

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: P1068103

Luminaire Tested: **NAV-SA5C-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068103
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20909.1 lumens
Efficiency: N/A
Efficacy: 88.6 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): 236
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



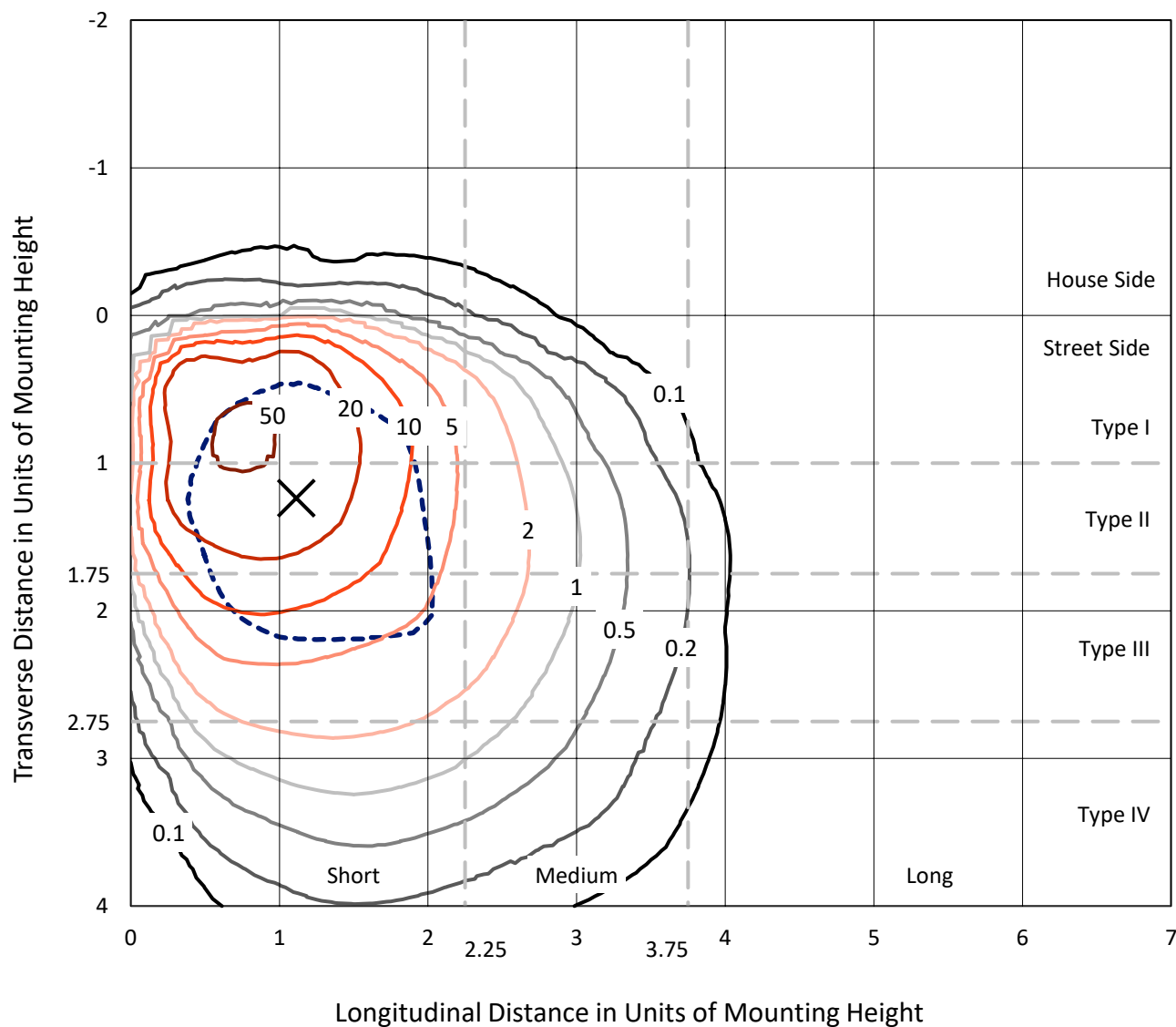
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

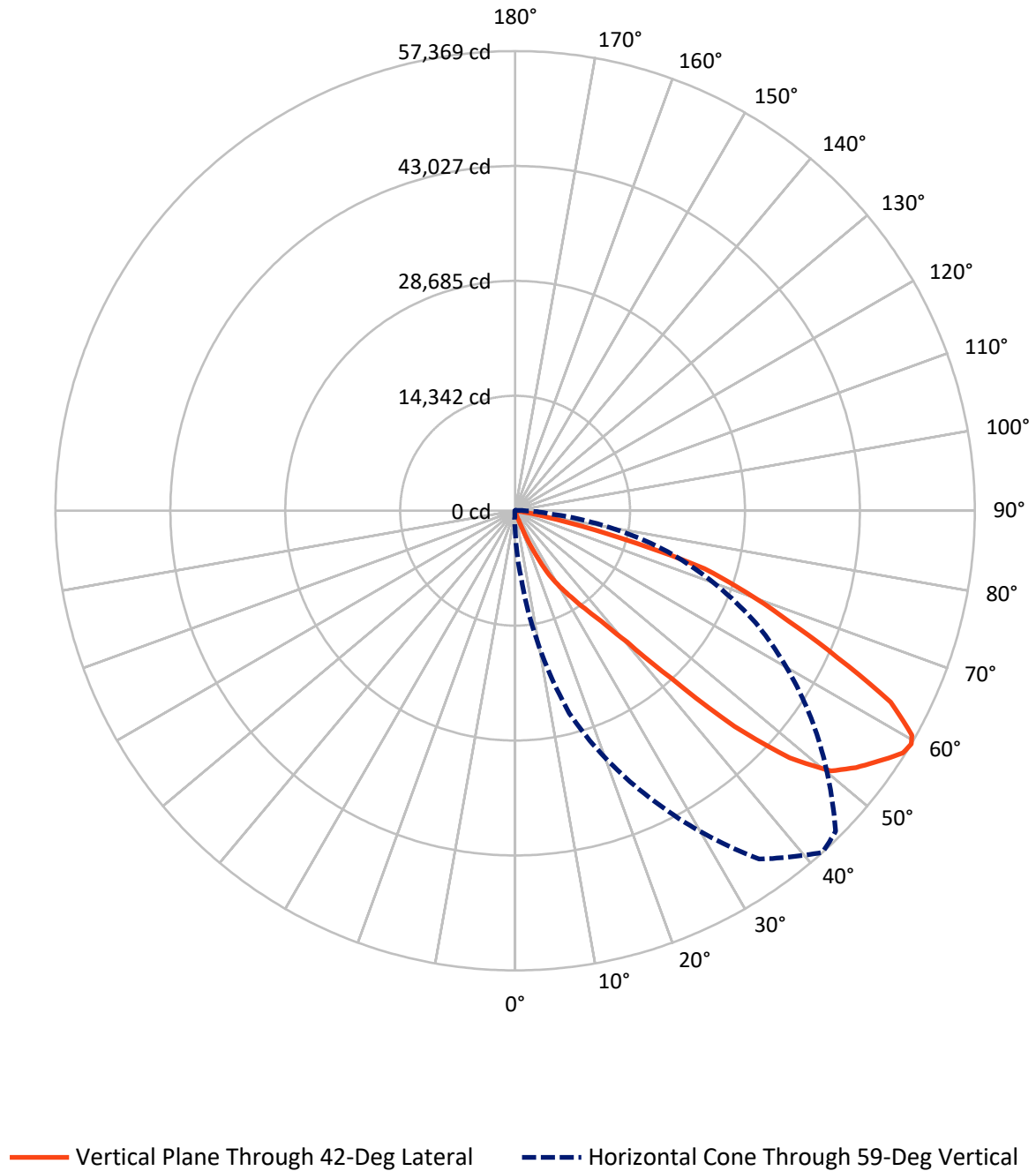


Based on 15 foot mounting height. Maximum calculated value = 62.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	100.7	0.0	100.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	20808.4	0.0	20808.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	20909.1	0.0	20909.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.0
10°-20°	30.5	0.1
20°-30°	390.0	1.9
30°-40°	1314.9	6.3
40°-50°	3971.6	19.0
50°-60°	7010.9	33.5
60°-70°	6173.2	29.5
70°-80°	1964.9	9.4
80°-90°	47.0	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°	20909.1	100.0
0°-180°	20909.1	100.0



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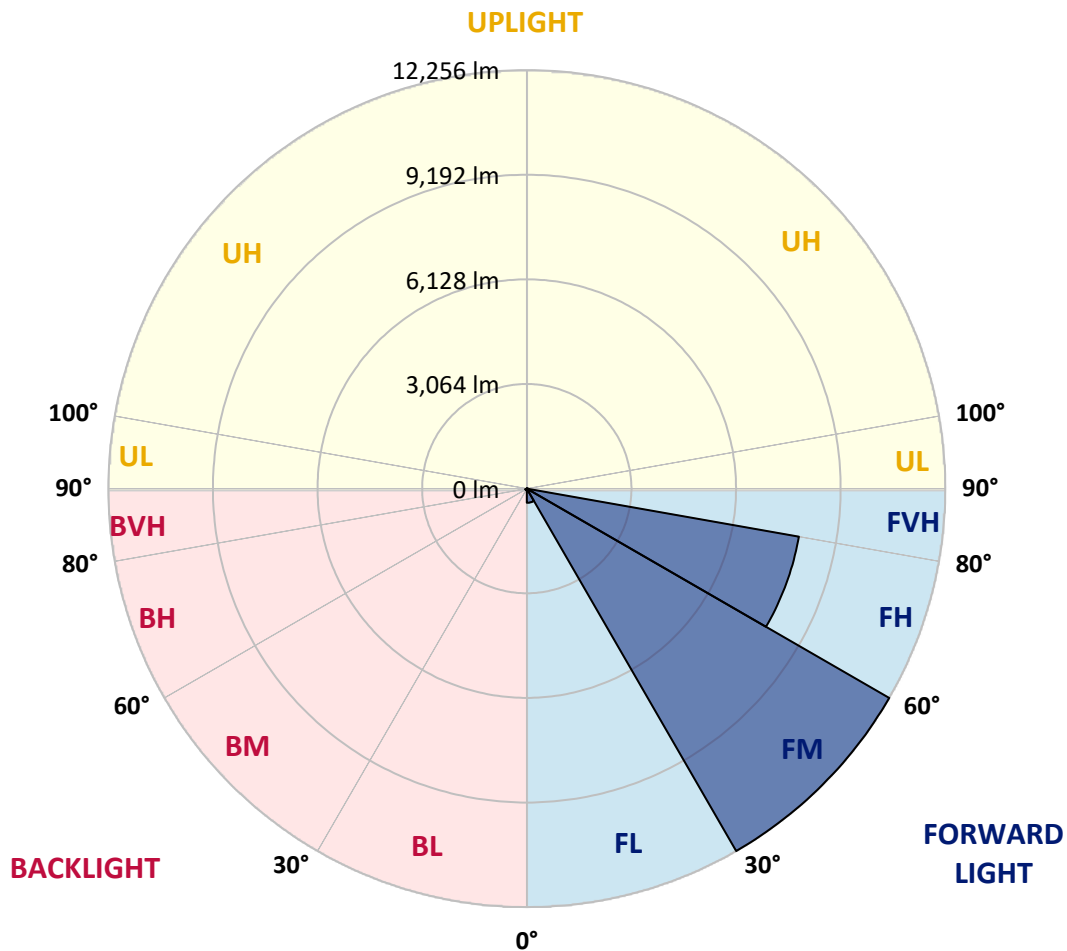
CATALOG NUMBER: NAV-SA5C-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.4	2.0			
FM	(30°-60°)	12256.2	58.6			
FH	(60°-80°)	8092.0	38.7			G4/12000
FVH	(80°-90°)	44.7	0.2			G1/100
BL	(0°-30°)	11.2	0.1	B0/110		
BM	(30°-60°)	41.2	0.2	B0/220		
BH	(60°-80°)	46.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	91.8	91.8	85.2	78.7	72.1	65.6	65.6	65.6	59.0	59.0	52.4
5°	104.9	104.9	98.3	91.8	91.8	85.2	85.2	78.7	72.1	72.1	65.6
7.5°	111.4	111.4	111.4	111.4	104.9	104.9	104.9	98.3	91.8	85.2	78.7
10°	118.0	124.6	131.1	131.1	131.1	131.1	131.1	124.6	111.4	104.9	91.8
12.5°	131.1	137.7	150.8	163.9	163.9	170.4	163.9	157.3	144.2	124.6	104.9
15°	144.2	157.3	177.0	203.2	229.4	236.0	236.0	216.3	190.1	150.8	124.6
17.5°	163.9	183.6	236.0	321.2	413.0	485.1	485.1	432.7	301.6	196.7	144.2
20°	177.0	216.3	380.2	773.6	1180.0	1481.6	1422.6	1258.7	675.2	308.1	157.3
22.5°	196.7	275.3	806.4	2032.3	3146.7	3697.4	3566.3	2707.5	1514.4	550.7	190.1
25°	222.9	399.9	1599.6	3808.9	5847.7	6444.3	6359.0	5054.5	2760.0	924.4	242.6
27.5°	275.3	590.0	2563.3	5775.6	8627.3	9138.7	9105.9	7401.4	4412.0	1488.1	314.7
30°	347.5	858.8	3802.3	7847.2	10469.5	10987.4	10823.5	9119.0	5952.6	2274.8	406.5
32.5°	432.7	1199.7	4923.3	9374.7	12167.4	12849.2	12652.5	10613.7	7191.6	2943.5	603.1
35°	563.8	1534.0	6031.3	10725.1	14127.6	14992.9	14665.1	12154.3	8260.2	3697.4	727.7
37.5°	629.3	1730.7	7047.4	12193.6	16330.3	17510.3	17261.2	14101.3	9348.4	4661.1	891.6
40°	635.9	1966.7	8102.9	14107.9	19444.2	21548.6	21102.8	17444.8	11374.2	5900.1	1147.2
42.5°	655.6	2320.7	9473.0	17372.6	25560.7	28582.9	28078.1	23594.0	15969.7	8384.8	1625.8
45°	747.4	2989.4	12265.7	23476.0	33958.6	38390.3	37806.8	32162.3	22387.8	13059.0	2773.1
47.5°	1068.6	4497.2	17162.9	30064.5	42546.6	46080.1	45935.9	38914.7	28202.7	17851.2	4700.4
50°	1717.6	6903.2	22735.2	35604.1	48014.0	51049.3	50688.8	41733.7	31519.9	21122.5	6024.7
52.5°	2294.5	9204.2	26236.0	37642.9	49646.4	53265.2	52825.9	42762.9	32391.8	22086.2	6391.8
55°	2438.7	10036.8	27278.3	38272.2	50728.1	55140.1	54504.2	43451.3	32503.2	21397.8	5782.1
57.5°	2366.6	9250.1	26603.1	38888.5	52235.9	57067.5	56221.8	44795.2	32876.9	20230.9	4811.9
59°	2242.1	8279.9	26183.5	39380.2	53068.5	57369.0	56575.8	45090.2	33126.0	19699.9	4221.9
60°	2097.8	7624.3	25855.7	39701.4	53016.0	56897.0	56077.6	44952.5	33224.4	19241.0	3940.0
62.5°	1619.3	6083.7	25383.7	39471.9	49705.4	52589.9	52124.5	41582.9	31782.1	17772.5	3107.4
65°	1258.7	4654.6	23653.0	35204.2	42297.5	44237.9	44093.7	35210.7	26747.3	15320.7	2242.1
67.5°	996.5	3395.9	20001.5	28510.8	34030.7	36790.7	36685.8	28582.9	20303.0	11708.5	1612.7
70°	812.9	2419.1	13714.6	21496.2	27219.3	30693.8	30543.1	23004.0	15045.4	7427.6	1173.5
72.5°	688.3	1547.1	8319.2	16205.7	22715.5	24701.9	24262.7	18559.2	10941.5	4044.9	930.9
75°	583.5	950.6	4123.5	10102.4	13531.0	13517.9	13078.6	9827.0	5873.9	1979.8	740.8
77.5°	472.0	668.7	1619.3	2773.1	4267.8	5283.9	5198.7	3481.1	1756.9	576.9	458.9
80°	308.1	314.7	432.7	760.5	1173.5	1298.0	1475.0	1062.0	511.3	275.3	190.1
82.5°	137.7	150.8	196.7	249.1	249.1	229.4	203.2	150.8	111.4	91.8	45.9
85°	32.8	45.9	32.8	39.3	32.8	26.2	26.2	13.1	0.0	0.0	0.0
87.5°	6.6	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°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	52.4	52.4	52.4	45.9	45.9	45.9	39.3	39.3	39.3	32.8	32.8
5°	65.6	59.0	52.4	52.4	45.9	45.9	39.3	32.8	32.8	32.8	26.2
7.5°	72.1	65.6	59.0	52.4	45.9	39.3	39.3	32.8	26.2	26.2	26.2
10°	85.2	78.7	65.6	52.4	45.9	39.3	32.8	32.8	26.2	19.7	19.7
12.5°	98.3	85.2	72.1	59.0	45.9	39.3	32.8	32.8	26.2	19.7	13.1
15°	111.4	98.3	78.7	59.0	45.9	39.3	32.8	32.8	19.7	13.1	6.6
17.5°	124.6	104.9	78.7	65.6	45.9	39.3	32.8	26.2	13.1	6.6	0.0
20°	131.1	111.4	85.2	65.6	45.9	39.3	32.8	19.7	6.6	0.0	0.0
22.5°	144.2	124.6	91.8	65.6	45.9	32.8	19.7	6.6	0.0	0.0	0.0
25°	170.4	131.1	91.8	65.6	45.9	32.8	13.1	0.0	0.0	0.0	0.0
27.5°	190.1	144.2	91.8	65.6	45.9	26.2	6.6	0.0	0.0	0.0	0.0
30°	222.9	157.3	98.3	65.6	45.9	19.7	6.6	0.0	0.0	0.0	0.0
32.5°	275.3	170.4	98.3	65.6	39.3	19.7	0.0	0.0	0.0	0.0	0.0
35°	334.3	196.7	98.3	65.6	39.3	19.7	0.0	0.0	0.0	0.0	0.0
37.5°	340.9	209.8	98.3	65.6	39.3	13.1	0.0	0.0	0.0	0.0	0.0
40°	354.0	196.7	104.9	65.6	39.3	13.1	0.0	0.0	0.0	0.0	0.0
42.5°	406.5	183.6	111.4	65.6	39.3	13.1	0.0	0.0	0.0	0.0	0.0
45°	603.1	190.1	111.4	72.1	39.3	19.7	0.0	0.0	0.0	0.0	0.0
47.5°	1048.9	196.7	104.9	72.1	39.3	19.7	0.0	0.0	0.0	0.0	0.0
50°	1343.9	229.4	104.9	78.7	45.9	13.1	0.0	0.0	0.0	0.0	0.0
52.5°	1429.1	268.8	104.9	85.2	59.0	6.6	0.0	0.0	0.0	0.0	0.0
55°	1389.8	314.7	111.4	91.8	72.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1284.9	340.9	118.0	98.3	78.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1173.5	360.6	137.7	104.9	78.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1081.7	380.2	144.2	111.4	78.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	871.9	406.5	157.3	131.1	65.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	760.5	426.1	163.9	144.2	59.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	694.9	439.2	177.0	150.8	52.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	642.5	432.7	190.1	144.2	45.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	583.5	413.0	229.4	131.1	39.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	524.5	373.7	249.1	118.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	380.2	314.7	229.4	104.9	13.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	163.9	170.4	163.9	78.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	39.3	32.8	19.7	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°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	32.8	32.8	32.8	32.8	39.3	39.3	52.4	65.6	78.7	85.2	85.2
5°	26.2	26.2	26.2	26.2	26.2	32.8	39.3	52.4	72.1	78.7	78.7
7.5°	19.7	19.7	19.7	19.7	19.7	19.7	32.8	45.9	65.6	72.1	78.7
10°	19.7	13.1	13.1	6.6	6.6	13.1	19.7	39.3	59.0	65.6	72.1
12.5°	13.1	6.6	6.6	0.0	0.0	6.6	13.1	32.8	52.4	59.0	65.6
15°	6.6	0.0	0.0	0.0	0.0	0.0	6.6	26.2	45.9	52.4	65.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	39.3	52.4	59.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	32.8	45.9	52.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	26.2	39.3	45.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	26.2	32.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	19.7	26.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	19.7	26.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1	19.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1	19.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1	13.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
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°	318°	325°	335°	345°	355°	360°
0°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	91.8	91.8	85.2	78.7	78.7	78.7	85.2	91.8	91.8	91.8
5°	85.2	85.2	78.7	78.7	78.7	78.7	85.2	98.3	104.9	104.9
7.5°	85.2	85.2	78.7	78.7	78.7	78.7	85.2	98.3	104.9	111.4
10°	78.7	78.7	78.7	78.7	72.1	78.7	85.2	98.3	118.0	118.0
12.5°	78.7	78.7	78.7	78.7	72.1	78.7	91.8	104.9	124.6	131.1
15°	78.7	78.7	78.7	72.1	72.1	78.7	91.8	111.4	131.1	144.2
17.5°	72.1	78.7	78.7	72.1	72.1	78.7	91.8	111.4	144.2	163.9
20°	65.6	72.1	78.7	72.1	72.1	72.1	91.8	111.4	150.8	177.0
22.5°	59.0	65.6	72.1	72.1	65.6	72.1	91.8	118.0	163.9	196.7
25°	52.4	59.0	59.0	65.6	65.6	72.1	91.8	118.0	170.4	222.9
27.5°	39.3	45.9	52.4	59.0	59.0	72.1	91.8	124.6	183.6	275.3
30°	32.8	39.3	45.9	52.4	59.0	72.1	91.8	124.6	196.7	347.5
32.5°	32.8	39.3	45.9	52.4	59.0	65.6	91.8	131.1	216.3	432.7
35°	26.2	32.8	39.3	52.4	52.4	65.6	91.8	131.1	236.0	563.8
37.5°	26.2	32.8	39.3	52.4	52.4	65.6	91.8	131.1	288.5	629.3
40°	19.7	26.2	32.8	52.4	52.4	65.6	98.3	137.7	295.0	635.9
42.5°	19.7	26.2	32.8	45.9	52.4	65.6	98.3	137.7	275.3	655.6
45°	19.7	26.2	32.8	52.4	59.0	72.1	98.3	144.2	268.8	747.4
47.5°	19.7	26.2	32.8	52.4	65.6	72.1	98.3	144.2	275.3	1068.6
50°	19.7	26.2	32.8	52.4	72.1	72.1	98.3	144.2	301.6	1717.6
52.5°	13.1	19.7	26.2	45.9	59.0	78.7	104.9	137.7	321.2	2294.5
55°	13.1	13.1	19.7	39.3	52.4	85.2	111.4	137.7	373.7	2438.7
57.5°	13.1	13.1	19.7	32.8	45.9	91.8	118.0	137.7	432.7	2366.6
59°	13.1	13.1	13.1	26.2	39.3	91.8	118.0	144.2	439.2	2242.1
60°	13.1	13.1	13.1	26.2	39.3	91.8	124.6	150.8	445.8	2097.8
62.5°	6.6	6.6	6.6	26.2	32.8	91.8	137.7	183.6	458.9	1619.3
65°	13.1	13.1	6.6	19.7	32.8	78.7	157.3	196.7	465.5	1258.7
67.5°	13.1	13.1	13.1	26.2	32.8	78.7	163.9	203.2	465.5	996.5
70°	13.1	13.1	13.1	26.2	39.3	78.7	163.9	209.8	458.9	812.9
72.5°	13.1	13.1	13.1	26.2	39.3	72.1	150.8	216.3	439.2	688.3
75°	13.1	13.1	13.1	19.7	32.8	65.6	144.2	236.0	399.9	583.5
77.5°	13.1	13.1	13.1	13.1	26.2	52.4	131.1	262.2	354.0	472.0
80°	19.7	13.1	13.1	13.1	19.7	45.9	124.6	255.7	295.0	308.1
82.5°	19.7	13.1	13.1	6.6	13.1	32.8	98.3	196.7	150.8	137.7
85°	13.1	13.1	13.1	6.6	6.6	19.7	45.9	59.0	45.9	32.8
87.5°	13.1	13.1	13.1	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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: SP1-2407-184-10

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

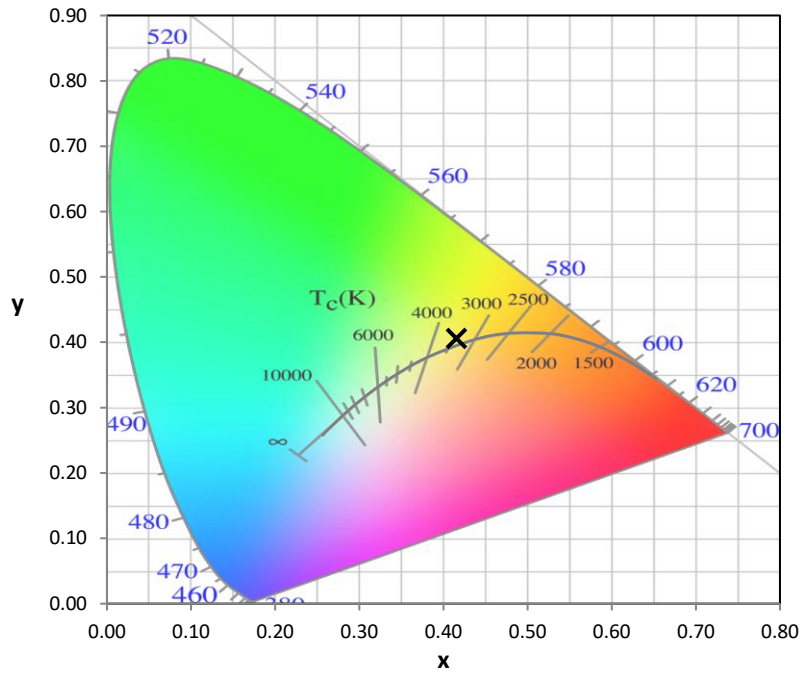
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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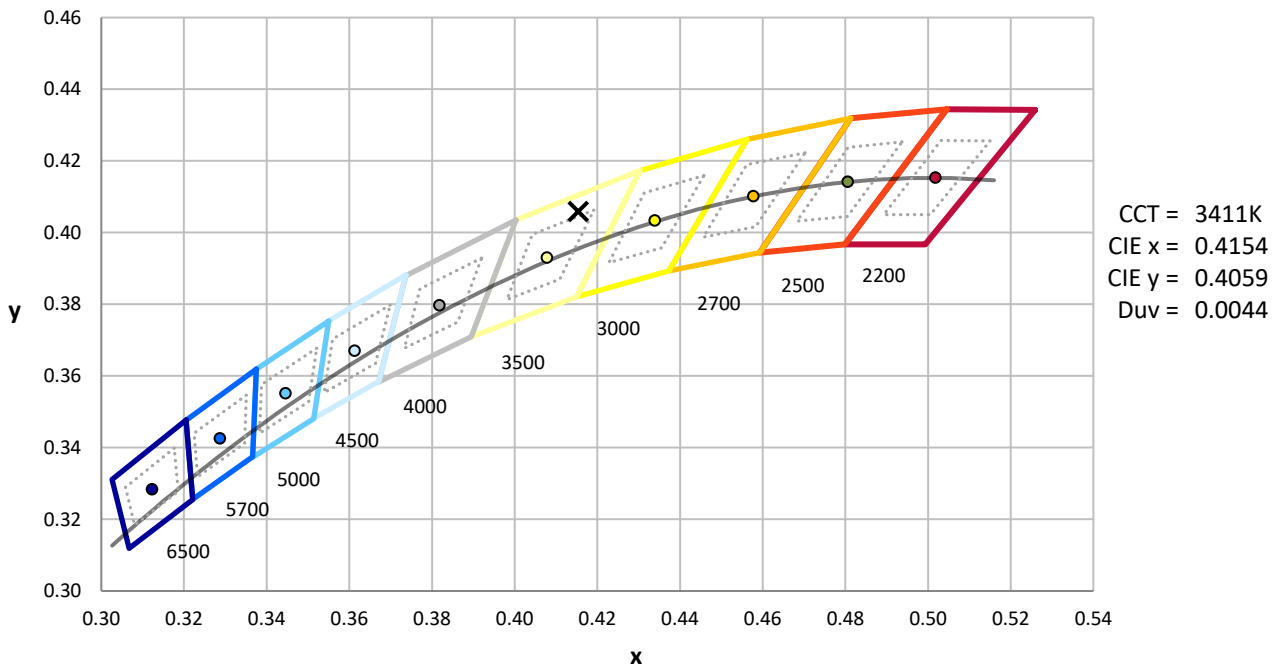
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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			

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			

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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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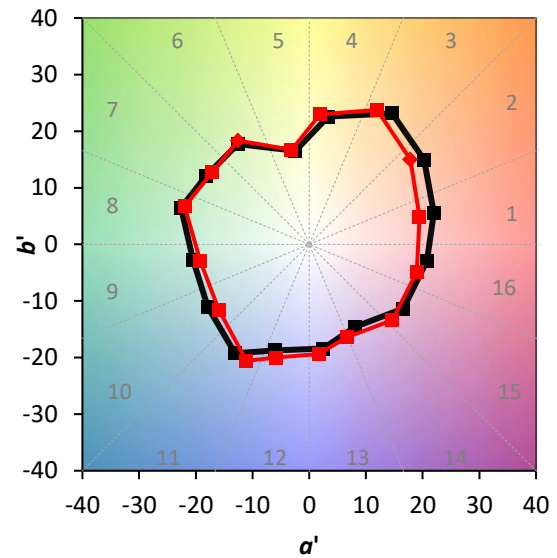
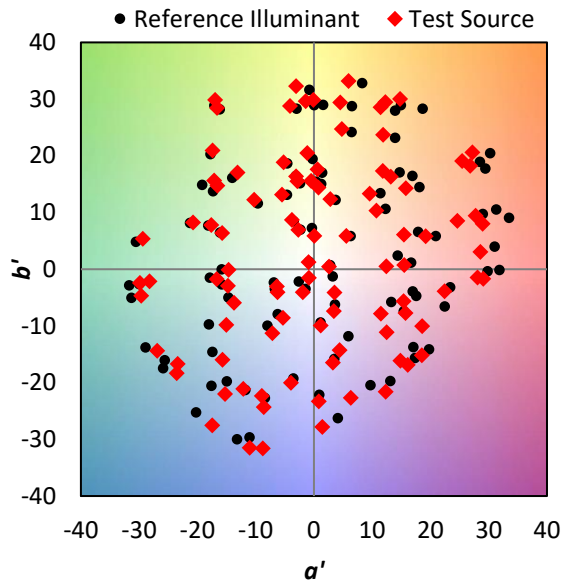
TM-30-18

Summary

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

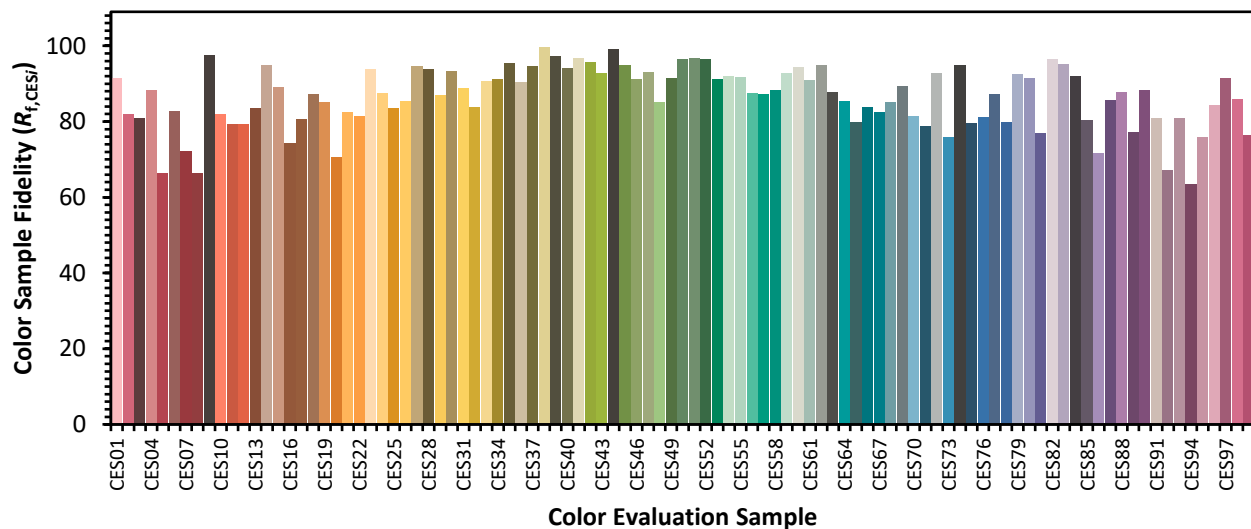


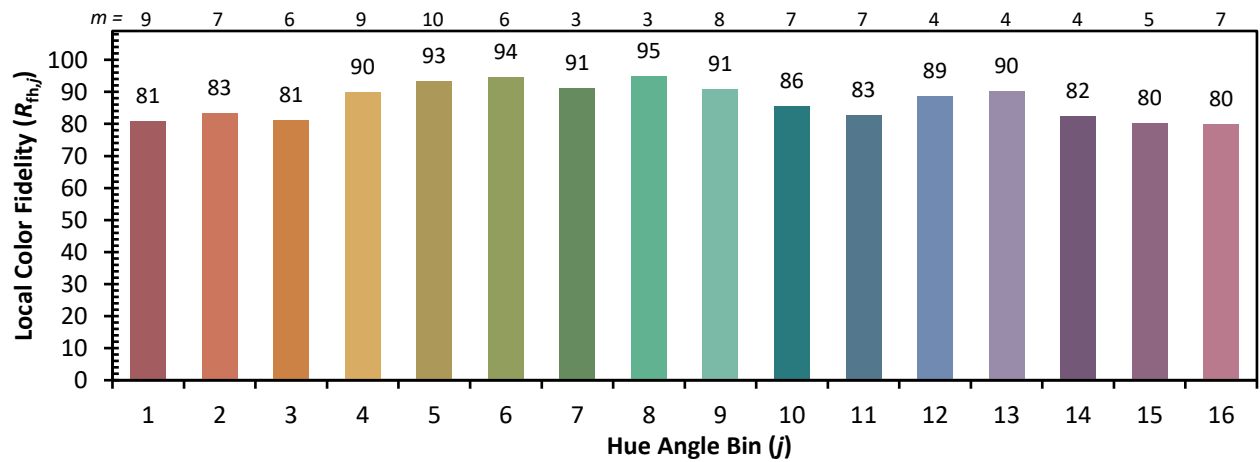
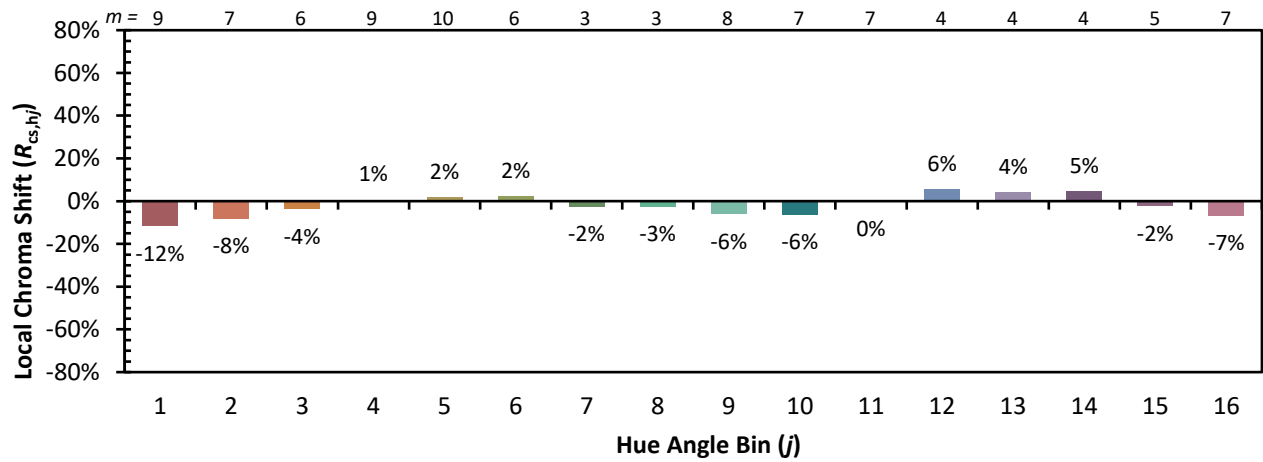
Color Vector Graphics



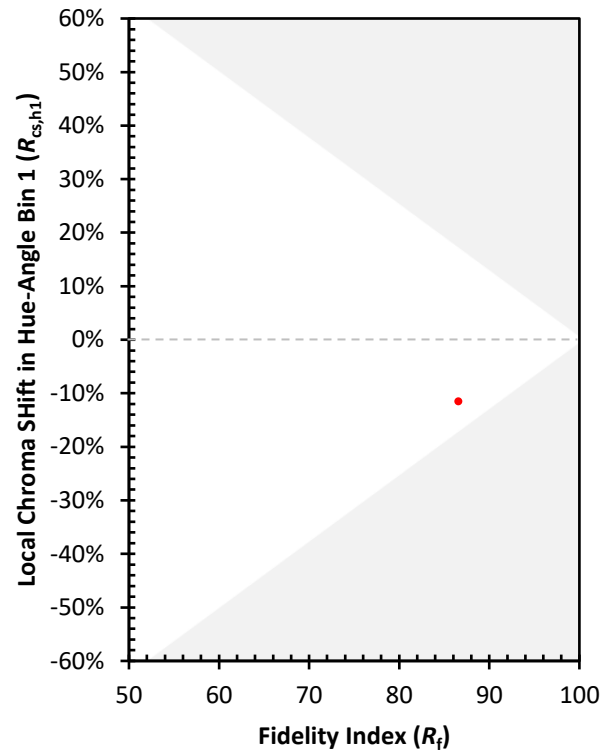
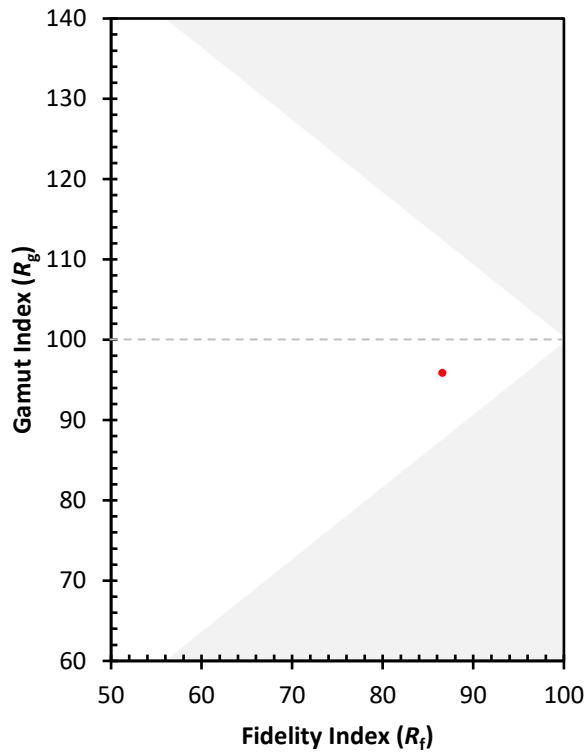
Individual Sample Fidelity Index ($R_{f,i}$)

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)