

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: P1067881

Luminaire Tested: **NAV-SA4A-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067881
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12226.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4
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



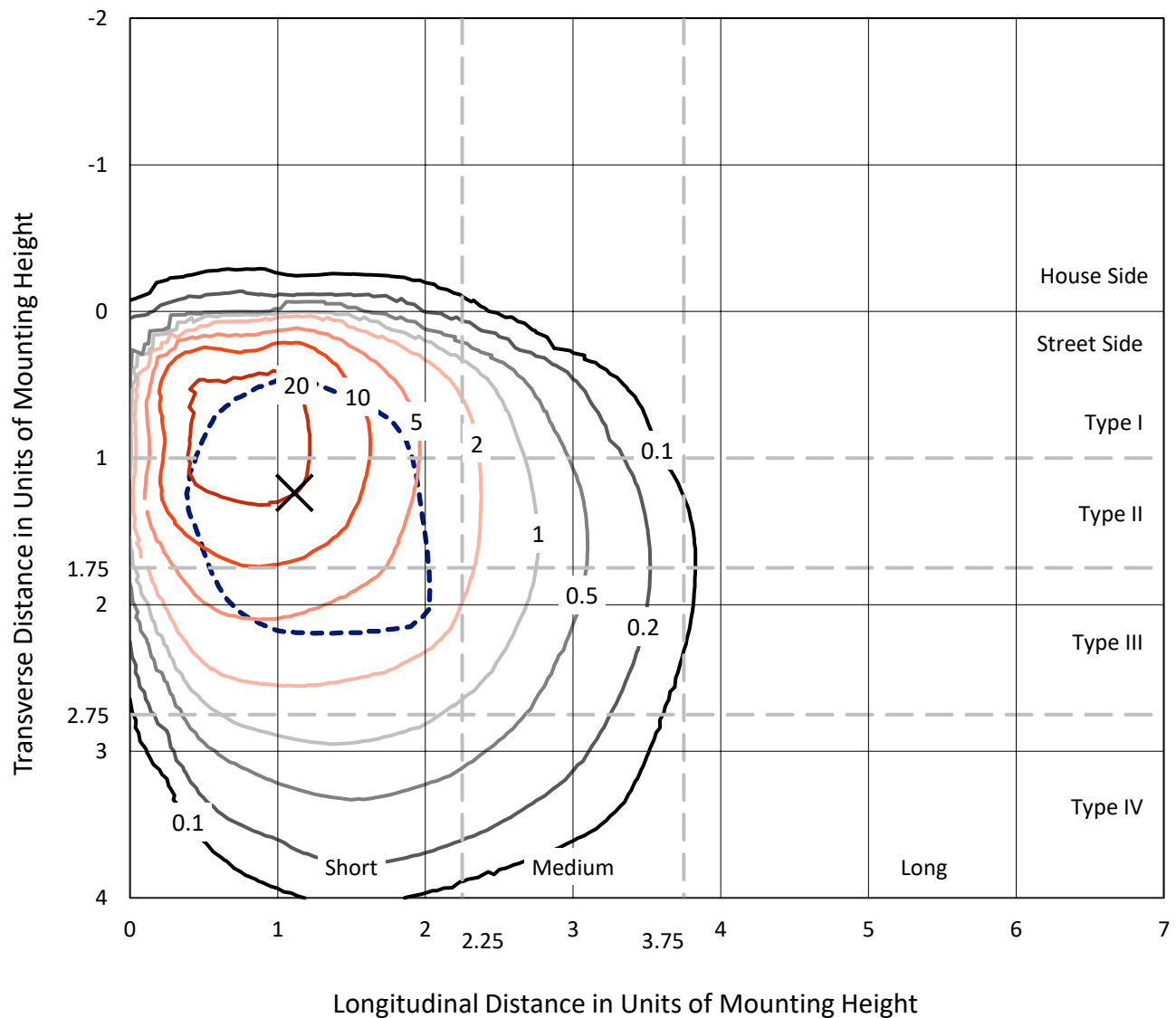
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

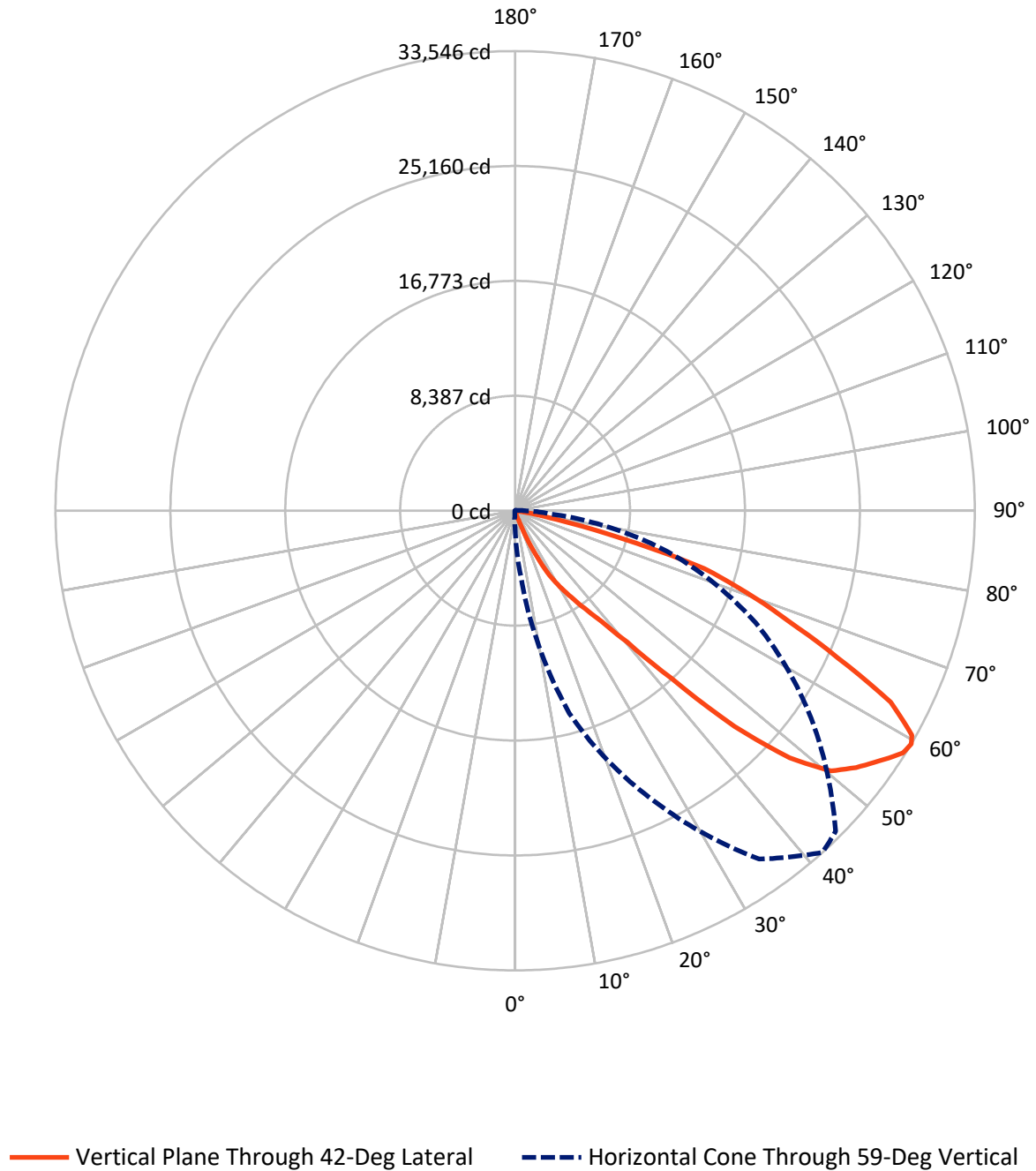


Based on 15 foot mounting height. Maximum calculated value = 36.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	58.9	0.0	58.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	12167.5	0.0	12167.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	12226.4	0.0	12226.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.0
10°-20°	17.8	0.1
20°-30°	228.1	1.9
30°-40°	768.9	6.3
40°-50°	2322.4	19.0
50°-60°	4099.5	33.5
60°-70°	3609.7	29.5
70°-80°	1149.0	9.4
80°-90°	27.5	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°	12226.4	100.0
0°-180°	12226.4	100.0



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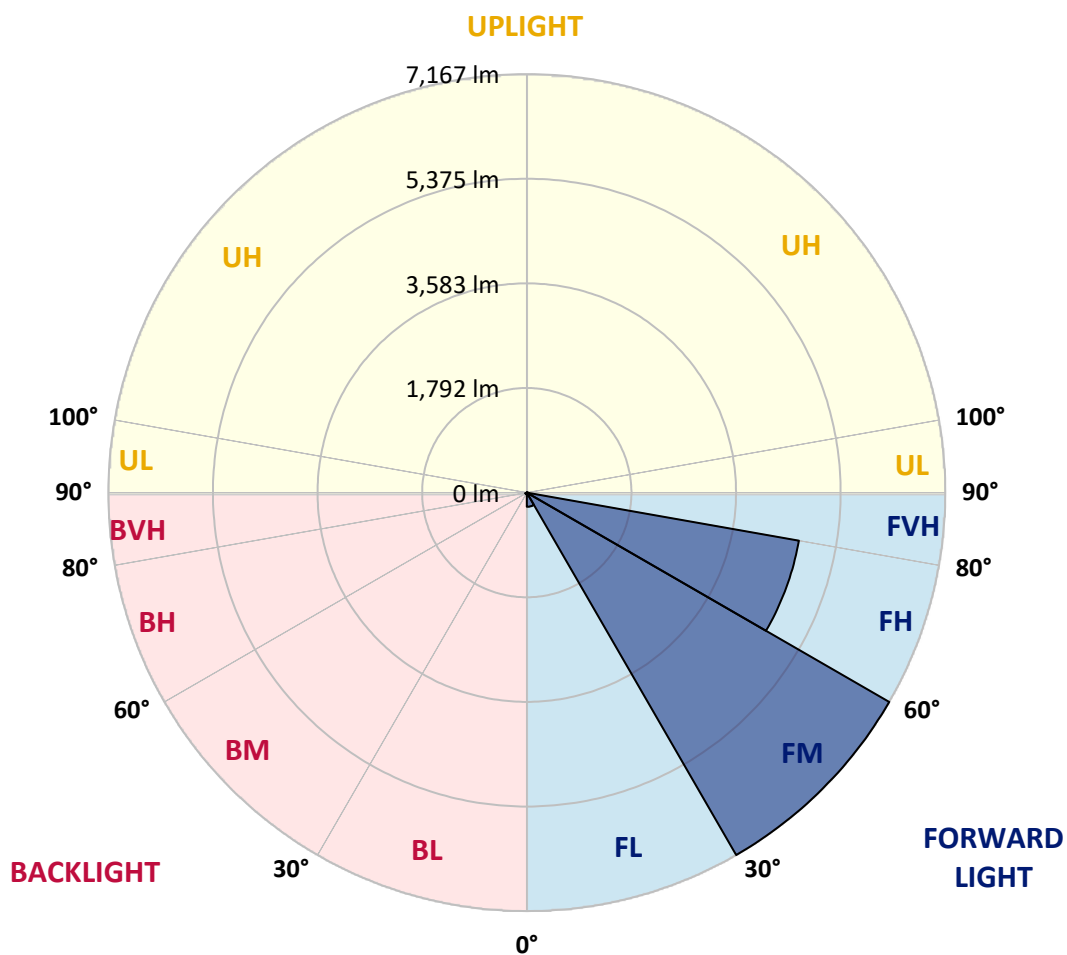
CATALOG NUMBER: NAV-SA4A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.9	2.0			
FM	(30°-60°)	7166.7	58.6			
FH	(60°-80°)	4731.8	38.7			G2/5000
FVH	(80°-90°)	26.2	0.2			G1/100
BL	(0°-30°)	6.6	0.1	B0/110		
BM	(30°-60°)	24.1	0.2	B0/220		
BH	(60°-80°)	26.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	53.7	53.7	49.8	46.0	42.2	38.3	38.3	38.3	34.5	34.5	30.7
5°	61.3	61.3	57.5	53.7	53.7	49.8	49.8	46.0	42.2	42.2	38.3
7.5°	65.2	65.2	65.2	65.2	61.3	61.3	61.3	57.5	53.7	49.8	46.0
10°	69.0	72.8	76.7	76.7	76.7	76.7	76.7	72.8	65.2	61.3	53.7
12.5°	76.7	80.5	88.2	95.8	95.8	99.7	95.8	92.0	84.3	72.8	61.3
15°	84.3	92.0	103.5	118.8	134.2	138.0	138.0	126.5	111.2	88.2	72.8
17.5°	95.8	107.3	138.0	187.8	241.5	283.7	283.7	253.0	176.3	115.0	84.3
20°	103.5	126.5	222.3	452.3	690.0	866.3	831.8	736.0	394.8	180.2	92.0
22.5°	115.0	161.0	471.5	1188.4	1840.0	2162.0	2085.4	1583.2	885.5	322.0	111.2
25°	130.3	233.8	935.3	2227.2	3419.4	3768.2	3718.4	2955.6	1613.9	540.5	141.8
27.5°	161.0	345.0	1498.9	3377.2	5044.8	5343.8	5324.6	4327.9	2579.9	870.2	184.0
30°	203.2	502.2	2223.4	4588.6	6121.9	6424.8	6328.9	5332.3	3480.7	1330.2	237.7
32.5°	253.0	701.5	2878.9	5481.8	7114.8	7513.5	7398.5	6206.3	4205.2	1721.2	352.7
35°	329.7	897.0	3526.7	6271.4	8261.0	8767.0	8575.3	7107.1	4830.1	2162.0	425.5
37.5°	368.0	1012.0	4120.9	7130.1	9549.0	10239.0	10093.3	8245.6	5466.4	2725.5	521.3
40°	371.8	1150.0	4738.1	8249.5	11369.9	12600.4	12339.7	10200.7	6650.9	3450.1	670.8
42.5°	383.3	1357.0	5539.3	10158.5	14946.4	16713.6	16418.5	13796.4	9338.2	4902.9	950.7
45°	437.0	1748.0	7172.3	13727.4	19857.0	22448.4	22107.2	18806.7	13091.1	7636.1	1621.5
47.5°	624.8	2629.7	10035.8	17580.0	24878.8	26945.0	26860.6	22755.1	16491.3	10438.3	2748.5
50°	1004.4	4036.6	13294.2	20819.2	28075.8	29850.7	29639.9	24403.4	18431.0	12351.2	3522.9
52.5°	1341.7	5382.1	15341.3	22011.4	29030.3	31146.4	30889.5	25005.3	18940.8	12914.7	3737.6
55°	1426.0	5868.9	15950.8	22379.4	29662.9	32242.7	31870.9	25407.8	19006.0	12512.2	3381.1
57.5°	1383.9	5408.9	15555.9	22739.7	30544.5	33369.8	32875.2	26193.6	19224.5	11829.9	2813.7
59°	1311.0	4841.6	15310.6	23027.2	31031.4	33546.1	33082.2	26366.1	19370.2	11519.4	2468.7
60°	1226.7	4458.2	15118.9	23215.1	31000.7	33270.1	32790.9	26285.6	19427.7	11251.0	2303.9
62.5°	946.8	3557.4	14842.9	23080.9	29064.8	30751.5	30479.4	24315.3	18584.3	10392.3	1817.0
65°	736.0	2721.7	13830.9	20585.4	24733.1	25867.8	25783.5	20589.2	15640.3	8958.7	1311.0
67.5°	582.7	1985.7	11695.7	16671.5	19899.2	21513.0	21451.7	16713.6	11872.0	6846.5	943.0
70°	475.3	1414.5	8019.5	12569.7	15916.3	17948.0	17859.8	13451.4	8797.7	4343.2	686.2
72.5°	402.5	904.7	4864.6	9476.2	13282.7	14444.3	14187.4	10852.4	6397.9	2365.2	544.3
75°	341.2	555.8	2411.2	5907.3	7912.1	7904.5	7647.6	5746.3	3434.7	1157.7	433.2
77.5°	276.0	391.0	946.8	1621.5	2495.5	3089.7	3039.9	2035.5	1027.4	337.3	268.3
80°	180.2	184.0	253.0	444.7	686.2	759.0	862.5	621.0	299.0	161.0	111.2
82.5°	80.5	88.2	115.0	145.7	145.7	134.2	118.8	88.2	65.2	53.7	26.8
85°	19.2	26.8	19.2	23.0	19.2	15.3	15.3	7.7	0.0	0.0	0.0
87.5°	3.8	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°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	30.7	30.7	30.7	26.8	26.8	26.8	23.0	23.0	23.0	19.2	19.2
5°	38.3	34.5	30.7	30.7	26.8	26.8	23.0	19.2	19.2	19.2	15.3
7.5°	42.2	38.3	34.5	30.7	26.8	23.0	23.0	19.2	15.3	15.3	15.3
10°	49.8	46.0	38.3	30.7	26.8	23.0	19.2	19.2	15.3	11.5	11.5
12.5°	57.5	49.8	42.2	34.5	26.8	23.0	19.2	19.2	15.3	11.5	7.7
15°	65.2	57.5	46.0	34.5	26.8	23.0	19.2	19.2	11.5	7.7	3.8
17.5°	72.8	61.3	46.0	38.3	26.8	23.0	19.2	15.3	7.7	3.8	0.0
20°	76.7	65.2	49.8	38.3	26.8	23.0	19.2	11.5	3.8	0.0	0.0
22.5°	84.3	72.8	53.7	38.3	26.8	19.2	11.5	3.8	0.0	0.0	0.0
25°	99.7	76.7	53.7	38.3	26.8	19.2	7.7	0.0	0.0	0.0	0.0
27.5°	111.2	84.3	53.7	38.3	26.8	15.3	3.8	0.0	0.0	0.0	0.0
30°	130.3	92.0	57.5	38.3	26.8	11.5	3.8	0.0	0.0	0.0	0.0
32.5°	161.0	99.7	57.5	38.3	23.0	11.5	0.0	0.0	0.0	0.0	0.0
35°	195.5	115.0	57.5	38.3	23.0	11.5	0.0	0.0	0.0	0.0	0.0
37.5°	199.3	122.7	57.5	38.3	23.0	7.7	0.0	0.0	0.0	0.0	0.0
40°	207.0	115.0	61.3	38.3	23.0	7.7	0.0	0.0	0.0	0.0	0.0
42.5°	237.7	107.3	65.2	38.3	23.0	7.7	0.0	0.0	0.0	0.0	0.0
45°	352.7	111.2	65.2	42.2	23.0	11.5	0.0	0.0	0.0	0.0	0.0
47.5°	613.3	115.0	61.3	42.2	23.0	11.5	0.0	0.0	0.0	0.0	0.0
50°	785.8	134.2	61.3	46.0	26.8	7.7	0.0	0.0	0.0	0.0	0.0
52.5°	835.7	157.2	61.3	49.8	34.5	3.8	0.0	0.0	0.0	0.0	0.0
55°	812.7	184.0	65.2	53.7	42.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	751.3	199.3	69.0	57.5	46.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	686.2	210.8	80.5	61.3	46.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	632.5	222.3	84.3	65.2	46.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	509.8	237.7	92.0	76.7	38.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	444.7	249.2	95.8	84.3	34.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	406.3	256.8	103.5	88.2	30.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	375.7	253.0	111.2	84.3	26.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	341.2	241.5	134.2	76.7	23.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	306.7	218.5	145.7	69.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	222.3	184.0	134.2	61.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.8	99.7	95.8	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	23.0	19.2	11.5	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°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	19.2	19.2	19.2	19.2	23.0	23.0	30.7	38.3	46.0	49.8	49.8
5°	15.3	15.3	15.3	15.3	15.3	19.2	23.0	30.7	42.2	46.0	46.0
7.5°	11.5	11.5	11.5	11.5	11.5	11.5	19.2	26.8	38.3	42.2	46.0
10°	11.5	7.7	7.7	3.8	3.8	7.7	11.5	23.0	34.5	38.3	42.2
12.5°	7.7	3.8	3.8	0.0	0.0	3.8	7.7	19.2	30.7	34.5	38.3
15°	3.8	0.0	0.0	0.0	0.0	0.0	3.8	15.3	26.8	30.7	38.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	23.0	30.7	34.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.2	26.8	30.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	15.3	23.0	26.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	15.3	19.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	11.5	15.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	11.5	15.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	11.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	11.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	7.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
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°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	53.7	53.7	49.8	46.0	46.0	46.0	49.8	53.7	53.7	53.7
5°	49.8	49.8	46.0	46.0	46.0	46.0	49.8	57.5	61.3	61.3
7.5°	49.8	49.8	46.0	46.0	46.0	46.0	49.8	57.5	61.3	65.2
10°	46.0	46.0	46.0	46.0	42.2	46.0	49.8	57.5	69.0	69.0
12.5°	46.0	46.0	46.0	46.0	42.2	46.0	53.7	61.3	72.8	76.7
15°	46.0	46.0	46.0	42.2	42.2	46.0	53.7	65.2	76.7	84.3
17.5°	42.2	46.0	46.0	42.2	42.2	46.0	53.7	65.2	84.3	95.8
20°	38.3	42.2	46.0	42.2	42.2	42.2	53.7	65.2	88.2	103.5
22.5°	34.5	38.3	42.2	42.2	38.3	42.2	53.7	69.0	95.8	115.0
25°	30.7	34.5	34.5	38.3	38.3	42.2	53.7	69.0	99.7	130.3
27.5°	23.0	26.8	30.7	34.5	34.5	42.2	53.7	72.8	107.3	161.0
30°	19.2	23.0	26.8	30.7	34.5	42.2	53.7	72.8	115.0	203.2
32.5°	19.2	23.0	26.8	30.7	34.5	38.3	53.7	76.7	126.5	253.0
35°	15.3	19.2	23.0	30.7	30.7	38.3	53.7	76.7	138.0	329.7
37.5°	15.3	19.2	23.0	30.7	30.7	38.3	53.7	76.7	168.7	368.0
40°	11.5	15.3	19.2	30.7	30.7	38.3	57.5	80.5	172.5	371.8
42.5°	11.5	15.3	19.2	26.8	30.7	38.3	57.5	80.5	161.0	383.3
45°	11.5	15.3	19.2	30.7	34.5	42.2	57.5	84.3	157.2	437.0
47.5°	11.5	15.3	19.2	30.7	38.3	42.2	57.5	84.3	161.0	624.8
50°	11.5	15.3	19.2	30.7	42.2	42.2	57.5	84.3	176.3	1004.4
52.5°	7.7	11.5	15.3	26.8	34.5	46.0	61.3	80.5	187.8	1341.7
55°	7.7	7.7	11.5	23.0	30.7	49.8	65.2	80.5	218.5	1426.0
57.5°	7.7	7.7	11.5	19.2	26.8	53.7	69.0	80.5	253.0	1383.9
59°	7.7	7.7	7.7	19.2	23.0	53.7	69.0	84.3	256.8	1311.0
60°	7.7	7.7	7.7	15.3	23.0	53.7	72.8	88.2	260.7	1226.7
62.5°	3.8	3.8	3.8	15.3	19.2	53.7	80.5	107.3	268.3	946.8
65°	7.7	7.7	3.8	11.5	19.2	46.0	92.0	115.0	272.2	736.0
67.5°	7.7	7.7	7.7	15.3	19.2	46.0	95.8	118.8	272.2	582.7
70°	7.7	7.7	7.7	15.3	23.0	46.0	95.8	122.7	268.3	475.3
72.5°	7.7	7.7	7.7	15.3	23.0	42.2	88.2	126.5	256.8	402.5
75°	7.7	7.7	7.7	11.5	19.2	38.3	84.3	138.0	233.8	341.2
77.5°	7.7	7.7	7.7	7.7	15.3	30.7	76.7	153.3	207.0	276.0
80°	11.5	7.7	7.7	7.7	11.5	26.8	72.8	149.5	172.5	180.2
82.5°	11.5	7.7	7.7	3.8	7.7	19.2	57.5	115.0	88.2	80.5
85°	7.7	7.7	7.7	3.8	3.8	11.5	26.8	34.5	26.8	19.2
87.5°	7.7	7.7	7.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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

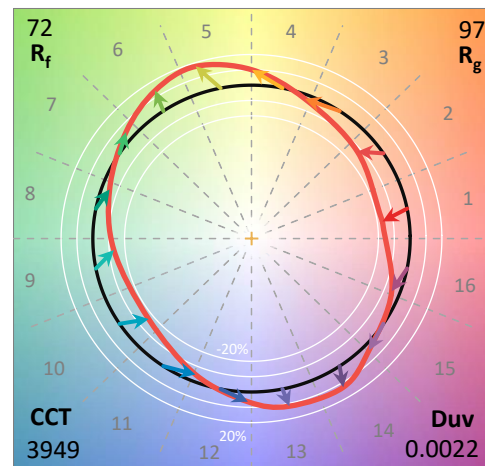
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

REPORT NUMBER: SP1-2407-184-1

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	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 [^] /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

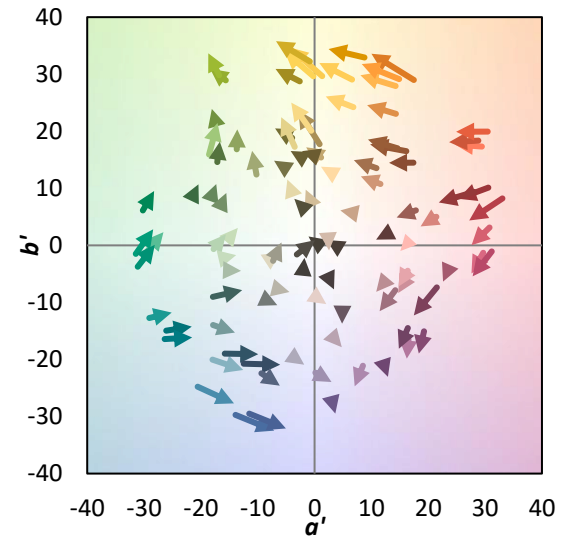
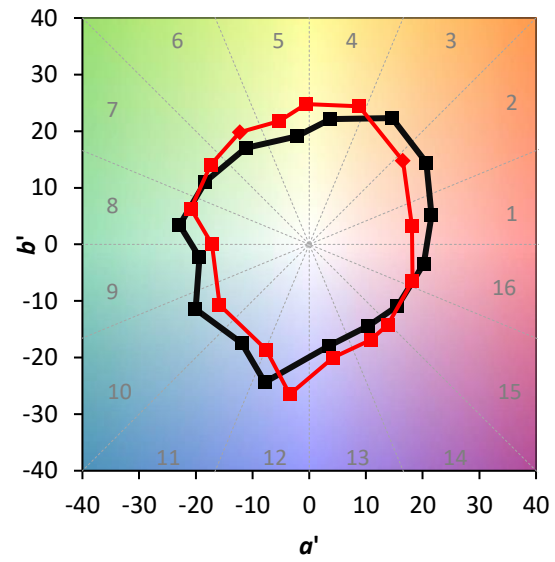
TM-30-18

Summary

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



Color Vector Graphics

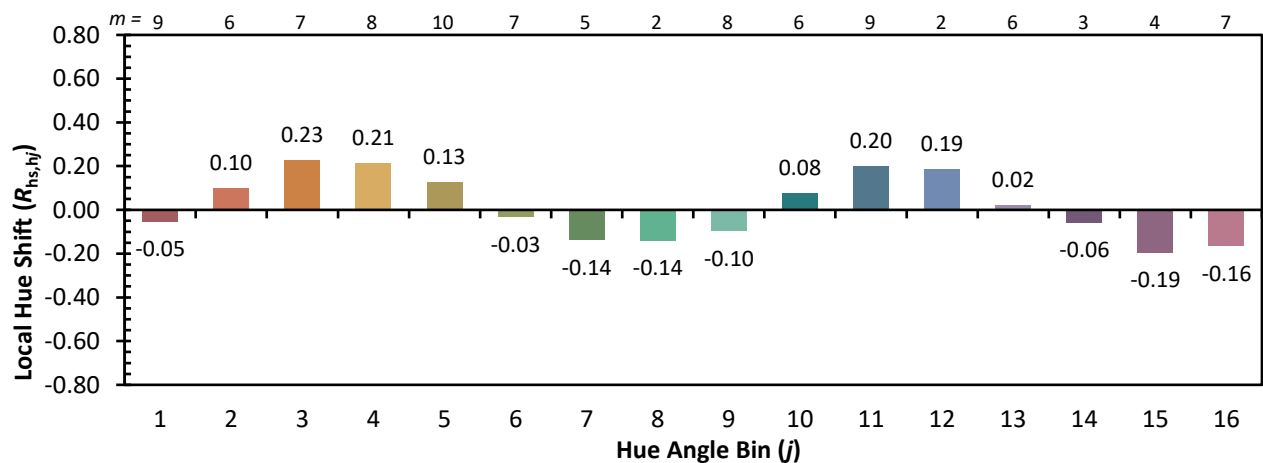


Individual Sample Fidelity Index ($R_{f,i}$)

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)