

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: P1068105

Luminaire Tested: **NAV-SA6A-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068105
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 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: 16187.7 lumens
Efficiency: N/A
Efficacy: 100.2 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

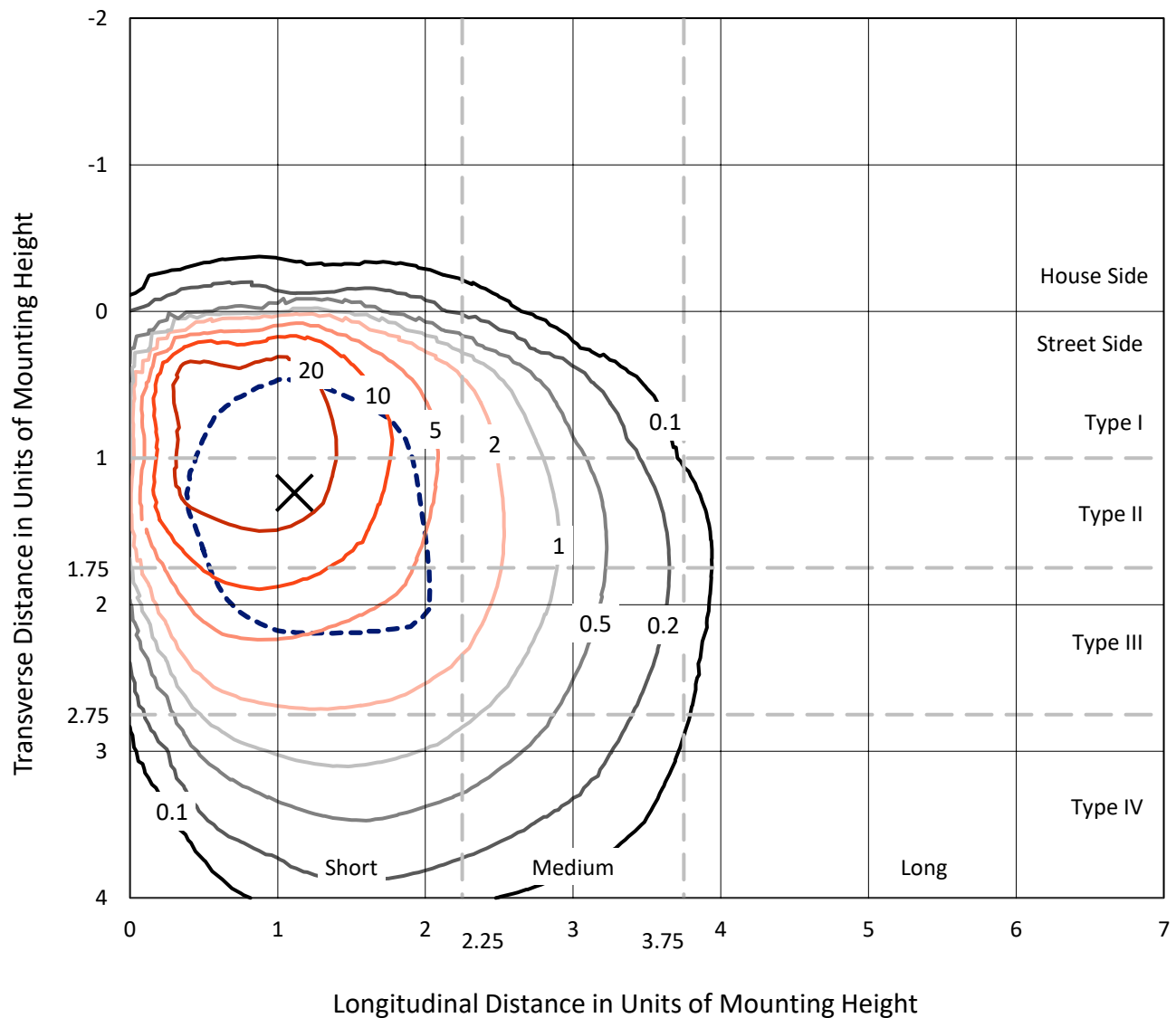


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

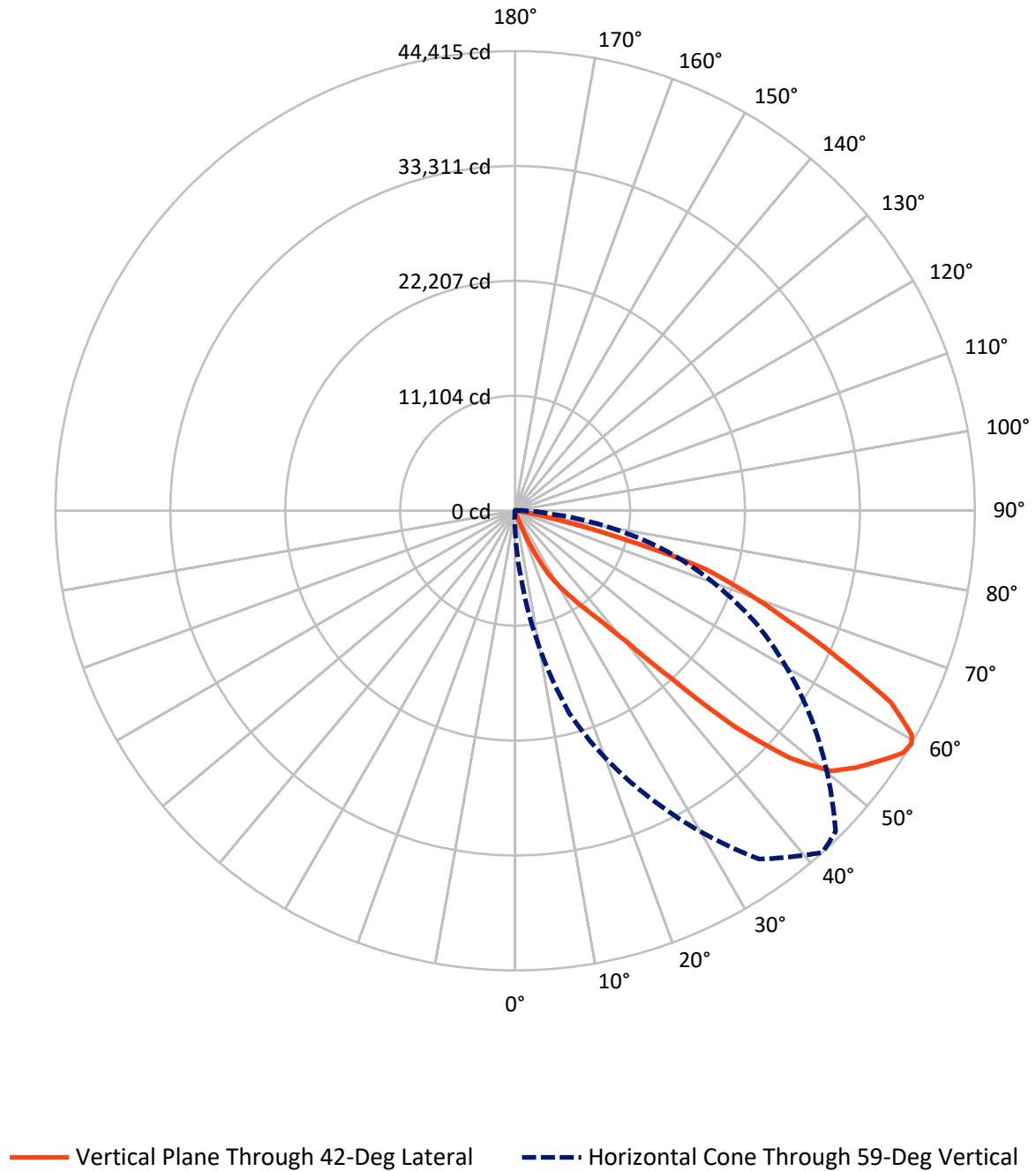


Based on 15 foot mounting height. Maximum calculated value = 48.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.0	0.0	78.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	16109.7	0.0	16109.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	16187.7	0.0	16187.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	23.6	0.1
20°-30°	301.9	1.9
30°-40°	1018.0	6.3
40°-50°	3074.8	19.0
50°-60°	5427.7	33.5
60°-70°	4779.2	29.5
70°-80°	1521.2	9.4
80°-90°	36.4	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°	16187.7	100.0
0°-180°	16187.7	100.0



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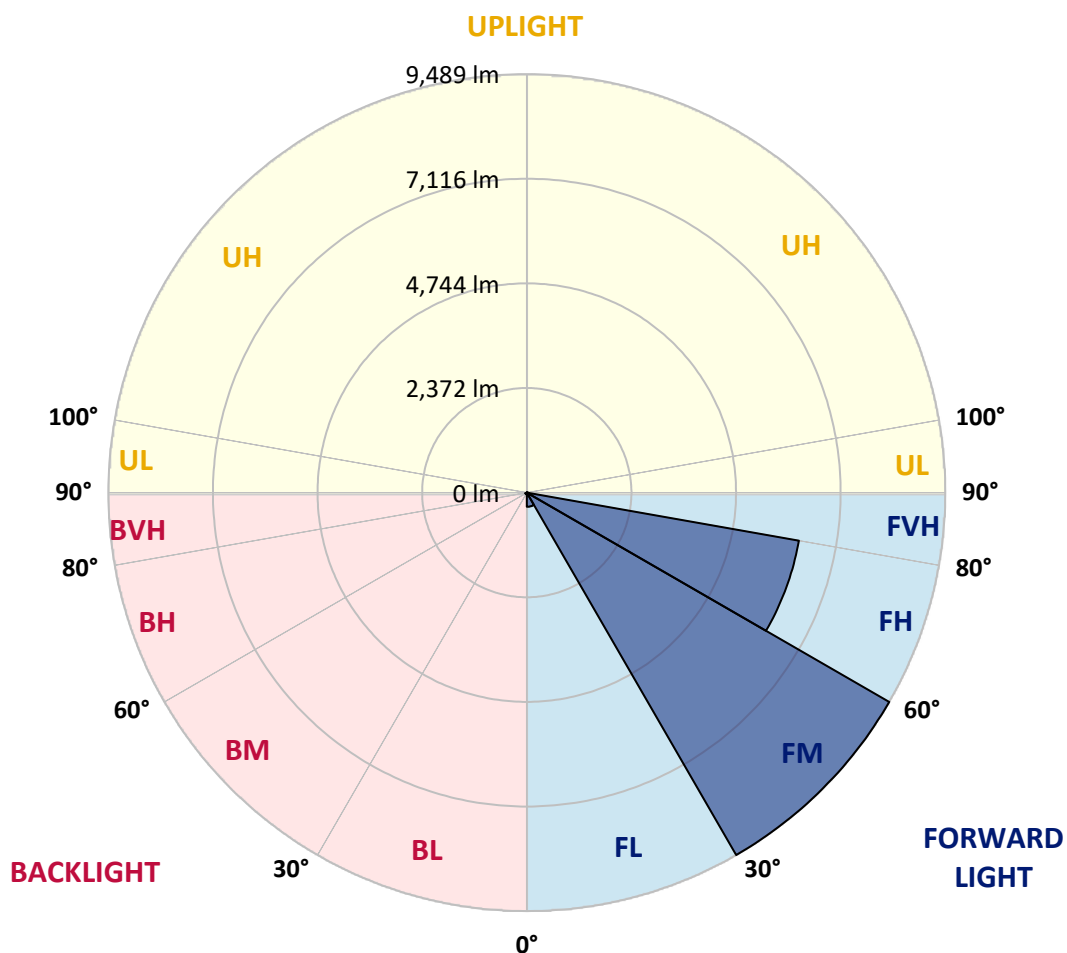
CATALOG NUMBER: NAV-SA6A-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.6	2.0			
FM	(30°-60°)	9488.6	58.6			
FH	(60°-80°)	6264.8	38.7			G3/7500
FVH	(80°-90°)	34.6	0.2			G1/100
BL	(0°-30°)	8.7	0.1	B0/110		
BM	(30°-60°)	31.9	0.2	B0/220		
BH	(60°-80°)	35.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	71.1	71.1	66.0	60.9	55.8	50.8	50.8	50.8	45.7	45.7	40.6
5°	81.2	81.2	76.1	71.1	71.1	66.0	66.0	60.9	55.8	55.8	50.8
7.5°	86.3	86.3	86.3	86.3	81.2	81.2	81.2	76.1	71.1	66.0	60.9
10°	91.4	96.4	101.5	101.5	101.5	101.5	101.5	96.4	86.3	81.2	71.1
12.5°	101.5	106.6	116.7	126.9	126.9	126.9	126.9	121.8	111.7	96.4	81.2
15°	111.7	121.8	137.0	157.3	177.6	182.7	182.7	167.5	147.2	116.7	96.4
17.5°	126.9	142.1	182.7	248.7	319.7	375.6	375.6	335.0	233.5	152.3	111.7
20°	137.0	167.5	294.4	598.9	913.6	1147.0	1101.4	974.5	522.8	238.5	121.8
22.5°	152.3	213.2	624.3	1573.4	2436.2	2862.5	2761.0	2096.1	1172.4	426.3	147.2
25°	172.6	309.6	1238.4	2948.8	4527.2	4989.1	4923.1	3913.1	2136.7	715.6	187.8
27.5°	213.2	456.8	1984.5	4471.4	6679.2	7075.1	7049.7	5730.1	3415.7	1152.1	243.6
30°	269.0	664.9	2943.7	6075.2	8105.4	8506.3	8379.4	7059.8	4608.4	1761.2	314.7
32.5°	335.0	928.8	3811.6	7257.8	9419.9	9947.7	9795.4	8217.0	5567.7	2278.8	466.9
35°	436.5	1187.6	4669.3	8303.3	10937.4	11607.4	11353.6	9409.7	6395.0	2862.5	563.4
37.5°	487.2	1339.9	5456.0	9440.2	12642.7	13556.3	13363.4	10917.1	7237.5	3608.6	690.2
40°	492.3	1522.6	6273.1	10922.2	15053.5	16682.7	16337.6	13505.5	8805.8	4567.8	888.2
42.5°	507.5	1796.7	7333.9	13449.7	19788.8	22128.6	21737.8	18266.2	12363.6	6491.4	1258.7
45°	578.6	2314.4	9496.0	18174.9	26290.4	29721.3	29269.6	24899.7	17332.4	10110.1	2146.9
47.5°	827.3	3481.7	13287.3	23275.6	32939.1	35674.7	35563.1	30127.3	21834.2	13820.2	3639.0
50°	1329.7	5344.4	17601.4	27564.3	37171.9	39521.8	39242.7	32309.7	24402.3	16352.8	4664.3
52.5°	1776.4	7125.8	20311.6	29142.7	38435.7	41237.3	40897.3	33106.6	25077.4	17098.9	4948.5
55°	1888.0	7770.4	21118.6	29630.0	39273.1	42688.9	42196.6	33639.5	25163.6	16566.0	4476.5
57.5°	1832.2	7161.3	20595.8	30107.0	40440.5	44181.0	43526.3	34679.9	25452.9	15662.6	3725.3
59°	1735.8	6410.2	20271.0	30487.7	41085.0	44414.5	43800.4	34908.3	25645.8	15251.5	3268.5
60°	1624.1	5902.6	20017.2	30736.4	41044.4	44049.1	43414.6	34801.8	25721.9	14896.2	3050.3
62.5°	1253.6	4709.9	19651.8	30558.7	38481.4	40714.5	40354.2	32193.0	24605.4	13759.3	2405.7
65°	974.5	3603.5	18311.9	27254.7	32746.2	34248.5	34136.9	27259.8	20707.5	11861.1	1735.8
67.5°	771.5	2629.0	15484.9	22072.7	26346.2	28482.9	28401.7	22128.6	15718.4	9064.6	1248.5
70°	629.3	1872.8	10617.7	16642.1	21072.9	23762.8	23646.1	17809.4	11648.0	5750.4	908.5
72.5°	532.9	1197.8	6440.6	12546.3	17586.1	19124.0	18783.9	14368.3	8470.8	3131.5	720.7
75°	451.7	735.9	3192.4	7821.1	10475.5	10465.4	10125.3	7608.0	4547.5	1532.8	573.5
77.5°	365.4	517.7	1253.6	2146.9	3304.1	4090.7	4024.8	2695.0	1360.2	446.6	355.3
80°	238.5	243.6	335.0	588.7	908.5	1004.9	1142.0	822.2	395.9	213.2	147.2
82.5°	106.6	116.7	152.3	192.9	192.9	177.6	157.3	116.7	86.3	71.1	35.5
85°	25.4	35.5	25.4	30.5	25.4	20.3	20.3	10.2	0.0	0.0	0.0
87.5°	5.1	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°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	40.6	40.6	40.6	35.5	35.5	35.5	30.5	30.5	30.5	25.4	25.4
5°	50.8	45.7	40.6	40.6	35.5	35.5	30.5	25.4	25.4	25.4	20.3
7.5°	55.8	50.8	45.7	40.6	35.5	30.5	30.5	25.4	20.3	20.3	20.3
10°	66.0	60.9	50.8	40.6	35.5	30.5	25.4	25.4	20.3	15.2	15.2
12.5°	76.1	66.0	55.8	45.7	35.5	30.5	25.4	25.4	20.3	15.2	10.2
15°	86.3	76.1	60.9	45.7	35.5	30.5	25.4	25.4	15.2	10.2	5.1
17.5°	96.4	81.2	60.9	50.8	35.5	30.5	25.4	20.3	10.2	5.1	0.0
20°	101.5	86.3	66.0	50.8	35.5	30.5	25.4	15.2	5.1	0.0	0.0
22.5°	111.7	96.4	71.1	50.8	35.5	25.4	15.2	5.1	0.0	0.0	0.0
25°	132.0	101.5	71.1	50.8	35.5	25.4	10.2	0.0	0.0	0.0	0.0
27.5°	147.2	111.7	71.1	50.8	35.5	20.3	5.1	0.0	0.0	0.0	0.0
30°	172.6	121.8	76.1	50.8	35.5	15.2	5.1	0.0	0.0	0.0	0.0
32.5°	213.2	132.0	76.1	50.8	30.5	15.2	0.0	0.0	0.0	0.0	0.0
35°	258.8	152.3	76.1	50.8	30.5	15.2	0.0	0.0	0.0	0.0	0.0
37.5°	263.9	162.4	76.1	50.8	30.5	10.2	0.0	0.0	0.0	0.0	0.0
40°	274.1	152.3	81.2	50.8	30.5	10.2	0.0	0.0	0.0	0.0	0.0
42.5°	314.7	142.1	86.3	50.8	30.5	10.2	0.0	0.0	0.0	0.0	0.0
45°	466.9	147.2	86.3	55.8	30.5	15.2	0.0	0.0	0.0	0.0	0.0
47.5°	812.1	152.3	81.2	55.8	30.5	15.2	0.0	0.0	0.0	0.0	0.0
50°	1040.4	177.6	81.2	60.9	35.5	10.2	0.0	0.0	0.0	0.0	0.0
52.5°	1106.4	208.1	81.2	66.0	45.7	5.1	0.0	0.0	0.0	0.0	0.0
55°	1076.0	243.6	86.3	71.1	55.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	994.8	263.9	91.4	76.1	60.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	908.5	279.1	106.6	81.2	60.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	837.4	294.4	111.7	86.3	60.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	675.0	314.7	121.8	101.5	50.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	588.7	329.9	126.9	111.7	45.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	538.0	340.0	137.0	116.7	40.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	497.4	335.0	147.2	111.7	35.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	451.7	319.7	177.6	101.5	30.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	406.0	289.3	192.9	91.4	20.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	294.4	243.6	177.6	81.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.9	132.0	126.9	60.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	30.5	25.4	15.2	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°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	25.4	25.4	25.4	25.4	30.5	30.5	40.6	50.8	60.9	66.0	66.0
5°	20.3	20.3	20.3	20.3	20.3	25.4	30.5	40.6	55.8	60.9	60.9
7.5°	15.2	15.2	15.2	15.2	15.2	15.2	25.4	35.5	50.8	55.8	60.9
10°	15.2	10.2	10.2	5.1	5.1	10.2	15.2	30.5	45.7	50.8	55.8
12.5°	10.2	5.1	5.1	0.0	0.0	5.1	10.2	25.4	40.6	45.7	50.8
15°	5.1	0.0	0.0	0.0	0.0	0.0	5.1	20.3	35.5	40.6	50.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	30.5	40.6	45.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	25.4	35.5	40.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	20.3	30.5	35.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	20.3	25.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	15.2	20.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	15.2	20.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2	15.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2	15.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2	10.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1
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°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	71.1	71.1	66.0	60.9	60.9	60.9	66.0	71.1	71.1	71.1
5°	66.0	66.0	60.9	60.9	60.9	60.9	66.0	76.1	81.2	81.2
7.5°	66.0	66.0	60.9	60.9	60.9	60.9	66.0	76.1	81.2	86.3
10°	60.9	60.9	60.9	60.9	55.8	60.9	66.0	76.1	91.4	91.4
12.5°	60.9	60.9	60.9	60.9	55.8	60.9	71.1	81.2	96.4	101.5
15°	60.9	60.9	60.9	55.8	55.8	60.9	71.1	86.3	101.5	111.7
17.5°	55.8	60.9	60.9	55.8	55.8	60.9	71.1	86.3	111.7	126.9
20°	50.8	55.8	60.9	55.8	55.8	55.8	71.1	86.3	116.7	137.0
22.5°	45.7	50.8	55.8	55.8	50.8	55.8	71.1	91.4	126.9	152.3
25°	40.6	45.7	45.7	50.8	50.8	55.8	71.1	91.4	132.0	172.6
27.5°	30.5	35.5	40.6	45.7	45.7	55.8	71.1	96.4	142.1	213.2
30°	25.4	30.5	35.5	40.6	45.7	55.8	71.1	96.4	152.3	269.0
32.5°	25.4	30.5	35.5	40.6	45.7	50.8	71.1	101.5	167.5	335.0
35°	20.3	25.4	30.5	40.6	40.6	50.8	71.1	101.5	182.7	436.5
37.5°	20.3	25.4	30.5	40.6	40.6	50.8	71.1	101.5	223.3	487.2
40°	15.2	20.3	25.4	40.6	40.6	50.8	76.1	106.6	228.4	492.3
42.5°	15.2	20.3	25.4	35.5	40.6	50.8	76.1	106.6	213.2	507.5
45°	15.2	20.3	25.4	40.6	45.7	55.8	76.1	111.7	208.1	578.6
47.5°	15.2	20.3	25.4	40.6	50.8	55.8	76.1	111.7	213.2	827.3
50°	15.2	20.3	25.4	40.6	55.8	55.8	76.1	111.7	233.5	1329.7
52.5°	10.2	15.2	20.3	35.5	45.7	60.9	81.2	106.6	248.7	1776.4
55°	10.2	10.2	15.2	30.5	40.6	66.0	86.3	106.6	289.3	1888.0
57.5°	10.2	10.2	15.2	25.4	35.5	71.1	91.4	106.6	335.0	1832.2
59°	10.2	10.2	10.2	25.4	30.5	71.1	91.4	111.7	340.0	1735.8
60°	10.2	10.2	10.2	20.3	30.5	71.1	96.4	116.7	345.1	1624.1
62.5°	5.1	5.1	5.1	20.3	25.4	71.1	106.6	142.1	355.3	1253.6
65°	10.2	10.2	5.1	15.2	25.4	60.9	121.8	152.3	360.4	974.5
67.5°	10.2	10.2	10.2	20.3	25.4	60.9	126.9	157.3	360.4	771.5
70°	10.2	10.2	10.2	20.3	30.5	60.9	126.9	162.4	355.3	629.3
72.5°	10.2	10.2	10.2	20.3	30.5	55.8	116.7	167.5	340.0	532.9
75°	10.2	10.2	10.2	15.2	25.4	50.8	111.7	182.7	309.6	451.7
77.5°	10.2	10.2	10.2	10.2	20.3	40.6	101.5	203.0	274.1	365.4
80°	15.2	10.2	10.2	10.2	15.2	35.5	96.4	197.9	228.4	238.5
82.5°	15.2	10.2	10.2	5.1	10.2	25.4	76.1	152.3	116.7	106.6
85°	10.2	10.2	10.2	5.1	5.1	15.2	35.5	45.7	35.5	25.4
87.5°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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

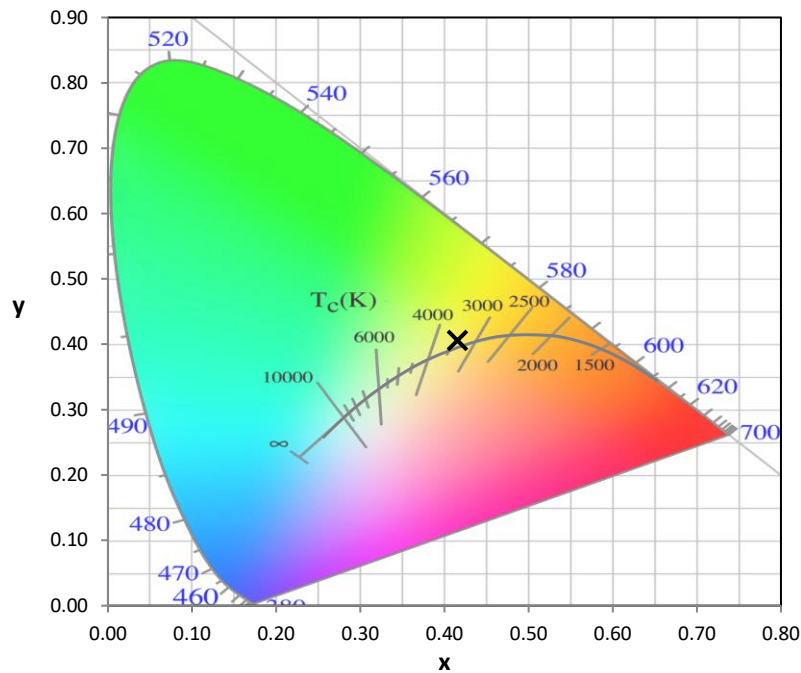
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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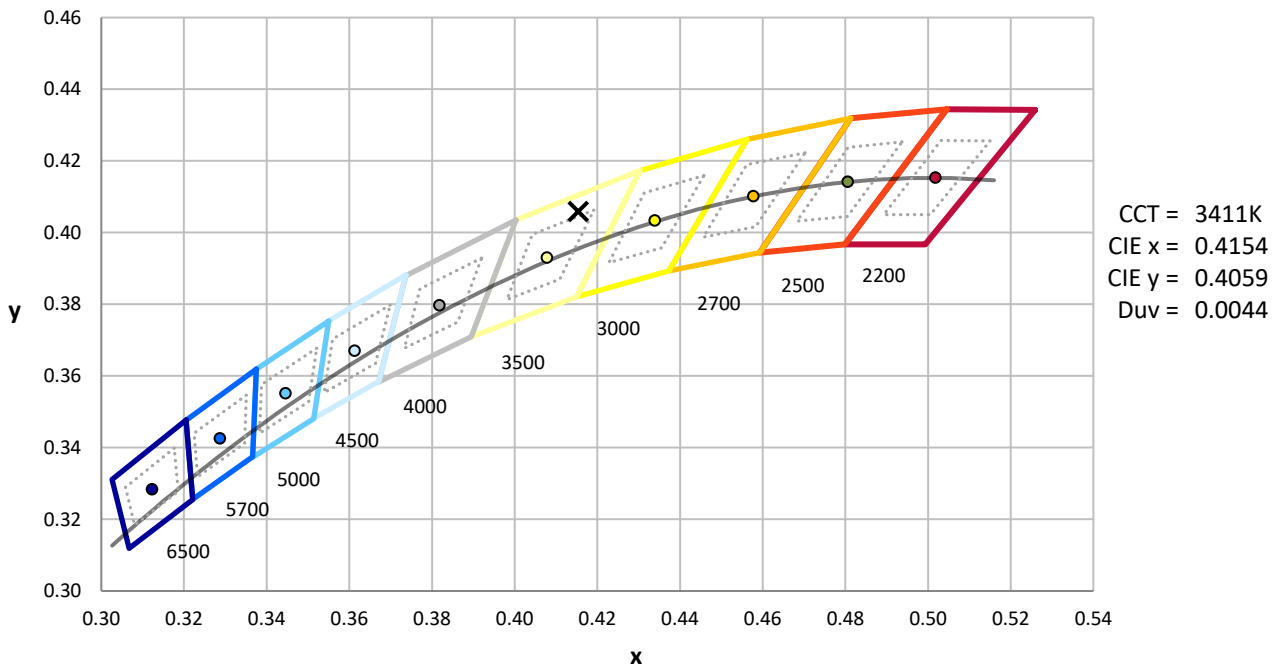
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3500K 7-step quadrangle

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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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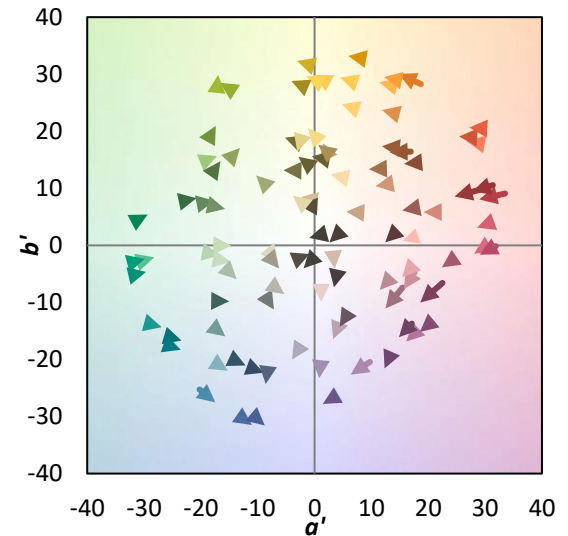
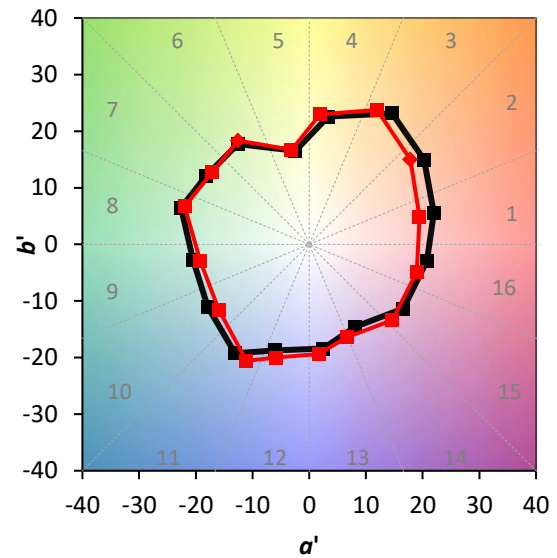
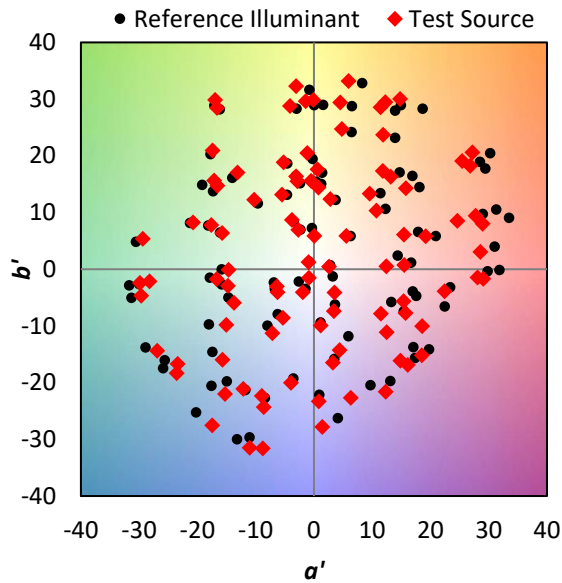
TM-30-18

Summary

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

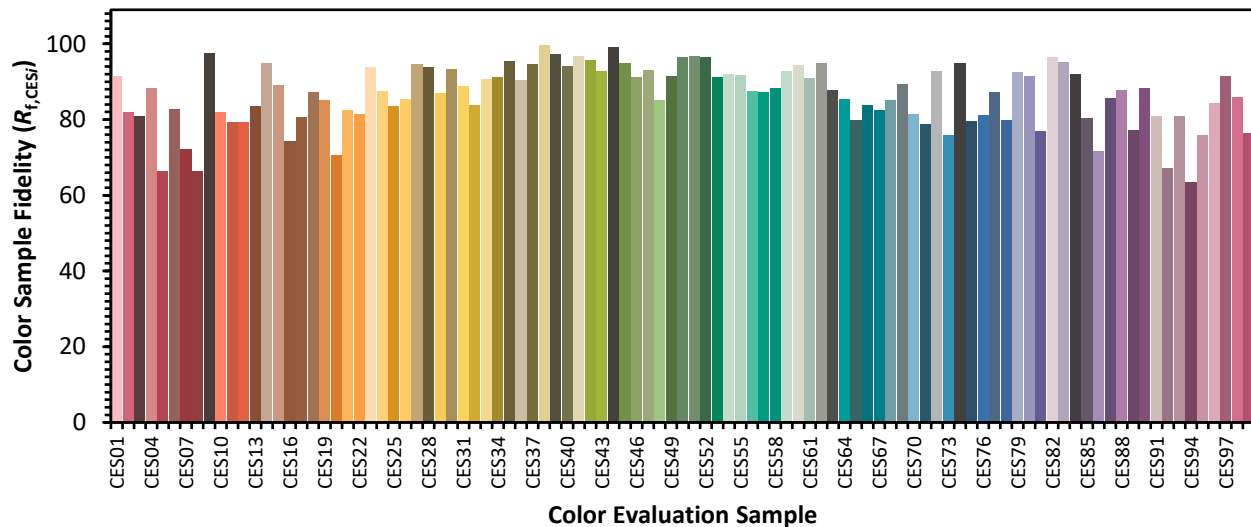


Color Vector Graphics

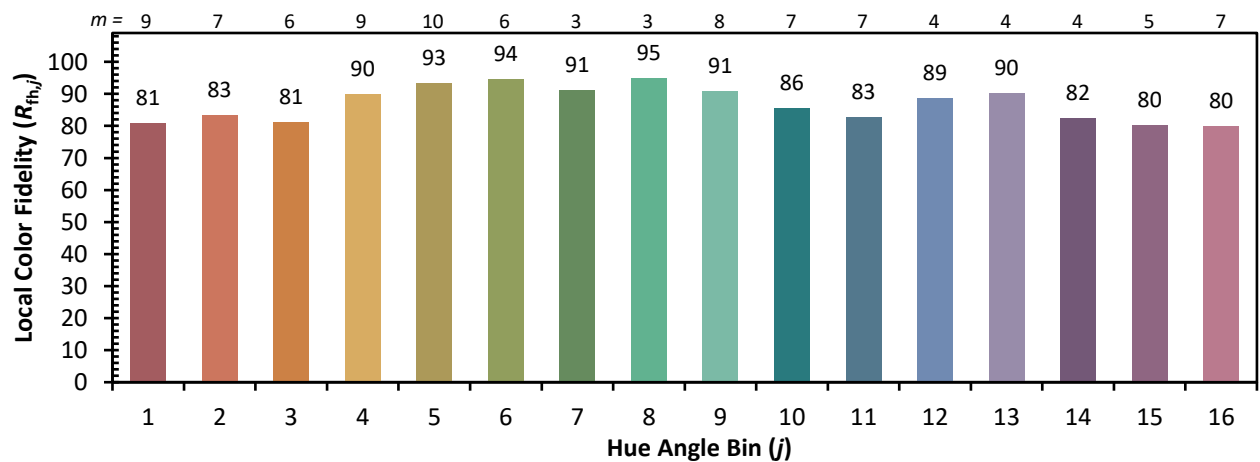
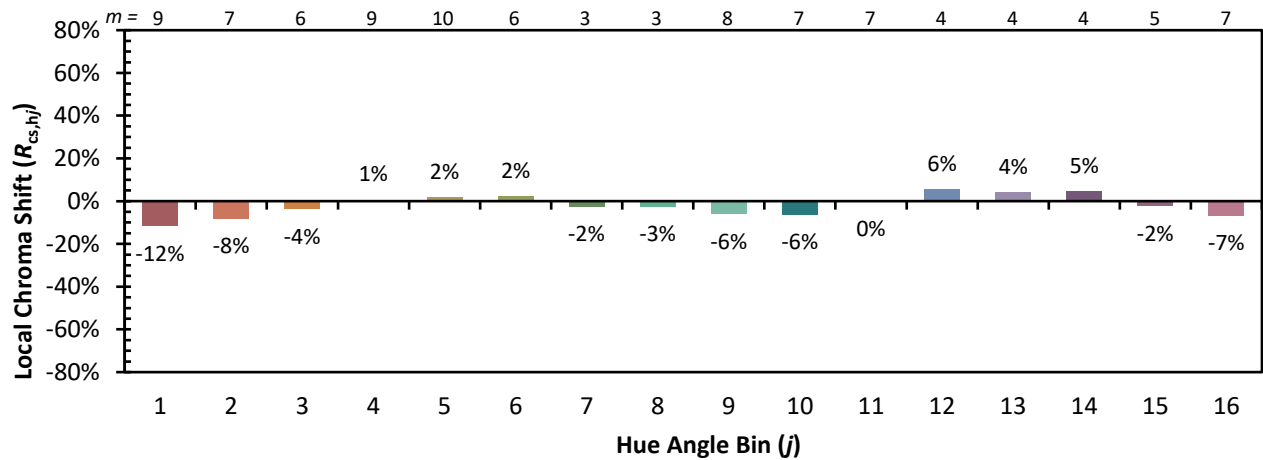


Individual Sample Fidelity Index ($R_{f,i}$)

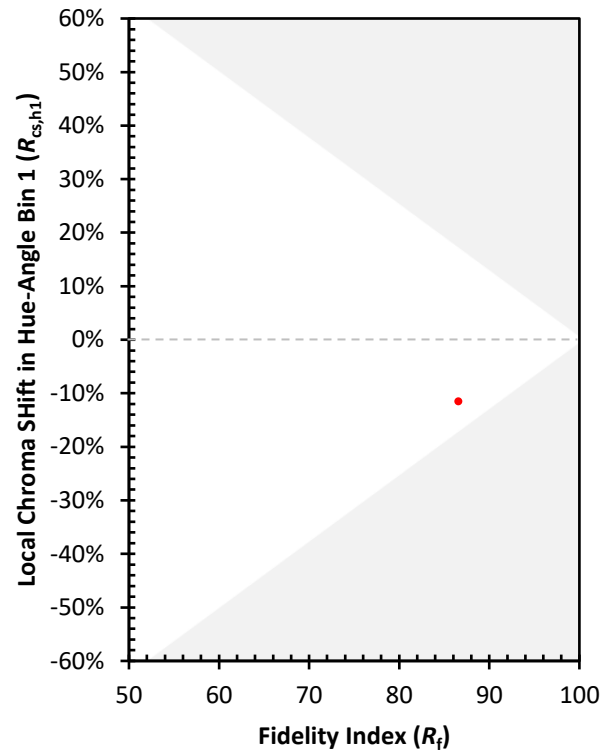
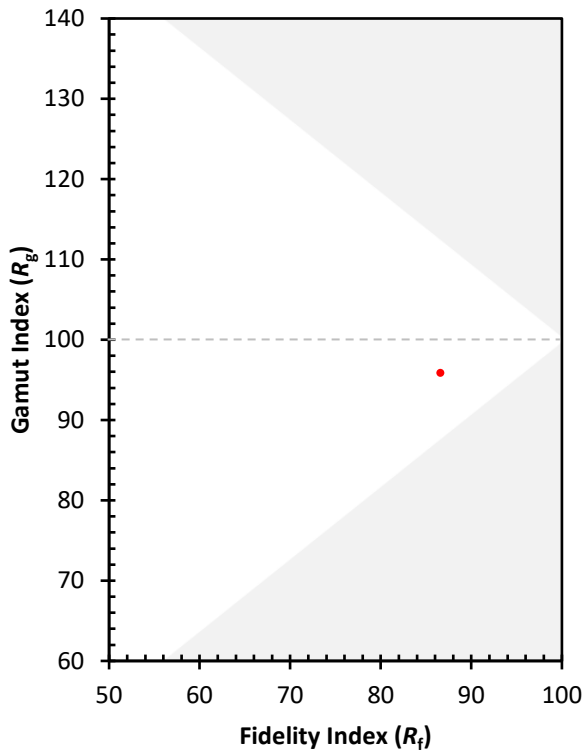
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 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)