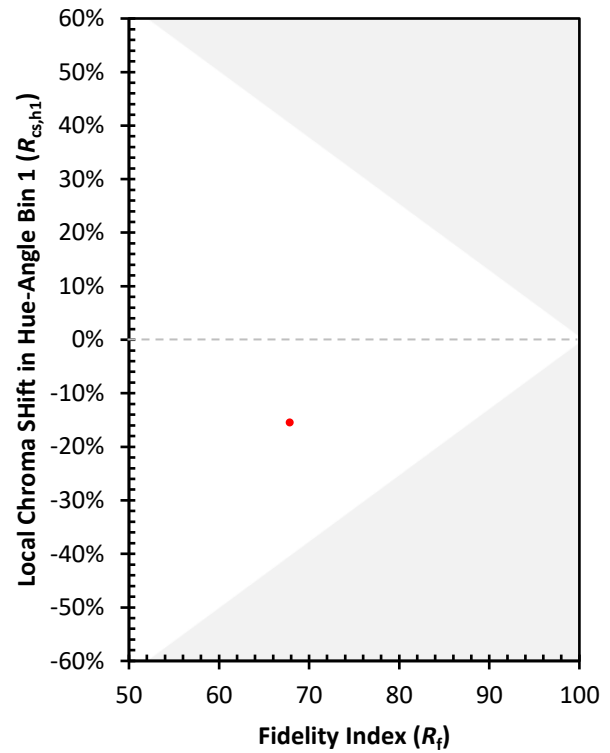
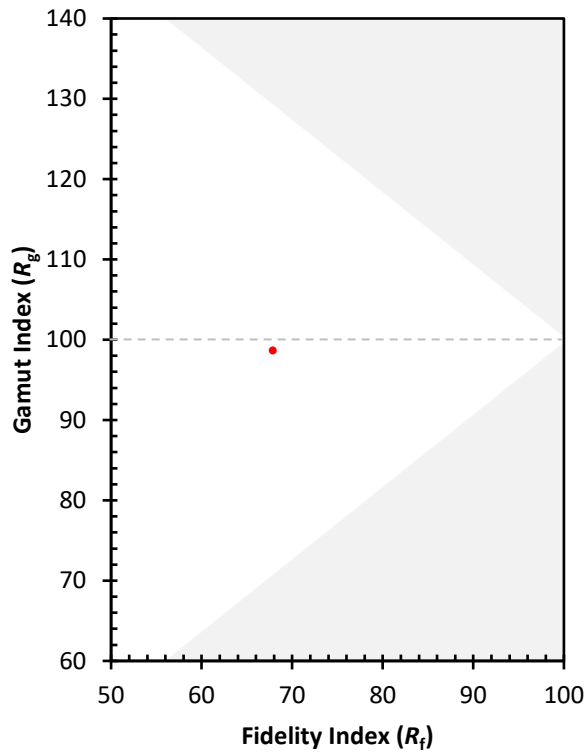
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)