

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: P1067873

Luminaire Tested: **NAV-SA2A-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067873
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2A-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 55.3
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



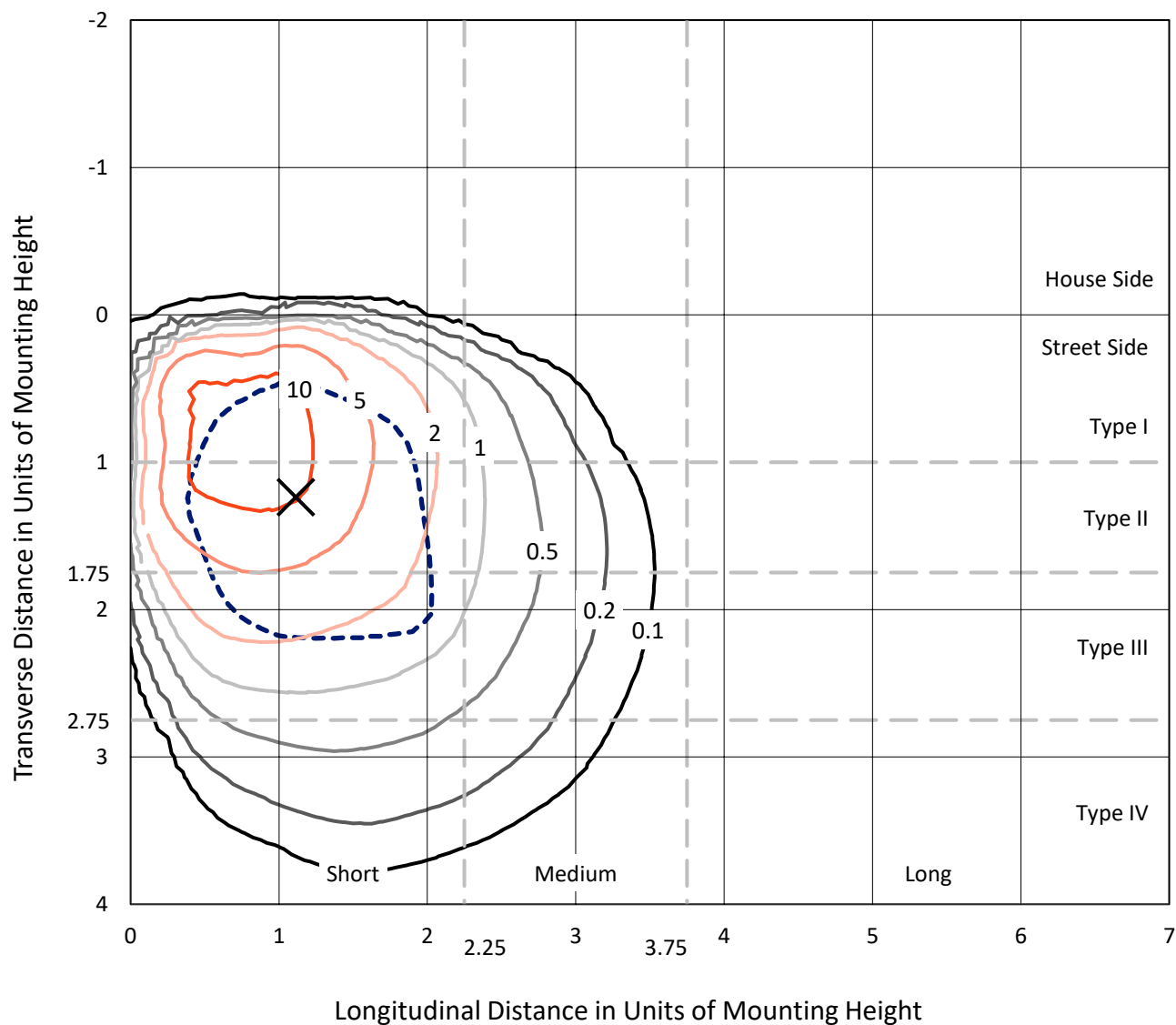
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

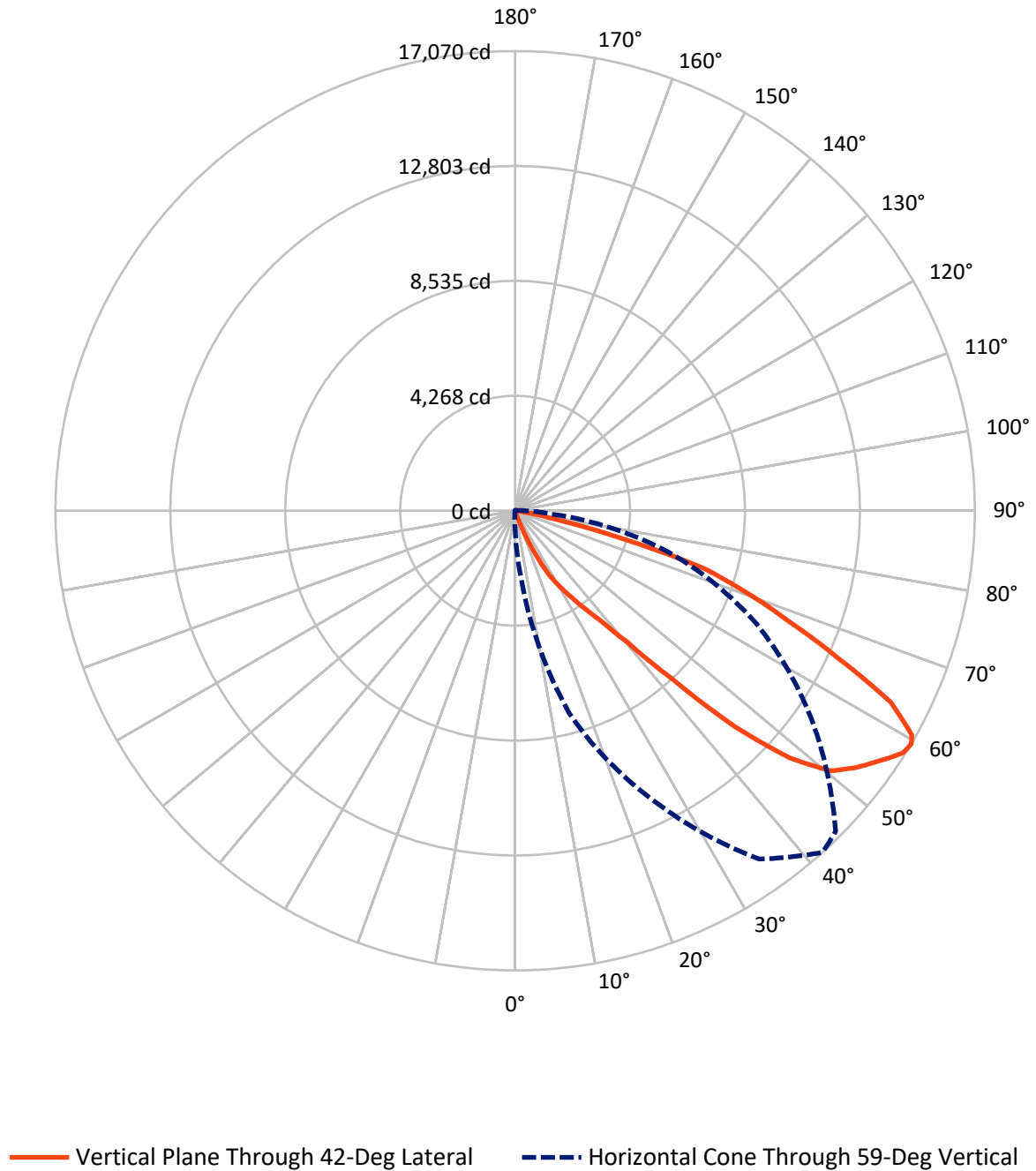


Based on 15 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30.0	0.0	30.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	6191.6	0.0	6191.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	6221.6	0.0	6221.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	9.1	0.1
20°-30°	116.1	1.9
30°-40°	391.3	6.3
40°-50°	1181.8	19.0
50°-60°	2086.1	33.5
60°-70°	1836.9	29.5
70°-80°	584.7	9.4
80°-90°	14.0	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°	6221.6	100.0
0°-180°	6221.6	100.0



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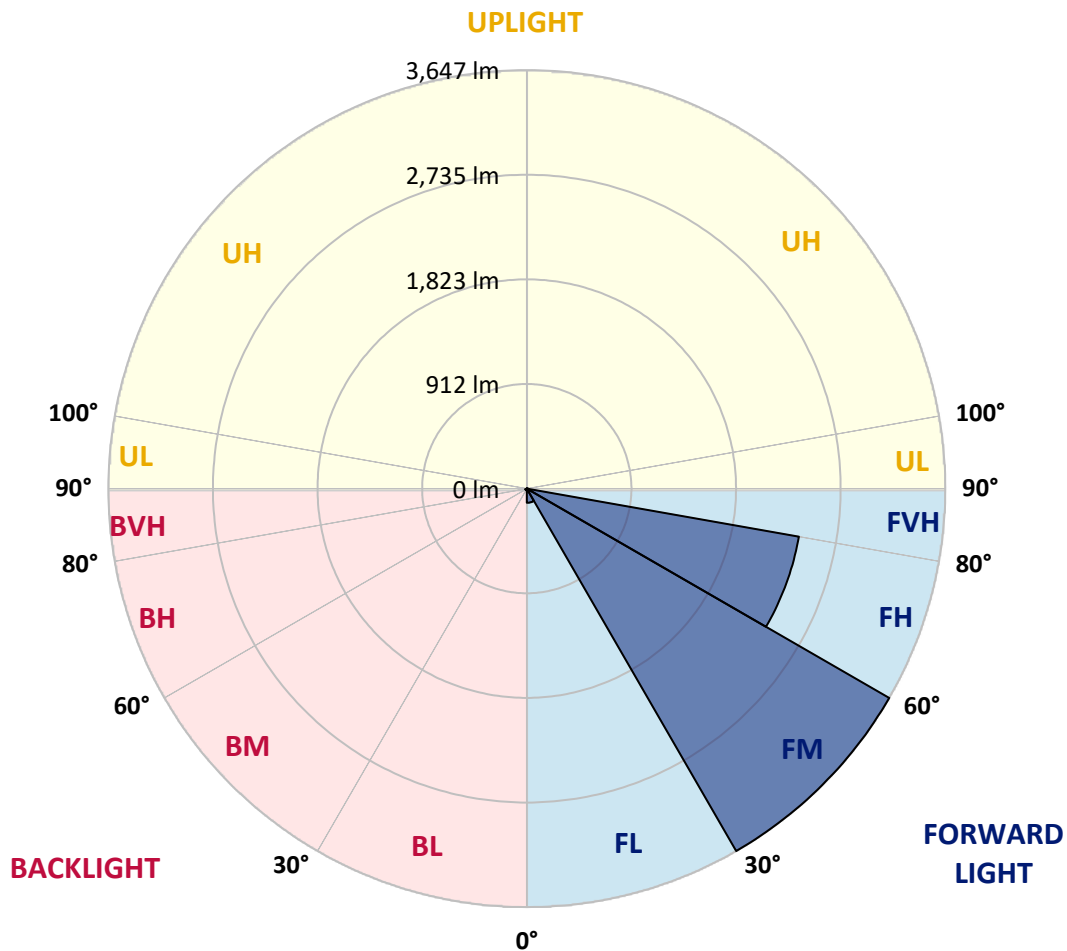
CATALOG NUMBER: NAV-SA2A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.6	2.0			
FM	(30°-60°)	3646.9	58.6			
FH	(60°-80°)	2407.8	38.7			G2/5000
FVH	(80°-90°)	13.3	0.2			G1/100
BL	(0°-30°)	3.3	0.1	B0/110		
BM	(30°-60°)	12.3	0.2	B0/220		
BH	(60°-80°)	13.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	27.3	27.3	25.4	23.4	21.5	19.5	19.5	19.5	17.6	17.6	15.6
5°	31.2	31.2	29.3	27.3	27.3	25.4	25.4	23.4	21.5	21.5	19.5
7.5°	33.2	33.2	33.2	33.2	31.2	31.2	31.2	29.3	27.3	25.4	23.4
10°	35.1	37.1	39.0	39.0	39.0	39.0	39.0	37.1	33.2	31.2	27.3
12.5°	39.0	41.0	44.9	48.8	48.8	50.7	48.8	46.8	42.9	37.1	31.2
15°	42.9	46.8	52.7	60.5	68.3	70.2	70.2	64.4	56.6	44.9	37.1
17.5°	48.8	54.6	70.2	95.6	122.9	144.3	144.3	128.7	89.7	58.5	42.9
20°	52.7	64.4	113.1	230.2	351.1	440.9	423.3	374.5	200.9	91.7	46.8
22.5°	58.5	81.9	239.9	604.7	936.3	1100.2	1061.2	805.6	450.6	163.9	56.6
25°	66.3	119.0	476.0	1133.3	1740.0	1917.5	1892.2	1504.0	821.2	275.0	72.2
27.5°	81.9	175.6	762.7	1718.5	2567.1	2719.2	2709.5	2202.3	1312.8	442.8	93.6
30°	103.4	255.5	1131.4	2335.0	3115.2	3269.3	3220.6	2713.4	1771.2	676.9	120.9
32.5°	128.7	357.0	1465.0	2789.5	3620.4	3823.3	3764.8	3158.1	2139.9	875.9	179.5
35°	167.8	456.5	1794.6	3191.3	4203.7	4461.2	4363.7	3616.5	2457.8	1100.2	216.5
37.5°	187.3	515.0	2097.0	3628.3	4859.1	5210.2	5136.1	4195.9	2781.7	1386.9	265.3
40°	189.2	585.2	2411.0	4197.8	5785.7	6411.9	6279.2	5190.7	3384.4	1755.6	341.4
42.5°	195.1	690.5	2818.7	5169.3	7605.7	8504.9	8354.7	7020.5	4751.8	2494.9	483.8
45°	222.4	889.5	3649.7	6985.4	10104.5	11423.1	11249.5	9570.0	6661.5	3885.7	825.1
47.5°	318.0	1338.2	5106.9	8945.8	12659.9	13711.3	13668.4	11579.2	8391.8	5311.7	1398.6
50°	511.1	2054.1	6764.9	10594.1	14286.7	15189.9	15082.6	12418.0	9378.8	6285.1	1792.7
52.5°	682.7	2738.7	7806.6	11200.8	14772.4	15849.2	15718.5	12724.2	9638.3	6571.8	1901.9
55°	725.7	2986.5	8116.7	11388.0	15094.3	16407.1	16217.9	12929.1	9671.4	6367.0	1720.5
57.5°	704.2	2752.4	7915.8	11571.4	15543.0	16980.6	16729.0	13328.9	9782.6	6019.8	1431.8
59°	667.1	2463.7	7791.0	11717.7	15790.7	17070.3	16834.3	13416.7	9856.7	5861.8	1256.2
60°	624.2	2268.6	7693.5	11813.3	15775.1	16929.9	16686.1	13375.8	9886.0	5725.2	1172.4
62.5°	481.8	1810.2	7553.0	11745.0	14790.0	15648.3	15509.8	12373.1	9456.9	5288.3	924.6
65°	374.5	1385.0	7038.0	10475.1	12585.7	13163.1	13120.2	10477.1	7958.7	4558.7	667.1
67.5°	296.5	1010.4	5951.5	8483.5	10125.9	10947.2	10916.0	8504.9	6041.2	3483.9	479.9
70°	241.9	719.8	4080.8	6396.3	8099.2	9133.0	9088.2	6844.9	4476.8	2210.1	349.2
72.5°	204.8	460.4	2475.4	4822.1	6759.1	7350.1	7219.4	5522.4	3255.7	1203.6	277.0
75°	173.6	282.8	1227.0	3006.0	4026.2	4022.3	3891.6	2924.1	1747.8	589.1	220.4
77.5°	140.4	199.0	481.8	825.1	1269.9	1572.2	1546.9	1035.8	522.8	171.7	136.5
80°	91.7	93.6	128.7	226.3	349.2	386.2	438.9	316.0	152.2	81.9	56.6
82.5°	41.0	44.9	58.5	74.1	74.1	68.3	60.5	44.9	33.2	27.3	13.7
85°	9.8	13.7	9.8	11.7	9.8	7.8	7.8	3.9	0.0	0.0	0.0
87.5°	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	15.6	15.6	15.6	13.7	13.7	13.7	11.7	11.7	11.7	9.8	9.8
5°	19.5	17.6	15.6	15.6	13.7	13.7	11.7	9.8	9.8	9.8	7.8
7.5°	21.5	19.5	17.6	15.6	13.7	11.7	11.7	9.8	7.8	7.8	7.8
10°	25.4	23.4	19.5	15.6	13.7	11.7	9.8	9.8	7.8	5.9	5.9
12.5°	29.3	25.4	21.5	17.6	13.7	11.7	9.8	9.8	7.8	5.9	3.9
15°	33.2	29.3	23.4	17.6	13.7	11.7	9.8	9.8	5.9	3.9	2.0
17.5°	37.1	31.2	23.4	19.5	13.7	11.7	9.8	7.8	3.9	2.0	0.0
20°	39.0	33.2	25.4	19.5	13.7	11.7	9.8	5.9	2.0	0.0	0.0
22.5°	42.9	37.1	27.3	19.5	13.7	9.8	5.9	2.0	0.0	0.0	0.0
25°	50.7	39.0	27.3	19.5	13.7	9.8	3.9	0.0	0.0	0.0	0.0
27.5°	56.6	42.9	27.3	19.5	13.7	7.8	2.0	0.0	0.0	0.0	0.0
30°	66.3	46.8	29.3	19.5	13.7	5.9	2.0	0.0	0.0	0.0	0.0
32.5°	81.9	50.7	29.3	19.5	11.7	5.9	0.0	0.0	0.0	0.0	0.0
35°	99.5	58.5	29.3	19.5	11.7	5.9	0.0	0.0	0.0	0.0	0.0
37.5°	101.4	62.4	29.3	19.5	11.7	3.9	0.0	0.0	0.0	0.0	0.0
40°	105.3	58.5	31.2	19.5	11.7	3.9	0.0	0.0	0.0	0.0	0.0
42.5°	120.9	54.6	33.2	19.5	11.7	3.9	0.0	0.0	0.0	0.0	0.0
45°	179.5	56.6	33.2	21.5	11.7	5.9	0.0	0.0	0.0	0.0	0.0
47.5°	312.1	58.5	31.2	21.5	11.7	5.9	0.0	0.0	0.0	0.0	0.0
50°	399.9	68.3	31.2	23.4	13.7	3.9	0.0	0.0	0.0	0.0	0.0
52.5°	425.2	80.0	31.2	25.4	17.6	2.0	0.0	0.0	0.0	0.0	0.0
55°	413.5	93.6	33.2	27.3	21.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	382.3	101.4	35.1	29.3	23.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	349.2	107.3	41.0	31.2	23.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	321.9	113.1	42.9	33.2	23.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	259.4	120.9	46.8	39.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	226.3	126.8	48.8	42.9	17.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	206.8	130.7	52.7	44.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	191.2	128.7	56.6	42.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	173.6	122.9	68.3	39.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	156.1	111.2	74.1	35.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	113.1	93.6	68.3	31.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.8	50.7	48.8	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	11.7	9.8	5.9	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°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	9.8	9.8	9.8	9.8	11.7	11.7	15.6	19.5	23.4	25.4	25.4
5°	7.8	7.8	7.8	7.8	7.8	9.8	11.7	15.6	21.5	23.4	23.4
7.5°	5.9	5.9	5.9	5.9	5.9	5.9	9.8	13.7	19.5	21.5	23.4
10°	5.9	3.9	3.9	2.0	2.0	3.9	5.9	11.7	17.6	19.5	21.5
12.5°	3.9	2.0	2.0	0.0	0.0	2.0	3.9	9.8	15.6	17.6	19.5
15°	2.0	0.0	0.0	0.0	0.0	0.0	2.0	7.8	13.7	15.6	19.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.7	15.6	17.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8	13.7	15.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.8	11.7	13.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	7.8	9.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.9	7.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.9	7.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9	5.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9	5.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9	3.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	27.3	27.3	25.4	23.4	23.4	23.4	25.4	27.3	27.3	27.3
5°	25.4	25.4	23.4	23.4	23.4	23.4	25.4	29.3	31.2	31.2
7.5°	25.4	25.4	23.4	23.4	23.4	23.4	25.4	29.3	31.2	33.2
10°	23.4	23.4	23.4	23.4	21.5	23.4	25.4	29.3	35.1	35.1
12.5°	23.4	23.4	23.4	23.4	21.5	23.4	27.3	31.2	37.1	39.0
15°	23.4	23.4	23.4	21.5	21.5	23.4	27.3	33.2	39.0	42.9
17.5°	21.5	23.4	23.4	21.5	21.5	23.4	27.3	33.2	42.9	48.8
20°	19.5	21.5	23.4	21.5	21.5	21.5	27.3	33.2	44.9	52.7
22.5°	17.6	19.5	21.5	21.5	19.5	21.5	27.3	35.1	48.8	58.5
25°	15.6	17.6	17.6	19.5	19.5	21.5	27.3	35.1	50.7	66.3
27.5°	11.7	13.7	15.6	17.6	17.6	21.5	27.3	37.1	54.6	81.9
30°	9.8	11.7	13.7	15.6	17.6	21.5	27.3	37.1	58.5	103.4
32.5°	9.8	11.7	13.7	15.6	17.6	19.5	27.3	39.0	64.4	128.7
35°	7.8	9.8	11.7	15.6	15.6	19.5	27.3	39.0	70.2	167.8
37.5°	7.8	9.8	11.7	15.6	15.6	19.5	27.3	39.0	85.8	187.3
40°	5.9	7.8	9.8	15.6	15.6	19.5	29.3	41.0	87.8	189.2
42.5°	5.9	7.8	9.8	13.7	15.6	19.5	29.3	41.0	81.9	195.1
45°	5.9	7.8	9.8	15.6	17.6	21.5	29.3	42.9	80.0	222.4
47.5°	5.9	7.8	9.8	15.6	19.5	21.5	29.3	42.9	81.9	318.0
50°	5.9	7.8	9.8	15.6	21.5	21.5	29.3	42.9	89.7	511.1
52.5°	3.9	5.9	7.8	13.7	17.6	23.4	31.2	41.0	95.6	682.7
55°	3.9	3.9	5.9	11.7	15.6	25.4	33.2	41.0	111.2	725.7
57.5°	3.9	3.9	5.9	9.8	13.7	27.3	35.1	41.0	128.7	704.2
59°	3.9	3.9	3.9	9.8	11.7	27.3	35.1	42.9	130.7	667.1
60°	3.9	3.9	3.9	7.8	11.7	27.3	37.1	44.9	132.6	624.2
62.5°	2.0	2.0	2.0	7.8	9.8	27.3	41.0	54.6	136.5	481.8
65°	3.9	3.9	2.0	5.9	9.8	23.4	46.8	58.5	138.5	374.5
67.5°	3.9	3.9	3.9	7.8	9.8	23.4	48.8	60.5	138.5	296.5
70°	3.9	3.9	3.9	7.8	11.7	23.4	48.8	62.4	136.5	241.9
72.5°	3.9	3.9	3.9	7.8	11.7	21.5	44.9	64.4	130.7	204.8
75°	3.9	3.9	3.9	5.9	9.8	19.5	42.9	70.2	119.0	173.6
77.5°	3.9	3.9	3.9	3.9	7.8	15.6	39.0	78.0	105.3	140.4
80°	5.9	3.9	3.9	3.9	5.9	13.7	37.1	76.1	87.8	91.7
82.5°	5.9	3.9	3.9	2.0	3.9	9.8	29.3	58.5	44.9	41.0
85°	3.9	3.9	3.9	2.0	2.0	5.9	13.7	17.6	13.7	9.8
87.5°	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

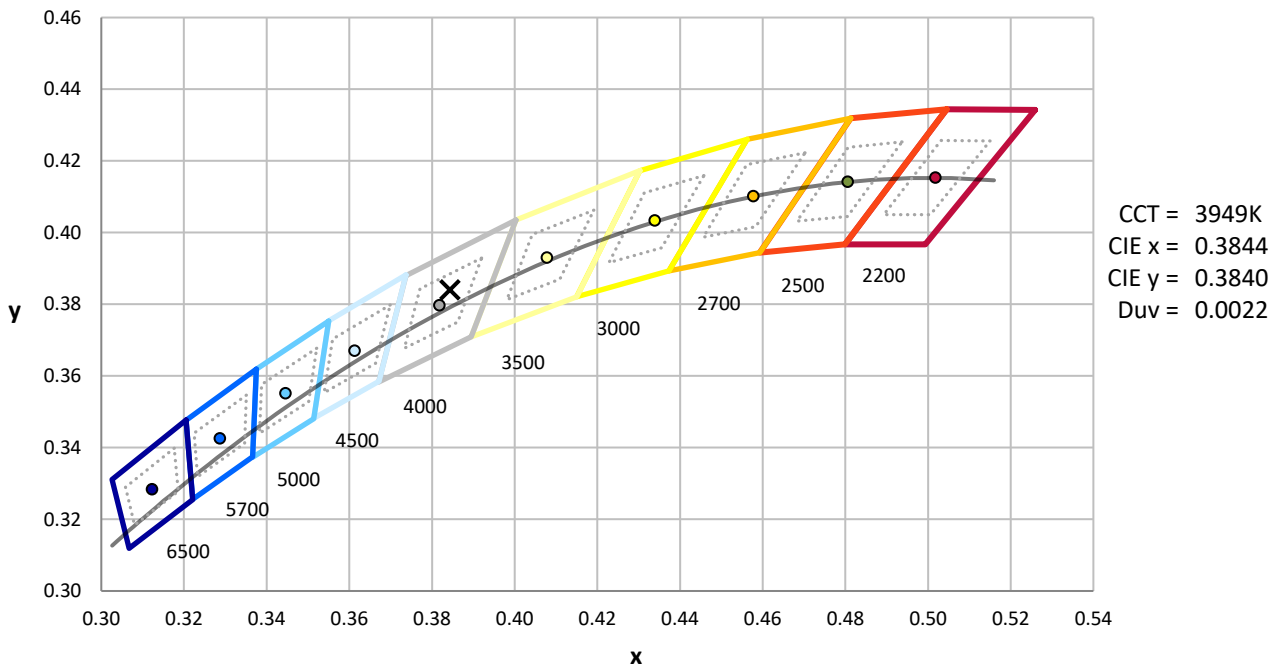
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

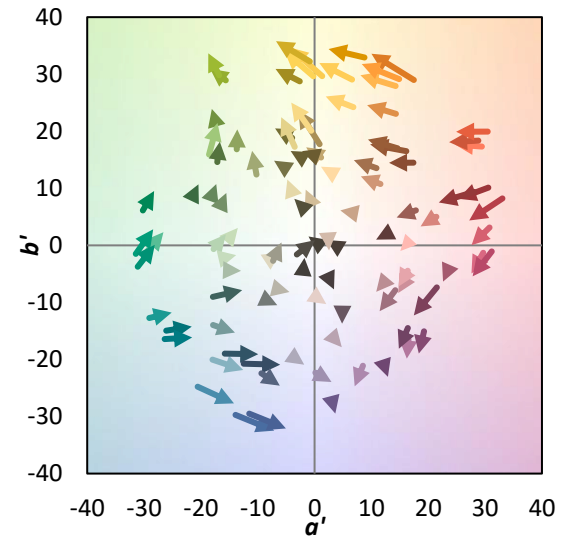
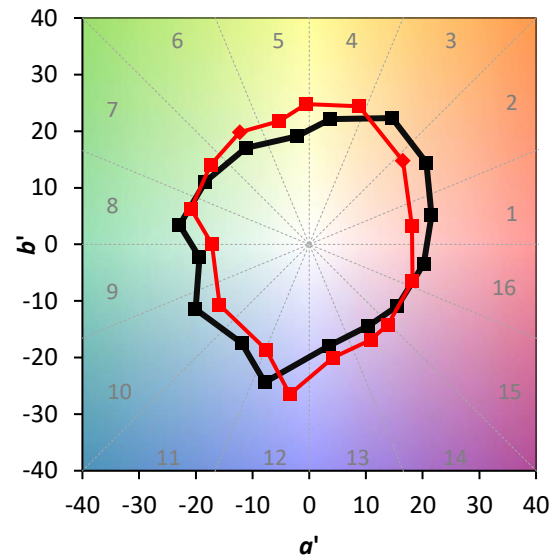
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$



Color Vector Graphics

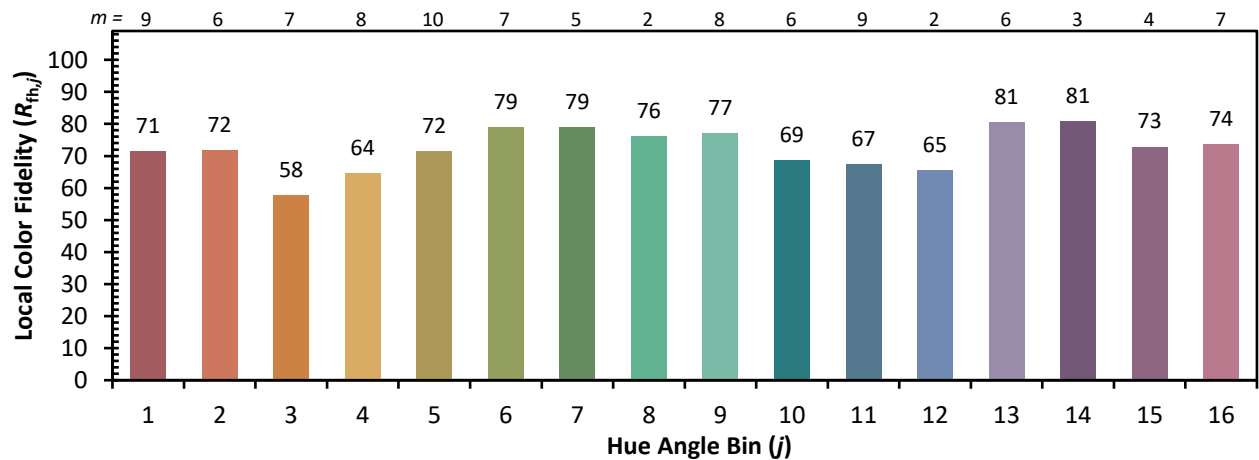
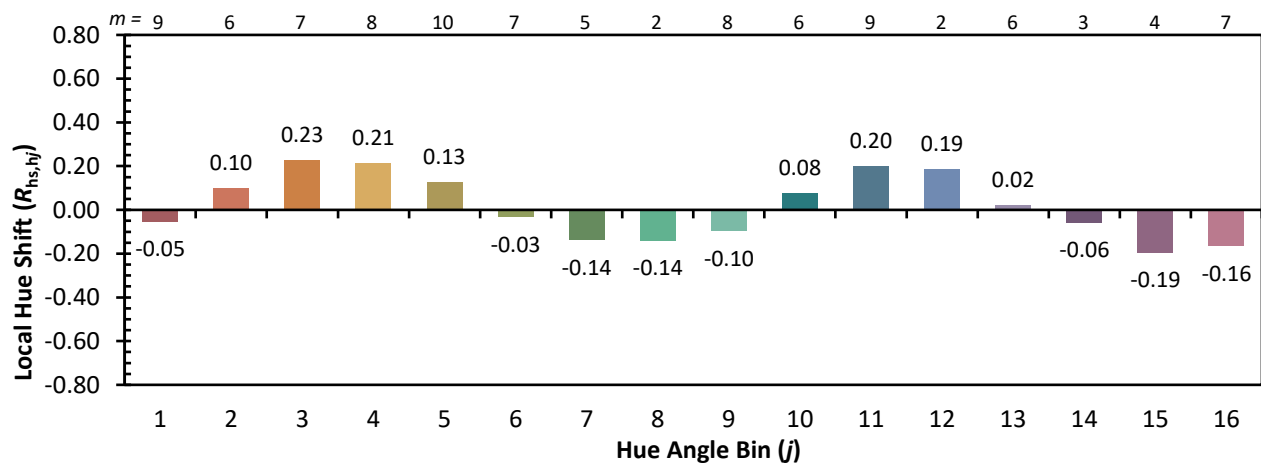
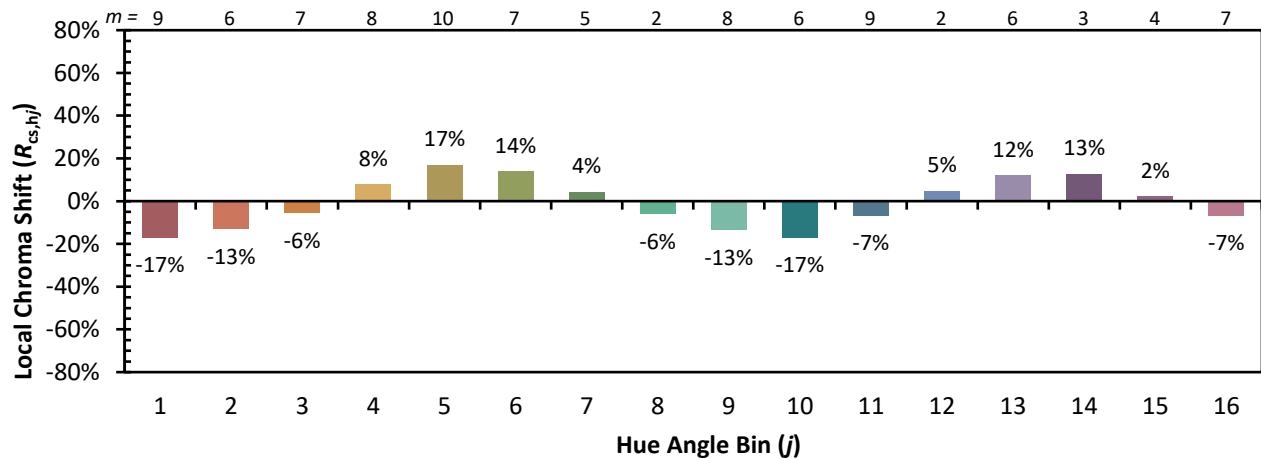


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)