

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: STREETWORKS

Report Number: P1065197

Luminaire Tested: **GLAN-SA8A-727-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065197
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23687.6 lumens
Efficiency: N/A
Efficacy: 108.9 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

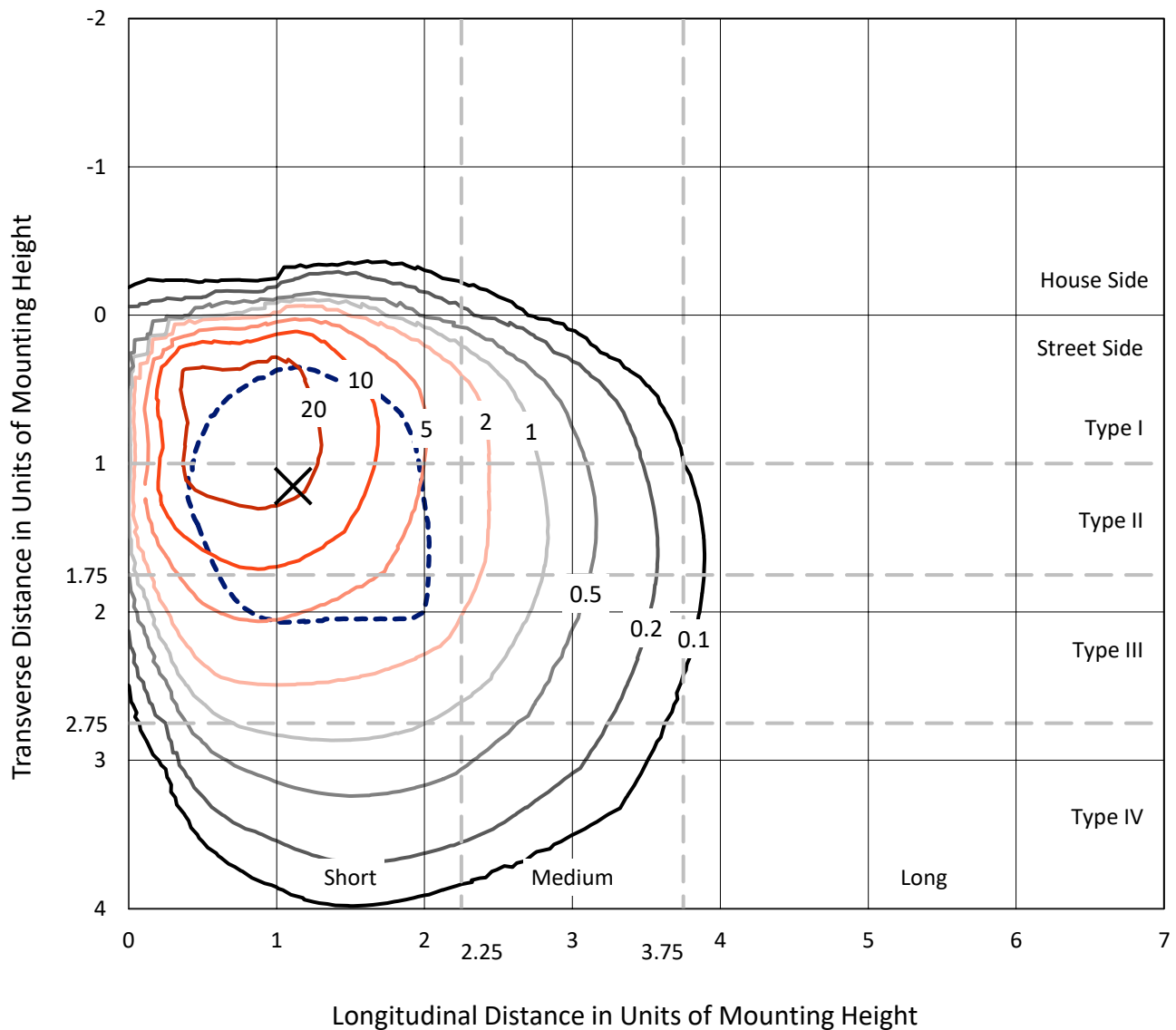
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

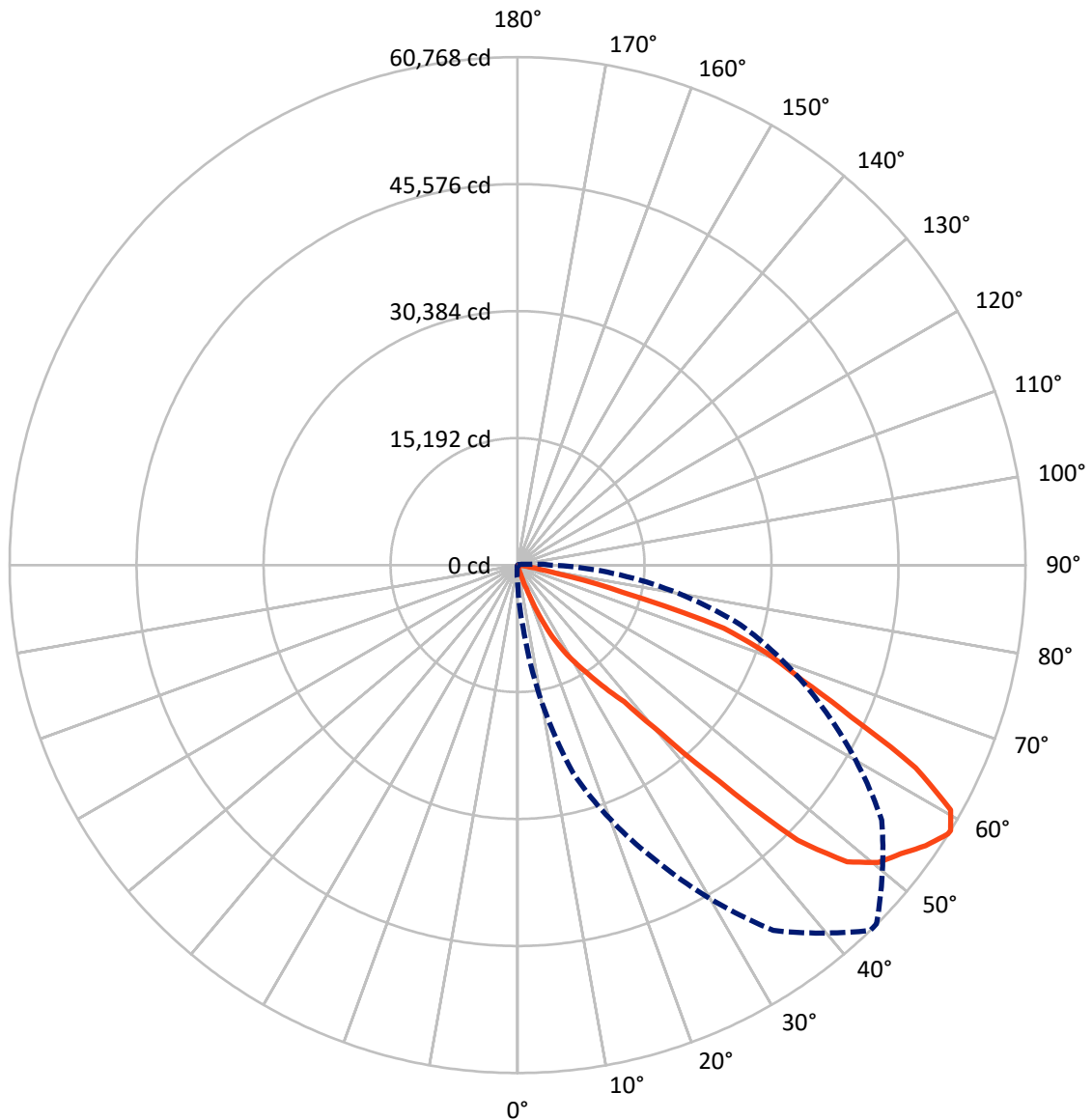
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.2 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	161.7	0.0	161.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23525.9	0.0	23525.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	23687.6	0.0	23687.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.0
10°-20°	51.9	0.2
20°-30°	561.2	2.4
30°-40°	1659.6	7.0
40°-50°	4946.4	20.9
50°-60°	7848.7	33.1
60°-70°	6546.7	27.6
70°-80°	2019.1	8.5
80°-90°	44.8	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°	23687.6	100.0
0°-180°	23687.6	100.0

Coefficient of Utilization



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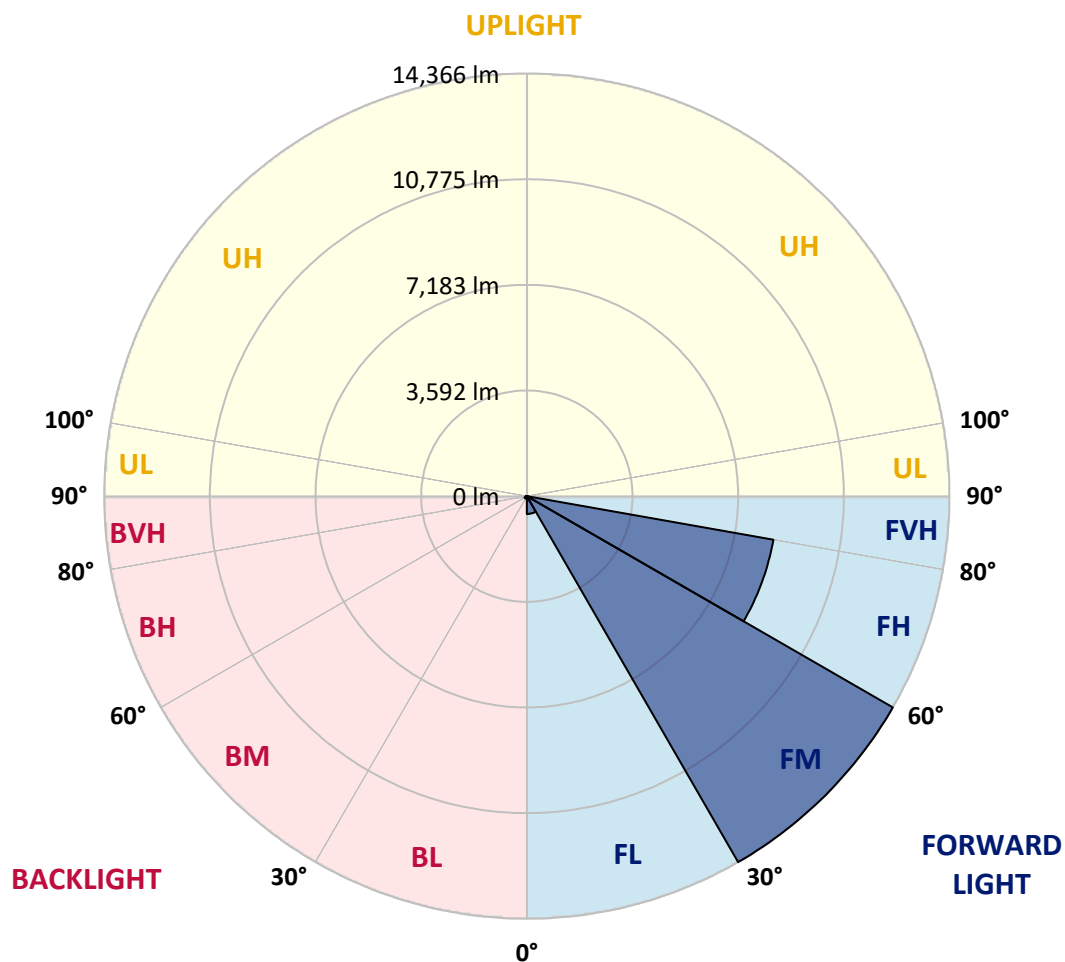
CATALOG NUMBER: GLAN-SA8A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.5	2.6			
FM	(30°-60°)	14366.0	60.6			
FH	(60°-80°)	8510.6	35.9			G4/12000
FVH	(80°-90°)	42.7	0.2			G1/100
BL	(0°-30°)	15.8	0.1	B0/110		
BM	(30°-60°)	88.5	0.4	B0/220		
BH	(60°-80°)	55.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	134.2	134.2	128.8	121.7	114.5	107.4	105.6	102.0	100.2	98.4	96.6
5°	139.6	139.6	137.8	132.4	125.3	119.9	119.9	114.5	110.9	107.4	103.8
7.5°	143.2	144.9	148.5	146.7	143.2	137.8	137.8	134.2	128.8	119.9	114.5
10°	148.5	153.9	161.0	164.6	166.4	166.4	164.6	162.8	153.9	141.4	127.0
12.5°	153.9	164.6	182.5	200.4	211.1	225.5	223.7	220.1	196.8	170.0	144.9
15°	164.6	180.7	218.3	270.2	350.7	400.8	420.5	402.6	325.7	229.0	168.2
17.5°	177.2	204.0	316.7	565.4	926.9	1098.7	1202.5	1118.4	740.8	434.8	211.1
20°	189.7	248.7	588.7	1465.5	2405.0	2966.8	3122.5	2879.1	1848.4	828.5	313.1
22.5°	211.1	348.9	1193.5	3029.5	5182.1	6024.9	6184.2	5405.8	3491.1	1635.5	470.6
25°	255.9	506.4	2057.8	4936.9	7733.8	9156.4	9090.1	8070.2	5663.4	2612.5	715.8
27.5°	320.3	737.2	3111.8	7014.4	10178.1	11432.5	11582.8	10321.2	7549.5	3841.8	1016.4
30°	413.4	1021.7	4242.7	8678.6	12137.5	13493.9	13518.9	12214.4	9236.9	4920.8	1385.0
32.5°	502.8	1290.2	5232.2	10287.3	14068.2	15555.2	15666.2	14061.1	10496.6	6044.6	1705.3
35°	570.8	1465.5	6234.3	11700.9	16015.1	18064.0	18056.8	16151.1	11989.0	7048.4	2149.1
37.5°	576.2	1640.9	7141.5	13146.7	18480.9	20774.9	21002.2	18901.4	13792.7	8290.3	2693.0
40°	563.7	1837.7	8290.3	15401.4	22924.0	26443.7	26644.1	23995.8	17410.8	10416.1	3543.0
42.5°	578.0	2179.5	10154.8	19565.3	30301.7	35356.7	35743.2	32958.9	24062.0	14753.6	5058.6
45°	653.1	2821.9	14061.1	26531.4	40818.0	46980.7	46851.8	42841.8	31801.2	21356.5	8057.7
47.5°	901.9	4394.8	19851.6	33311.4	47538.9	53027.0	53138.0	48236.8	36317.6	26433.0	12096.3
50°	1386.8	6724.6	24717.0	36895.6	50428.8	55934.8	55831.0	50167.6	38033.7	28932.8	14571.1
52.5°	1803.7	8410.2	27157.7	38153.5	50799.2	57371.7	57364.5	50675.8	38300.3	29147.5	14880.6
55°	1907.5	8537.2	27177.4	38221.5	51629.5	59252.3	59488.5	51926.5	38645.6	28209.9	13715.7
57.5°	1866.3	7558.4	26042.9	38615.2	53107.6	60707.1	60719.7	53138.0	39522.4	27635.5	11786.8
58°	1830.6	7404.5	25813.9	38838.9	53361.6	60768.0	60737.5	53193.4	40236.4	27614.0	11484.4
60°	1630.1	6429.3	24920.9	39409.7	52984.1	59519.0	59234.4	51982.0	40130.8	27393.9	9961.6
62.5°	1281.2	5015.7	24042.4	38749.4	48936.5	53472.6	53590.7	46021.5	36584.2	26110.9	8166.8
65°	1020.0	3738.1	22210.0	33989.6	40297.2	43911.8	44352.0	37423.5	30536.1	22109.8	6021.3
67.5°	812.4	2702.0	18631.2	27061.1	31887.1	36648.7	36969.0	31420.0	23657.6	16940.2	4278.5
70°	660.3	1827.0	12860.4	19790.7	26300.6	31654.5	31674.1	26102.0	17657.8	11099.6	2684.1
72.5°	585.1	1265.1	7465.4	14433.3	21326.0	25794.2	25273.5	21181.1	13570.8	6574.2	1599.7
75°	506.4	839.2	3661.1	8823.5	12930.2	13017.9	13216.5	9825.6	6783.6	3126.1	959.1
77.5°	416.9	595.9	1442.3	2410.3	3877.6	4963.8	5148.1	3900.9	2256.4	769.4	511.8
80°	286.3	282.7	388.3	739.0	1109.4	1390.4	1297.3	1003.9	590.5	295.3	182.5
82.5°	123.5	134.2	175.4	211.1	171.8	166.4	159.3	102.0	78.7	60.8	37.6
85°	39.4	35.8	37.6	37.6	30.4	23.3	23.3	10.7	0.0	0.0	0.0
87.5°	19.7	16.1	16.1	14.3	8.9	3.6	1.8	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°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	94.8	94.8	91.3	87.7	85.9	82.3	80.5	78.7	76.9	75.2	73.4
5°	100.2	98.4	93.0	87.7	82.3	76.9	73.4	69.8	66.2	64.4	62.6
7.5°	109.2	105.6	94.8	85.9	78.7	71.6	68.0	62.6	59.1	53.7	51.9
10°	119.9	112.7	98.4	87.7	76.9	68.0	62.6	57.3	51.9	44.7	42.9
12.5°	134.2	121.7	103.8	85.9	73.4	62.6	57.3	50.1	44.7	39.4	35.8
15°	146.7	130.6	105.6	85.9	69.8	57.3	50.1	42.9	37.6	30.4	26.8
17.5°	164.6	137.8	103.8	80.5	64.4	50.1	42.9	37.6	28.6	17.9	14.3
20°	195.0	143.2	100.2	75.2	55.5	41.2	32.2	25.1	12.5	3.6	0.0
22.5°	243.4	157.5	96.6	68.0	48.3	32.2	21.5	8.9	0.0	0.0	0.0
25°	336.4	182.5	96.6	64.4	42.9	23.3	7.2	0.0	0.0	0.0	0.0
27.5°	447.3	216.5	96.6	55.5	34.0	12.5	0.0	0.0	0.0	0.0	0.0
30°	560.1	254.1	96.6	48.3	26.8	1.8	0.0	0.0	0.0	0.0	0.0
32.5°	667.4	286.3	98.4	41.2	17.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	776.6	291.7	96.6	35.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	916.2	280.9	91.3	32.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	1127.3	286.3	85.9	30.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1517.4	309.6	78.7	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2623.3	415.1	71.6	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4339.3	746.2	69.8	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5538.2	939.4	73.4	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5529.2	1046.8	76.9	35.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	4915.5	1066.5	82.3	39.4	23.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4108.5	973.4	94.8	48.3	42.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	3965.3	930.5	98.4	50.1	46.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	3249.5	758.7	125.3	62.6	62.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2243.9	662.1	143.2	80.5	64.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1587.2	597.7	155.7	85.9	51.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1186.4	551.1	171.8	87.7	26.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	909.0	517.1	211.1	93.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	740.8	477.8	255.9	96.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	613.8	431.2	246.9	105.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	408.0	334.6	225.5	105.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	143.2	132.4	175.4	93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	17.9	25.1	32.2	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	73.4	73.4	71.6	73.4	73.4	76.9	85.9	98.4	112.7	118.1	123.5
5°	60.8	59.1	57.3	57.3	57.3	62.6	69.8	84.1	100.2	107.4	110.9
7.5°	50.1	48.3	46.5	44.7	44.7	48.3	57.3	73.4	89.5	96.6	102.0
10°	41.2	37.6	35.8	34.0	34.0	37.6	46.5	62.6	80.5	87.7	94.8
12.5°	34.0	28.6	25.1	23.3	21.5	26.8	35.8	50.1	69.8	78.7	85.9
15°	23.3	17.9	12.5	10.7	8.9	14.3	23.3	39.4	59.1	69.8	76.9
17.5°	12.5	5.4	1.8	0.0	0.0	3.6	10.7	28.6	48.3	57.3	66.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	35.8	44.7	53.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.5	30.4	39.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	16.1	23.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.7
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	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.3	19.7
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	127.0	125.3	121.7	118.1	118.1	118.1	123.5	128.8	134.2	134.2
5°	118.1	118.1	116.3	112.7	112.7	114.5	121.7	130.6	137.8	139.6
7.5°	109.2	112.7	109.2	107.4	109.2	110.9	118.1	128.8	139.6	143.2
10°	103.8	105.6	105.6	103.8	103.8	107.4	114.5	128.8	143.2	148.5
12.5°	96.6	100.2	98.4	98.4	98.4	102.0	110.9	127.0	146.7	153.9
15°	89.5	94.8	94.8	93.0	93.0	94.8	107.4	125.3	152.1	164.6
17.5°	82.3	87.7	89.5	85.9	85.9	89.5	102.0	125.3	155.7	177.2
20°	68.0	76.9	82.3	76.9	76.9	80.5	93.0	118.1	157.5	189.7
22.5°	53.7	62.6	69.8	68.0	68.0	69.8	85.9	112.7	159.3	211.1
25°	39.4	48.3	53.7	57.3	57.3	62.6	78.7	109.2	166.4	255.9
27.5°	23.3	34.0	41.2	44.7	46.5	53.7	73.4	105.6	178.9	320.3
30°	10.7	19.7	28.6	35.8	35.8	48.3	68.0	102.0	195.0	413.4
32.5°	0.0	8.9	14.3	25.1	26.8	39.4	62.6	98.4	218.3	502.8
35°	0.0	0.0	7.2	19.7	19.7	32.2	57.3	94.8	254.1	570.8
37.5°	0.0	0.0	0.0	14.3	16.1	28.6	55.5	93.0	261.3	576.2
40°	0.0	0.0	0.0	10.7	12.5	26.8	55.5	94.8	236.2	563.7
42.5°	0.0	0.0	0.0	7.2	8.9	26.8	55.5	98.4	212.9	578.0
45°	0.0	0.0	0.0	5.4	7.2	28.6	53.7	96.6	200.4	653.1
47.5°	0.0	0.0	0.0	7.2	10.7	28.6	51.9	94.8	202.2	901.9
50°	0.0	0.0	0.0	8.9	12.5	28.6	53.7	91.3	221.9	1386.8
52.5°	0.0	0.0	0.0	7.2	10.7	32.2	59.1	89.5	241.6	1803.7
55°	0.0	0.0	0.0	1.8	5.4	41.2	64.4	89.5	272.0	1907.5
57.5°	0.0	0.0	0.0	0.0	0.0	46.5	73.4	94.8	322.1	1866.3
58°	0.0	0.0	0.0	0.0	0.0	46.5	75.2	94.8	325.7	1830.6
60°	0.0	0.0	0.0	0.0	0.0	46.5	82.3	105.6	350.7	1630.1
62.5°	0.0	0.0	0.0	0.0	0.0	39.4	98.4	132.4	365.0	1281.2
65°	0.0	0.0	0.0	0.0	0.0	32.2	116.3	144.9	375.8	1020.0
67.5°	0.0	0.0	0.0	0.0	0.0	30.4	119.9	146.7	381.1	812.4
70°	0.0	0.0	0.0	0.0	0.0	32.2	118.1	157.5	399.0	660.3
72.5°	0.0	0.0	0.0	0.0	0.0	35.8	107.4	173.6	399.0	585.1
75°	0.0	0.0	0.0	0.0	0.0	37.6	100.2	195.0	363.2	506.4
77.5°	0.0	0.0	0.0	0.0	0.0	35.8	98.4	227.3	323.9	416.9
80°	3.6	5.4	5.4	3.6	3.6	30.4	96.6	230.8	275.6	286.3
82.5°	10.7	14.3	12.5	8.9	8.9	26.8	85.9	193.3	143.2	123.5
85°	19.7	23.3	23.3	19.7	19.7	25.1	53.7	69.8	48.3	39.4
87.5°	26.8	30.4	30.4	26.8	26.8	25.1	23.3	21.5	19.7	19.7
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

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CIE 1931 Chromaticity Diagram



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



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			

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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			

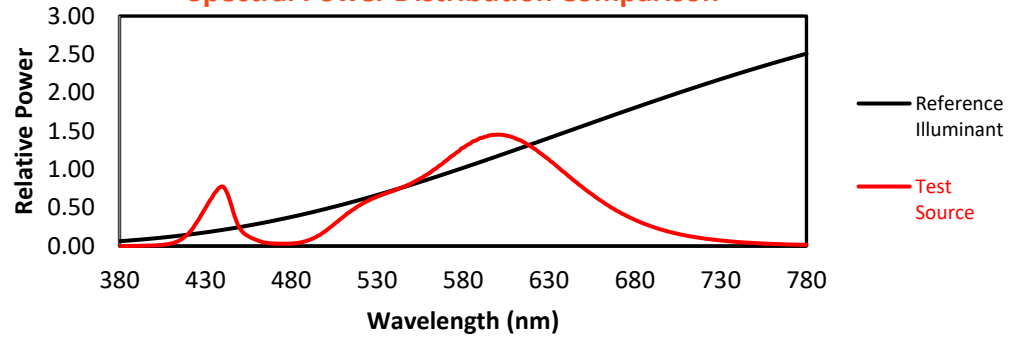
REPORT NUMBER: SP1-2407-184-3

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

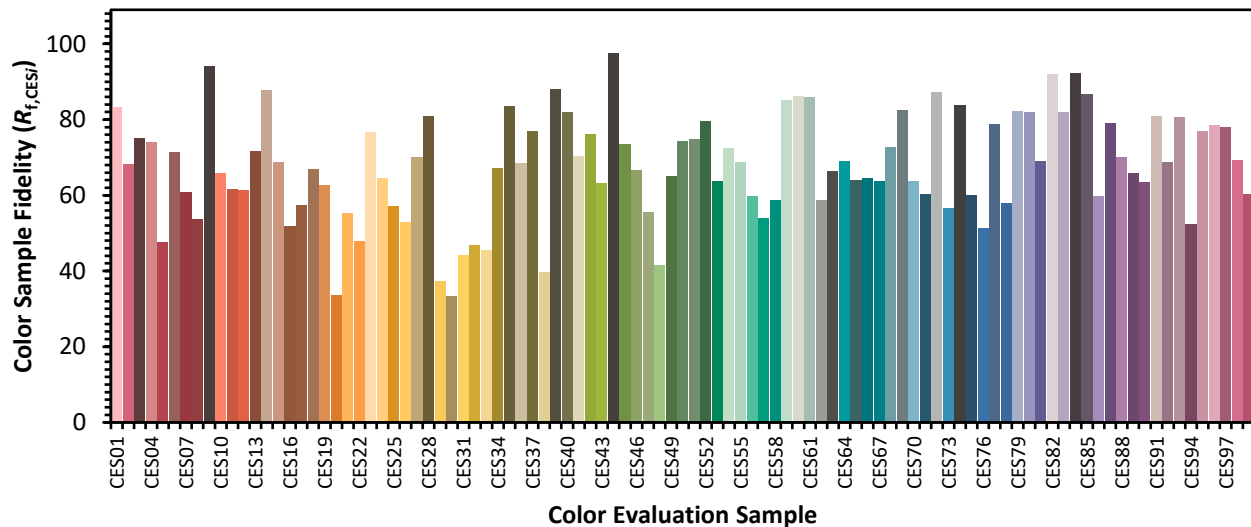


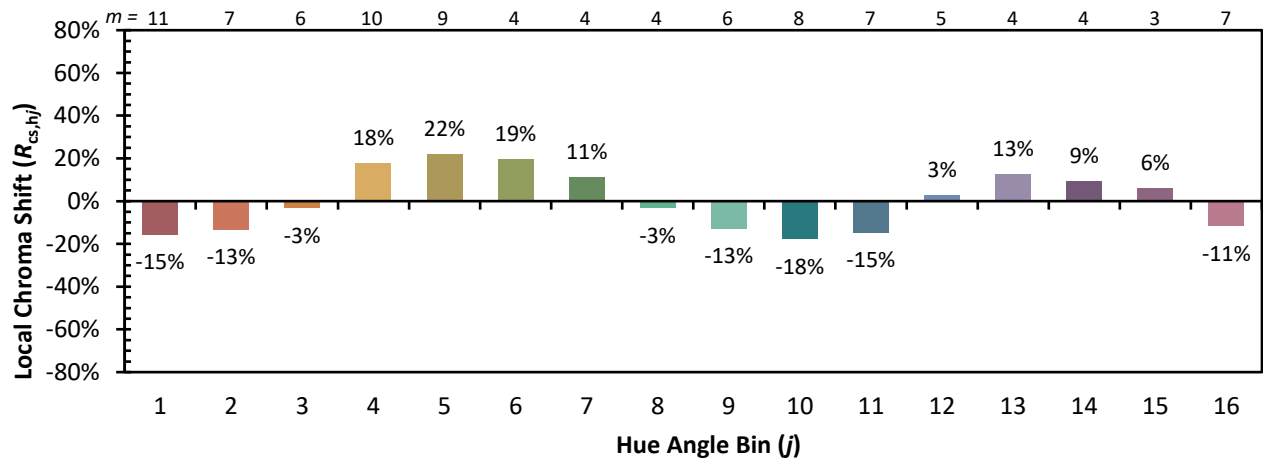
Color Vector Graphics



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)