

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: LUMARK

Report Number: P1067937

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

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067937
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-727-U-LBC
Description: Navion 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: 15430.8 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 161.6
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



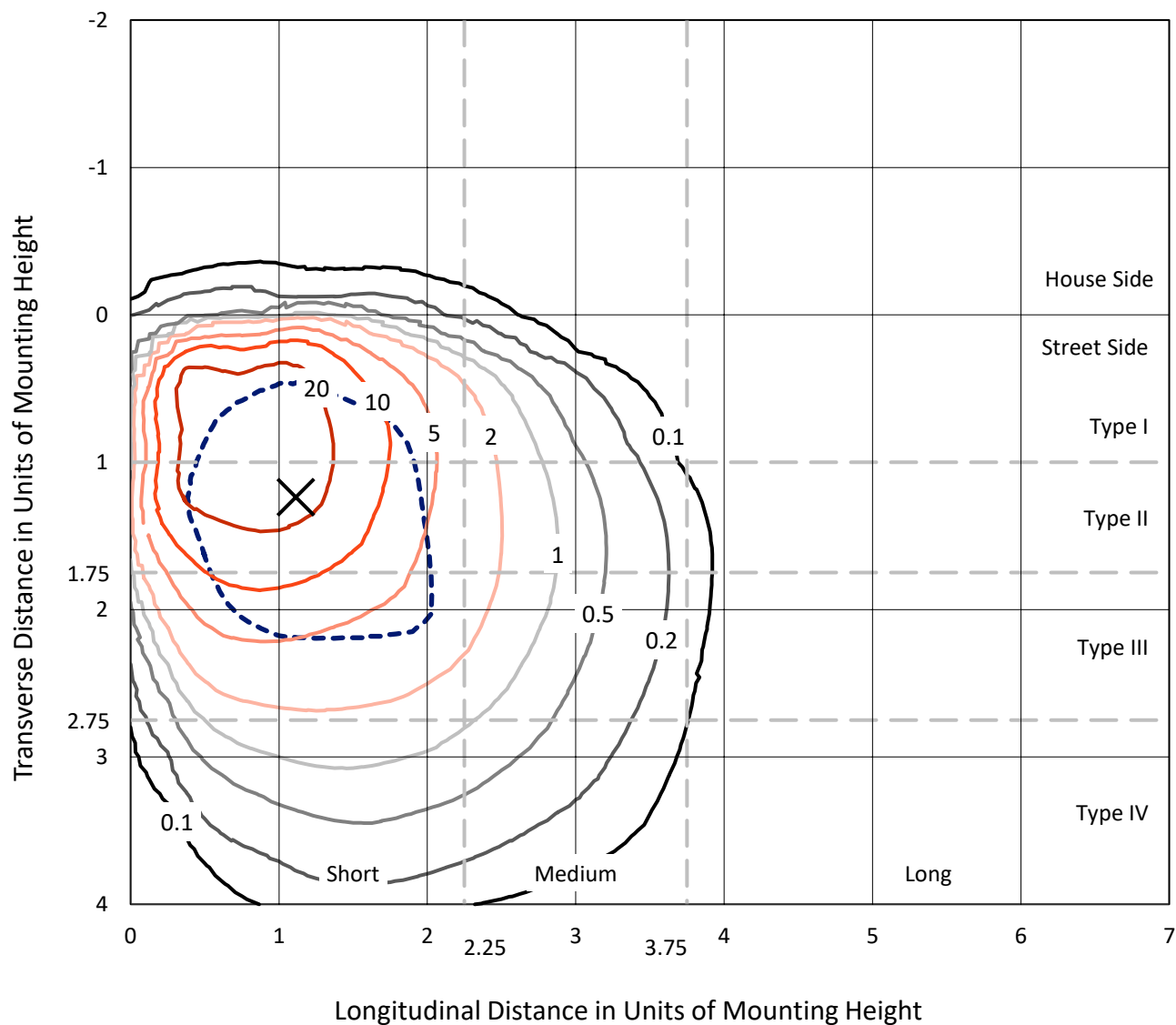
REPORT NUMBER: P1067937

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

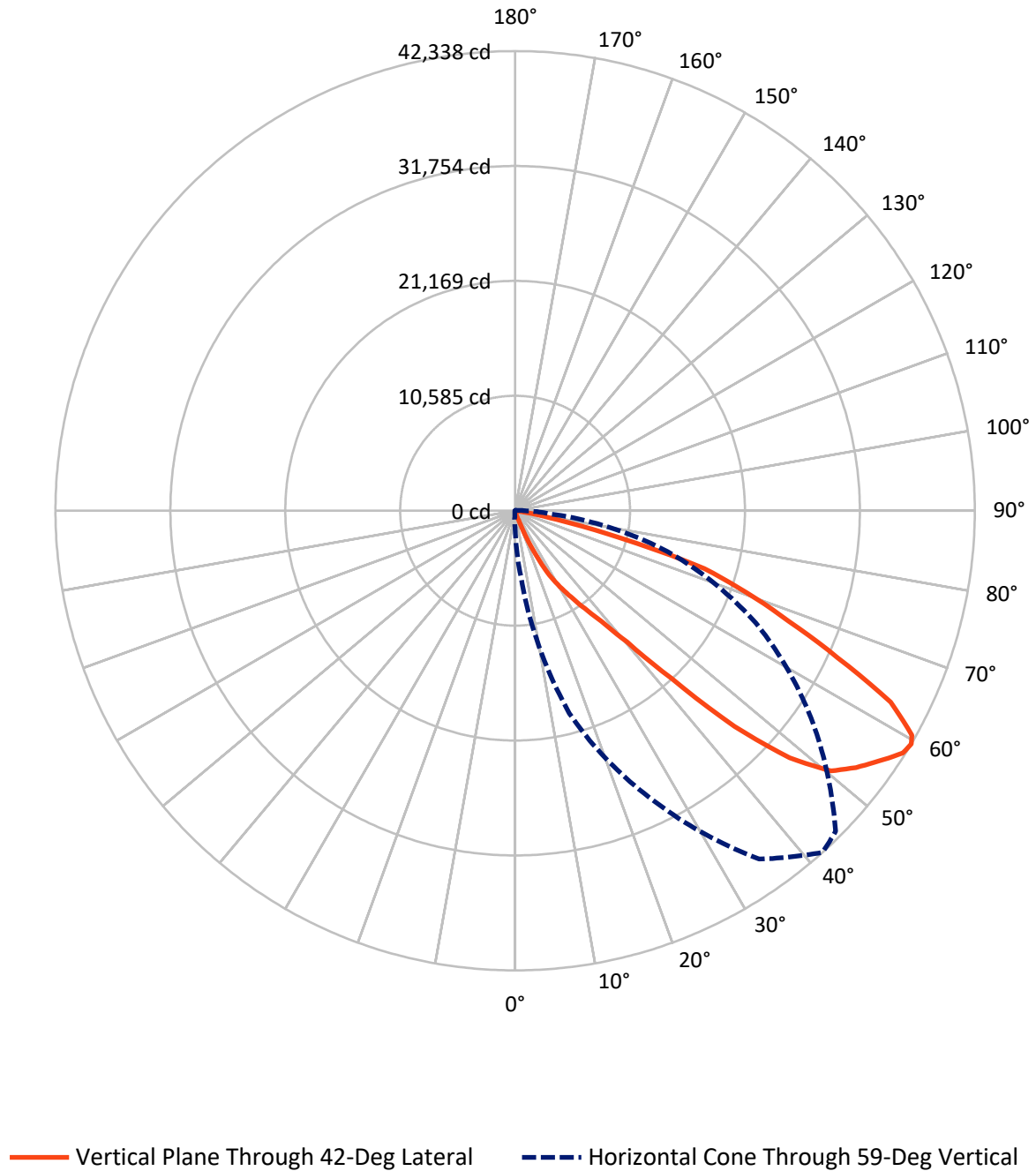


Based on 15 foot mounting height. Maximum calculated value = 45.8 fc
 Type III - Short - N/A

REPORT NUMBER: P1067937

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

Luminous Intensity Polar Plot



REPORT NUMBER: P1067937

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	74.3	0.0	74.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15356.5	0.0	15356.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	15430.8	0.0	15430.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	22.5	0.1
20°-30°	287.8	1.9
30°-40°	970.4	6.3
40°-50°	2931.0	19.0
50°-60°	5174.0	33.5
60°-70°	4555.8	29.5
70°-80°	1450.1	9.4
80°-90°	34.7	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°	15430.8	100.0
0°-180°	15430.8	100.0



REPORT NUMBER: P1067937

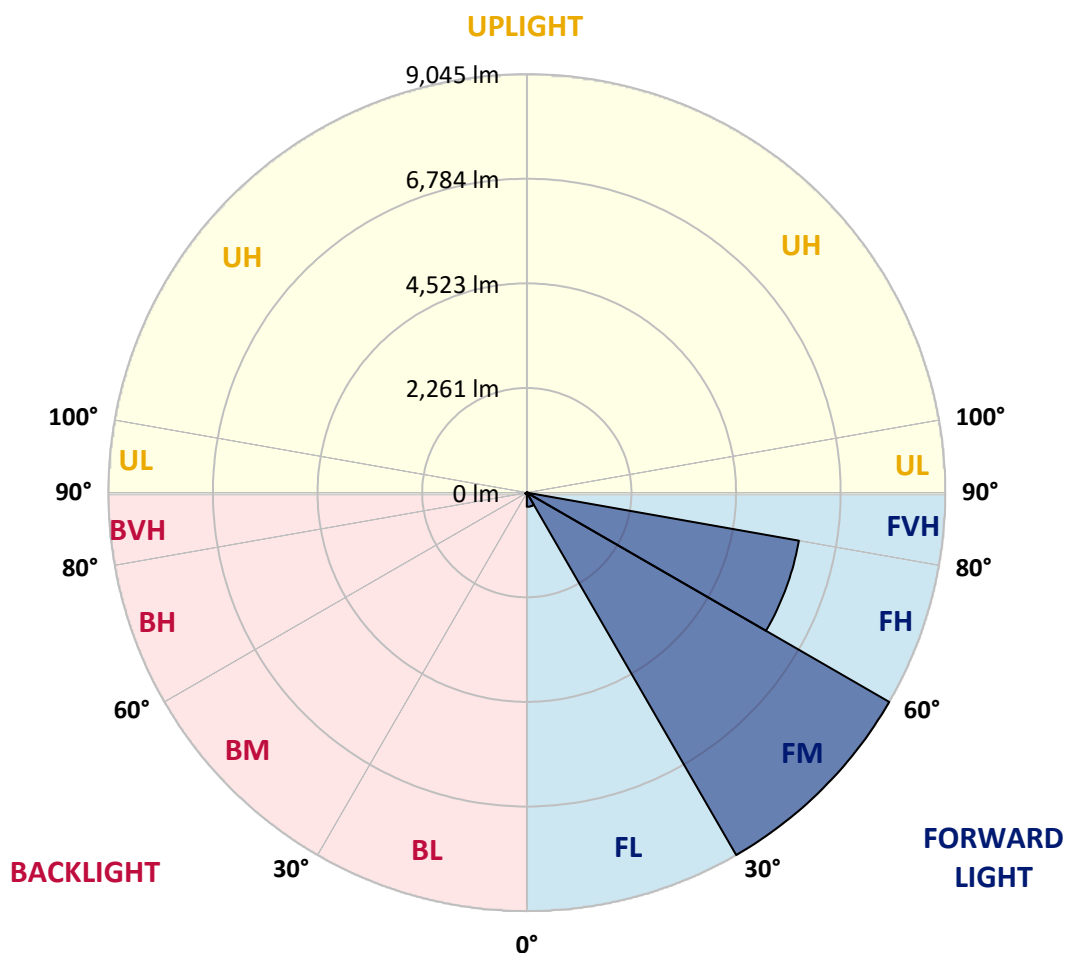
CATALOG NUMBER: NAV-SA6A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.6	2.0			
FM	(30°-60°)	9045.0	58.6			
FH	(60°-80°)	5971.9	38.7			G3/7500
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	8.3	0.1	B0/110		
BM	(30°-60°)	30.4	0.2	B0/220		
BH	(60°-80°)	34.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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: P1067937

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	67.7	67.7	62.9	58.1	53.2	48.4	48.4	48.4	43.5	43.5	38.7
5°	77.4	77.4	72.6	67.7	67.7	62.9	62.9	58.1	53.2	53.2	48.4
7.5°	82.2	82.2	82.2	82.2	77.4	77.4	77.4	72.6	67.7	62.9	58.1
10°	87.1	91.9	96.8	96.8	96.8	96.8	96.8	91.9	82.2	77.4	67.7
12.5°	96.8	101.6	111.3	121.0	121.0	125.8	121.0	116.1	106.4	91.9	77.4
15°	106.4	116.1	130.6	150.0	169.3	174.2	174.2	159.7	140.3	111.3	91.9
17.5°	121.0	135.5	174.2	237.1	304.8	358.0	358.0	319.3	222.6	145.1	106.4
20°	130.6	159.7	280.6	570.9	870.9	1093.4	1049.9	928.9	498.3	227.4	116.1
22.5°	145.1	203.2	595.1	1499.8	2322.3	2728.7	2631.9	1998.1	1117.6	406.4	140.3
25°	164.5	295.1	1180.5	2810.9	4315.6	4755.8	4692.9	3730.2	2036.8	682.2	179.0
27.5°	203.2	435.4	1891.7	4262.4	6366.9	6744.3	6720.1	5462.2	3256.0	1098.2	232.2
30°	256.4	633.8	2806.1	5791.2	7726.4	8108.6	7987.7	6729.8	4393.0	1678.8	300.0
32.5°	319.3	885.4	3633.4	6918.5	8979.5	9482.6	9337.5	7832.9	5307.4	2172.3	445.1
35°	416.1	1132.1	4451.0	7915.1	10426.1	11064.7	10822.8	8969.8	6096.0	2728.7	537.0
37.5°	464.5	1277.3	5200.9	8998.8	12051.7	12922.5	12738.7	10406.7	6899.1	3439.9	658.0
40°	469.3	1451.4	5979.9	10411.6	14349.8	15902.8	15573.8	12874.1	8394.1	4354.3	846.7
42.5°	483.8	1712.7	6991.0	12820.9	18863.7	21094.1	20721.5	17412.3	11785.6	6187.9	1199.8
45°	551.5	2206.2	9052.1	17325.2	25061.3	28331.8	27901.2	23735.7	16522.1	9637.5	2046.5
47.5°	788.6	3318.9	12666.1	22187.5	31399.2	34006.9	33900.5	28718.9	20813.4	13174.1	3468.9
50°	1267.6	5094.5	16778.5	26275.6	35434.1	37674.2	37408.1	30799.3	23261.5	15588.3	4446.2
52.5°	1693.3	6792.7	19362.0	27780.3	36638.8	39309.5	38985.3	31558.8	23905.0	16299.5	4717.1
55°	1799.8	7407.1	20131.3	28244.7	37437.1	40693.1	40223.9	32066.8	23987.2	15791.5	4267.2
57.5°	1746.5	6826.5	19633.0	28699.5	38549.9	42115.5	41491.4	33058.6	24263.0	14930.3	3551.2
59°	1654.6	6110.5	19323.3	29062.4	39164.3	42338.1	41752.7	33276.4	24446.9	14538.4	3115.7
60°	1548.2	5626.7	19081.4	29299.5	39125.6	41989.8	41385.0	33174.8	24519.4	14199.8	2907.7
62.5°	1195.0	4489.7	18733.1	29130.1	36682.4	38811.1	38467.6	30688.0	23455.0	13116.1	2293.3
65°	928.9	3435.0	17455.8	25980.5	31215.3	32647.4	32541.0	25985.4	19739.4	11306.6	1654.6
67.5°	735.4	2506.1	14761.0	21040.8	25114.5	27151.3	27073.9	21094.1	14983.6	8640.8	1190.2
70°	599.9	1785.3	10121.3	15864.1	20087.7	22651.9	22540.6	16976.8	11103.4	5481.6	866.0
72.5°	508.0	1141.8	6139.5	11959.7	16764.0	18229.9	17905.8	13696.6	8074.8	2985.1	687.0
75°	430.6	701.5	3043.2	7455.5	9985.8	9976.1	9652.0	7252.3	4334.9	1461.1	546.7
77.5°	348.3	493.5	1195.0	2046.5	3149.6	3899.5	3836.6	2569.0	1296.6	425.8	338.7
80°	227.4	232.2	319.3	561.2	866.0	957.9	1088.6	783.8	377.4	203.2	140.3
82.5°	101.6	111.3	145.1	183.8	183.8	169.3	150.0	111.3	82.2	67.7	33.9
85°	24.2	33.9	24.2	29.0	24.2	19.4	19.4	9.7	0.0	0.0	0.0
87.5°	4.8	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: P1067937

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	38.7	38.7	38.7	33.9	33.9	33.9	29.0	29.0	29.0	24.2	24.2
5°	48.4	43.5	38.7	38.7	33.9	33.9	29.0	24.2	24.2	24.2	19.4
7.5°	53.2	48.4	43.5	38.7	33.9	29.0	29.0	24.2	19.4	19.4	19.4
10°	62.9	58.1	48.4	38.7	33.9	29.0	24.2	24.2	19.4	14.5	14.5
12.5°	72.6	62.9	53.2	43.5	33.9	29.0	24.2	24.2	19.4	14.5	9.7
15°	82.2	72.6	58.1	43.5	33.9	29.0	24.2	24.2	14.5	9.7	4.8
17.5°	91.9	77.4	58.1	48.4	33.9	29.0	24.2	19.4	9.7	4.8	0.0
20°	96.8	82.2	62.9	48.4	33.9	29.0	24.2	14.5	4.8	0.0	0.0
22.5°	106.4	91.9	67.7	48.4	33.9	24.2	14.5	4.8	0.0	0.0	0.0
25°	125.8	96.8	67.7	48.4	33.9	24.2	9.7	0.0	0.0	0.0	0.0
27.5°	140.3	106.4	67.7	48.4	33.9	19.4	4.8	0.0	0.0	0.0	0.0
30°	164.5	116.1	72.6	48.4	33.9	14.5	4.8	0.0	0.0	0.0	0.0
32.5°	203.2	125.8	72.6	48.4	29.0	14.5	0.0	0.0	0.0	0.0	0.0
35°	246.7	145.1	72.6	48.4	29.0	14.5	0.0	0.0	0.0	0.0	0.0
37.5°	251.6	154.8	72.6	48.4	29.0	9.7	0.0	0.0	0.0	0.0	0.0
40°	261.3	145.1	77.4	48.4	29.0	9.7	0.0	0.0	0.0	0.0	0.0
42.5°	300.0	135.5	82.2	48.4	29.0	9.7	0.0	0.0	0.0	0.0	0.0
45°	445.1	140.3	82.2	53.2	29.0	14.5	0.0	0.0	0.0	0.0	0.0
47.5°	774.1	145.1	77.4	53.2	29.0	14.5	0.0	0.0	0.0	0.0	0.0
50°	991.8	169.3	77.4	58.1	33.9	9.7	0.0	0.0	0.0	0.0	0.0
52.5°	1054.7	198.4	77.4	62.9	43.5	4.8	0.0	0.0	0.0	0.0	0.0
55°	1025.7	232.2	82.2	67.7	53.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	948.3	251.6	87.1	72.6	58.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	866.0	266.1	101.6	77.4	58.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	798.3	280.6	106.4	82.2	58.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	643.5	300.0	116.1	96.8	48.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	561.2	314.5	121.0	106.4	43.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	512.8	324.2	130.6	111.3	38.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	474.1	319.3	140.3	106.4	33.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	430.6	304.8	169.3	96.8	29.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	387.0	275.8	183.8	87.1	19.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	280.6	232.2	169.3	77.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.0	125.8	121.0	58.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.2	29.0	24.2	14.5	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: P1067937

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	24.2	24.2	24.2	24.2	29.0	29.0	38.7	48.4	58.1	62.9	62.9
5°	19.4	19.4	19.4	19.4	19.4	24.2	29.0	38.7	53.2	58.1	58.1
7.5°	14.5	14.5	14.5	14.5	14.5	14.5	24.2	33.9	48.4	53.2	58.1
10°	14.5	9.7	9.7	4.8	4.8	9.7	14.5	29.0	43.5	48.4	53.2
12.5°	9.7	4.8	4.8	0.0	0.0	4.8	9.7	24.2	38.7	43.5	48.4
15°	4.8	0.0	0.0	0.0	0.0	0.0	4.8	19.4	33.9	38.7	48.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	29.0	38.7	43.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	24.2	33.9	38.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	19.4	29.0	33.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	19.4	24.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	14.5	19.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	14.5	19.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7	14.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7	14.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7	9.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
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: P1067937

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	67.7	67.7	62.9	58.1	58.1	58.1	62.9	67.7	67.7	67.7
5°	62.9	62.9	58.1	58.1	58.1	58.1	62.9	72.6	77.4	77.4
7.5°	62.9	62.9	58.1	58.1	58.1	58.1	62.9	72.6	77.4	82.2
10°	58.1	58.1	58.1	58.1	53.2	58.1	62.9	72.6	87.1	87.1
12.5°	58.1	58.1	58.1	58.1	53.2	58.1	67.7	77.4	91.9	96.8
15°	58.1	58.1	58.1	53.2	53.2	58.1	67.7	82.2	96.8	106.4
17.5°	53.2	58.1	58.1	53.2	53.2	58.1	67.7	82.2	106.4	121.0
20°	48.4	53.2	58.1	53.2	53.2	53.2	67.7	82.2	111.3	130.6
22.5°	43.5	48.4	53.2	53.2	48.4	53.2	67.7	87.1	121.0	145.1
25°	38.7	43.5	43.5	48.4	48.4	53.2	67.7	87.1	125.8	164.5
27.5°	29.0	33.9	38.7	43.5	43.5	53.2	67.7	91.9	135.5	203.2
30°	24.2	29.0	33.9	38.7	43.5	53.2	67.7	91.9	145.1	256.4
32.5°	24.2	29.0	33.9	38.7	43.5	48.4	67.7	96.8	159.7	319.3
35°	19.4	24.2	29.0	38.7	38.7	48.4	67.7	96.8	174.2	416.1
37.5°	19.4	24.2	29.0	38.7	38.7	48.4	67.7	96.8	212.9	464.5
40°	14.5	19.4	24.2	38.7	38.7	48.4	72.6	101.6	217.7	469.3
42.5°	14.5	19.4	24.2	33.9	38.7	48.4	72.6	101.6	203.2	483.8
45°	14.5	19.4	24.2	38.7	43.5	53.2	72.6	106.4	198.4	551.5
47.5°	14.5	19.4	24.2	38.7	48.4	53.2	72.6	106.4	203.2	788.6
50°	14.5	19.4	24.2	38.7	53.2	53.2	72.6	106.4	222.6	1267.6
52.5°	9.7	14.5	19.4	33.9	43.5	58.1	77.4	101.6	237.1	1693.3
55°	9.7	9.7	14.5	29.0	38.7	62.9	82.2	101.6	275.8	1799.8
57.5°	9.7	9.7	14.5	24.2	33.9	67.7	87.1	101.6	319.3	1746.5
59°	9.7	9.7	9.7	24.2	29.0	67.7	87.1	106.4	324.2	1654.6
60°	9.7	9.7	9.7	19.4	29.0	67.7	91.9	111.3	329.0	1548.2
62.5°	4.8	4.8	4.8	19.4	24.2	67.7	101.6	135.5	338.7	1195.0
65°	9.7	9.7	4.8	14.5	24.2	58.1	116.1	145.1	343.5	928.9
67.5°	9.7	9.7	9.7	19.4	24.2	58.1	121.0	150.0	343.5	735.4
70°	9.7	9.7	9.7	19.4	29.0	58.1	121.0	154.8	338.7	599.9
72.5°	9.7	9.7	9.7	19.4	29.0	53.2	111.3	159.7	324.2	508.0
75°	9.7	9.7	9.7	14.5	24.2	48.4	106.4	174.2	295.1	430.6
77.5°	9.7	9.7	9.7	9.7	19.4	38.7	96.8	193.5	261.3	348.3
80°	14.5	9.7	9.7	9.7	14.5	33.9	91.9	188.7	217.7	227.4
82.5°	14.5	9.7	9.7	4.8	9.7	24.2	72.6	145.1	111.3	101.6
85°	9.7	9.7	9.7	4.8	4.8	14.5	33.9	43.5	33.9	24.2
87.5°	9.7	9.7	9.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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

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 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 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

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

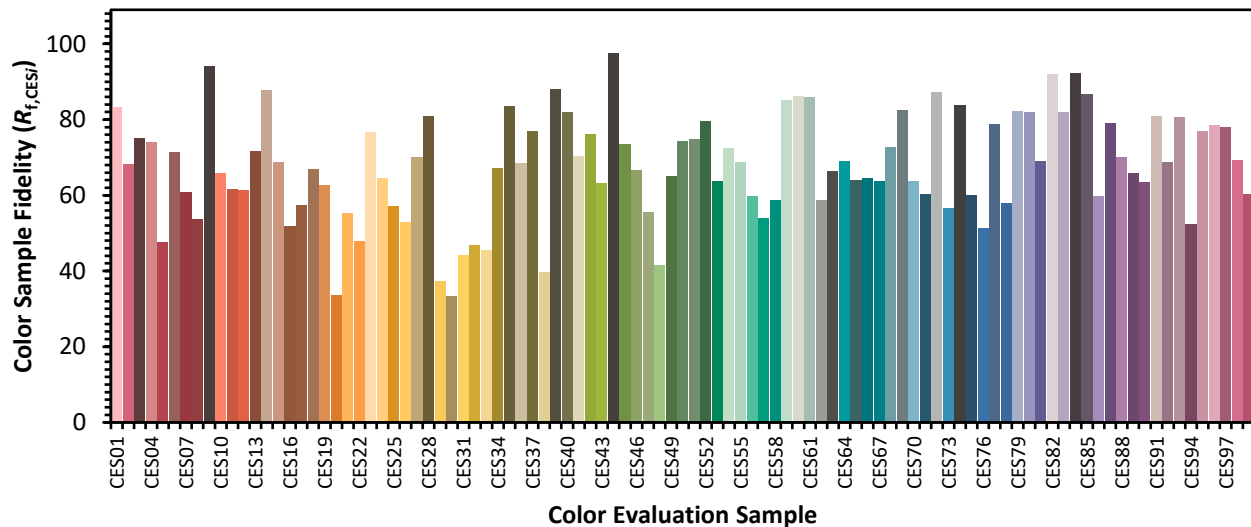


Color Vector Graphics

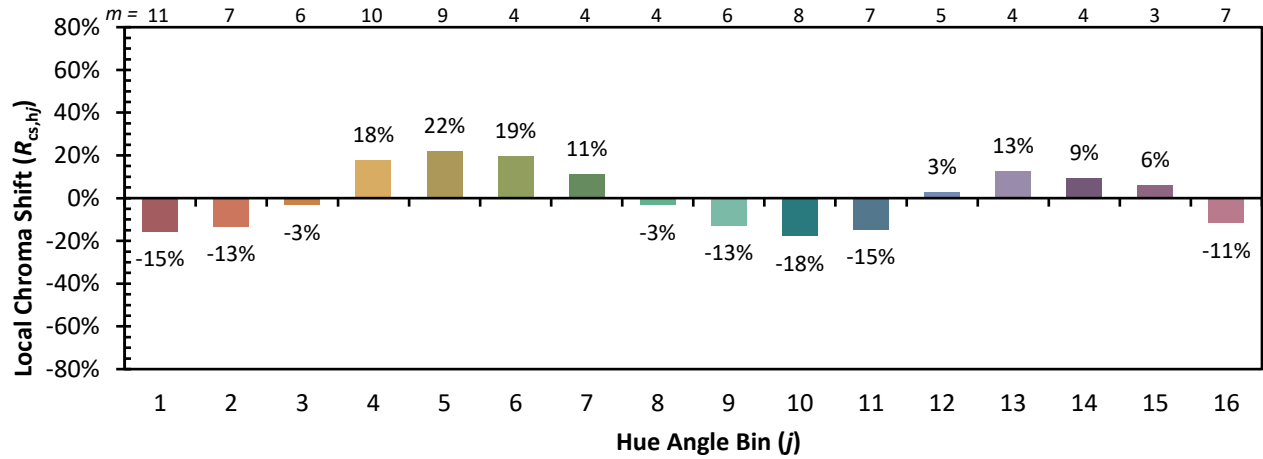


Individual Sample Fidelity Index ($R_{f,i}$)

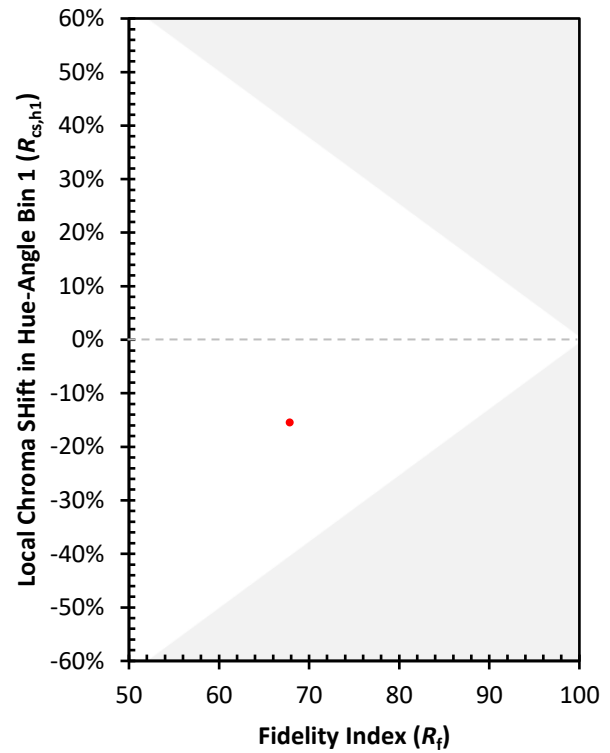
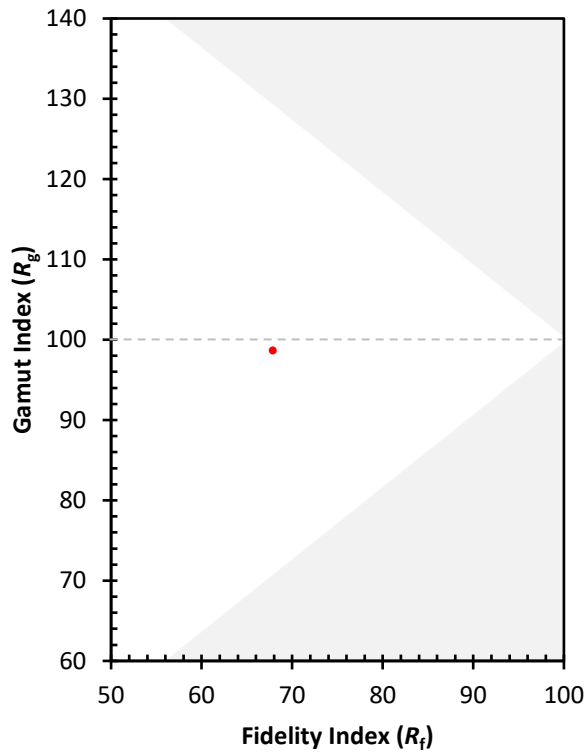
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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)