

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: P1067874

Luminaire Tested: **NAV-SA2B-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067874
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 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: 7786.5 lumens
Efficiency: N/A
Efficacy: 107.0 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): 72.8
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



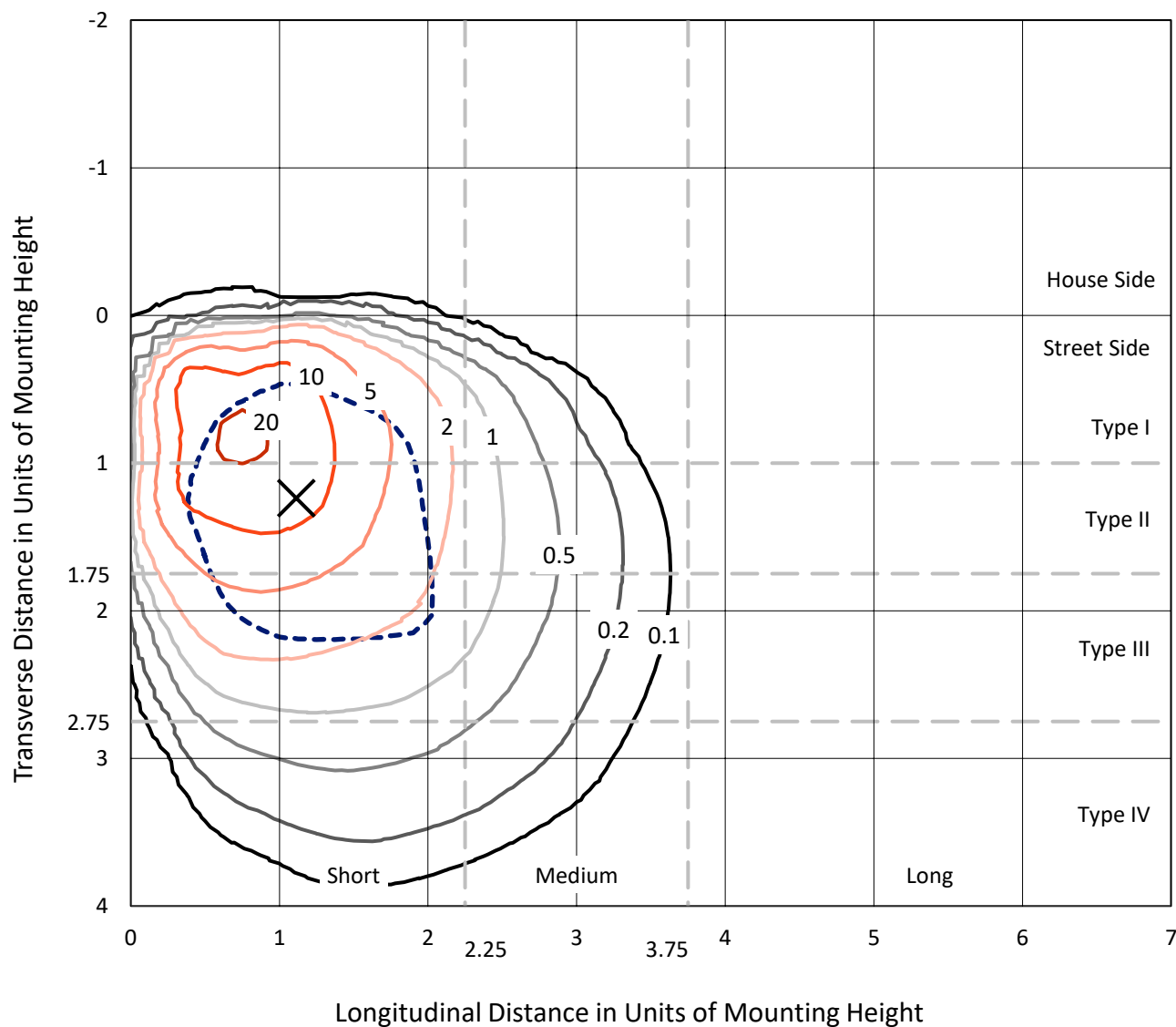
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

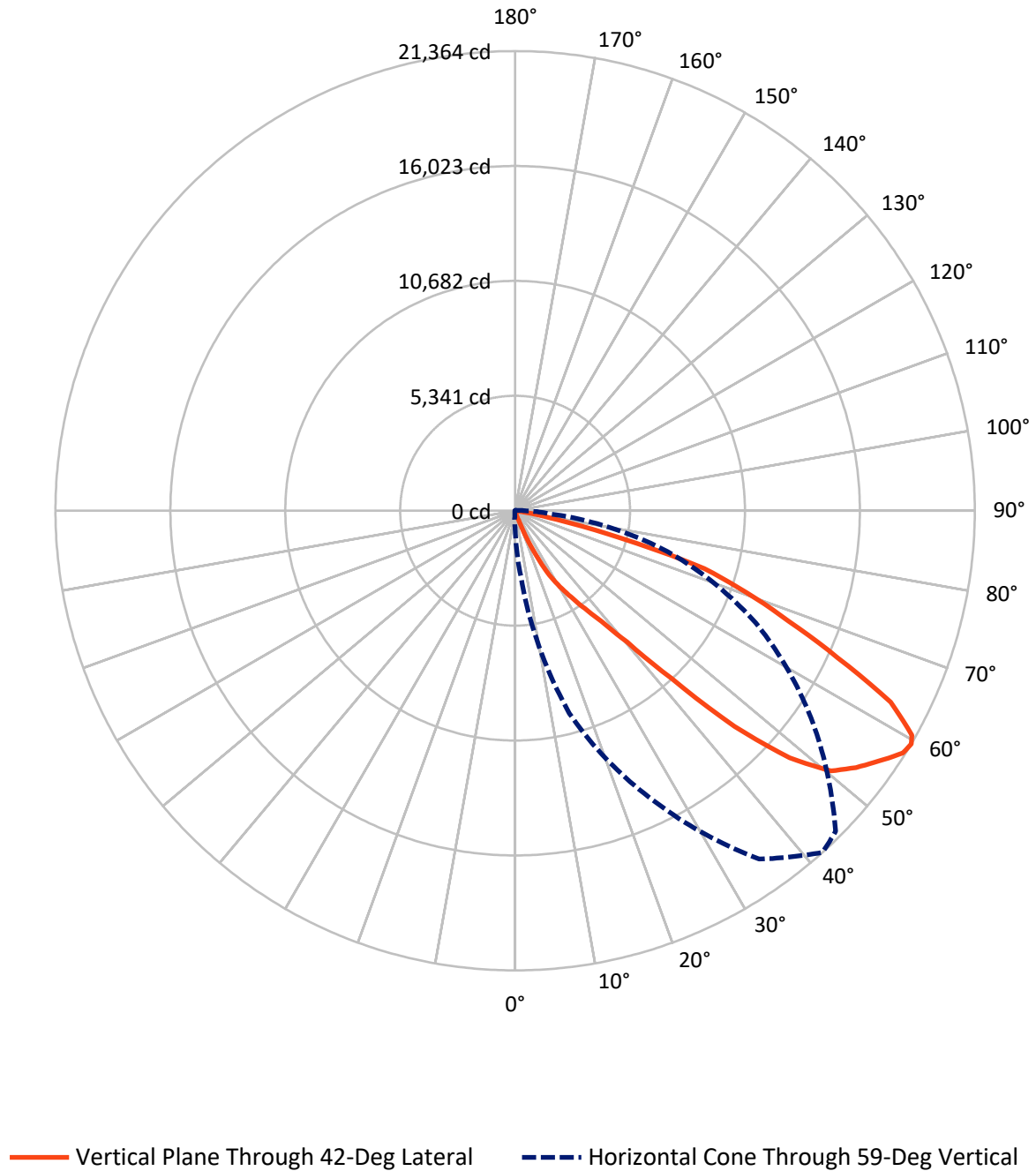


Based on 15 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.5	0.0	37.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7749.0	0.0	7749.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	7786.5	0.0	7786.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.0
10°-20°	11.4	0.1
20°-30°	145.2	1.9
30°-40°	489.7	6.3
40°-50°	1479.0	19.0
50°-60°	2610.8	33.5
60°-70°	2298.9	29.5
70°-80°	731.7	9.4
80°-90°	17.5	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°	7786.5	100.0
0°-180°	7786.5	100.0



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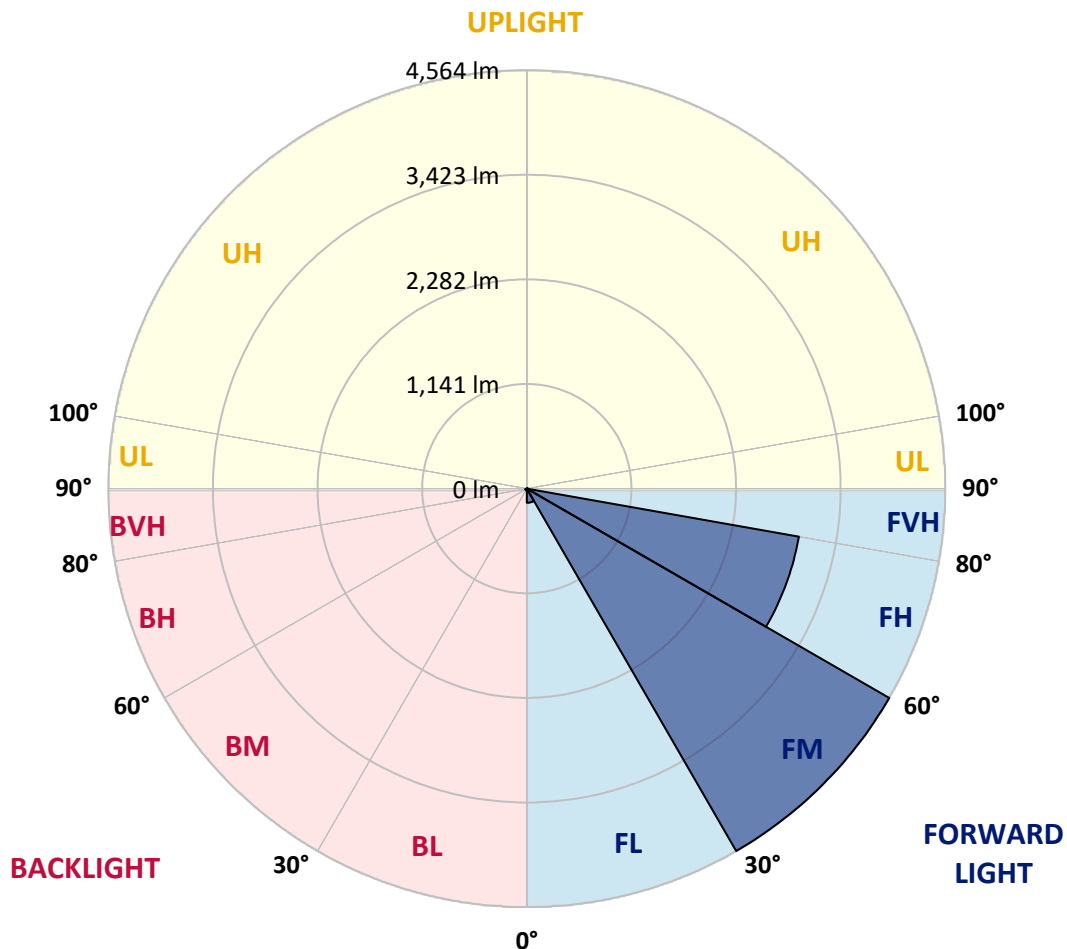
CATALOG NUMBER: NAV-SA2B-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.7	2.0			
FM	(30°-60°)	4564.2	58.6			
FH	(60°-80°)	3013.4	38.7			G2/5000
FVH	(80°-90°)	16.7	0.2			G1/100
BL	(0°-30°)	4.2	0.1	B0/110		
BM	(30°-60°)	15.3	0.2	B0/220		
BH	(60°-80°)	17.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	34.2	34.2	31.7	29.3	26.9	24.4	24.4	24.4	22.0	22.0	19.5
5°	39.1	39.1	36.6	34.2	34.2	31.7	31.7	29.3	26.9	26.9	24.4
7.5°	41.5	41.5	41.5	41.5	39.1	39.1	39.1	36.6	34.2	31.7	29.3
10°	43.9	46.4	48.8	48.8	48.8	48.8	48.8	46.4	41.5	39.1	34.2
12.5°	48.8	51.3	56.2	61.0	61.0	63.5	61.0	58.6	53.7	46.4	39.1
15°	53.7	58.6	65.9	75.7	85.4	87.9	87.9	80.6	70.8	56.2	46.4
17.5°	61.0	68.4	87.9	119.6	153.8	180.7	180.7	161.1	112.3	73.2	53.7
20°	65.9	80.6	141.6	288.1	439.4	551.7	529.8	468.7	251.5	114.7	58.6
22.5°	73.2	102.5	300.3	756.8	1171.8	1376.9	1328.1	1008.3	563.9	205.1	70.8
25°	83.0	148.9	595.7	1418.4	2177.7	2399.8	2368.1	1882.3	1027.8	344.2	90.3
27.5°	102.5	219.7	954.6	2150.8	3212.8	3403.2	3391.0	2756.3	1643.0	554.2	117.2
30°	129.4	319.8	1416.0	2922.3	3898.8	4091.7	4030.6	3395.9	2216.7	847.1	151.4
32.5°	161.1	446.8	1833.4	3491.1	4531.1	4785.0	4711.8	3952.5	2678.1	1096.2	224.6
35°	210.0	571.3	2246.0	3994.0	5261.1	5583.3	5461.2	4526.2	3076.1	1376.9	271.0
37.5°	234.4	644.5	2624.4	4540.9	6081.3	6520.8	6428.0	5251.3	3481.3	1735.8	332.0
40°	236.8	732.4	3017.5	5253.7	7241.0	8024.6	7858.6	6496.4	4235.7	2197.2	427.2
42.5°	244.1	864.2	3527.7	6469.5	9518.7	10644.2	10456.2	8786.3	5947.1	3122.5	605.4
45°	278.3	1113.2	4567.7	8742.4	12646.1	14296.4	14079.1	11977.1	8337.1	4863.1	1032.7
47.5°	397.9	1674.7	6391.4	11195.9	15844.2	17160.1	17106.3	14491.7	10502.6	6647.7	1750.4
50°	639.6	2570.7	8466.5	13258.8	17880.2	19010.6	18876.3	15541.5	11737.9	7865.9	2243.6
52.5°	854.5	3427.6	9770.2	14018.1	18488.1	19835.7	19672.2	15924.7	12062.6	8224.8	2380.3
55°	908.2	3737.7	10158.3	14252.4	18891.0	20534.0	20297.2	16181.1	12104.1	7968.5	2153.2
57.5°	881.3	3444.7	9906.9	14481.9	19452.5	21251.7	20936.8	16681.6	12243.2	7533.9	1791.9
59°	834.9	3083.4	9750.6	14665.0	19762.5	21364.0	21068.6	16791.4	12336.0	7336.2	1572.2
60°	781.2	2839.3	9628.6	14784.7	19743.0	21188.2	20883.1	16740.1	12372.6	7165.3	1467.2
62.5°	603.0	2265.5	9452.8	14699.2	18510.1	19584.3	19411.0	15485.3	11835.5	6618.4	1157.2
65°	468.7	1733.3	8808.3	13109.9	15751.4	16474.0	16420.3	13112.3	9960.6	5705.4	834.9
67.5°	371.1	1264.6	7448.5	10617.3	12672.9	13700.7	13661.6	10644.2	7560.8	4360.2	600.6
70°	302.7	900.8	5107.2	8005.1	10136.4	11430.3	11374.1	8566.6	5602.8	2766.0	437.0
72.5°	256.3	576.2	3098.0	6034.9	8459.2	9198.9	9035.3	6911.4	4074.6	1506.3	346.7
75°	217.3	354.0	1535.6	3762.1	5038.9	5034.0	4870.4	3659.5	2187.4	737.3	275.9
77.5°	175.8	249.0	603.0	1032.7	1589.3	1967.7	1936.0	1296.3	654.3	214.8	170.9
80°	114.7	117.2	161.1	283.2	437.0	483.4	549.3	395.5	190.4	102.5	70.8
82.5°	51.3	56.2	73.2	92.8	92.8	85.4	75.7	56.2	41.5	34.2	17.1
85°	12.2	17.1	12.2	14.6	12.2	9.8	9.8	4.9	0.0	0.0	0.0
87.5°	2.4	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	19.5	19.5	19.5	17.1	17.1	17.1	14.6	14.6	14.6	12.2	12.2
5°	24.4	22.0	19.5	19.5	17.1	17.1	14.6	12.2	12.2	12.2	9.8
7.5°	26.9	24.4	22.0	19.5	17.1	14.6	14.6	12.2	9.8	9.8	9.8
10°	31.7	29.3	24.4	19.5	17.1	14.6	12.2	12.2	9.8	7.3	7.3
12.5°	36.6	31.7	26.9	22.0	17.1	14.6	12.2	12.2	9.8	7.3	4.9
15°	41.5	36.6	29.3	22.0	17.1	14.6	12.2	12.2	7.3	4.9	2.4
17.5°	46.4	39.1	29.3	24.4	17.1	14.6	12.2	9.8	4.9	2.4	0.0
20°	48.8	41.5	31.7	24.4	17.1	14.6	12.2	7.3	2.4	0.0	0.0
22.5°	53.7	46.4	34.2	24.4	17.1	12.2	7.3	2.4	0.0	0.0	0.0
25°	63.5	48.8	34.2	24.4	17.1	12.2	4.9	0.0	0.0	0.0	0.0
27.5°	70.8	53.7	34.2	24.4	17.1	9.8	2.4	0.0	0.0	0.0	0.0
30°	83.0	58.6	36.6	24.4	17.1	7.3	2.4	0.0	0.0	0.0	0.0
32.5°	102.5	63.5	36.6	24.4	14.6	7.3	0.0	0.0	0.0	0.0	0.0
35°	124.5	73.2	36.6	24.4	14.6	7.3	0.0	0.0	0.0	0.0	0.0
37.5°	126.9	78.1	36.6	24.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
40°	131.8	73.2	39.1	24.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
42.5°	151.4	68.4	41.5	24.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
45°	224.6	70.8	41.5	26.9	14.6	7.3	0.0	0.0	0.0	0.0	0.0
47.5°	390.6	73.2	39.1	26.9	14.6	7.3	0.0	0.0	0.0	0.0	0.0
50°	500.5	85.4	39.1	29.3	17.1	4.9	0.0	0.0	0.0	0.0	0.0
52.5°	532.2	100.1	39.1	31.7	22.0	2.4	0.0	0.0	0.0	0.0	0.0
55°	517.6	117.2	41.5	34.2	26.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	478.5	126.9	43.9	36.6	29.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	437.0	134.3	51.3	39.1	29.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	402.8	141.6	53.7	41.5	29.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	324.7	151.4	58.6	48.8	24.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	283.2	158.7	61.0	53.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	258.8	163.6	65.9	56.2	19.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	239.2	161.1	70.8	53.7	17.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	217.3	153.8	85.4	48.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	195.3	139.2	92.8	43.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	141.6	117.2	85.4	39.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.0	63.5	61.0	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	14.6	12.2	7.3	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	12.2	12.2	12.2	12.2	14.6	14.6	19.5	24.4	29.3	31.7	31.7
5°	9.8	9.8	9.8	9.8	9.8	12.2	14.6	19.5	26.9	29.3	29.3
7.5°	7.3	7.3	7.3	7.3	7.3	7.3	12.2	17.1	24.4	26.9	29.3
10°	7.3	4.9	4.9	2.4	2.4	4.9	7.3	14.6	22.0	24.4	26.9
12.5°	4.9	2.4	2.4	0.0	0.0	2.4	4.9	12.2	19.5	22.0	24.4
15°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	9.8	17.1	19.5	24.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.6	19.5	22.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.2	17.1	19.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.8	14.6	17.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.8	12.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.3	9.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.3	9.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	7.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	4.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	34.2	34.2	31.7	29.3	29.3	29.3	31.7	34.2	34.2	34.2
5°	31.7	31.7	29.3	29.3	29.3	29.3	31.7	36.6	39.1	39.1
7.5°	31.7	31.7	29.3	29.3	29.3	29.3	31.7	36.6	39.1	41.5
10°	29.3	29.3	29.3	29.3	26.9	29.3	31.7	36.6	43.9	43.9
12.5°	29.3	29.3	29.3	29.3	26.9	29.3	34.2	39.1	46.4	48.8
15°	29.3	29.3	29.3	26.9	26.9	29.3	34.2	41.5	48.8	53.7
17.5°	26.9	29.3	29.3	26.9	26.9	29.3	34.2	41.5	53.7	61.0
20°	24.4	26.9	29.3	26.9	26.9	26.9	34.2	41.5	56.2	65.9
22.5°	22.0	24.4	26.9	26.9	24.4	26.9	34.2	43.9	61.0	73.2
25°	19.5	22.0	22.0	24.4	24.4	26.9	34.2	43.9	63.5	83.0
27.5°	14.6	17.1	19.5	22.0	22.0	26.9	34.2	46.4	68.4	102.5
30°	12.2	14.6	17.1	19.5	22.0	26.9	34.2	46.4	73.2	129.4
32.5°	12.2	14.6	17.1	19.5	22.0	24.4	34.2	48.8	80.6	161.1
35°	9.8	12.2	14.6	19.5	19.5	24.4	34.2	48.8	87.9	210.0
37.5°	9.8	12.2	14.6	19.5	19.5	24.4	34.2	48.8	107.4	234.4
40°	7.3	9.8	12.2	19.5	19.5	24.4	36.6	51.3	109.9	236.8
42.5°	7.3	9.8	12.2	17.1	19.5	24.4	36.6	51.3	102.5	244.1
45°	7.3	9.8	12.2	19.5	22.0	26.9	36.6	53.7	100.1	278.3
47.5°	7.3	9.8	12.2	19.5	24.4	26.9	36.6	53.7	102.5	397.9
50°	7.3	9.8	12.2	19.5	26.9	26.9	36.6	53.7	112.3	639.6
52.5°	4.9	7.3	9.8	17.1	22.0	29.3	39.1	51.3	119.6	854.5
55°	4.9	4.9	7.3	14.6	19.5	31.7	41.5	51.3	139.2	908.2
57.5°	4.9	4.9	7.3	12.2	17.1	34.2	43.9	51.3	161.1	881.3
59°	4.9	4.9	4.9	12.2	14.6	34.2	43.9	53.7	163.6	834.9
60°	4.9	4.9	4.9	9.8	14.6	34.2	46.4	56.2	166.0	781.2
62.5°	2.4	2.4	2.4	9.8	12.2	34.2	51.3	68.4	170.9	603.0
65°	4.9	4.9	2.4	7.3	12.2	29.3	58.6	73.2	173.3	468.7
67.5°	4.9	4.9	4.9	9.8	12.2	29.3	61.0	75.7	173.3	371.1
70°	4.9	4.9	4.9	9.8	14.6	29.3	61.0	78.1	170.9	302.7
72.5°	4.9	4.9	4.9	9.8	14.6	26.9	56.2	80.6	163.6	256.3
75°	4.9	4.9	4.9	7.3	12.2	24.4	53.7	87.9	148.9	217.3
77.5°	4.9	4.9	4.9	4.9	9.8	19.5	48.8	97.7	131.8	175.8
80°	7.3	4.9	4.9	4.9	7.3	17.1	46.4	95.2	109.9	114.7
82.5°	7.3	4.9	4.9	2.4	4.9	12.2	36.6	73.2	56.2	51.3
85°	4.9	4.9	4.9	2.4	2.4	7.3	17.1	22.0	17.1	12.2
87.5°	4.9	4.9	4.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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

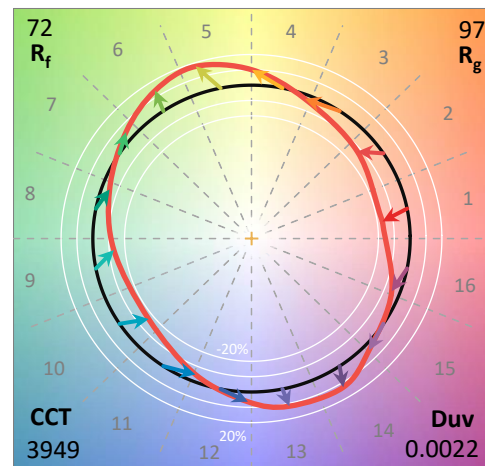
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

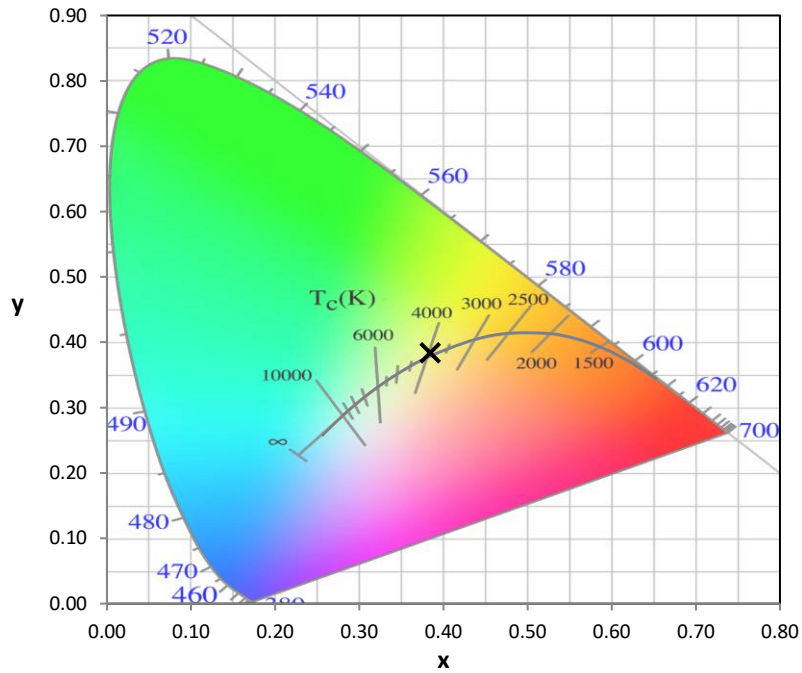
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

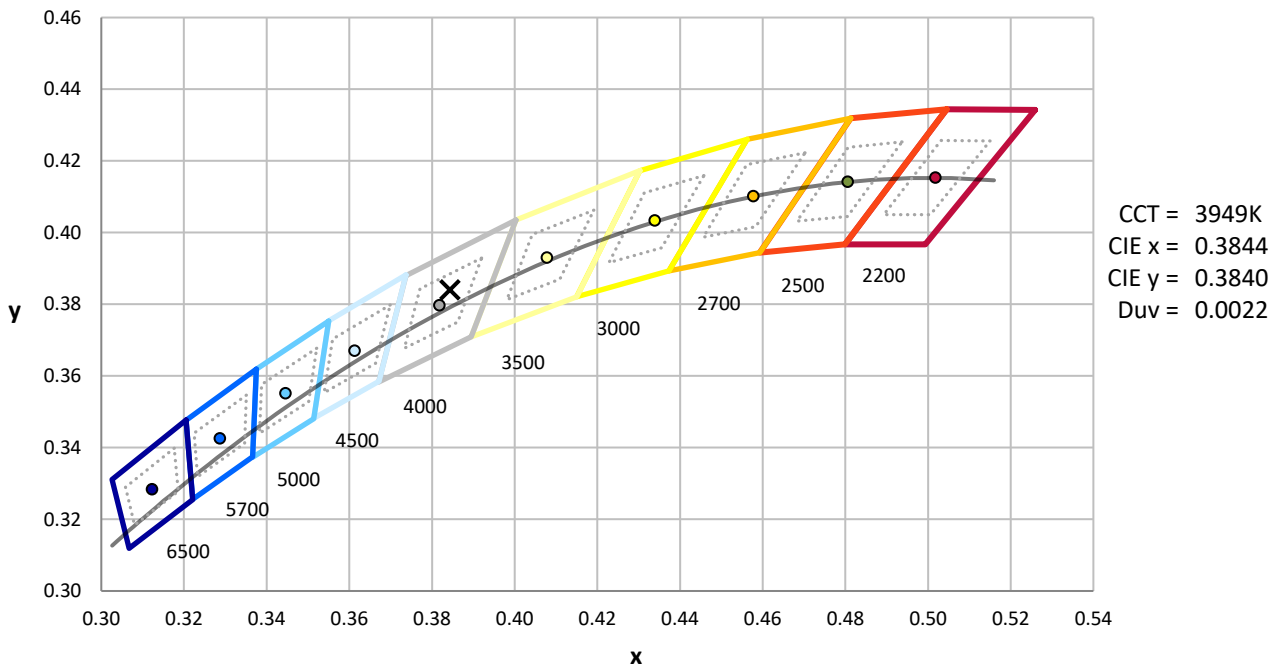
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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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

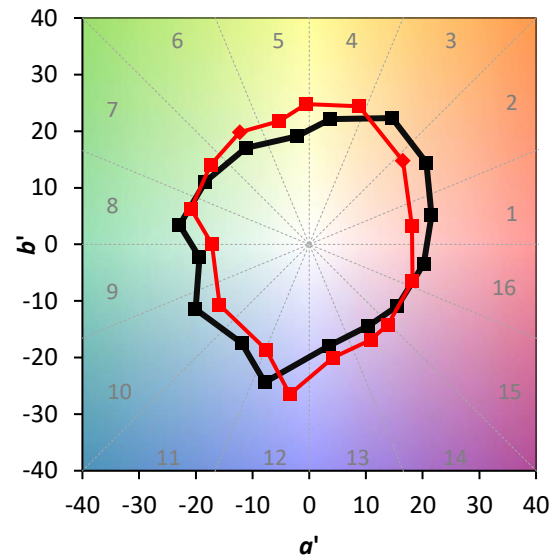
TM-30-18

Summary

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



Color Vector Graphics

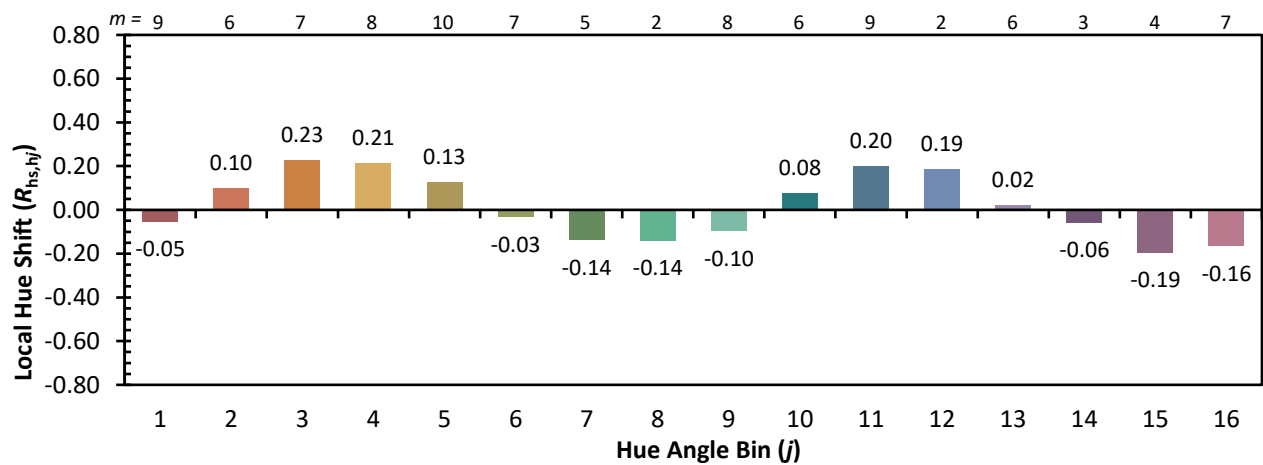


Individual Sample Fidelity Index ($R_{f,i}$)

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)