

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: P1049535

Luminaire Tested: **GALN-SA1C-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049535
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

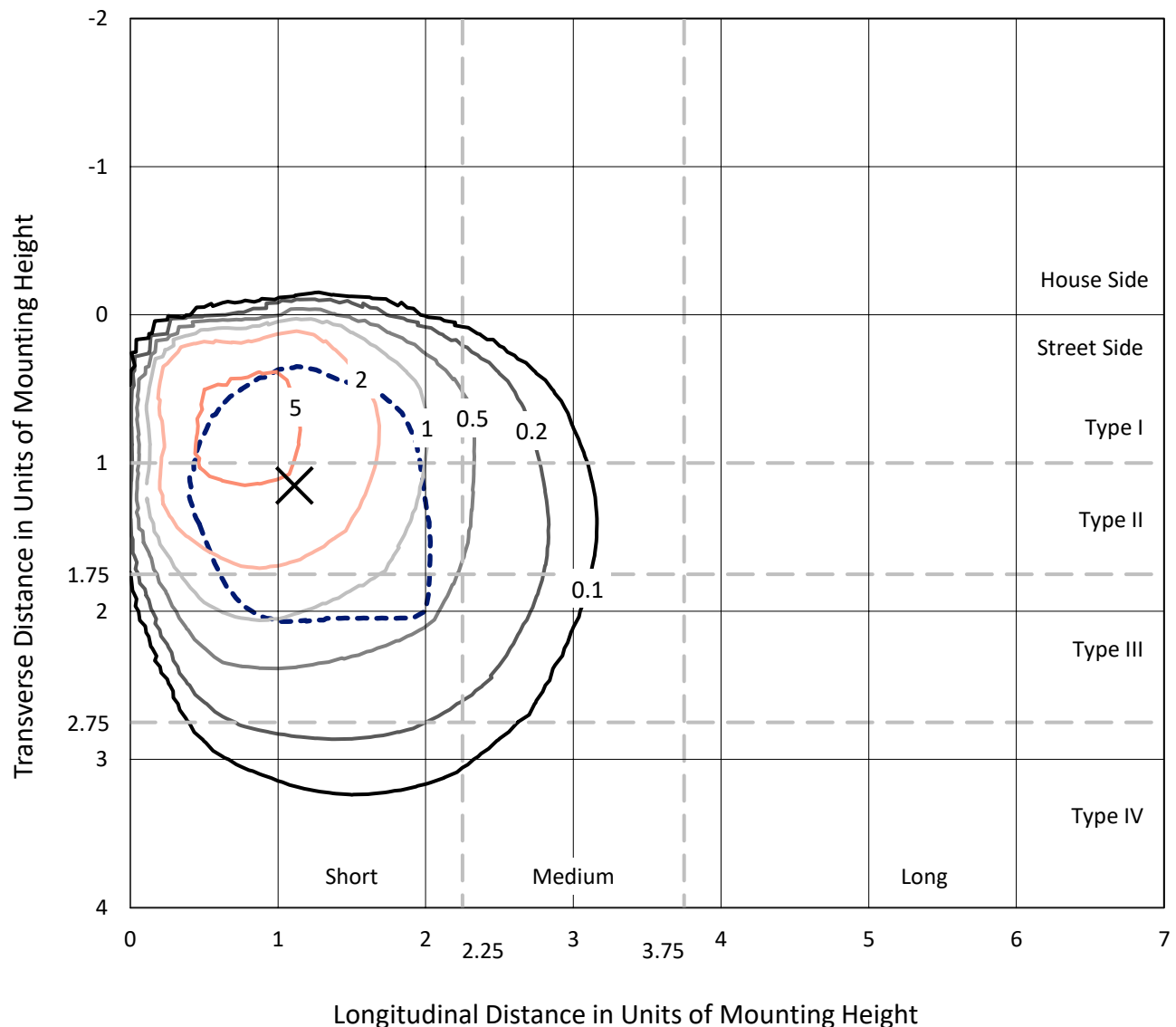
Lumens per Lamp: N/A
Luminaire Lumens: 4716.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
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

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Iso-Footcandle Lines of Horizontal Illumination

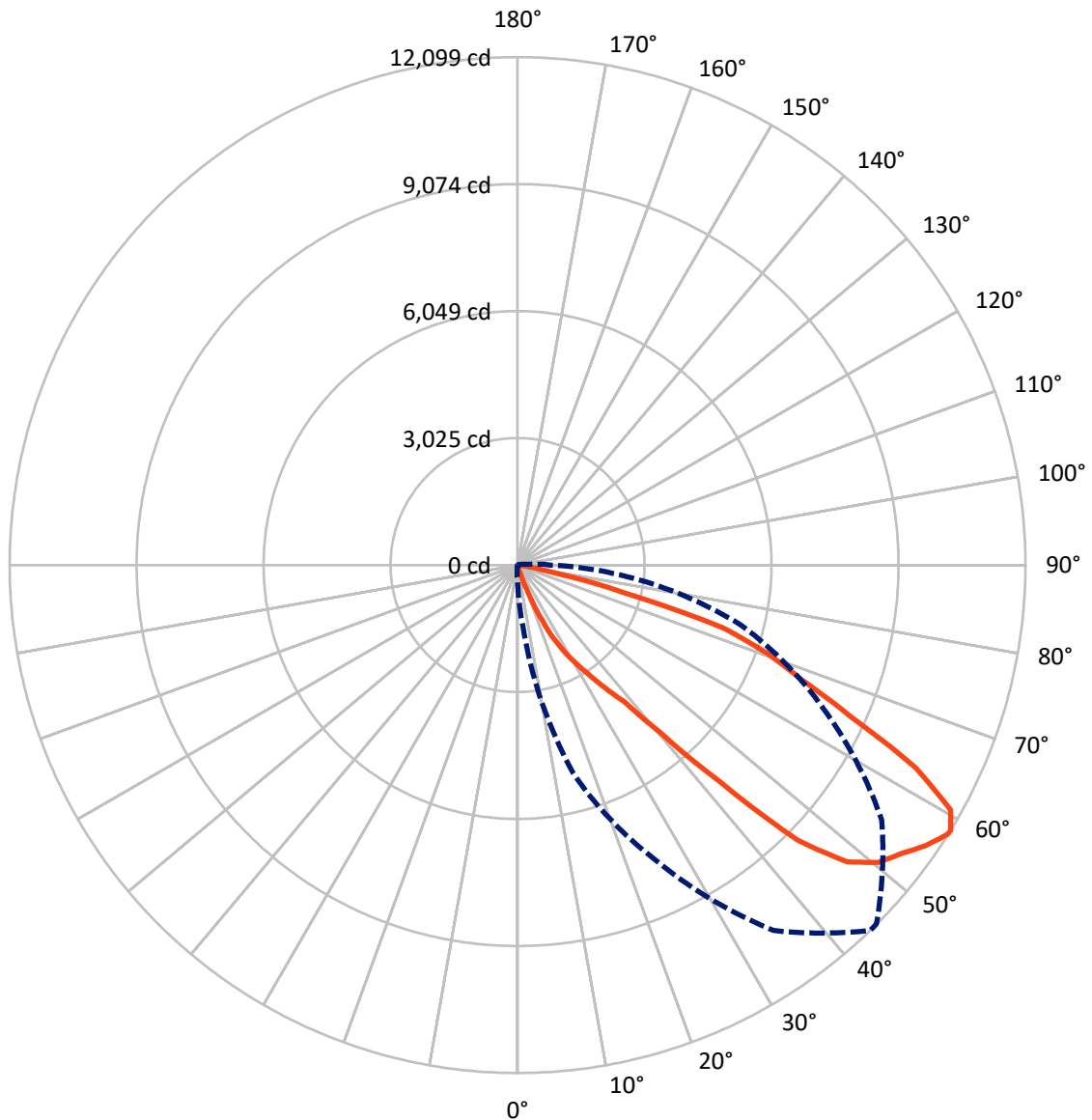
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.2	0.0	32.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4684.0	0.0	4684.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	4716.2	0.0	4716.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	10.3	0.2
20°-30°	111.7	2.4
30°-40°	330.4	7.0
40°-50°	984.8	20.9
50°-60°	1562.7	33.1
60°-70°	1303.4	27.6
70°-80°	402.0	8.5
80°-90°	8.9	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°	4716.2	100.0
0°-180°	4716.2	100.0



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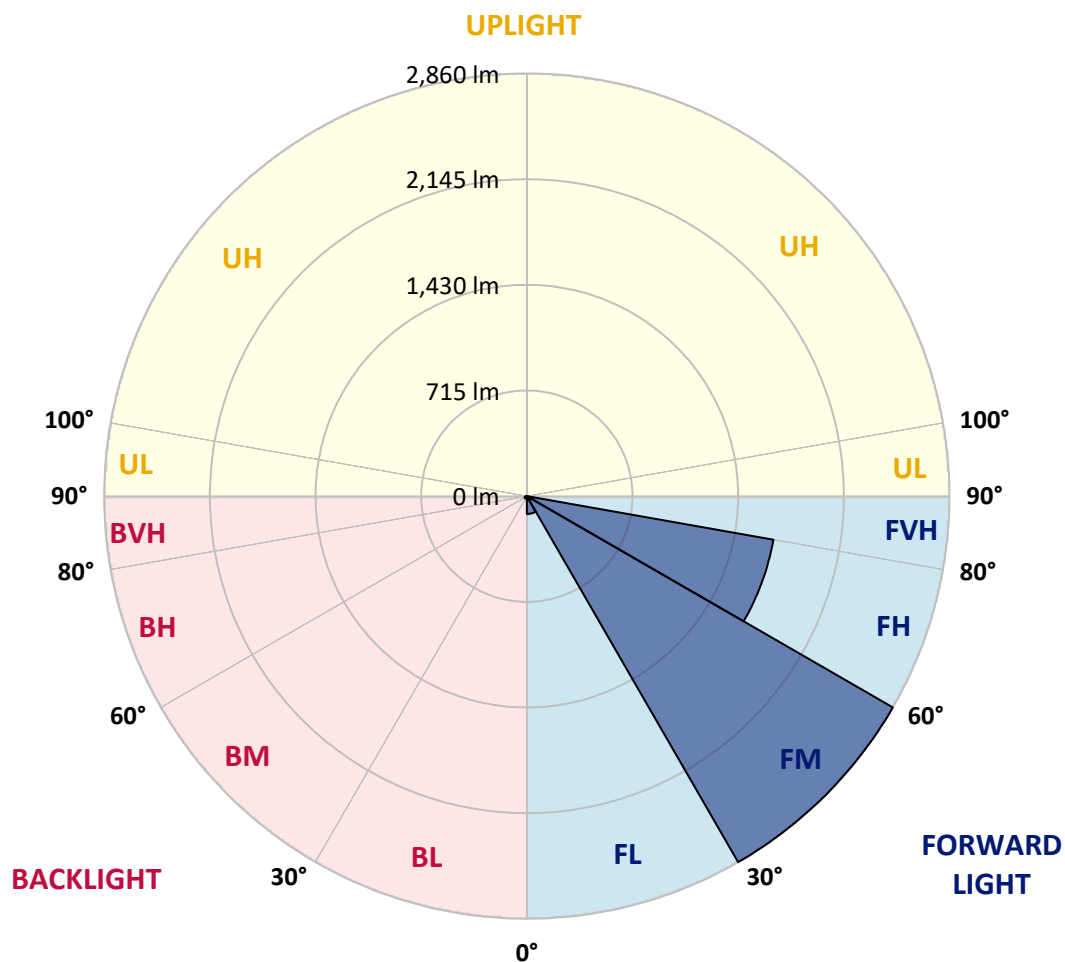
CATALOG NUMBER: GALN-SA1C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	120.8	2.6			
FM	(30°-60°)	2860.3	60.6			
FH	(60°-80°)	1694.5	35.9			G1/1800
FVH	(80°-90°)	8.5	0.2			G0/10
BL	(0°-30°)	3.2	0.1	B0/110		
BM	(30°-60°)	17.6	0.4	B0/220		
BH	(60°-80°)	11.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	26.7	26.7	25.7	24.2	22.8	21.4	21.0	20.3	20.0	19.6	19.2
5°	27.8	27.8	27.4	26.4	24.9	23.9	23.9	22.8	22.1	21.4	20.7
7.5°	28.5	28.9	29.6	29.2	28.5	27.4	27.4	26.7	25.7	23.9	22.8
10°	29.6	30.6	32.1	32.8	33.1	33.1	32.8	32.4	30.6	28.1	25.3
12.5°	30.6	32.8	36.3	39.9	42.0	44.9	44.5	43.8	39.2	33.8	28.9
15°	32.8	36.0	43.5	53.8	69.8	79.8	83.7	80.2	64.8	45.6	33.5
17.5°	35.3	40.6	63.1	112.6	184.5	218.7	239.4	222.7	147.5	86.6	42.0
20°	37.8	49.5	117.2	291.8	478.8	590.7	621.7	573.2	368.0	165.0	62.3
22.5°	42.0	69.5	237.6	603.2	1031.7	1199.6	1231.3	1076.3	695.1	325.6	93.7
25°	50.9	100.8	409.7	982.9	1539.8	1823.0	1809.8	1606.8	1127.6	520.1	142.5
27.5°	63.8	146.8	619.5	1396.6	2026.4	2276.2	2306.1	2054.9	1503.1	764.9	202.4
30°	82.3	203.4	844.7	1727.9	2416.6	2686.6	2691.6	2431.9	1839.1	979.7	275.8
32.5°	100.1	256.9	1041.7	2048.2	2801.0	3097.0	3119.1	2799.5	2089.9	1203.5	339.5
35°	113.6	291.8	1241.2	2329.6	3188.6	3596.5	3595.1	3215.7	2387.0	1403.3	427.9
37.5°	114.7	326.7	1421.9	2617.5	3679.5	4136.3	4181.5	3763.2	2746.1	1650.6	536.2
40°	112.2	365.9	1650.6	3066.4	4564.1	5264.9	5304.8	4777.5	3466.5	2073.8	705.4
42.5°	115.1	433.9	2021.8	3895.4	6033.0	7039.5	7116.4	6562.1	4790.7	2937.4	1007.2
45°	130.0	561.8	2799.5	5282.4	8126.8	9353.8	9328.1	8529.7	6331.6	4252.0	1604.3
47.5°	179.6	875.0	3952.4	6632.3	9464.9	10557.6	10579.7	9603.9	7230.8	5262.8	2408.4
50°	276.1	1338.9	4921.1	7345.9	10040.3	11136.6	11115.9	9988.3	7572.5	5760.5	2901.1
52.5°	359.1	1674.5	5407.1	7596.3	10114.1	11422.6	11421.2	10089.5	7625.5	5803.2	2962.7
55°	379.8	1699.8	5411.0	7609.9	10279.4	11797.1	11844.1	10338.5	7694.3	5616.5	2730.8
57.5°	371.6	1504.9	5185.1	7688.2	10573.6	12086.7	12089.2	10579.7	7868.9	5502.2	2346.7
58°	364.5	1474.2	5139.5	7732.8	10624.2	12098.8	12092.8	10590.8	8011.0	5497.9	2286.5
60°	324.6	1280.1	4961.7	7846.4	10549.1	11850.2	11793.5	10349.6	7990.0	5454.1	1983.3
62.5°	255.1	998.6	4786.8	7715.0	9743.2	10646.3	10669.8	9162.8	7283.9	5198.6	1626.0
65°	203.1	744.2	4422.0	6767.3	8023.1	8742.8	8830.4	7451.0	6079.7	4402.0	1198.8
67.5°	161.7	538.0	3709.5	5387.8	6348.7	7296.7	7360.5	6255.7	4710.2	3372.8	851.8
70°	131.5	363.7	2560.5	3940.3	5236.4	6302.4	6306.3	5196.9	3515.6	2209.9	534.4
72.5°	116.5	251.9	1486.3	2873.6	4246.0	5135.6	5031.9	4217.1	2701.9	1308.9	318.5
75°	100.8	167.1	728.9	1756.8	2574.4	2591.8	2631.4	1956.3	1350.6	622.4	191.0
77.5°	83.0	118.6	287.2	479.9	772.0	988.3	1025.0	776.7	449.3	153.2	101.9
80°	57.0	56.3	77.3	147.1	220.9	276.8	258.3	199.9	117.6	58.8	36.3
82.5°	24.6	26.7	34.9	42.0	34.2	33.1	31.7	20.3	15.7	12.1	7.5
85°	7.8	7.1	7.5	7.5	6.1	4.6	4.6	2.1	0.0	0.0	0.0
87.5°	3.9	3.2	3.2	2.9	1.8	0.7	0.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	18.9	18.9	18.2	17.5	17.1	16.4	16.0	15.7	15.3	15.0	14.6
5°	20.0	19.6	18.5	17.5	16.4	15.3	14.6	13.9	13.2	12.8	12.5
7.5°	21.7	21.0	18.9	17.1	15.7	14.3	13.5	12.5	11.8	10.7	10.3
10°	23.9	22.4	19.6	17.5	15.3	13.5	12.5	11.4	10.3	8.9	8.6
12.5°	26.7	24.2	20.7	17.1	14.6	12.5	11.4	10.0	8.9	7.8	7.1
15°	29.2	26.0	21.0	17.1	13.9	11.4	10.0	8.6	7.5	6.1	5.3
17.5°	32.8	27.4	20.7	16.0	12.8	10.0	8.6	7.5	5.7	3.6	2.9
20°	38.8	28.5	20.0	15.0	11.0	8.2	6.4	5.0	2.5	0.7	0.0
22.5°	48.5	31.4	19.2	13.5	9.6	6.4	4.3	1.8	0.0	0.0	0.0
25°	67.0	36.3	19.2	12.8	8.6	4.6	1.4	0.0	0.0	0.0	0.0
27.5°	89.1	43.1	19.2	11.0	6.8	2.5	0.0	0.0	0.0	0.0	0.0
30°	111.5	50.6	19.2	9.6	5.3	0.4	0.0	0.0	0.0	0.0	0.0
32.5°	132.9	57.0	19.6	8.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	154.6	58.1	19.2	7.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	182.4	55.9	18.2	6.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	224.4	57.0	17.1	6.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	302.1	61.6	15.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	522.3	82.7	14.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	863.9	148.6	13.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1102.6	187.0	14.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1100.9	208.4	15.3	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	978.7	212.3	16.4	7.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	818.0	193.8	18.9	9.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0
58°	789.5	185.3	19.6	10.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	647.0	151.1	24.9	12.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	446.8	131.8	28.5	16.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	316.0	119.0	31.0	17.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	236.2	109.7	34.2	17.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	181.0	103.0	42.0	18.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	147.5	95.1	50.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	122.2	85.9	49.2	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	81.2	66.6	44.9	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.5	26.4	34.9	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	3.6	5.0	6.4	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	14.6	14.6	14.3	14.6	14.6	15.3	17.1	19.6	22.4	23.5	24.6
5°	12.1	11.8	11.4	11.4	11.4	12.5	13.9	16.7	20.0	21.4	22.1
7.5°	10.0	9.6	9.3	8.9	8.9	9.6	11.4	14.6	17.8	19.2	20.3
10°	8.2	7.5	7.1	6.8	6.8	7.5	9.3	12.5	16.0	17.5	18.9
12.5°	6.8	5.7	5.0	4.6	4.3	5.3	7.1	10.0	13.9	15.7	17.1
15°	4.6	3.6	2.5	2.1	1.8	2.9	4.6	7.8	11.8	13.9	15.3
17.5°	2.5	1.1	0.4	0.0	0.0	0.7	2.1	5.7	9.6	11.4	13.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.1	8.9	10.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.3	6.1	7.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.2	4.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1
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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	3.9
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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CATALOG NUMBER: GALN-SA1C-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	25.3	24.9	24.2	23.5	23.5	23.5	24.6	25.7	26.7	26.7
5°	23.5	23.5	23.2	22.4	22.4	22.8	24.2	26.0	27.4	27.8
7.5°	21.7	22.4	21.7	21.4	21.7	22.1	23.5	25.7	27.8	28.5
10°	20.7	21.0	21.0	20.7	20.7	21.4	22.8	25.7	28.5	29.6
12.5°	19.2	20.0	19.6	19.6	19.6	20.3	22.1	25.3	29.2	30.6
15°	17.8	18.9	18.9	18.5	18.5	18.9	21.4	24.9	30.3	32.8
17.5°	16.4	17.5	17.8	17.1	17.1	17.8	20.3	24.9	31.0	35.3
20°	13.5	15.3	16.4	15.3	15.3	16.0	18.5	23.5	31.4	37.8
22.5°	10.7	12.5	13.9	13.5	13.5	13.9	17.1	22.4	31.7	42.0
25°	7.8	9.6	10.7	11.4	11.4	12.5	15.7	21.7	33.1	50.9
27.5°	4.6	6.8	8.2	8.9	9.3	10.7	14.6	21.0	35.6	63.8
30°	2.1	3.9	5.7	7.1	7.1	9.6	13.5	20.3	38.8	82.3
32.5°	0.0	1.8	2.9	5.0	5.3	7.8	12.5	19.6	43.5	100.1
35°	0.0	0.0	1.4	3.9	3.9	6.4	11.4	18.9	50.6	113.6
37.5°	0.0	0.0	0.0	2.9	3.2	5.7	11.0	18.5	52.0	114.7
40°	0.0	0.0	0.0	2.1	2.5	5.3	11.0	18.9	47.0	112.2
42.5°	0.0	0.0	0.0	1.4	1.8	5.3	11.0	19.6	42.4	115.1
45°	0.0	0.0	0.0	1.1	1.4	5.7	10.7	19.2	39.9	130.0
47.5°	0.0	0.0	0.0	1.4	2.1	5.7	10.3	18.9	40.3	179.6
50°	0.0	0.0	0.0	1.8	2.5	5.7	10.7	18.2	44.2	276.1
52.5°	0.0	0.0	0.0	1.4	2.1	6.4	11.8	17.8	48.1	359.1
55°	0.0	0.0	0.0	0.4	1.1	8.2	12.8	17.8	54.2	379.8
57.5°	0.0	0.0	0.0	0.0	0.0	9.3	14.6	18.9	64.1	371.6
58°	0.0	0.0	0.0	0.0	0.0	9.3	15.0	18.9	64.8	364.5
60°	0.0	0.0	0.0	0.0	0.0	9.3	16.4	21.0	69.8	324.6
62.5°	0.0	0.0	0.0	0.0	0.0	7.8	19.6	26.4	72.7	255.1
65°	0.0	0.0	0.0	0.0	0.0	6.4	23.2	28.9	74.8	203.1
67.5°	0.0	0.0	0.0	0.0	0.0	6.1	23.9	29.2	75.9	161.7
70°	0.0	0.0	0.0	0.0	0.0	6.4	23.5	31.4	79.4	131.5
72.5°	0.0	0.0	0.0	0.0	0.0	7.1	21.4	34.6	79.4	116.5
75°	0.0	0.0	0.0	0.0	0.0	7.5	20.0	38.8	72.3	100.8
77.5°	0.0	0.0	0.0	0.0	0.0	7.1	19.6	45.2	64.5	83.0
80°	0.7	1.1	1.1	0.7	0.7	6.1	19.2	46.0	54.9	57.0
82.5°	2.1	2.9	2.5	1.8	1.8	5.3	17.1	38.5	28.5	24.6
85°	3.9	4.6	4.6	3.9	3.9	5.0	10.7	13.9	9.6	7.8
87.5°	5.3	6.1	6.1	5.3	5.3	5.0	4.6	4.3	3.9	3.9
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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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			

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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			

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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

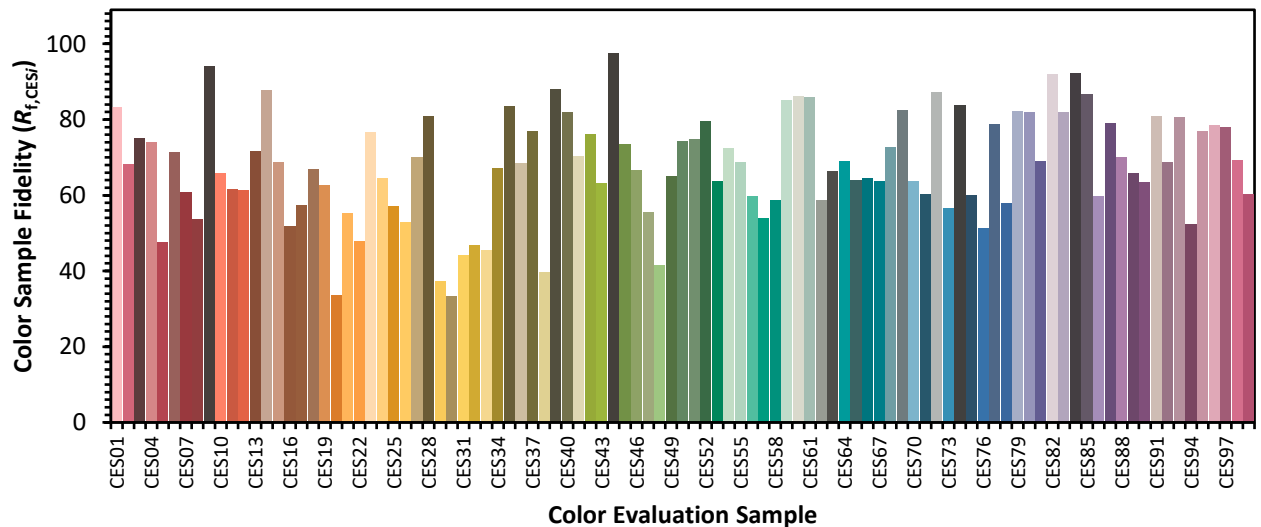


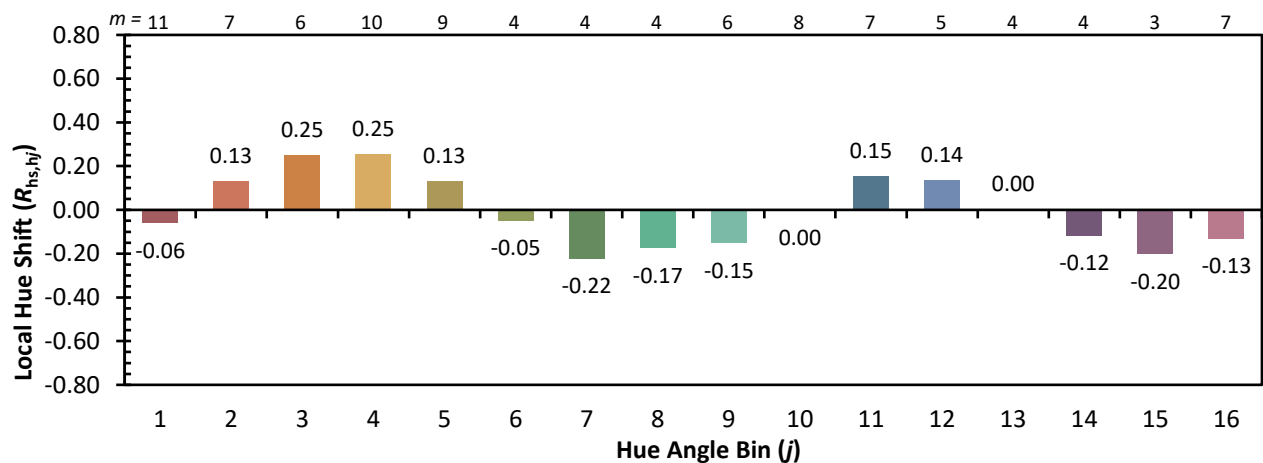
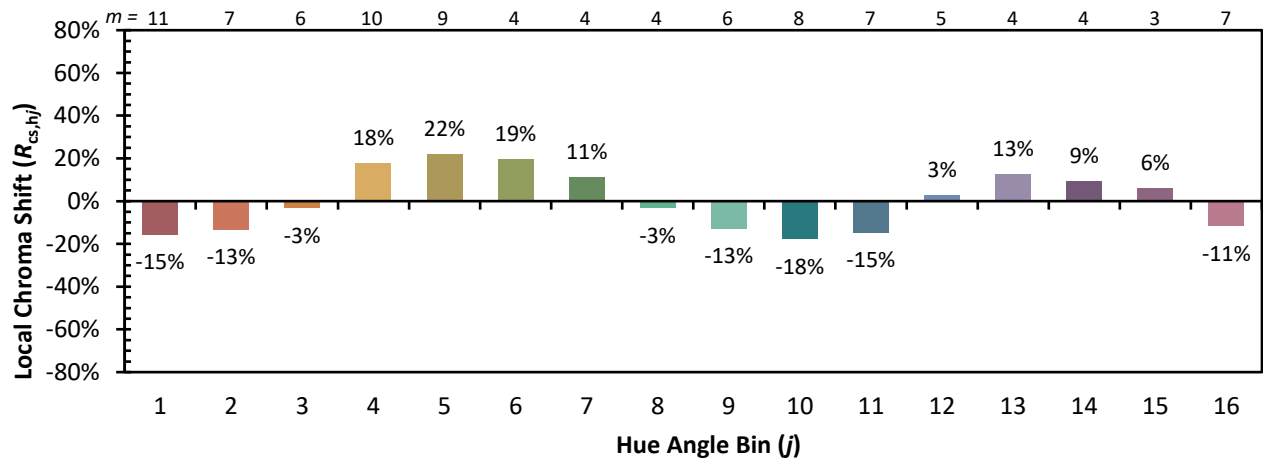
Color Vector Graphics



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

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)