

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: P1065195

Luminaire Tested: **GLAN-SA7C-727-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065195
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 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: 32039.9 lumens
Efficiency: N/A
Efficacy: 97.1 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

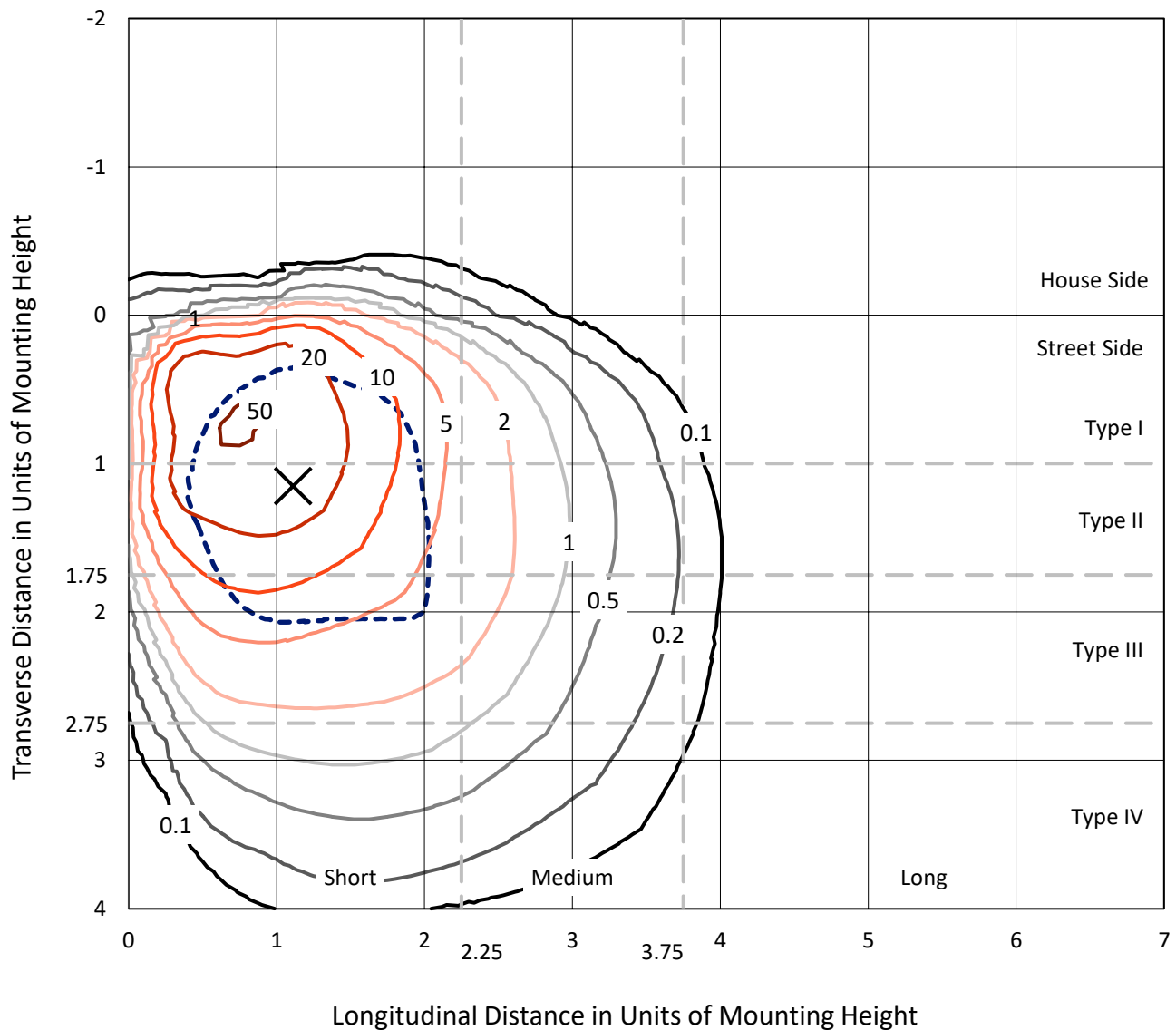
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

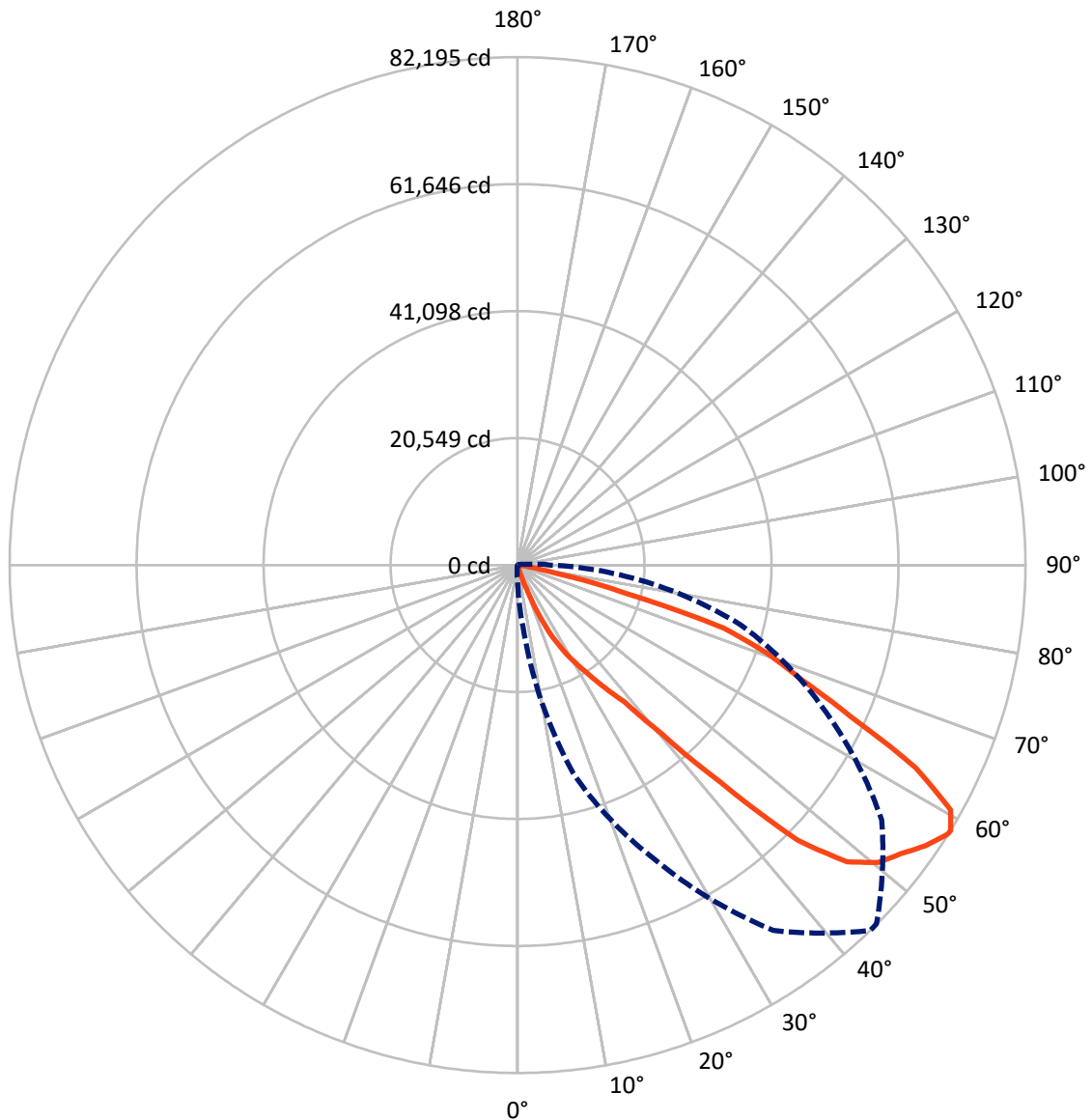
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.8 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	218.8	0.0	218.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	31821.2	0.0	31821.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	32039.9	0.0	32039.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.0
10°-20°	70.3	0.2
20°-30°	759.0	2.4
30°-40°	2244.7	7.0
40°-50°	6690.5	20.9
50°-60°	10616.1	33.1
60°-70°	8855.1	27.6
70°-80°	2731.1	8.5
80°-90°	60.7	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°	32039.9	100.0
0°-180°	32039.9	100.0



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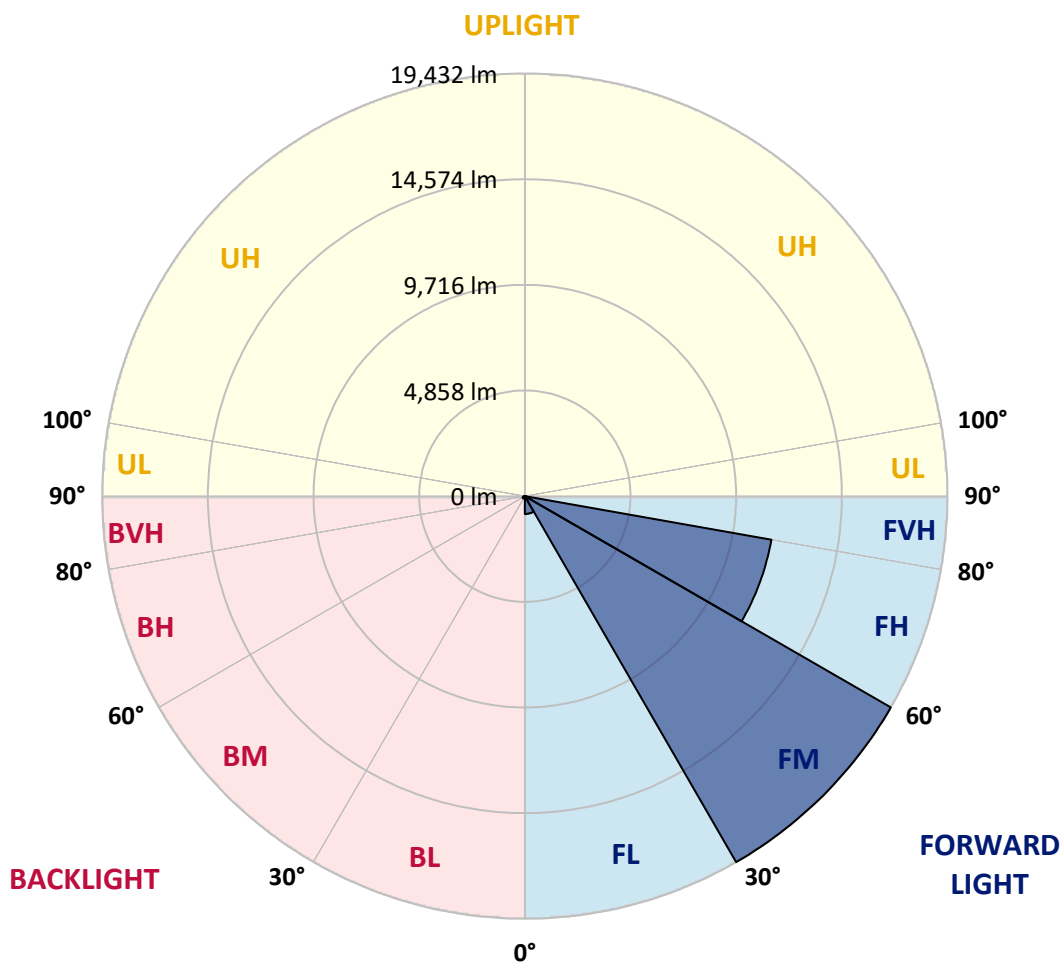
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.4	2.6			
FM	(30°-60°)	19431.6	60.6			
FH	(60°-80°)	11511.5	35.9			G4/12000
FVH	(80°-90°)	57.7	0.2			G1/100
BL	(0°-30°)	21.4	0.1	B0/110		
BM	(30°-60°)	119.7	0.4	B0/220		
BH	(60°-80°)	74.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	181.5	181.5	174.3	164.6	154.9	145.2	142.8	138.0	135.5	133.1	130.7
5°	188.8	188.8	186.4	179.1	169.4	162.2	162.2	154.9	150.1	145.2	140.4
7.5°	193.6	196.0	200.9	198.5	193.6	186.4	186.4	181.5	174.3	162.2	154.9
10°	200.9	208.1	217.8	222.7	225.1	225.1	222.7	220.3	208.1	191.2	171.8
12.5°	208.1	222.7	246.9	271.1	285.6	305.0	302.5	297.7	266.2	229.9	196.0
15°	222.7	244.5	295.3	365.5	474.4	542.2	568.8	544.6	440.5	309.8	227.5
17.5°	239.6	275.9	428.4	764.8	1253.7	1486.1	1626.5	1512.7	1002.0	588.1	285.6
20°	256.6	336.4	796.3	1982.3	3252.9	4012.9	4223.5	3894.3	2500.2	1120.6	423.6
22.5°	285.6	472.0	1614.4	4097.6	7009.3	8149.3	8364.7	7311.9	4722.1	2212.2	636.6
25°	346.1	685.0	2783.4	6677.7	10460.7	12384.9	12295.4	10915.8	7660.4	3533.7	968.1
27.5°	433.2	997.2	4209.0	9487.8	13766.9	15463.6	15666.9	13960.6	10211.4	5196.5	1374.8
30°	559.1	1382.0	5738.6	11738.7	16417.2	18251.8	18285.7	16521.3	12493.8	6656.0	1873.3
32.5°	680.1	1745.1	7077.1	13914.6	19028.8	21040.1	21190.1	19019.1	14197.8	8175.9	2306.6
35°	772.1	1982.3	8432.5	15826.6	21662.1	24433.4	24423.7	21846.0	16216.3	9533.7	2906.8
37.5°	779.4	2219.5	9659.6	17782.3	24997.3	28100.2	28407.6	25566.1	18656.0	11213.5	3642.6
40°	762.4	2485.7	11213.5	20831.9	31007.1	35767.9	36039.0	32456.8	23550.0	14088.8	4792.3
42.5°	781.8	2948.0	13735.5	26464.1	40986.1	47823.6	48346.4	44580.4	32546.4	19955.8	6842.3
45°	883.4	3816.9	19019.1	35886.5	55210.5	63546.2	63371.9	57947.9	43014.4	28886.8	10898.8
47.5°	1219.9	5944.4	26851.3	45057.2	64301.3	71724.5	71874.6	65245.3	49123.3	35753.4	16361.5
50°	1875.8	9095.7	33432.2	49905.1	68210.2	75657.6	75517.2	67856.8	51444.5	39134.6	19708.9
52.5°	2439.7	11375.6	36733.6	51606.6	68711.2	77601.1	77591.5	68544.2	51805.1	39425.0	20127.6
55°	2580.1	11547.5	36760.2	51698.6	69834.3	80144.9	80464.4	70236.0	52272.2	38156.8	18552.0
57.5°	2524.4	10223.5	35225.7	52231.1	71833.5	82112.7	82129.6	71874.6	53458.2	37379.8	15942.8
58°	2476.0	10015.4	34915.9	52533.6	72177.1	82195.0	82153.8	71949.6	54423.9	37350.8	15533.8
60°	2204.9	8696.3	33708.2	53305.7	71666.5	80505.6	80120.7	70311.1	54281.1	37053.1	13474.1
62.5°	1733.0	6784.2	32519.8	52412.6	66191.6	72327.2	72487.0	62248.9	49484.0	35317.7	11046.5
65°	1379.6	5056.1	30041.3	45974.5	54506.2	59395.3	59990.7	50619.1	41303.2	29905.8	8144.5
67.5°	1098.8	3654.7	25200.6	36602.9	43130.6	49571.1	50004.4	42498.9	31999.4	22913.4	5787.0
70°	893.1	2471.2	17395.0	26769.0	35574.2	42815.9	42842.5	35305.6	23884.0	15013.4	3630.5
72.5°	791.5	1711.2	10097.7	19522.5	28845.7	34889.3	34185.0	28649.6	18355.9	8892.4	2163.8
75°	685.0	1135.1	4952.0	11934.7	17489.4	17608.0	17876.7	13290.1	9175.5	4228.3	1297.3
77.5°	563.9	806.0	1950.8	3260.2	5244.9	6714.0	6963.3	5276.4	3052.1	1040.7	692.2
80°	387.3	382.4	525.2	999.6	1500.6	1880.6	1754.8	1357.8	798.7	399.4	246.9
82.5°	167.0	181.5	237.2	285.6	232.4	225.1	215.4	138.0	106.5	82.3	50.8
85°	53.2	48.4	50.8	50.8	41.1	31.5	31.5	14.5	0.0	0.0	0.0
87.5°	26.6	21.8	21.8	19.4	12.1	4.8	2.4	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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	128.3	128.3	123.4	118.6	116.2	111.3	108.9	106.5	104.1	101.7	99.2
5°	135.5	133.1	125.9	118.6	111.3	104.1	99.2	94.4	89.6	87.1	84.7
7.5°	147.6	142.8	128.3	116.2	106.5	96.8	92.0	84.7	79.9	72.6	70.2
10°	162.2	152.5	133.1	118.6	104.1	92.0	84.7	77.5	70.2	60.5	58.1
12.5°	181.5	164.6	140.4	116.2	99.2	84.7	77.5	67.8	60.5	53.2	48.4
15°	198.5	176.7	142.8	116.2	94.4	77.5	67.8	58.1	50.8	41.1	36.3
17.5°	222.7	186.4	140.4	108.9	87.1	67.8	58.1	50.8	38.7	24.2	19.4
20°	263.8	193.6	135.5	101.7	75.0	55.7	43.6	33.9	16.9	4.8	0.0
22.5°	329.2	213.0	130.7	92.0	65.3	43.6	29.0	12.1	0.0	0.0	0.0
25°	455.0	246.9	130.7	87.1	58.1	31.5	9.7	0.0	0.0	0.0	0.0
27.5°	605.1	292.9	130.7	75.0	46.0	16.9	0.0	0.0	0.0	0.0	0.0
30°	757.6	343.7	130.7	65.3	36.3	2.4	0.0	0.0	0.0	0.0	0.0
32.5°	902.8	387.3	133.1	55.7	24.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1050.4	394.5	130.7	48.4	14.5	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1239.2	380.0	123.4	43.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	1524.8	387.3	116.2	41.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2052.5	418.7	106.5	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3548.2	561.5	96.8	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5869.3	1009.3	94.4	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7491.0	1270.7	99.2	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7478.9	1415.9	104.1	48.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	6648.7	1442.5	111.3	53.2	31.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5557.1	1316.7	128.3	65.3	58.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	5363.5	1258.6	133.1	67.8	62.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	4395.3	1026.2	169.4	84.7	84.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3035.1	895.5	193.6	108.9	87.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	2146.8	808.4	210.6	116.2	70.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1604.7	745.5	232.4	118.6	36.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1229.5	699.5	285.6	125.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1002.0	646.2	346.1	130.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	830.2	583.3	334.0	142.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	551.8	452.6	305.0	142.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	193.6	179.1	237.2	125.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	24.2	33.9	43.6	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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	99.2	99.2	96.8	99.2	99.2	104.1	116.2	133.1	152.5	159.7	167.0
5°	82.3	79.9	77.5	77.5	77.5	84.7	94.4	113.8	135.5	145.2	150.1
7.5°	67.8	65.3	62.9	60.5	60.5	65.3	77.5	99.2	121.0	130.7	138.0
10°	55.7	50.8	48.4	46.0	46.0	50.8	62.9	84.7	108.9	118.6	128.3
12.5°	46.0	38.7	33.9	31.5	29.0	36.3	48.4	67.8	94.4	106.5	116.2
15°	31.5	24.2	16.9	14.5	12.1	19.4	31.5	53.2	79.9	94.4	104.1
17.5°	16.9	7.3	2.4	0.0	0.0	4.8	14.5	38.7	65.3	77.5	89.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	48.4	60.5	72.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	29.0	41.1	53.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	21.8	31.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.5
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	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	19.4	26.6
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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	171.8	169.4	164.6	159.7	159.7	159.7	167.0	174.3	181.5	181.5
5°	159.7	159.7	157.3	152.5	152.5	154.9	164.6	176.7	186.4	188.8
7.5°	147.6	152.5	147.6	145.2	147.6	150.1	159.7	174.3	188.8	193.6
10°	140.4	142.8	142.8	140.4	140.4	145.2	154.9	174.3	193.6	200.9
12.5°	130.7	135.5	133.1	133.1	133.1	138.0	150.1	171.8	198.5	208.1
15°	121.0	128.3	128.3	125.9	125.9	128.3	145.2	169.4	205.7	222.7
17.5°	111.3	118.6	121.0	116.2	116.2	121.0	138.0	169.4	210.6	239.6
20°	92.0	104.1	111.3	104.1	104.1	108.9	125.9	159.7	213.0	256.6
22.5°	72.6	84.7	94.4	92.0	92.0	94.4	116.2	152.5	215.4	285.6
25°	53.2	65.3	72.6	77.5	77.5	84.7	106.5	147.6	225.1	346.1
27.5°	31.5	46.0	55.7	60.5	62.9	72.6	99.2	142.8	242.0	433.2
30°	14.5	26.6	38.7	48.4	48.4	65.3	92.0	138.0	263.8	559.1
32.5°	0.0	12.1	19.4	33.9	36.3	53.2	84.7	133.1	295.3	680.1
35°	0.0	0.0	9.7	26.6	26.6	43.6	77.5	128.3	343.7	772.1
37.5°	0.0	0.0	0.0	19.4	21.8	38.7	75.0	125.9	353.4	779.4
40°	0.0	0.0	0.0	14.5	16.9	36.3	75.0	128.3	319.5	762.4
42.5°	0.0	0.0	0.0	9.7	12.1	36.3	75.0	133.1	288.0	781.8
45°	0.0	0.0	0.0	7.3	9.7	38.7	72.6	130.7	271.1	883.4
47.5°	0.0	0.0	0.0	9.7	14.5	38.7	70.2	128.3	273.5	1219.9
50°	0.0	0.0	0.0	12.1	16.9	38.7	72.6	123.4	300.1	1875.8
52.5°	0.0	0.0	0.0	9.7	14.5	43.6	79.9	121.0	326.7	2439.7
55°	0.0	0.0	0.0	2.4	7.3	55.7	87.1	121.0	367.9	2580.1
57.5°	0.0	0.0	0.0	0.0	0.0	62.9	99.2	128.3	435.7	2524.4
58°	0.0	0.0	0.0	0.0	0.0	62.9	101.7	128.3	440.5	2476.0
60°	0.0	0.0	0.0	0.0	0.0	62.9	111.3	142.8	474.4	2204.9
62.5°	0.0	0.0	0.0	0.0	0.0	53.2	133.1	179.1	493.8	1733.0
65°	0.0	0.0	0.0	0.0	0.0	43.6	157.3	196.0	508.3	1379.6
67.5°	0.0	0.0	0.0	0.0	0.0	41.1	162.2	198.5	515.5	1098.8
70°	0.0	0.0	0.0	0.0	0.0	43.6	159.7	213.0	539.7	893.1
72.5°	0.0	0.0	0.0	0.0	0.0	48.4	145.2	234.8	539.7	791.5
75°	0.0	0.0	0.0	0.0	0.0	50.8	135.5	263.8	491.3	685.0
77.5°	0.0	0.0	0.0	0.0	0.0	48.4	133.1	307.4	438.1	563.9
80°	4.8	7.3	7.3	4.8	4.8	41.1	130.7	312.2	372.7	387.3
82.5°	14.5	19.4	16.9	12.1	12.1	36.3	116.2	261.4	193.6	167.0
85°	26.6	31.5	31.5	26.6	26.6	33.9	72.6	94.4	65.3	53.2
87.5°	36.3	41.1	41.1	36.3	36.3	33.9	31.5	29.0	26.6	26.6
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

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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

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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			

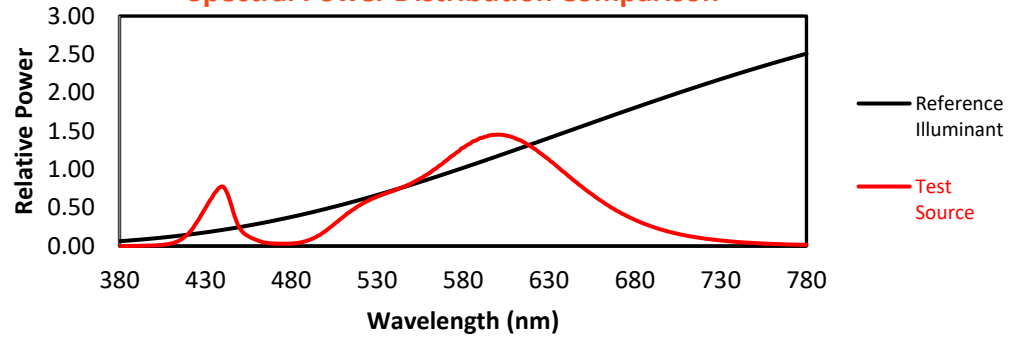
REPORT NUMBER: SP1-2407-184-3

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

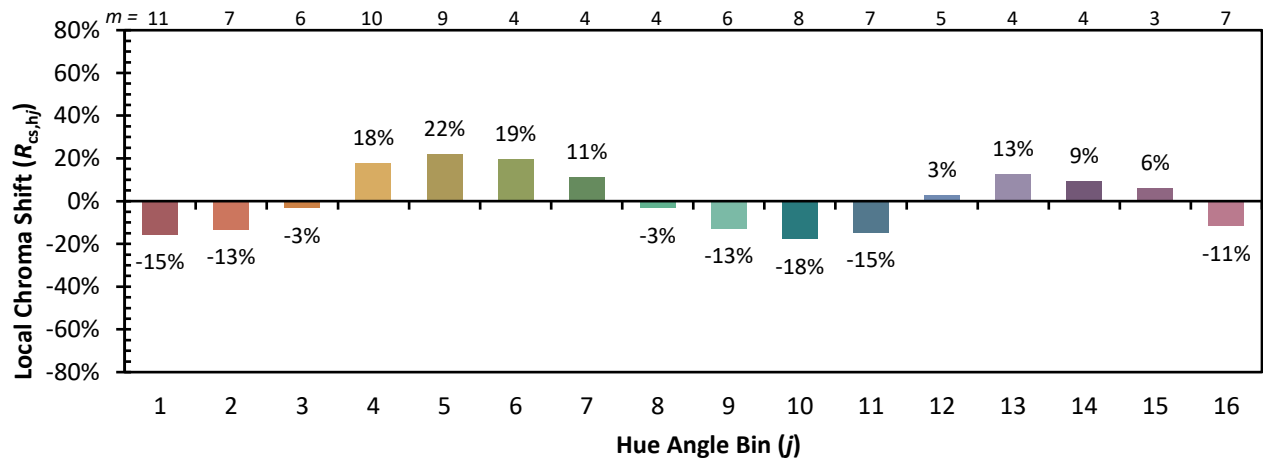


Individual Sample Fidelity Index ($R_{f,i}$)

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)