

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: P1068108

Luminaire Tested: **NAV-SA6D-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068108
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6D-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 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: 27678.4 lumens
Efficiency: N/A
Efficacy: 86.4 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): 320.4
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



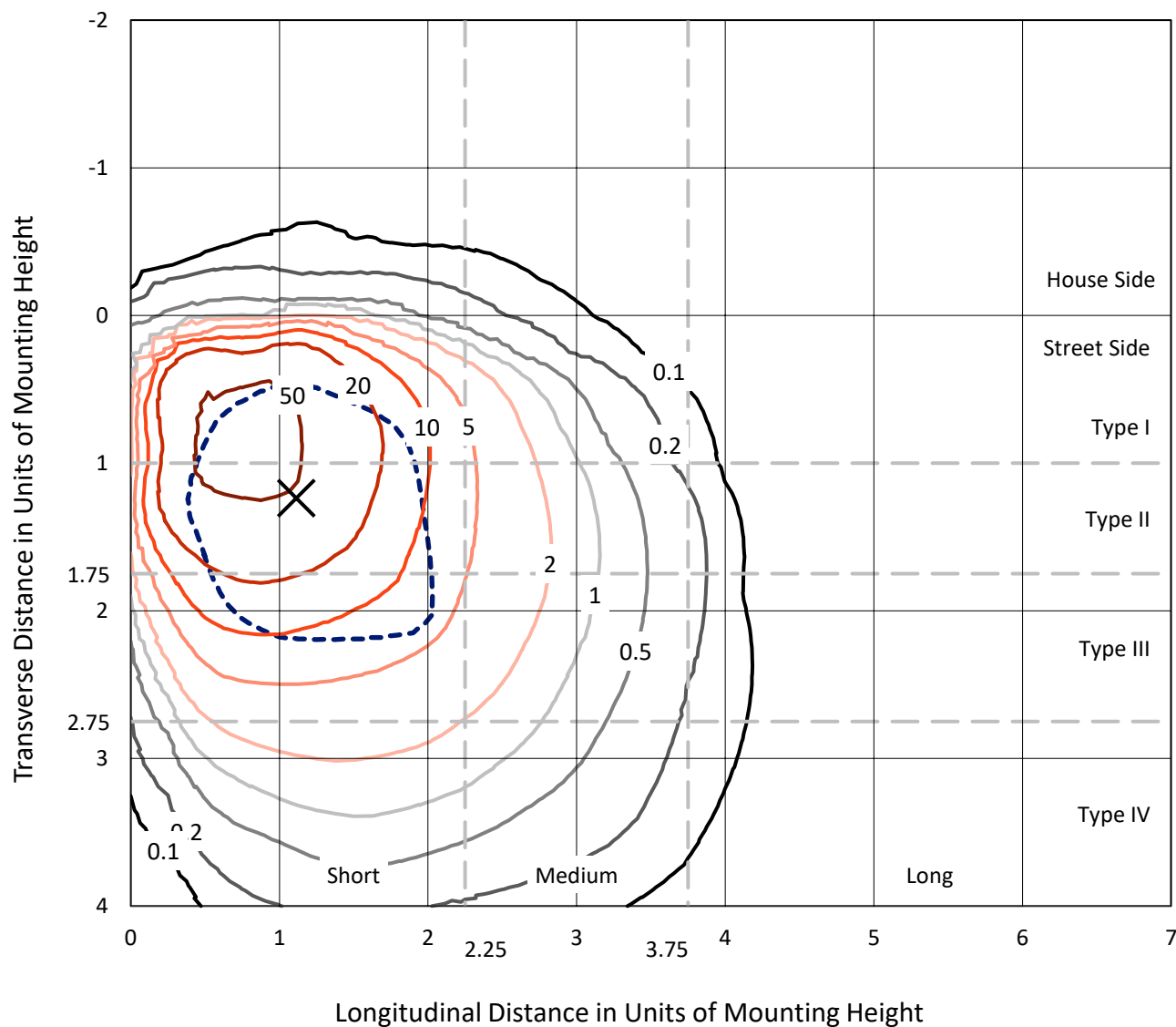
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

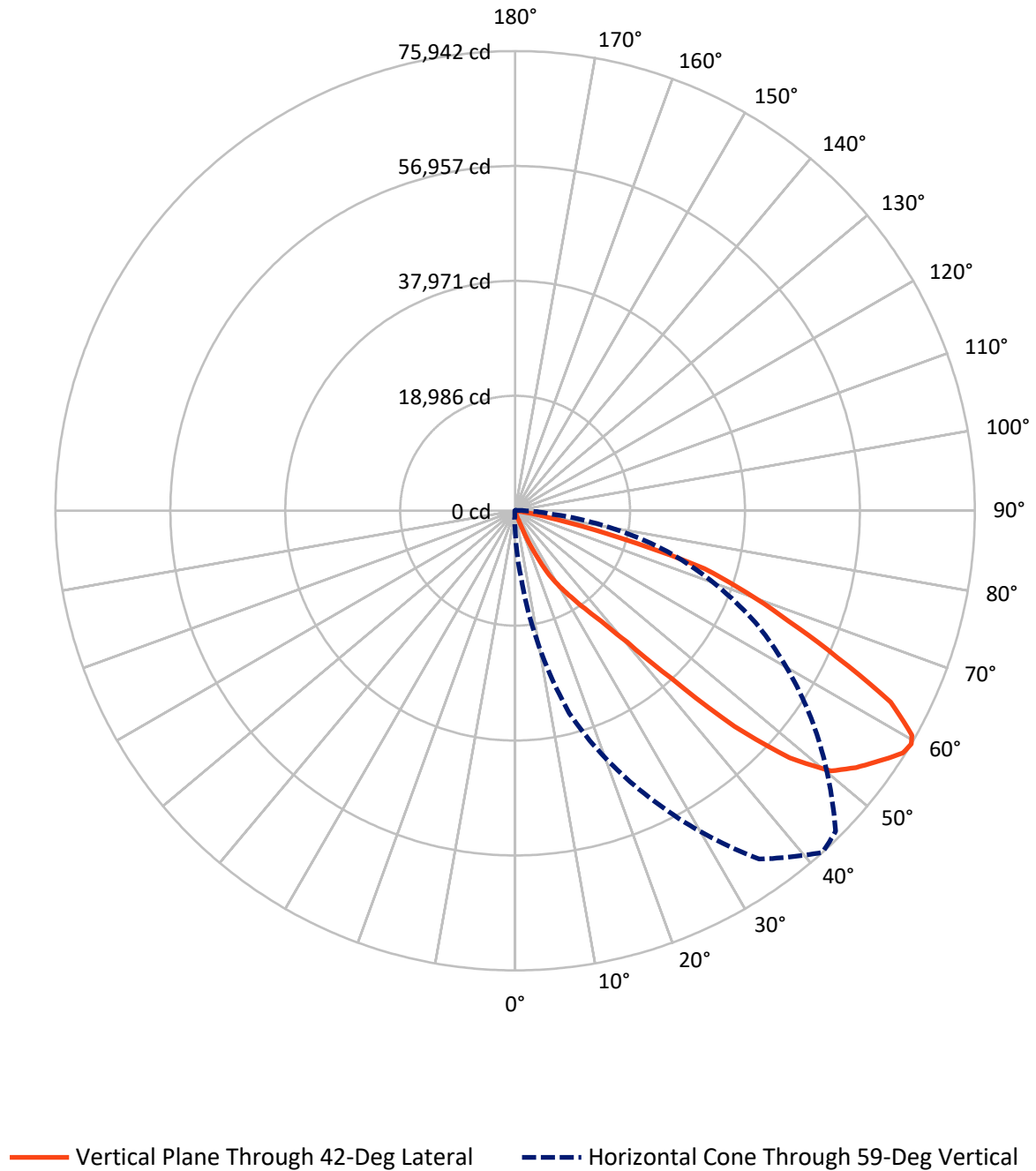


Based on 15 foot mounting height. Maximum calculated value = 82.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	133.4	0.0	133.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	27545.0	0.0	27545.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	27678.4	0.0	27678.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	40.4	0.1
20°-30°	516.3	1.9
30°-40°	1740.6	6.3
40°-50°	5257.4	19.0
50°-60°	9280.6	33.5
60°-70°	8171.7	29.5
70°-80°	2601.1	9.4
80°-90°	62.2	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°	27678.4	100.0
0°-180°	27678.4	100.0



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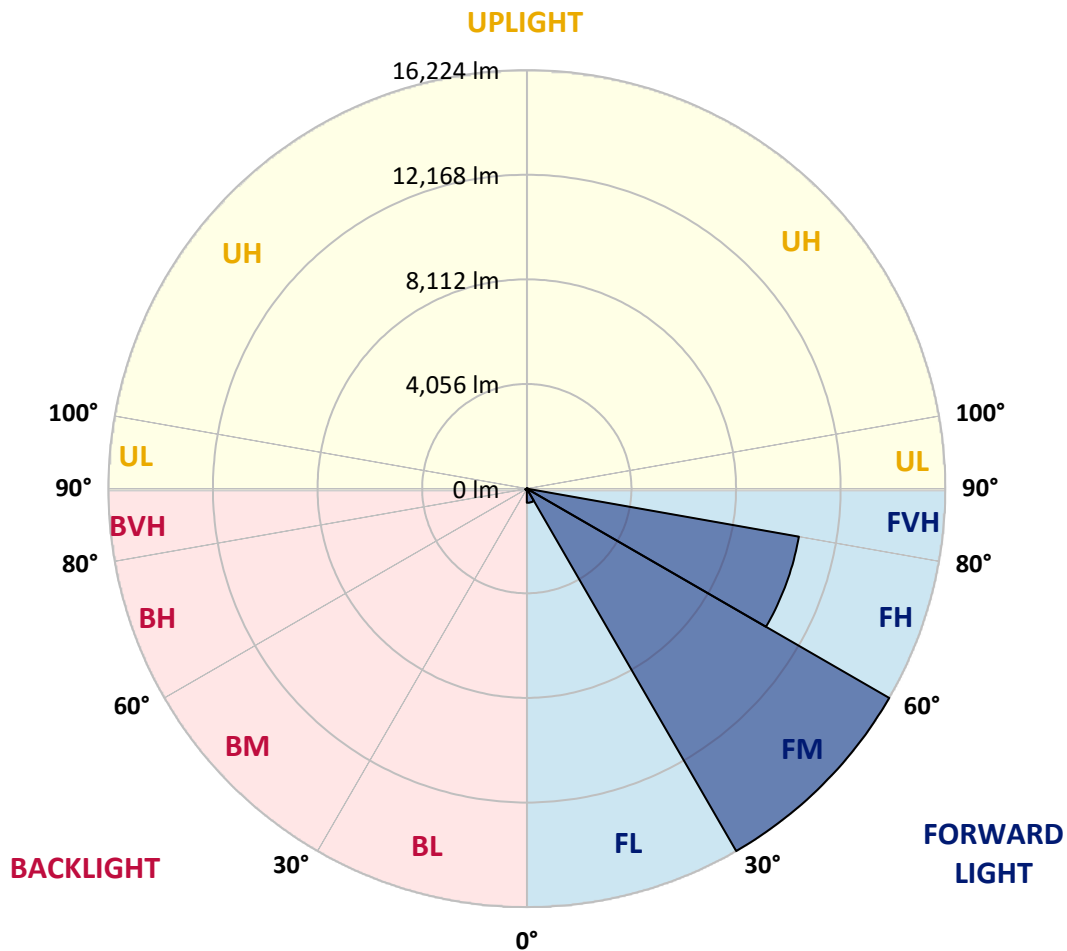
CATALOG NUMBER: NAV-SA6D-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.9	2.0			
FM	(30°-60°)	16224.1	58.6			
FH	(60°-80°)	10711.8	38.7			G4/12000
FVH	(80°-90°)	59.2	0.2			G1/100
BL	(0°-30°)	14.9	0.1	B0/110		
BM	(30°-60°)	54.5	0.2	B0/220		
BH	(60°-80°)	61.0	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	121.5	121.5	112.8	104.1	95.5	86.8	86.8	86.8	78.1	78.1	69.4
5°	138.8	138.8	130.2	121.5	121.5	112.8	112.8	104.1	95.5	95.5	86.8
7.5°	147.5	147.5	147.5	147.5	138.8	138.8	138.8	130.2	121.5	112.8	104.1
10°	156.2	164.9	173.6	173.6	173.6	173.6	173.6	164.9	147.5	138.8	121.5
12.5°	173.6	182.2	199.6	217.0	217.0	225.6	217.0	208.3	190.9	164.9	138.8
15°	190.9	208.3	234.3	269.0	303.7	312.4	312.4	286.4	251.7	199.6	164.9
17.5°	217.0	243.0	312.4	425.2	546.7	642.2	642.2	572.8	399.2	260.3	190.9
20°	234.3	286.4	503.3	1024.0	1562.1	1961.3	1883.1	1666.2	893.8	407.9	208.3
22.5°	260.3	364.5	1067.4	2690.2	4165.5	4894.5	4720.9	3584.1	2004.6	729.0	251.7
25°	295.1	529.4	2117.5	5042.0	7740.9	8530.6	8417.8	6690.8	3653.5	1223.6	321.1
27.5°	364.5	781.0	3393.1	7645.4	11420.4	12097.3	12053.9	9797.6	5840.4	1969.9	416.5
30°	459.9	1136.8	5033.3	10387.7	13858.9	14544.5	14327.5	12071.2	7879.7	3011.3	538.0
32.5°	572.8	1588.1	6517.3	12409.7	16106.6	17009.1	16748.7	14049.8	9519.9	3896.5	798.4
35°	746.3	2030.7	7983.9	14197.4	18701.3	19846.8	19412.9	16089.2	10934.4	4894.5	963.3
37.5°	833.1	2291.0	9329.0	16141.3	21617.2	23179.2	22849.4	18666.6	12375.0	6170.1	1180.2
40°	841.8	2603.4	10726.1	18675.3	25739.3	28524.9	27934.8	23092.4	15056.5	7810.3	1518.7
42.5°	867.8	3072.0	12539.9	22997.0	33835.9	37836.5	37168.3	31232.5	21139.9	11099.3	2152.2
45°	989.3	3957.2	16236.7	31076.3	44952.6	50819.0	50046.6	42574.8	29635.7	17286.8	3670.8
47.5°	1414.5	5953.2	22719.3	39797.8	56320.9	60998.4	60807.5	51513.2	37333.2	23630.5	6222.2
50°	2273.7	9138.0	30095.7	47130.8	63558.4	67576.4	67099.1	55244.8	41724.3	27960.8	7975.2
52.5°	3037.3	12184.1	34729.8	49829.7	65719.3	70509.6	69928.2	56607.3	42878.5	29236.5	8461.2
55°	3228.3	13286.2	36109.6	50662.8	67151.2	72991.5	72149.7	57518.5	43026.0	28325.3	7654.1
57.5°	3132.8	12244.8	35215.7	51478.5	69147.1	75542.9	74423.4	59297.5	43520.7	26780.6	6369.7
59°	2967.9	10960.4	34660.3	52129.4	70249.2	75942.1	74892.0	59688.0	43850.5	26077.7	5588.7
60°	2777.0	10092.6	34226.4	52554.6	70179.8	75317.3	74232.5	59505.8	43980.6	25470.2	5215.5
62.5°	2143.5	8053.3	33601.6	52250.9	65797.4	69615.7	68999.6	55045.2	42071.4	23526.3	4113.4
65°	1666.2	6161.5	31310.6	46601.4	55991.1	58559.8	58368.9	46610.1	35406.7	20280.7	2967.9
67.5°	1319.1	4495.3	26476.9	37741.1	45048.0	48701.5	48562.7	37836.5	26876.1	15499.1	2134.8
70°	1076.1	3202.2	18154.6	28455.5	36031.5	40630.9	40431.3	30451.5	19916.2	9832.3	1553.4
72.5°	911.2	2048.0	11012.5	21452.3	30069.6	32699.1	32117.7	24567.7	14483.8	5354.4	1232.3
75°	772.4	1258.3	5458.5	13373.0	17911.6	17894.2	17312.8	13008.5	7775.6	2620.8	980.6
77.5°	624.8	885.2	2143.5	3670.8	5649.4	6994.6	6881.7	4608.1	2325.7	763.7	607.5
80°	407.9	416.5	572.8	1006.7	1553.4	1718.3	1952.6	1405.9	676.9	364.5	251.7
82.5°	182.2	199.6	260.3	329.8	329.8	303.7	269.0	199.6	147.5	121.5	60.7
85°	43.4	60.7	43.4	52.1	43.4	34.7	34.7	17.4	0.0	0.0	0.0
87.5°	8.7	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°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	69.4	69.4	69.4	60.7	60.7	60.7	52.1	52.1	52.1	43.4	43.4
5°	86.8	78.1	69.4	69.4	60.7	60.7	52.1	43.4	43.4	43.4	34.7
7.5°	95.5	86.8	78.1	69.4	60.7	52.1	52.1	43.4	34.7	34.7	34.7
10°	112.8	104.1	86.8	69.4	60.7	52.1	43.4	43.4	34.7	26.0	26.0
12.5°	130.2	112.8	95.5	78.1	60.7	52.1	43.4	43.4	34.7	26.0	17.4
15°	147.5	130.2	104.1	78.1	60.7	52.1	43.4	43.4	26.0	17.4	8.7
17.5°	164.9	138.8	104.1	86.8	60.7	52.1	43.4	34.7	17.4	8.7	0.0
20°	173.6	147.5	112.8	86.8	60.7	52.1	43.4	26.0	8.7	0.0	0.0
22.5°	190.9	164.9	121.5	86.8	60.7	43.4	26.0	8.7	0.0	0.0	0.0
25°	225.6	173.6	121.5	86.8	60.7	43.4	17.4	0.0	0.0	0.0	0.0
27.5°	251.7	190.9	121.5	86.8	60.7	34.7	8.7	0.0	0.0	0.0	0.0
30°	295.1	208.3	130.2	86.8	60.7	26.0	8.7	0.0	0.0	0.0	0.0
32.5°	364.5	225.6	130.2	86.8	52.1	26.0	0.0	0.0	0.0	0.0	0.0
35°	442.6	260.3	130.2	86.8	52.1	26.0	0.0	0.0	0.0	0.0	0.0
37.5°	451.3	277.7	130.2	86.8	52.1	17.4	0.0	0.0	0.0	0.0	0.0
40°	468.6	260.3	138.8	86.8	52.1	17.4	0.0	0.0	0.0	0.0	0.0
42.5°	538.0	243.0	147.5	86.8	52.1	17.4	0.0	0.0	0.0	0.0	0.0
45°	798.4	251.7	147.5	95.5	52.1	26.0	0.0	0.0	0.0	0.0	0.0
47.5°	1388.5	260.3	138.8	95.5	52.1	26.0	0.0	0.0	0.0	0.0	0.0
50°	1779.0	303.7	138.8	104.1	60.7	17.4	0.0	0.0	0.0	0.0	0.0
52.5°	1891.8	355.8	138.8	112.8	78.1	8.7	0.0	0.0	0.0	0.0	0.0
55°	1839.8	416.5	147.5	121.5	95.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1700.9	451.3	156.2	130.2	104.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	1553.4	477.3	182.2	138.8	104.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1431.9	503.3	190.9	147.5	104.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1154.2	538.0	208.3	173.6	86.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1006.7	564.1	217.0	190.9	78.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	919.9	581.4	234.3	199.6	69.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	850.5	572.8	251.7	190.9	60.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	772.4	546.7	303.7	173.6	52.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	694.2	494.7	329.8	156.2	34.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	503.3	416.5	303.7	138.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	217.0	225.6	217.0	104.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	52.1	43.4	26.0	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°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	43.4	43.4	43.4	43.4	52.1	52.1	69.4	86.8	104.1	112.8	112.8
5°	34.7	34.7	34.7	34.7	34.7	43.4	52.1	69.4	95.5	104.1	104.1
7.5°	26.0	26.0	26.0	26.0	26.0	26.0	43.4	60.7	86.8	95.5	104.1
10°	26.0	17.4	17.4	8.7	8.7	17.4	26.0	52.1	78.1	86.8	95.5
12.5°	17.4	8.7	8.7	0.0	0.0	8.7	17.4	43.4	69.4	78.1	86.8
15°	8.7	0.0	0.0	0.0	0.0	0.0	8.7	34.7	60.7	69.4	86.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	52.1	69.4	78.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	43.4	60.7	69.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	34.7	52.1	60.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	34.7	43.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	26.0	34.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	26.0	34.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4	26.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4	26.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4	17.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7
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°	318°	325°	335°	345°	355°	360°
0°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	121.5	121.5	112.8	104.1	104.1	104.1	112.8	121.5	121.5	121.5
5°	112.8	112.8	104.1	104.1	104.1	104.1	112.8	130.2	138.8	138.8
7.5°	112.8	112.8	104.1	104.1	104.1	104.1	112.8	130.2	138.8	147.5
10°	104.1	104.1	104.1	104.1	95.5	104.1	112.8	130.2	156.2	156.2
12.5°	104.1	104.1	104.1	104.1	95.5	104.1	121.5	138.8	164.9	173.6
15°	104.1	104.1	104.1	95.5	95.5	104.1	121.5	147.5	173.6	190.9
17.5°	95.5	104.1	104.1	95.5	95.5	104.1	121.5	147.5	190.9	217.0
20°	86.8	95.5	104.1	95.5	95.5	95.5	121.5	147.5	199.6	234.3
22.5°	78.1	86.8	95.5	95.5	86.8	95.5	121.5	156.2	217.0	260.3
25°	69.4	78.1	78.1	86.8	86.8	95.5	121.5	156.2	225.6	295.1
27.5°	52.1	60.7	69.4	78.1	78.1	95.5	121.5	164.9	243.0	364.5
30°	43.4	52.1	60.7	69.4	78.1	95.5	121.5	164.9	260.3	459.9
32.5°	43.4	52.1	60.7	69.4	78.1	86.8	121.5	173.6	286.4	572.8
35°	34.7	43.4	52.1	69.4	69.4	86.8	121.5	173.6	312.4	746.3
37.5°	34.7	43.4	52.1	69.4	69.4	86.8	121.5	173.6	381.8	833.1
40°	26.0	34.7	43.4	69.4	69.4	86.8	130.2	182.2	390.5	841.8
42.5°	26.0	34.7	43.4	60.7	69.4	86.8	130.2	182.2	364.5	867.8
45°	26.0	34.7	43.4	69.4	78.1	95.5	130.2	190.9	355.8	989.3
47.5°	26.0	34.7	43.4	69.4	86.8	95.5	130.2	190.9	364.5	1414.5
50°	26.0	34.7	43.4	69.4	95.5	95.5	130.2	190.9	399.2	2273.7
52.5°	17.4	26.0	34.7	60.7	78.1	104.1	138.8	182.2	425.2	3037.3
55°	17.4	17.4	26.0	52.1	69.4	112.8	147.5	182.2	494.7	3228.3
57.5°	17.4	17.4	26.0	43.4	60.7	121.5	156.2	182.2	572.8	3132.8
59°	17.4	17.4	17.4	43.4	52.1	121.5	156.2	190.9	581.4	2967.9
60°	17.4	17.4	17.4	34.7	52.1	121.5	164.9	199.6	590.1	2777.0
62.5°	8.7	8.7	8.7	34.7	43.4	121.5	182.2	243.0	607.5	2143.5
65°	17.4	17.4	8.7	26.0	43.4	104.1	208.3	260.3	616.1	1666.2
67.5°	17.4	17.4	17.4	34.7	43.4	104.1	217.0	269.0	616.1	1319.1
70°	17.4	17.4	17.4	34.7	52.1	104.1	217.0	277.7	607.5	1076.1
72.5°	17.4	17.4	17.4	34.7	52.1	95.5	199.6	286.4	581.4	911.2
75°	17.4	17.4	17.4	26.0	43.4	86.8	190.9	312.4	529.4	772.4
77.5°	17.4	17.4	17.4	17.4	34.7	69.4	173.6	347.1	468.6	624.8
80°	26.0	17.4	17.4	17.4	26.0	60.7	164.9	338.4	390.5	407.9
82.5°	26.0	17.4	17.4	8.7	17.4	43.4	130.2	260.3	199.6	182.2
85°	17.4	17.4	17.4	8.7	8.7	26.0	60.7	78.1	60.7	43.4
87.5°	17.4	17.4	17.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7
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: SP1-2407-184-10

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 $\text{W}^\wedge/\text{nm}$	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			

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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			

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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			

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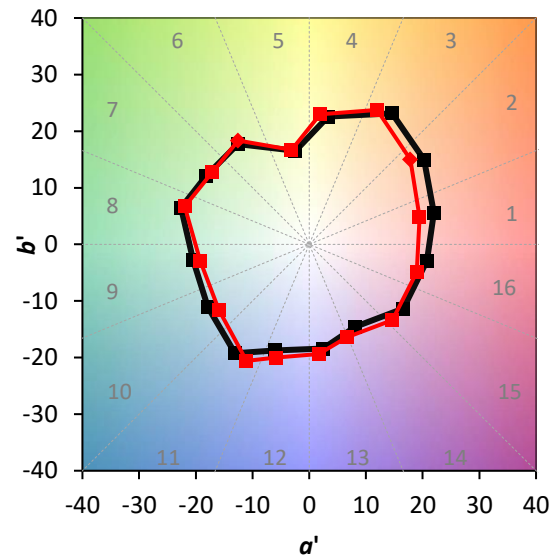
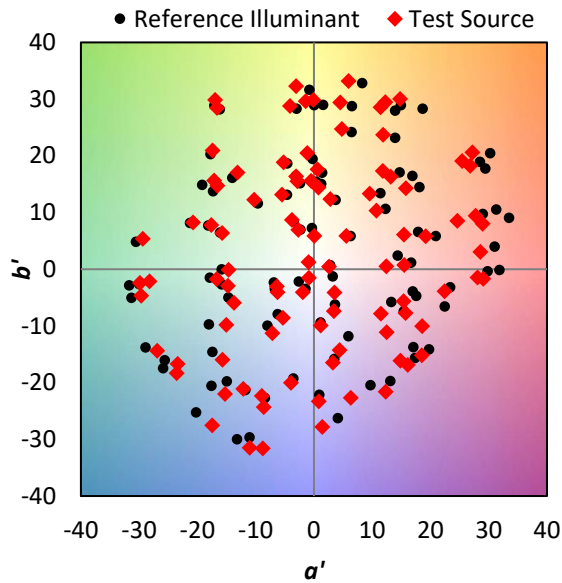
TM-30-18

Summary

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

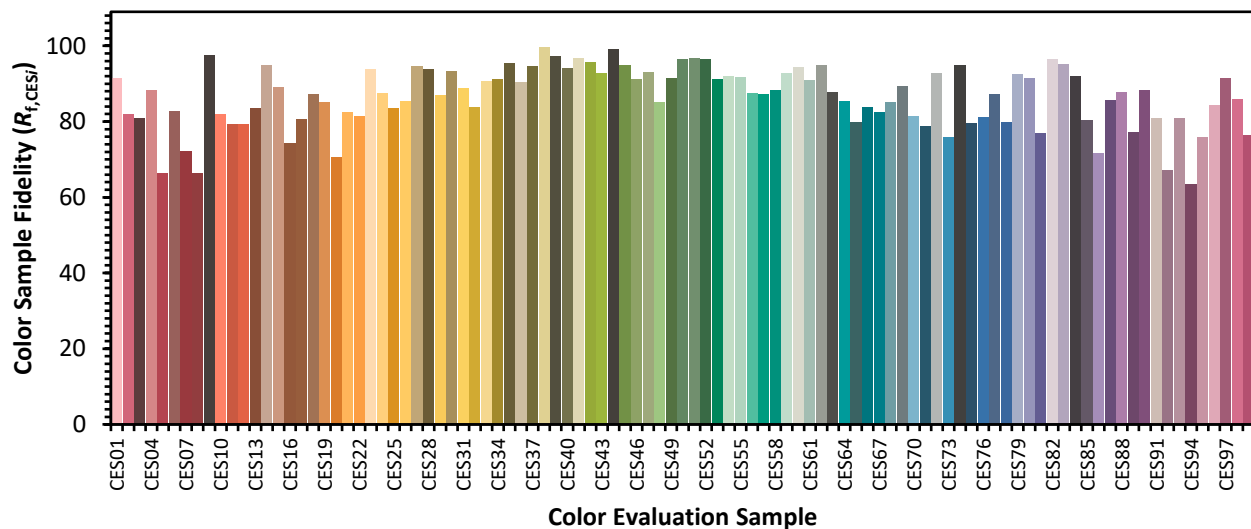


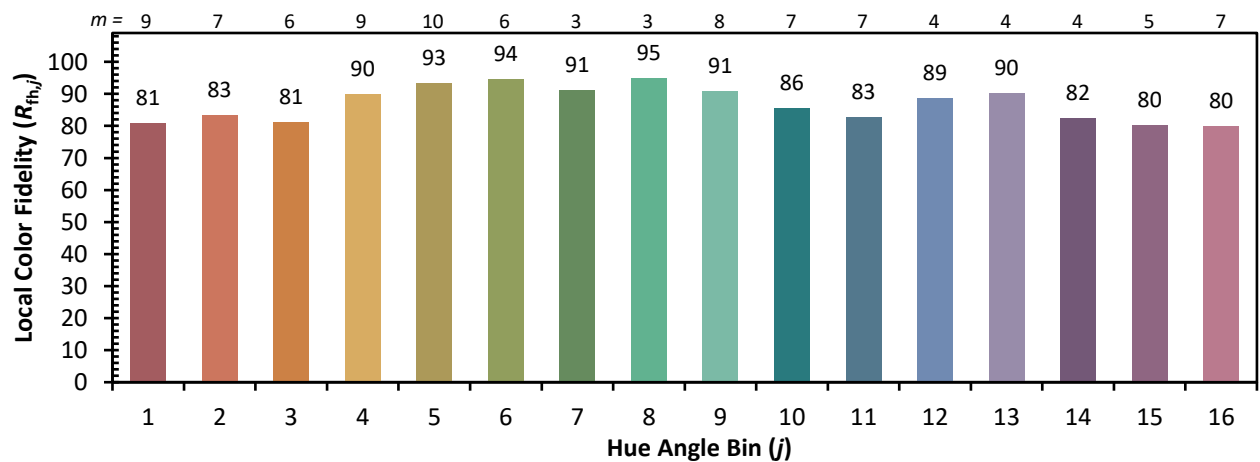
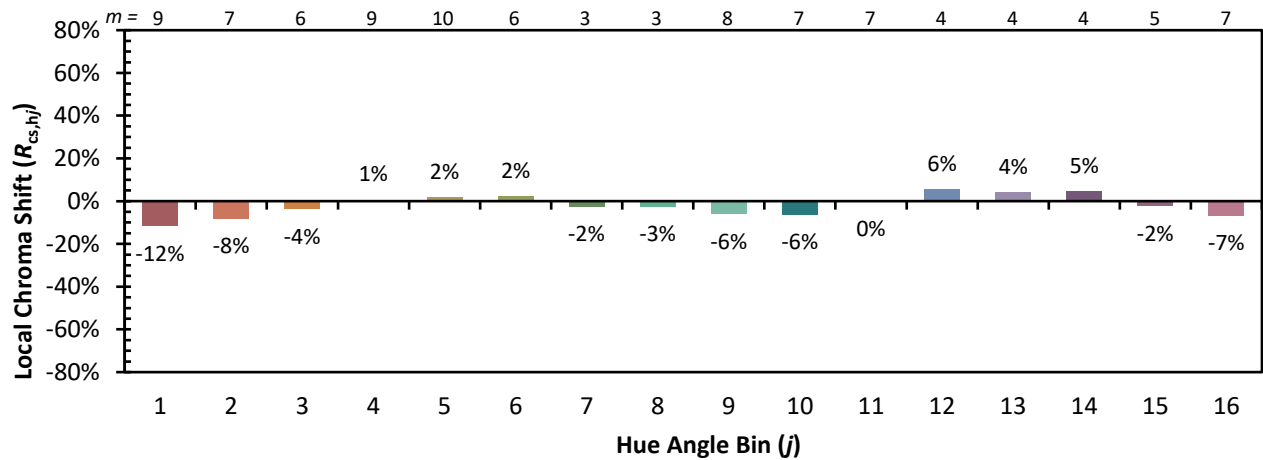
Color Vector Graphics



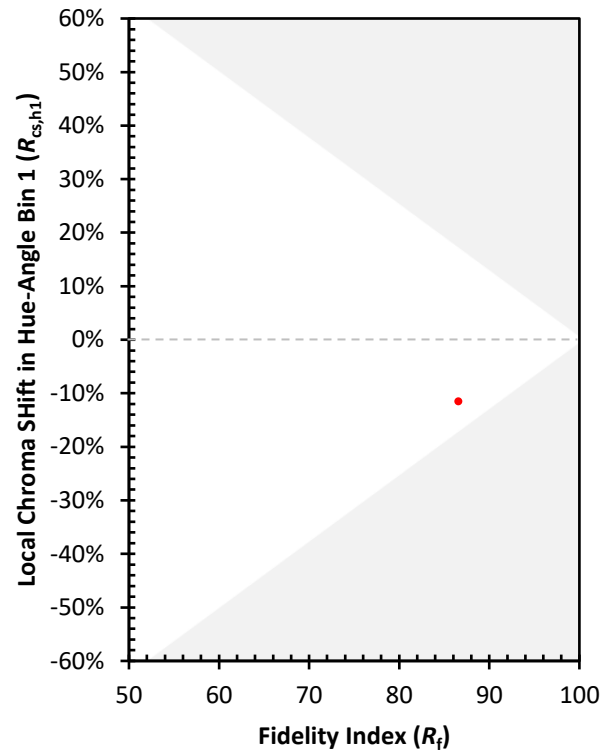
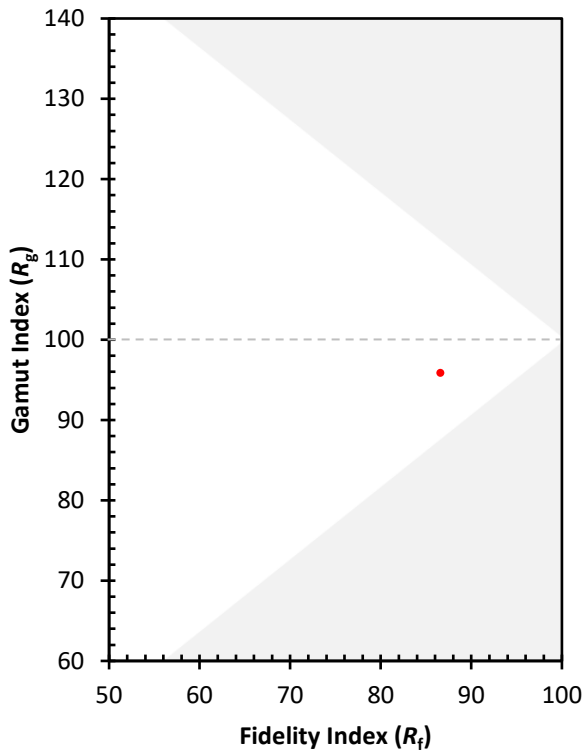
Individual Sample Fidelity Index ($R_{f,i}$)

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)