

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: P1049558

Luminaire Tested: **GALN-SA7B-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049558
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25877.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

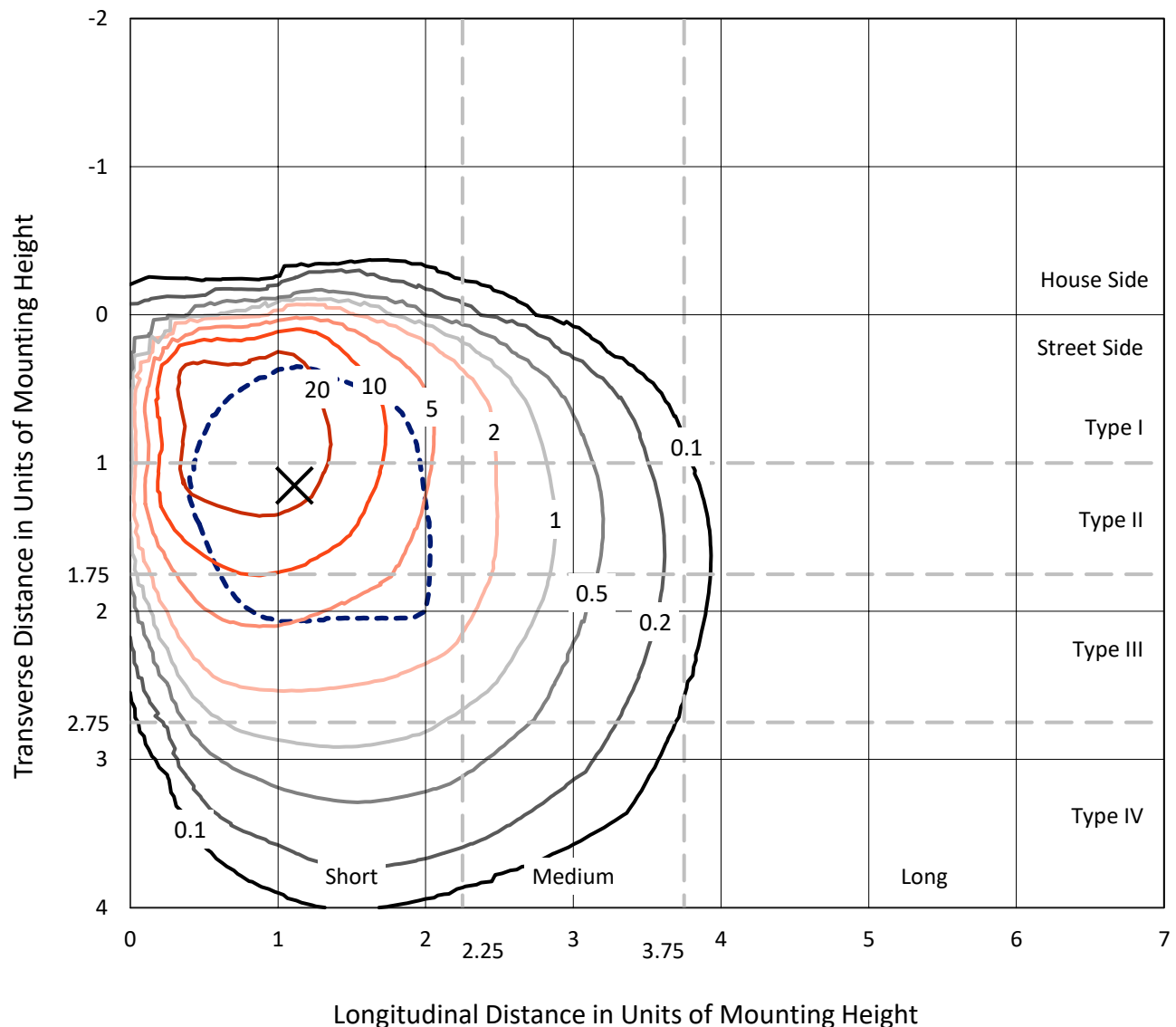
Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

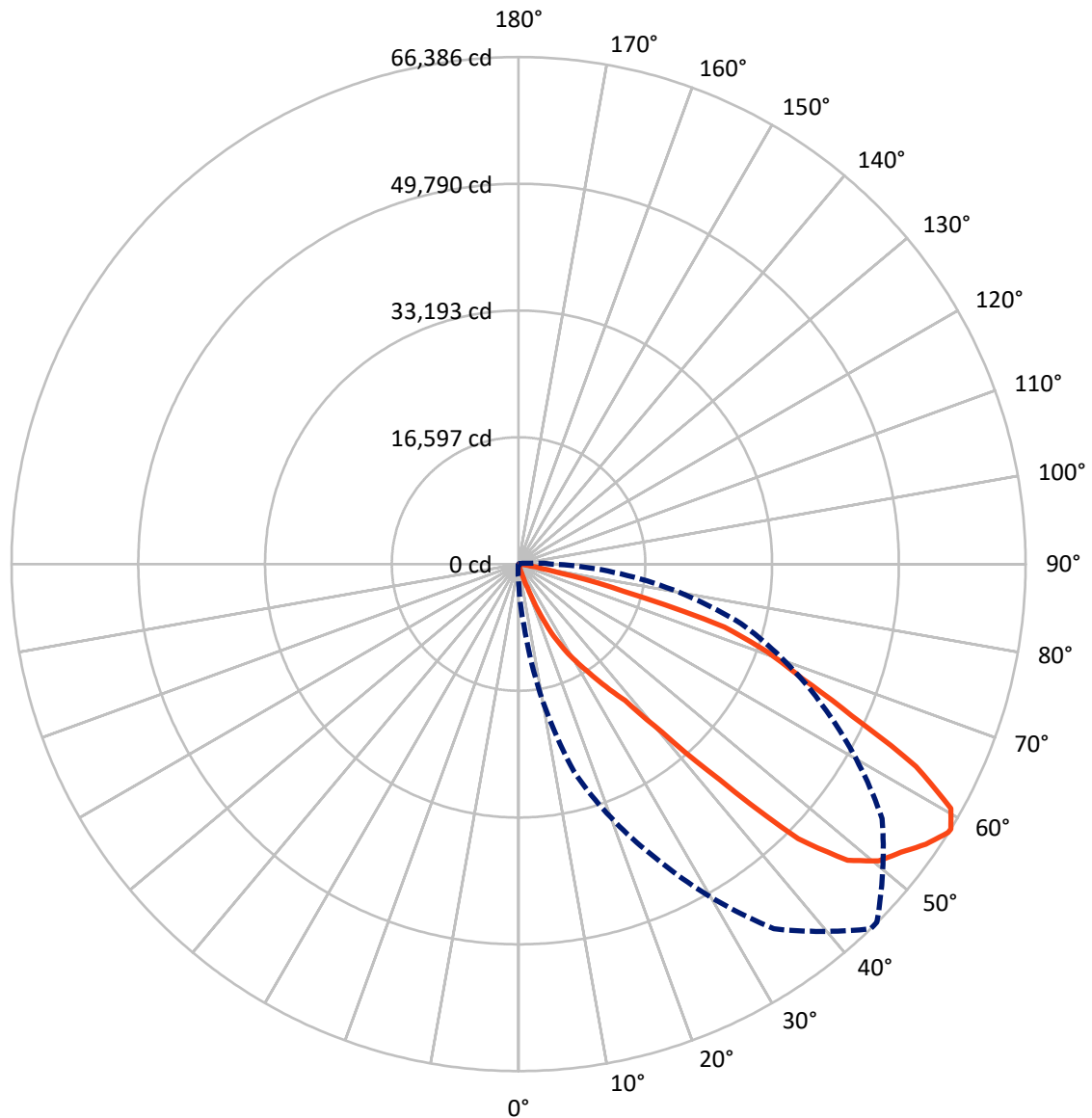
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45 fc
 Type III - Short - N/A

REPORT NUMBER: P1049558
CATALOG NUMBER: GALN-SA7B-727-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.7	0.0	176.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25701.0	0.0	25701.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	25877.7	0.0	25877.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.0
10°-20°	56.8	0.2
20°-30°	613.0	2.4
30°-40°	1813.0	7.0
40°-50°	5403.7	20.9
50°-60°	8574.3	33.1
60°-70°	7152.0	27.6
70°-80°	2205.8	8.5
80°-90°	49.0	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°	25877.7	100.0
0°-180°	25877.7	100.0

Coefficient of Utilization



REPORT NUMBER: P1049558

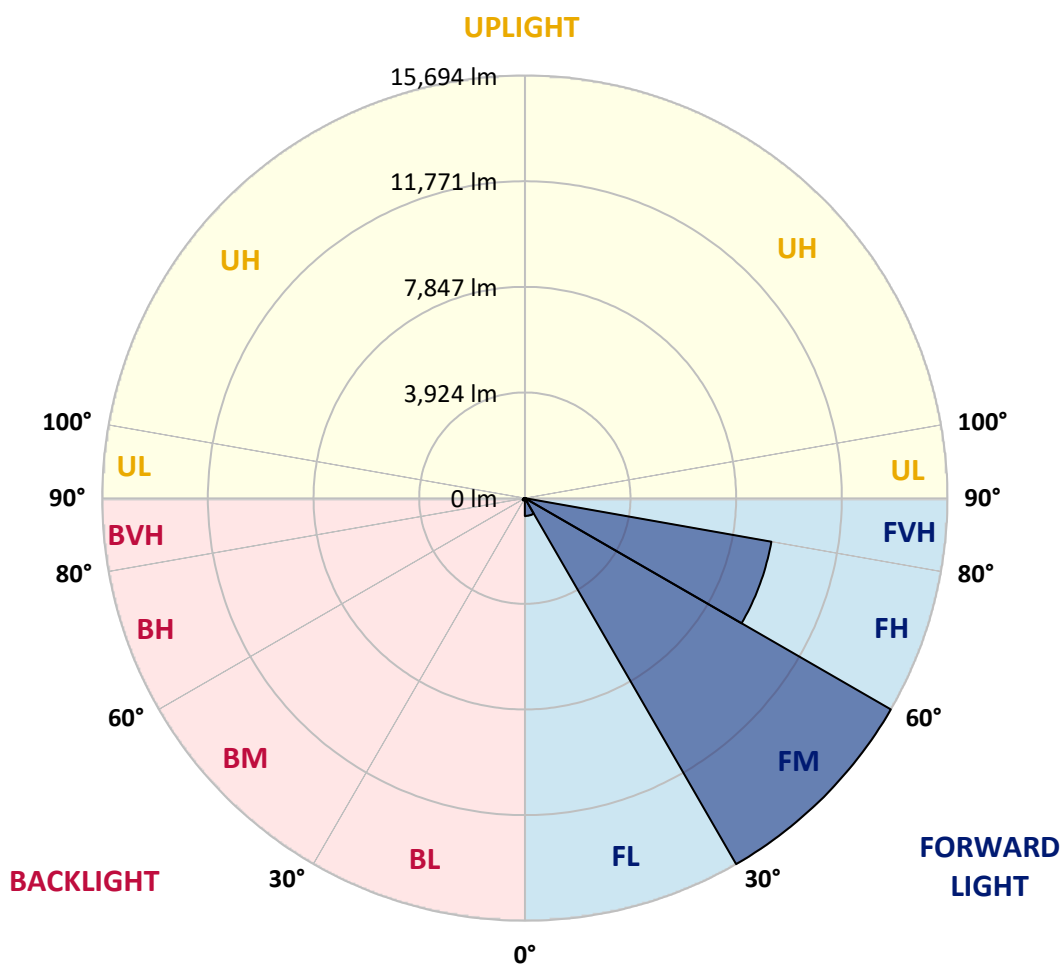
CATALOG NUMBER: GALN-SA7B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.6	2.6			
FM	(30°-60°)	15694.3	60.6			
FH	(60°-80°)	9297.5	35.9			G4/12000
FVH	(80°-90°)	46.6	0.2			G1/100
BL	(0°-30°)	17.3	0.1	B0/110		
BM	(30°-60°)	96.7	0.4	B0/220		
BH	(60°-80°)	60.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short





REPORT NUMBER: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
2.5°	146.6	146.6	140.7	132.9	125.1	117.3	115.3	111.4	109.5	107.5	105.6
5°	152.5	152.5	150.5	144.7	136.8	131.0	131.0	125.1	121.2	117.3	113.4
7.5°	156.4	158.3	162.3	160.3	156.4	150.5	150.5	146.6	140.7	131.0	125.1
10°	162.3	168.1	175.9	179.8	181.8	181.8	179.8	177.9	168.1	154.4	138.8
12.5°	168.1	179.8	199.4	218.9	230.7	246.3	244.4	240.4	215.0	185.7	158.3
15°	179.8	197.4	238.5	295.2	383.1	437.9	459.4	439.8	355.8	250.2	183.8
17.5°	193.5	222.9	346.0	617.7	1012.6	1200.3	1313.7	1221.8	809.3	475.0	230.7
20°	207.2	271.7	643.1	1601.0	2627.3	3241.1	3411.2	3145.3	2019.3	905.1	342.1
22.5°	230.7	381.2	1303.9	3309.5	5661.2	6581.9	6755.9	5905.6	3813.9	1786.7	514.1
25°	279.5	553.2	2248.1	5393.4	8448.8	10002.9	9930.6	8816.3	6187.1	2854.1	781.9
27.5°	349.9	805.4	3399.5	7663.0	11119.1	12489.5	12653.7	11275.5	8247.5	4197.0	1110.3
30°	451.6	1116.2	4634.9	9481.0	13259.7	14741.4	14768.8	13343.7	10090.9	5375.8	1513.0
32.5°	549.3	1409.4	5716.0	11238.4	15369.0	16993.4	17114.6	15361.1	11467.1	6603.4	1863.0
35°	623.6	1601.0	6810.7	12782.7	17495.8	19734.1	19726.3	17644.4	13097.4	7700.1	2347.8
37.5°	629.5	1792.6	7801.8	14362.2	20189.6	22695.7	22944.0	20649.0	15067.9	9056.8	2942.0
40°	615.8	2007.6	9056.8	16825.3	25043.5	28888.6	29107.6	26214.4	19020.6	11379.1	3870.6
42.5°	631.4	2381.0	11093.7	21374.2	33103.3	38625.7	39047.9	36006.2	26286.7	16117.7	5526.3
45°	713.5	3082.8	15361.1	28984.4	44591.9	51324.3	51183.6	46802.8	34741.4	23331.0	8802.6
47.5°	985.2	4801.1	21687.0	36391.3	51934.2	57929.7	58050.9	52696.6	39675.4	28876.9	13214.7
50°	1515.0	7346.3	27002.2	40306.8	55091.3	61106.3	60993.0	54805.9	41550.1	31607.8	15918.3
52.5°	1970.5	9187.7	29668.6	41681.1	55496.0	62676.1	62668.3	55361.1	41841.4	31842.4	16256.4
55°	2083.9	9326.5	29690.1	41755.4	56403.0	64730.6	64988.7	56727.5	42218.7	30818.1	14983.8
57.5°	2038.9	8257.2	28450.7	42185.4	58017.7	66319.9	66333.6	58050.9	43176.5	30190.5	12876.5
58°	1999.8	8089.1	28200.5	42429.8	58295.3	66386.4	66353.1	58111.5	43956.5	30167.1	12546.2
60°	1780.9	7023.7	27225.1	43053.4	57882.8	65021.9	64711.1	56788.1	43841.2	29926.6	10882.6
62.5°	1399.7	5479.4	26265.2	42332.1	53461.0	58416.5	58545.5	50276.5	39966.7	28525.0	8921.9
65°	1114.3	4083.7	24263.5	37132.2	44023.0	47971.8	48452.7	40883.5	33359.3	24154.0	6578.0
67.5°	887.5	2951.8	20353.8	29563.0	34835.2	40037.1	40387.0	34325.0	25844.9	18506.5	4674.0
70°	721.3	1995.9	14049.4	21620.5	28732.2	34581.1	34602.6	28515.2	19290.4	12125.9	2932.3
72.5°	639.2	1382.1	8155.6	15767.7	23297.8	28179.0	27610.2	23139.4	14825.5	7182.1	1747.6
75°	553.2	916.8	3999.6	9639.3	14125.7	14221.5	14438.4	10734.0	7410.8	3415.1	1047.8
77.5°	455.5	651.0	1575.6	2633.2	4236.1	5422.7	5624.1	4261.6	2465.1	840.6	559.1
80°	312.8	308.9	424.2	807.3	1212.0	1518.9	1417.3	1096.7	645.1	322.5	199.4
82.5°	134.9	146.6	191.6	230.7	187.7	181.8	174.0	111.4	86.0	66.5	41.1
85°	43.0	39.1	41.1	41.1	33.2	25.4	25.4	11.7	0.0	0.0	0.0
87.5°	21.5	17.6	17.6	15.6	9.8	3.9	2.0	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: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
2.5°	103.6	103.6	99.7	95.8	93.8	89.9	88.0	86.0	84.1	82.1	80.1
5°	109.5	107.5	101.7	95.8	89.9	84.1	80.1	76.2	72.3	70.4	68.4
7.5°	119.2	115.3	103.6	93.8	86.0	78.2	74.3	68.4	64.5	58.6	56.7
10°	131.0	123.2	107.5	95.8	84.1	74.3	68.4	62.6	56.7	48.9	46.9
12.5°	146.6	132.9	113.4	93.8	80.1	68.4	62.6	54.7	48.9	43.0	39.1
15°	160.3	142.7	115.3	93.8	76.2	62.6	54.7	46.9	41.1	33.2	29.3
17.5°	179.8	150.5	113.4	88.0	70.4	54.7	46.9	41.1	31.3	19.5	15.6
20°	213.1	156.4	109.5	82.1	60.6	45.0	35.2	27.4	13.7	3.9	0.0
22.5°	265.9	172.0	105.6	74.3	52.8	35.2	23.5	9.8	0.0	0.0	0.0
25°	367.5	199.4	105.6	70.4	46.9	25.4	7.8	0.0	0.0	0.0	0.0
27.5°	488.7	236.5	105.6	60.6	37.1	13.7	0.0	0.0	0.0	0.0	0.0
30°	611.9	277.6	105.6	52.8	29.3	2.0	0.0	0.0	0.0	0.0	0.0
32.5°	729.2	312.8	107.5	45.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	848.4	318.6	105.6	39.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1000.9	306.9	99.7	35.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	1231.5	312.8	93.8	33.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1657.7	338.2	86.0	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2865.8	453.5	78.2	35.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4740.5	815.2	76.2	35.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6050.2	1026.3	80.1	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6040.5	1143.6	84.1	39.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	5369.9	1165.1	89.9	43.0	25.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4488.3	1063.4	103.6	52.8	46.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	4331.9	1016.5	107.5	54.7	50.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	3550.0	828.9	136.8	68.4	68.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2451.4	723.3	156.4	88.0	70.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1733.9	652.9	170.1	93.8	56.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1296.1	602.1	187.7	95.8	29.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	993.1	564.9	230.7	101.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	809.3	521.9	279.5	105.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	670.5	471.1	269.8	115.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	445.7	365.6	246.3	115.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.4	144.7	191.6	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	19.5	27.4	35.2	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: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
2.5°	80.1	80.1	78.2	80.1	80.1	84.1	93.8	107.5	123.2	129.0	134.9
5°	66.5	64.5	62.6	62.6	62.6	68.4	76.2	91.9	109.5	117.3	121.2
7.5°	54.7	52.8	50.8	48.9	48.9	52.8	62.6	80.1	97.7	105.6	111.4
10°	45.0	41.1	39.1	37.1	37.1	41.1	50.8	68.4	88.0	95.8	103.6
12.5°	37.1	31.3	27.4	25.4	23.5	29.3	39.1	54.7	76.2	86.0	93.8
15°	25.4	19.5	13.7	11.7	9.8	15.6	25.4	43.0	64.5	76.2	84.1
17.5°	13.7	5.9	2.0	0.0	0.0	3.9	11.7	31.3	52.8	62.6	72.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	39.1	48.9	58.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.5	33.2	43.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	17.6	25.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	11.7
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	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.6	21.5
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: P1049558

CATALOG NUMBER: GALN-SA7B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
2.5°	138.8	136.8	132.9	129.0	129.0	129.0	134.9	140.7	146.6	146.6
5°	129.0	129.0	127.1	123.2	123.2	125.1	132.9	142.7	150.5	152.5
7.5°	119.2	123.2	119.2	117.3	119.2	121.2	129.0	140.7	152.5	156.4
10°	113.4	115.3	115.3	113.4	113.4	117.3	125.1	140.7	156.4	162.3
12.5°	105.6	109.5	107.5	107.5	107.5	111.4	121.2	138.8	160.3	168.1
15°	97.7	103.6	103.6	101.7	101.7	103.6	117.3	136.8	166.2	179.8
17.5°	89.9	95.8	97.7	93.8	93.8	97.7	111.4	136.8	170.1	193.5
20°	74.3	84.1	89.9	84.1	84.1	88.0	101.7	129.0	172.0	207.2
22.5°	58.6	68.4	76.2	74.3	74.3	76.2	93.8	123.2	174.0	230.7
25°	43.0	52.8	58.6	62.6	62.6	68.4	86.0	119.2	181.8	279.5
27.5°	25.4	37.1	45.0	48.9	50.8	58.6	80.1	115.3	195.5	349.9
30°	11.7	21.5	31.3	39.1	39.1	52.8	74.3	111.4	213.1	451.6
32.5°	0.0	9.8	15.6	27.4	29.3	43.0	68.4	107.5	238.5	549.3
35°	0.0	0.0	7.8	21.5	21.5	35.2	62.6	103.6	277.6	623.6
37.5°	0.0	0.0	0.0	15.6	17.6	31.3	60.6	101.7	285.4	629.5
40°	0.0	0.0	0.0	11.7	13.7	29.3	60.6	103.6	258.0	615.8
42.5°	0.0	0.0	0.0	7.8	9.8	29.3	60.6	107.5	232.6	631.4
45°	0.0	0.0	0.0	5.9	7.8	31.3	58.6	105.6	218.9	713.5
47.5°	0.0	0.0	0.0	7.8	11.7	31.3	56.7	103.6	220.9	985.2
50°	0.0	0.0	0.0	9.8	13.7	31.3	58.6	99.7	242.4	1515.0
52.5°	0.0	0.0	0.0	7.8	11.7	35.2	64.5	97.7	263.9	1970.5
55°	0.0	0.0	0.0	2.0	5.9	45.0	70.4	97.7	297.1	2083.9
57.5°	0.0	0.0	0.0	0.0	0.0	50.8	80.1	103.6	351.9	2038.9
58°	0.0	0.0	0.0	0.0	0.0	50.8	82.1	103.6	355.8	1999.8
60°	0.0	0.0	0.0	0.0	0.0	50.8	89.9	115.3	383.1	1780.9
62.5°	0.0	0.0	0.0	0.0	0.0	43.0	107.5	144.7	398.8	1399.7
65°	0.0	0.0	0.0	0.0	0.0	35.2	127.1	158.3	410.5	1114.3
67.5°	0.0	0.0	0.0	0.0	0.0	33.2	131.0	160.3	416.4	887.5
70°	0.0	0.0	0.0	0.0	0.0	35.2	129.0	172.0	435.9	721.3
72.5°	0.0	0.0	0.0	0.0	0.0	39.1	117.3	189.6	435.9	639.2
75°	0.0	0.0	0.0	0.0	0.0	41.1	109.5	213.1	396.8	553.2
77.5°	0.0	0.0	0.0	0.0	0.0	39.1	107.5	248.3	353.8	455.5
80°	3.9	5.9	5.9	3.9	3.9	33.2	105.6	252.2	301.0	312.8
82.5°	11.7	15.6	13.7	9.8	9.8	29.3	93.8	211.1	156.4	134.9
85°	21.5	25.4	25.4	21.5	21.5	27.4	58.6	76.2	52.8	43.0
87.5°	29.3	33.2	33.2	29.3	29.3	27.4	25.4	23.5	21.5	21.5
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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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

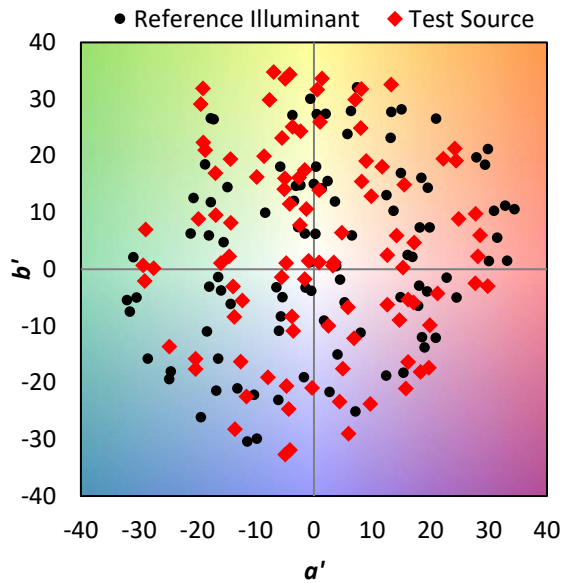
Summary

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

Spectral Power Distribution Comparison

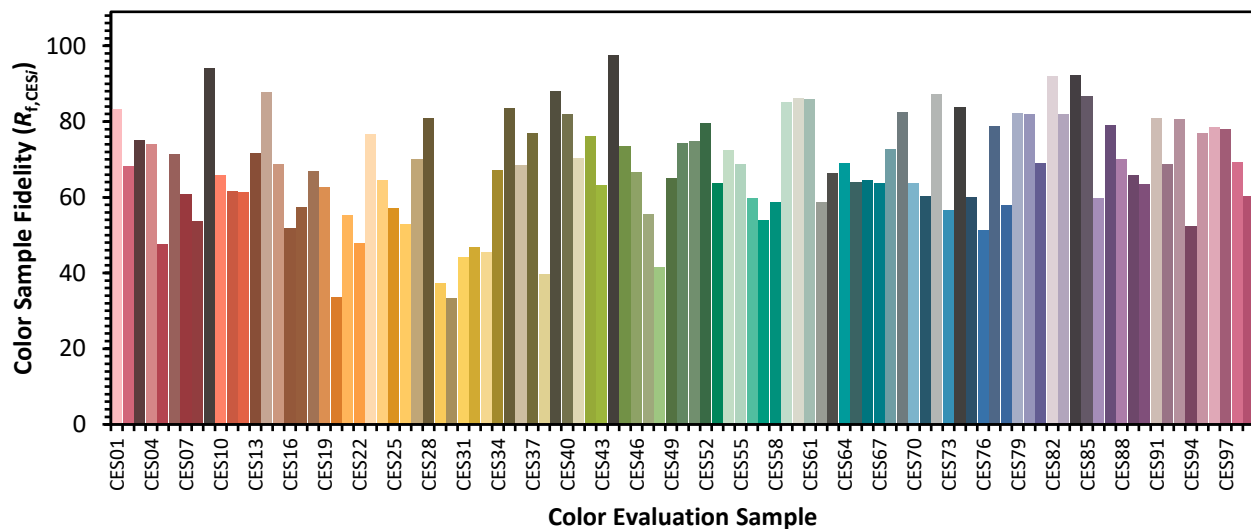


Color Vector Graphics



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

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)