

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: P1068106

Luminaire Tested: **NAV-SA6B-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068106
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20233.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 211
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

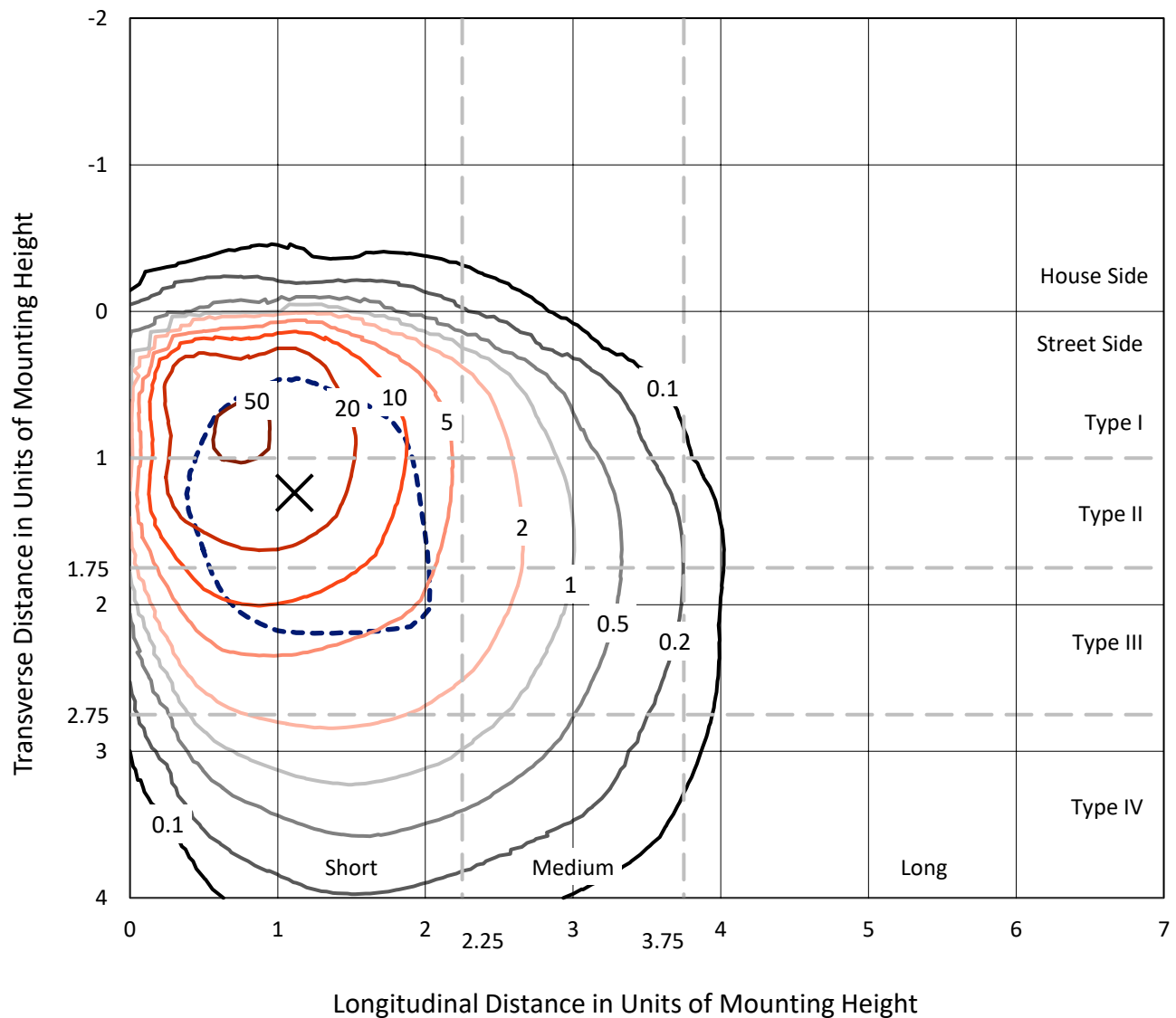


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

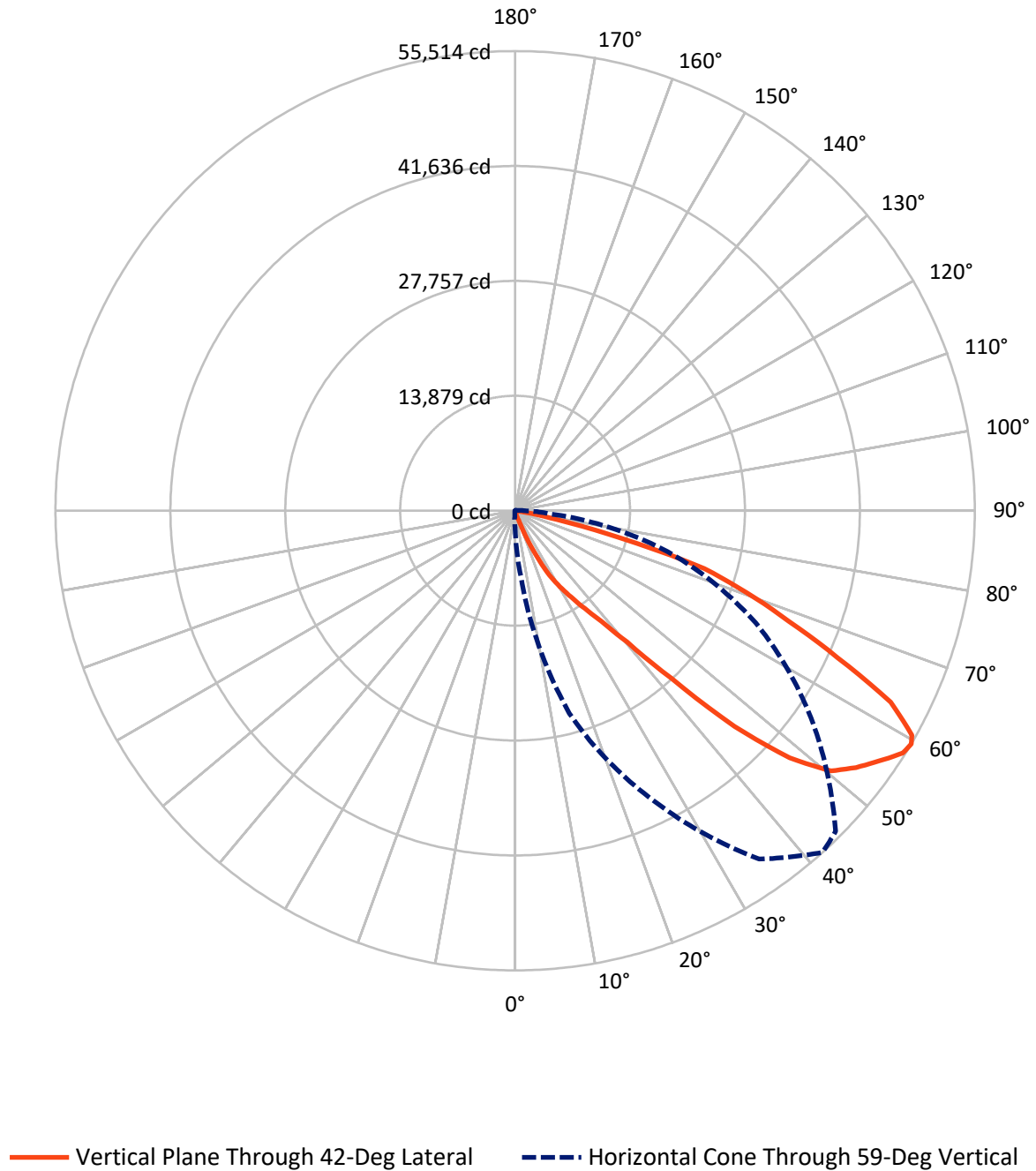


Based on 15 foot mounting height. Maximum calculated value = 60.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.5	0.0	97.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	20135.6	0.0	20135.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	20233.1	0.0	20233.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	29.5	0.1
20°-30°	377.4	1.9
30°-40°	1272.4	6.3
40°-50°	3843.2	19.0
50°-60°	6784.2	33.5
60°-70°	5973.6	29.5
70°-80°	1901.4	9.4
80°-90°	45.5	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°	20233.1	100.0
0°-180°	20233.1	100.0



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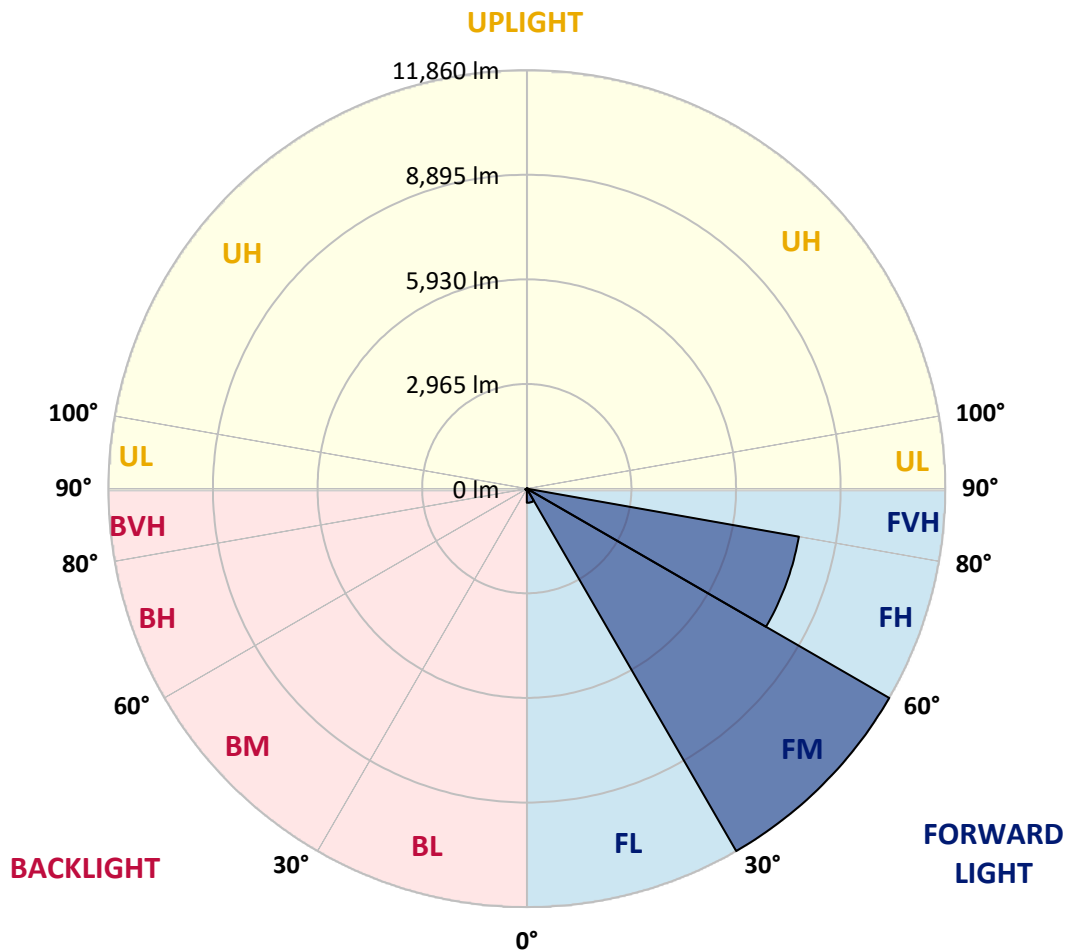
CATALOG NUMBER: NAV-SA6B-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.0	2.0			
FM	(30°-60°)	11859.9	58.6			
FH	(60°-80°)	7830.4	38.7			G4/12000
FVH	(80°-90°)	43.3	0.2			G1/100
BL	(0°-30°)	10.9	0.1	B0/110		
BM	(30°-60°)	39.8	0.2	B0/220		
BH	(60°-80°)	44.6	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°	42°	45°	55°	65°	75°	85°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	88.8	88.8	82.5	76.1	69.8	63.4	63.4	63.4	57.1	57.1	50.7
5°	101.5	101.5	95.2	88.8	88.8	82.5	82.5	76.1	69.8	69.8	63.4
7.5°	107.8	107.8	107.8	107.8	101.5	101.5	101.5	95.2	88.8	82.5	76.1
10°	114.2	120.5	126.9	126.9	126.9	126.9	126.9	120.5	107.8	101.5	88.8
12.5°	126.9	133.2	145.9	158.6	158.6	164.9	158.6	152.2	139.6	120.5	101.5
15°	139.6	152.2	171.3	196.7	222.0	228.4	228.4	209.3	184.0	145.9	120.5
17.5°	158.6	177.6	228.4	310.8	399.7	469.4	469.4	418.7	291.8	190.3	139.6
20°	171.3	209.3	367.9	748.6	1141.9	1433.7	1376.6	1218.0	653.4	298.2	152.2
22.5°	190.3	266.4	780.3	1966.6	3045.0	3577.9	3451.0	2620.0	1465.4	532.9	184.0
25°	215.7	387.0	1547.9	3685.7	5658.6	6235.9	6153.4	4891.0	2670.7	894.5	234.7
27.5°	266.4	570.9	2480.4	5588.8	8348.4	8843.2	8811.5	7162.1	4269.3	1440.0	304.5
30°	336.2	831.0	3679.4	7593.5	10131.0	10632.1	10473.5	8824.2	5760.1	2201.3	393.3
32.5°	418.7	1160.9	4764.2	9071.6	11774.0	12433.7	12243.4	10270.5	6959.1	2848.3	583.6
35°	545.6	1484.4	5836.2	10378.4	13670.8	14508.1	14191.0	11761.3	7993.1	3577.9	704.2
37.5°	609.0	1674.7	6819.5	11799.4	15802.3	16944.1	16703.1	13645.4	9046.2	4510.4	862.7
40°	615.3	1903.1	7840.9	13651.7	18815.6	20851.9	20420.5	16880.7	11006.4	5709.4	1110.2
42.5°	634.4	2245.7	9166.7	16810.9	24734.3	27658.7	27170.3	22831.1	15453.4	8113.7	1573.2
45°	723.2	2892.7	11869.1	22717.0	32860.6	37149.0	36584.4	31122.4	21663.9	12636.7	2683.4
47.5°	1034.0	4351.8	16607.9	29092.4	41170.9	44590.2	44450.6	37656.5	27290.8	17274.0	4548.5
50°	1662.1	6680.0	22000.1	34452.9	46461.6	49398.8	49049.8	40384.3	30500.7	20439.6	5829.9
52.5°	2220.3	8906.6	25387.7	36425.8	48041.2	51542.9	51117.9	41380.3	31344.5	21372.1	6185.2
55°	2359.9	9712.3	26396.3	37034.8	49087.9	53357.3	52741.9	42046.4	31452.3	20706.0	5595.2
57.5°	2290.1	8951.0	25742.9	37631.1	50547.0	55222.3	54404.0	43346.8	31813.9	19576.8	4656.3
59°	2169.6	8012.2	25336.9	38106.9	51352.6	55514.1	54746.5	43632.3	32055.0	19063.0	4085.4
60°	2030.0	7377.8	25019.7	38417.7	51301.9	55057.4	54264.4	43499.1	32150.1	18618.9	3812.6
62.5°	1566.9	5887.0	24563.0	38195.7	48098.3	50889.5	50439.1	40238.4	30754.5	17197.9	3006.9
65°	1218.0	4504.1	22888.2	34065.9	40929.9	42807.6	42668.0	34072.3	25882.5	14825.3	2169.6
67.5°	964.2	3286.1	19354.8	27589.0	32930.4	35601.1	35499.6	27658.7	19646.6	11329.9	1560.6
70°	786.6	2340.8	13271.1	20801.1	26339.2	29701.4	29555.5	22260.2	14558.9	7187.5	1135.5
72.5°	666.1	1497.1	8050.2	15681.7	21981.1	23903.2	23478.2	17959.1	10587.7	3914.1	900.8
75°	564.6	919.8	3990.2	9775.7	13093.5	13080.8	12655.8	9509.3	5684.0	1915.8	716.8
77.5°	456.7	647.1	1566.9	2683.4	4129.8	5113.1	5030.6	3368.5	1700.1	558.2	444.1
80°	298.2	304.5	418.7	735.9	1135.5	1256.1	1427.3	1027.7	494.8	266.4	184.0
82.5°	133.2	145.9	190.3	241.1	241.1	222.0	196.7	145.9	107.8	88.8	44.4
85°	31.7	44.4	31.7	38.1	31.7	25.4	25.4	12.7	0.0	0.0	0.0
87.5°	6.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	50.7	50.7	50.7	44.4	44.4	44.4	38.1	38.1	38.1	31.7	31.7
5°	63.4	57.1	50.7	50.7	44.4	44.4	38.1	31.7	31.7	31.7	25.4
7.5°	69.8	63.4	57.1	50.7	44.4	38.1	38.1	31.7	25.4	25.4	25.4
10°	82.5	76.1	63.4	50.7	44.4	38.1	31.7	31.7	25.4	19.0	19.0
12.5°	95.2	82.5	69.8	57.1	44.4	38.1	31.7	31.7	25.4	19.0	12.7
15°	107.8	95.2	76.1	57.1	44.4	38.1	31.7	31.7	19.0	12.7	6.3
17.5°	120.5	101.5	76.1	63.4	44.4	38.1	31.7	25.4	12.7	6.3	0.0
20°	126.9	107.8	82.5	63.4	44.4	38.1	31.7	19.0	6.3	0.0	0.0
22.5°	139.6	120.5	88.8	63.4	44.4	31.7	19.0	6.3	0.0	0.0	0.0
25°	164.9	126.9	88.8	63.4	44.4	31.7	12.7	0.0	0.0	0.0	0.0
27.5°	184.0	139.6	88.8	63.4	44.4	25.4	6.3	0.0	0.0	0.0	0.0
30°	215.7	152.2	95.2	63.4	44.4	19.0	6.3	0.0	0.0	0.0	0.0
32.5°	266.4	164.9	95.2	63.4	38.1	19.0	0.0	0.0	0.0	0.0	0.0
35°	323.5	190.3	95.2	63.4	38.1	19.0	0.0	0.0	0.0	0.0	0.0
37.5°	329.9	203.0	95.2	63.4	38.1	12.7	0.0	0.0	0.0	0.0	0.0
40°	342.6	190.3	101.5	63.4	38.1	12.7	0.0	0.0	0.0	0.0	0.0
42.5°	393.3	177.6	107.8	63.4	38.1	12.7	0.0	0.0	0.0	0.0	0.0
45°	583.6	184.0	107.8	69.8	38.1	19.0	0.0	0.0	0.0	0.0	0.0
47.5°	1015.0	190.3	101.5	69.8	38.1	19.0	0.0	0.0	0.0	0.0	0.0
50°	1300.5	222.0	101.5	76.1	44.4	12.7	0.0	0.0	0.0	0.0	0.0
52.5°	1382.9	260.1	101.5	82.5	57.1	6.3	0.0	0.0	0.0	0.0	0.0
55°	1344.9	304.5	107.8	88.8	69.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1243.4	329.9	114.2	95.2	76.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	1135.5	348.9	133.2	101.5	76.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1046.7	367.9	139.6	107.8	76.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	843.7	393.3	152.2	126.9	63.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	735.9	412.3	158.6	139.6	57.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	672.4	425.0	171.3	145.9	50.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	621.7	418.7	184.0	139.6	44.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	564.6	399.7	222.0	126.9	38.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	507.5	361.6	241.1	114.2	25.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	367.9	304.5	222.0	101.5	12.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.6	164.9	158.6	76.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	38.1	31.7	19.0	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°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	31.7	31.7	31.7	31.7	38.1	38.1	50.7	63.4	76.1	82.5	82.5
5°	25.4	25.4	25.4	25.4	25.4	31.7	38.1	50.7	69.8	76.1	76.1
7.5°	19.0	19.0	19.0	19.0	19.0	19.0	31.7	44.4	63.4	69.8	76.1
10°	19.0	12.7	12.7	6.3	6.3	12.7	19.0	38.1	57.1	63.4	69.8
12.5°	12.7	6.3	6.3	0.0	0.0	6.3	12.7	31.7	50.7	57.1	63.4
15°	6.3	0.0	0.0	0.0	0.0	0.0	6.3	25.4	44.4	50.7	63.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	38.1	50.7	57.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	31.7	44.4	50.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	25.4	38.1	44.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	25.4	31.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	19.0	25.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	19.0	25.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7	19.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7	19.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7	12.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3
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°	318°	325°	335°	345°	355°	360°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	88.8	88.8	82.5	76.1	76.1	76.1	82.5	88.8	88.8	88.8
5°	82.5	82.5	76.1	76.1	76.1	76.1	82.5	95.2	101.5	101.5
7.5°	82.5	82.5	76.1	76.1	76.1	76.1	82.5	95.2	101.5	107.8
10°	76.1	76.1	76.1	76.1	69.8	76.1	82.5	95.2	114.2	114.2
12.5°	76.1	76.1	76.1	76.1	69.8	76.1	88.8	101.5	120.5	126.9
15°	76.1	76.1	76.1	69.8	69.8	76.1	88.8	107.8	126.9	139.6
17.5°	69.8	76.1	76.1	69.8	69.8	76.1	88.8	107.8	139.6	158.6
20°	63.4	69.8	76.1	69.8	69.8	69.8	88.8	107.8	145.9	171.3
22.5°	57.1	63.4	69.8	69.8	63.4	69.8	88.8	114.2	158.6	190.3
25°	50.7	57.1	57.1	63.4	63.4	69.8	88.8	114.2	164.9	215.7
27.5°	38.1	44.4	50.7	57.1	57.1	69.8	88.8	120.5	177.6	266.4
30°	31.7	38.1	44.4	50.7	57.1	69.8	88.8	120.5	190.3	336.2
32.5°	31.7	38.1	44.4	50.7	57.1	63.4	88.8	126.9	209.3	418.7
35°	25.4	31.7	38.1	50.7	50.7	63.4	88.8	126.9	228.4	545.6
37.5°	25.4	31.7	38.1	50.7	50.7	63.4	88.8	126.9	279.1	609.0
40°	19.0	25.4	31.7	50.7	50.7	63.4	95.2	133.2	285.5	615.3
42.5°	19.0	25.4	31.7	44.4	50.7	63.4	95.2	133.2	266.4	634.4
45°	19.0	25.4	31.7	50.7	57.1	69.8	95.2	139.6	260.1	723.2
47.5°	19.0	25.4	31.7	50.7	63.4	69.8	95.2	139.6	266.4	1034.0
50°	19.0	25.4	31.7	50.7	69.8	69.8	95.2	139.6	291.8	1662.1
52.5°	12.7	19.0	25.4	44.4	57.1	76.1	101.5	133.2	310.8	2220.3
55°	12.7	12.7	19.0	38.1	50.7	82.5	107.8	133.2	361.6	2359.9
57.5°	12.7	12.7	19.0	31.7	44.4	88.8	114.2	133.2	418.7	2290.1
59°	12.7	12.7	12.7	31.7	38.1	88.8	114.2	139.6	425.0	2169.6
60°	12.7	12.7	12.7	25.4	38.1	88.8	120.5	145.9	431.4	2030.0
62.5°	6.3	6.3	6.3	25.4	31.7	88.8	133.2	177.6	444.1	1566.9
65°	12.7	12.7	6.3	19.0	31.7	76.1	152.2	190.3	450.4	1218.0
67.5°	12.7	12.7	12.7	25.4	31.7	76.1	158.6	196.7	450.4	964.2
70°	12.7	12.7	12.7	25.4	38.1	76.1	158.6	203.0	444.1	786.6
72.5°	12.7	12.7	12.7	25.4	38.1	69.8	145.9	209.3	425.0	666.1
75°	12.7	12.7	12.7	19.0	31.7	63.4	139.6	228.4	387.0	564.6
77.5°	12.7	12.7	12.7	12.7	25.4	50.7	126.9	253.7	342.6	456.7
80°	19.0	12.7	12.7	12.7	19.0	44.4	120.5	247.4	285.5	298.2
82.5°	19.0	12.7	12.7	6.3	12.7	31.7	95.2	190.3	145.9	133.2
85°	12.7	12.7	12.7	6.3	6.3	19.0	44.4	57.1	44.4	31.7
87.5°	12.7	12.7	12.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

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: SP1-2407-184-10

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

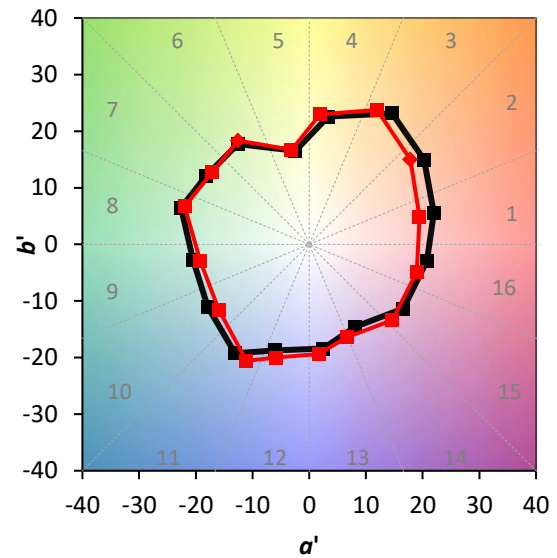
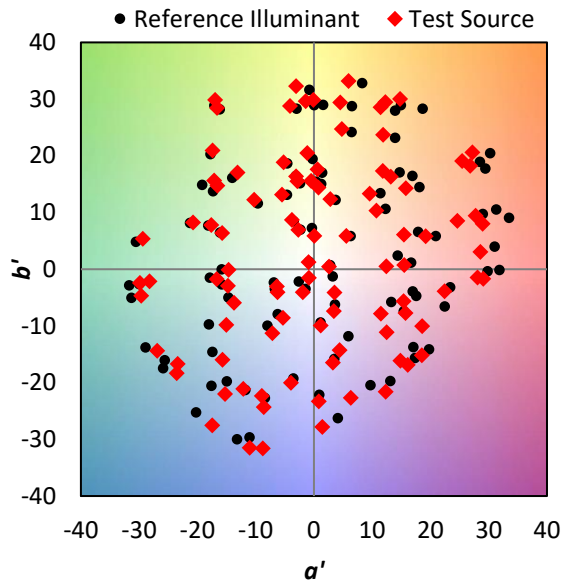
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE\ R_a = 83.5$
 $R_9 = 6.3$

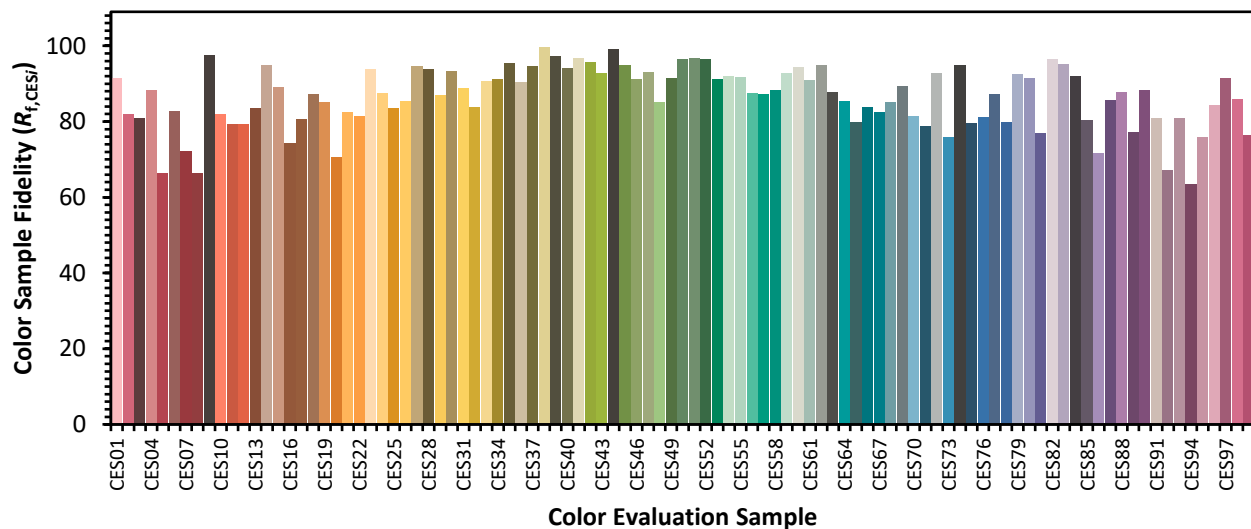


Color Vector Graphics

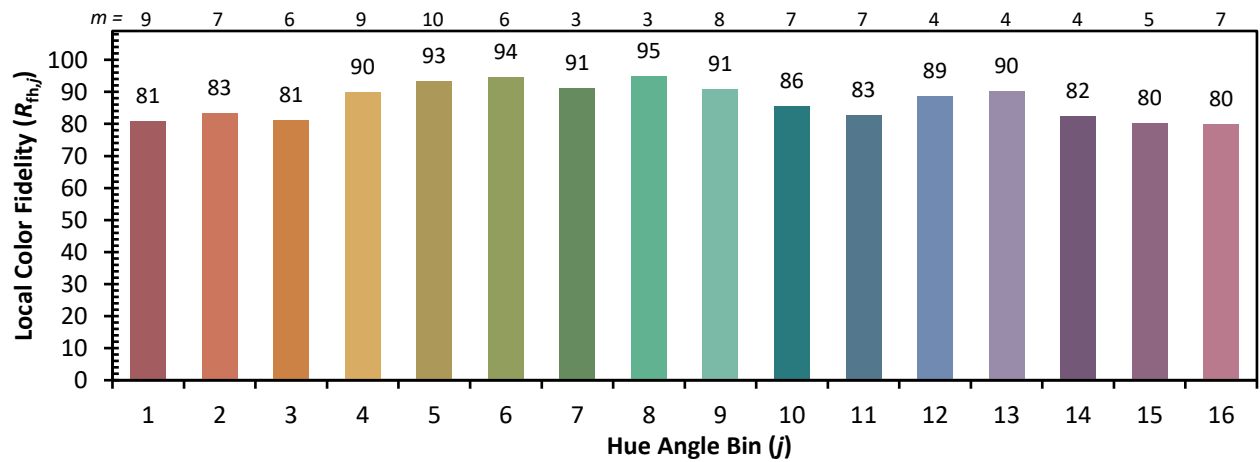
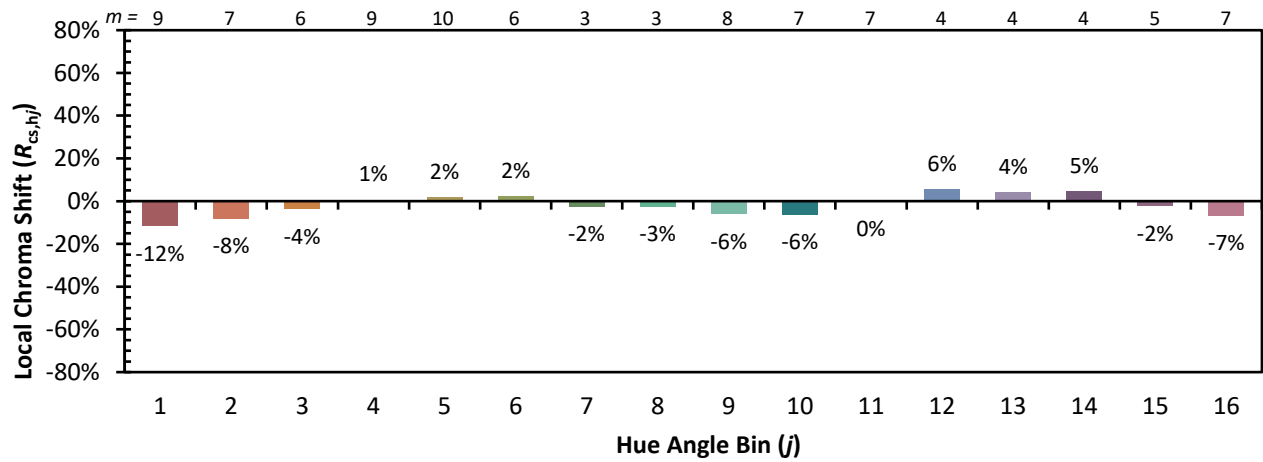


Individual Sample Fidelity Index ($R_{f,i}$)

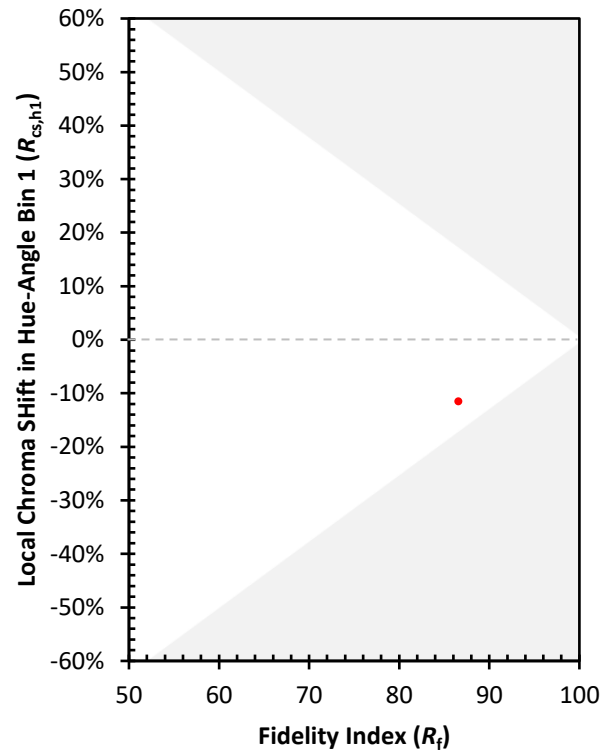
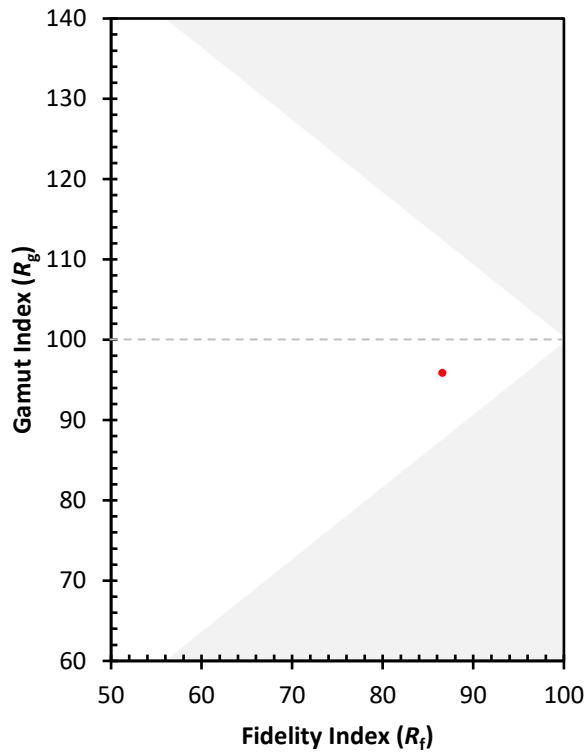
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)