

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: P1068067

Luminaire Tested: **NAV-SA2C-830-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068067
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-830-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7675 lumens
Efficiency: N/A
Efficacy: 79.8 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): 96.2
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



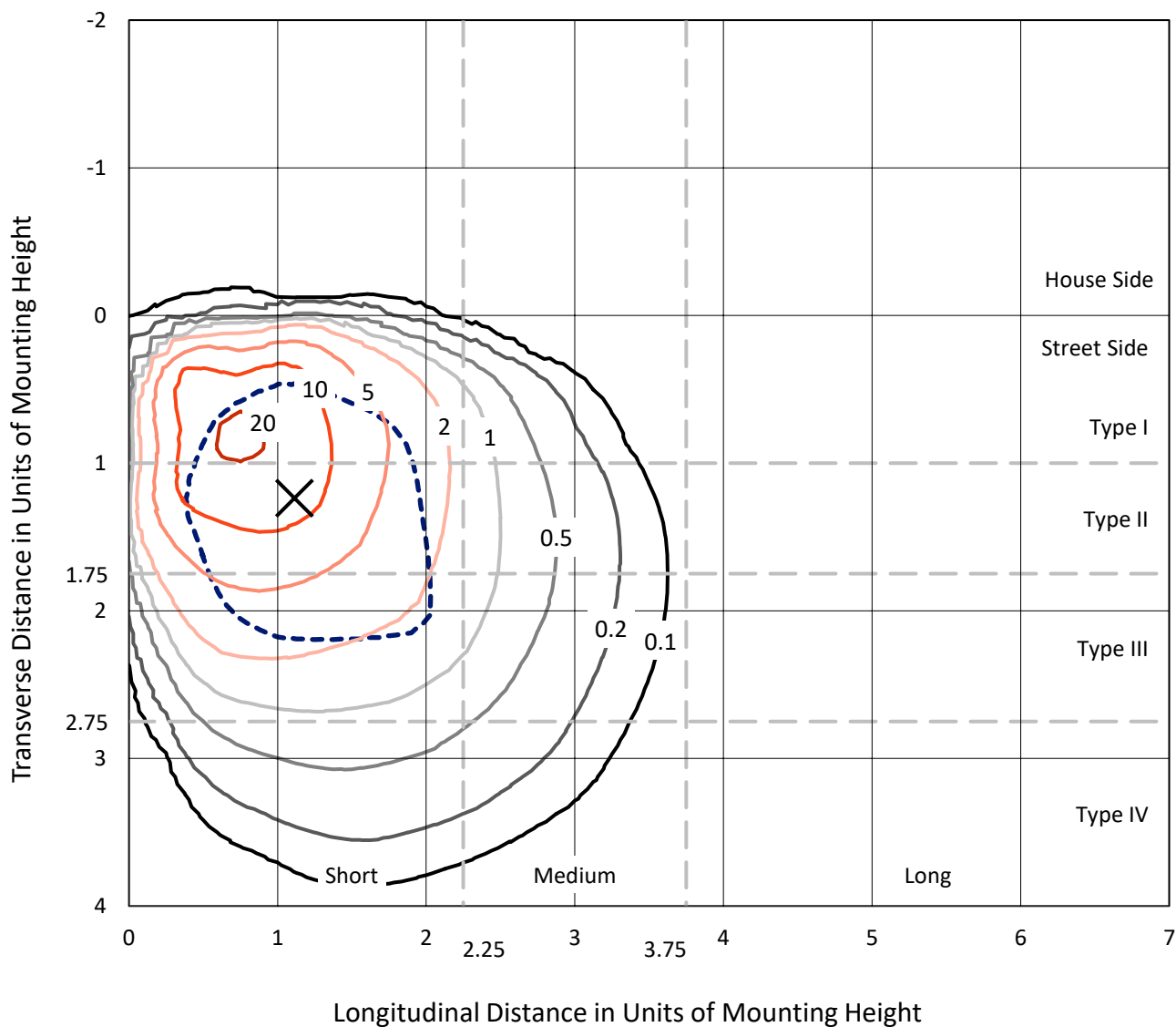
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

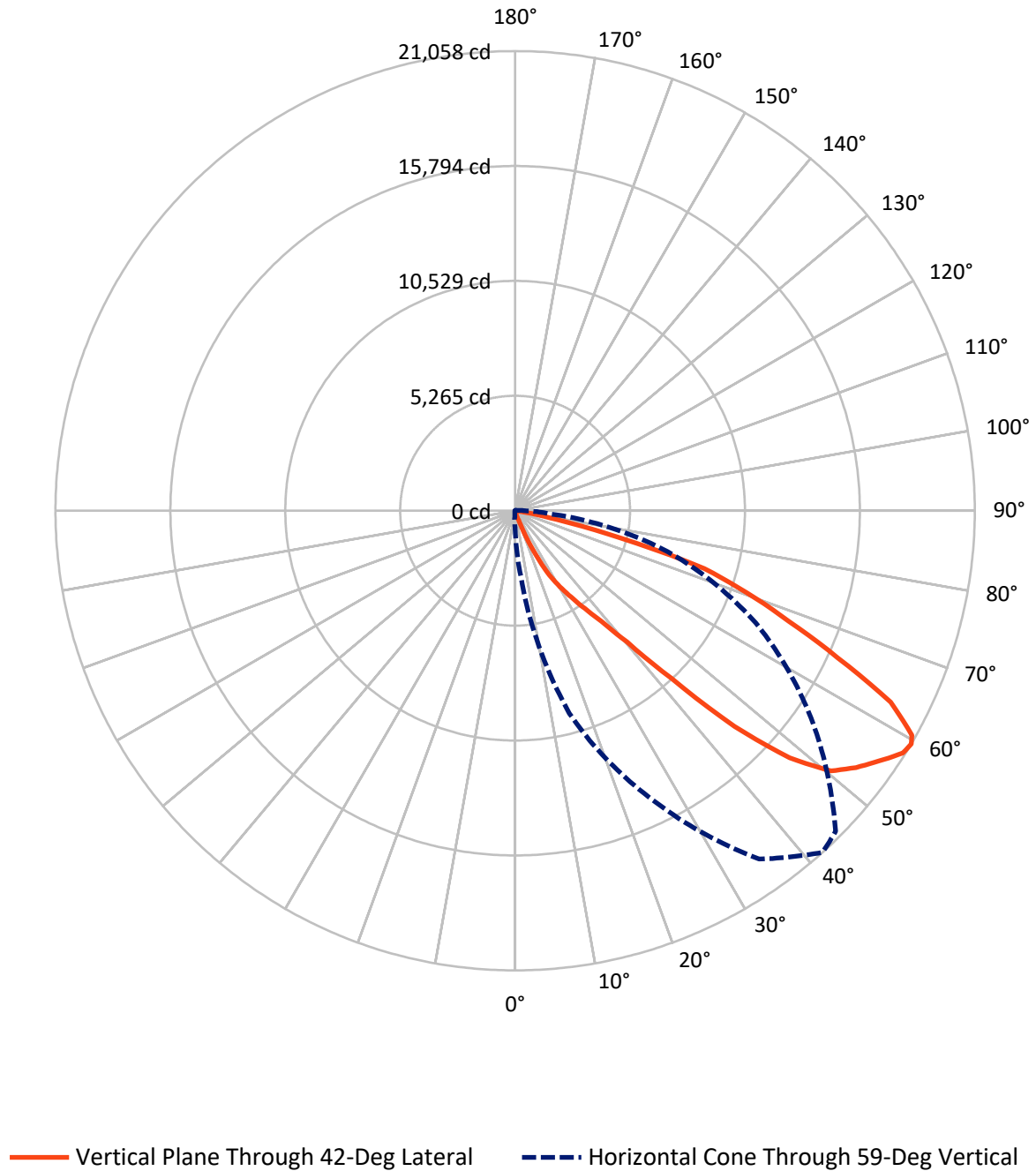


Based on 15 foot mounting height. Maximum calculated value = 22.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.0	0.0	37.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7638.0	0.0	7638.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	7675.0	0.0	7675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.0
10°-20°	11.2	0.1
20°-30°	143.2	1.9
30°-40°	482.7	6.3
40°-50°	1457.8	19.0
50°-60°	2573.4	33.5
60°-70°	2266.0	29.5
70°-80°	721.3	9.4
80°-90°	17.2	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°	7675.0	100.0
0°-180°	7675.0	100.0



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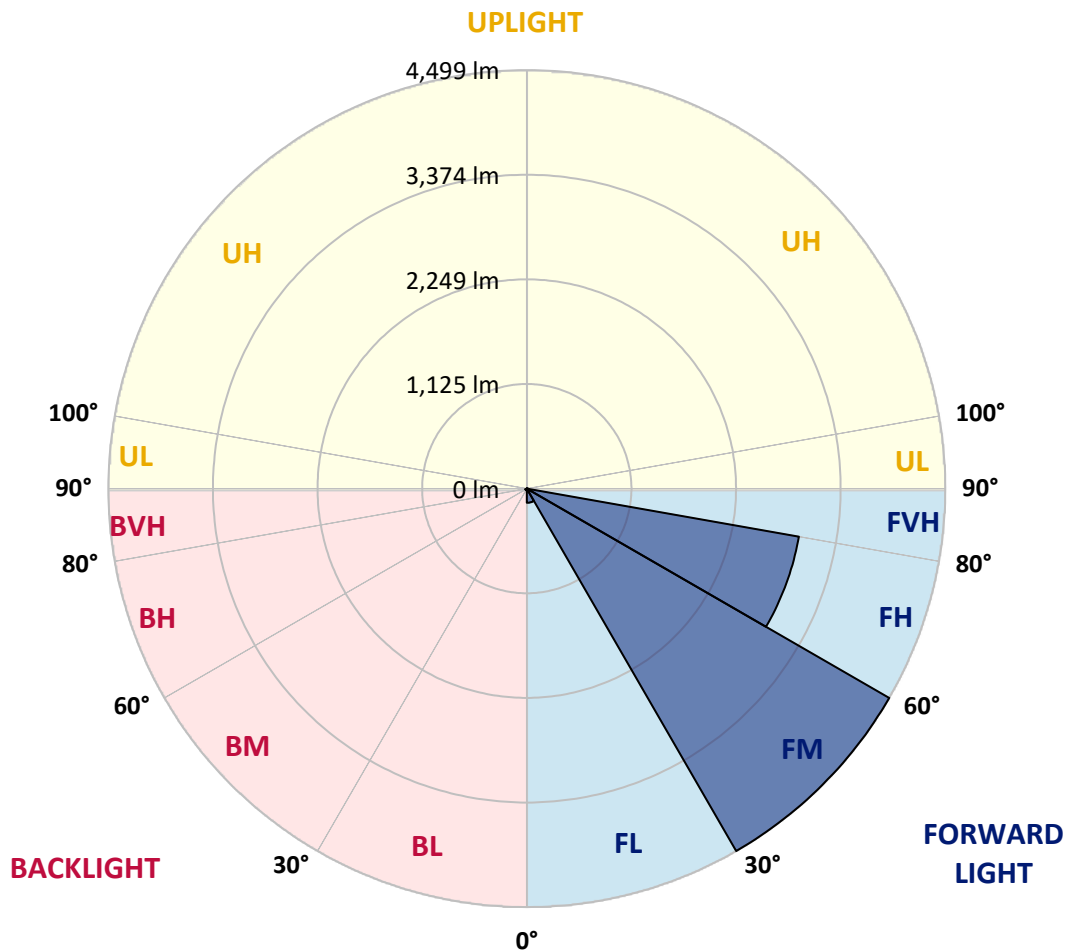
CATALOG NUMBER: NAV-SA2C-830-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.5	2.0			
FM	(30°-60°)	4498.8	58.6			
FH	(60°-80°)	2970.3	38.7			G2/5000
FVH	(80°-90°)	16.4	0.2			G1/100
BL	(0°-30°)	4.1	0.1	B0/110		
BM	(30°-60°)	15.1	0.2	B0/220		
BH	(60°-80°)	16.9	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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	33.7	33.7	31.3	28.9	26.5	24.1	24.1	24.1	21.7	21.7	19.3
5°	38.5	38.5	36.1	33.7	33.7	31.3	31.3	28.9	26.5	26.5	24.1
7.5°	40.9	40.9	40.9	40.9	38.5	38.5	38.5	36.1	33.7	31.3	28.9
10°	43.3	45.7	48.1	48.1	48.1	48.1	48.1	45.7	40.9	38.5	33.7
12.5°	48.1	50.5	55.3	60.2	60.2	62.6	60.2	57.8	52.9	45.7	38.5
15°	52.9	57.8	65.0	74.6	84.2	86.6	86.6	79.4	69.8	55.3	45.7
17.5°	60.2	67.4	86.6	117.9	151.6	178.1	178.1	158.8	110.7	72.2	52.9
20°	65.0	79.4	139.6	284.0	433.1	543.8	522.2	462.0	247.9	113.1	57.8
22.5°	72.2	101.1	296.0	746.0	1155.1	1357.2	1309.1	993.8	555.9	202.1	69.8
25°	81.8	146.8	587.2	1398.1	2146.5	2365.5	2334.2	1855.3	1013.1	339.3	89.0
27.5°	101.1	216.6	940.9	2120.0	3166.8	3354.5	3342.5	2716.8	1619.5	546.2	115.5
30°	127.5	315.2	1395.7	2880.4	3843.0	4033.1	3972.9	3347.3	2185.0	835.0	149.2
32.5°	158.8	440.4	1807.2	3441.1	4466.2	4716.5	4644.3	3895.9	2639.8	1080.5	221.4
35°	206.9	563.1	2213.9	3936.8	5185.7	5503.4	5383.1	4461.4	3032.0	1357.2	267.1
37.5°	231.0	635.3	2586.9	4475.9	5994.3	6427.4	6336.0	5176.1	3431.5	1710.9	327.3
40°	233.4	721.9	2974.3	5178.5	7137.3	7909.8	7746.1	6403.4	4175.1	2165.7	421.1
42.5°	240.6	851.9	3477.2	6376.9	9382.5	10491.8	10306.5	8660.5	5861.9	3077.8	596.8
45°	274.3	1097.3	4502.3	8617.2	12465.0	14091.7	13877.6	11805.7	8217.8	4793.5	1017.9
47.5°	392.2	1650.8	6299.9	11035.6	15617.4	16914.4	16861.5	14284.2	10352.2	6552.6	1725.4
50°	630.5	2533.9	8345.3	13069.0	17624.3	18738.4	18606.1	15319.0	11569.9	7753.3	2211.5
52.5°	842.2	3378.6	9630.3	13817.4	18223.5	19551.8	19390.6	15696.8	11889.9	8107.1	2346.2
55°	895.2	3684.2	10012.9	14048.4	18620.5	20240.0	20006.6	15949.5	11930.8	7854.4	2122.4
57.5°	868.7	3395.4	9765.1	14274.6	19174.0	20947.5	20637.1	16442.8	12068.0	7426.1	1766.3
59°	823.0	3039.3	9611.1	14455.1	19479.6	21058.2	20767.0	16551.1	12159.4	7231.2	1549.7
60°	770.0	2798.6	9490.7	14573.0	19460.4	20884.9	20584.1	16500.5	12195.5	7062.7	1446.2
62.5°	594.4	2233.1	9317.5	14488.8	18245.1	19303.9	19133.1	15263.6	11666.1	6523.7	1140.6
65°	462.0	1708.5	8682.2	12922.2	15525.9	16238.2	16185.3	12924.6	9818.0	5623.7	823.0
67.5°	365.8	1246.5	7341.9	10465.3	12491.5	13504.6	13466.1	10491.8	7452.5	4297.8	592.0
70°	298.4	888.0	5034.1	7890.5	9991.3	11266.7	11211.3	8444.0	5522.6	2726.4	430.7
72.5°	252.7	567.9	3053.7	5948.6	8338.1	9067.2	8906.0	6812.4	4016.2	1484.7	341.7
75°	214.2	348.9	1513.6	3708.2	4966.8	4961.9	4800.7	3607.2	2156.1	726.7	271.9
77.5°	173.3	245.5	594.4	1017.9	1566.6	1939.5	1908.3	1277.8	644.9	211.8	168.4
80°	113.1	115.5	158.8	279.1	430.7	476.5	541.4	389.8	187.7	101.1	69.8
82.5°	50.5	55.3	72.2	91.4	91.4	84.2	74.6	55.3	40.9	33.7	16.8
85°	12.0	16.8	12.0	14.4	12.0	9.6	9.6	4.8	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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	19.3	19.3	19.3	16.8	16.8	16.8	14.4	14.4	14.4	12.0	12.0
5°	24.1	21.7	19.3	19.3	16.8	16.8	14.4	12.0	12.0	12.0	9.6
7.5°	26.5	24.1	21.7	19.3	16.8	14.4	14.4	12.0	9.6	9.6	9.6
10°	31.3	28.9	24.1	19.3	16.8	14.4	12.0	12.0	9.6	7.2	7.2
12.5°	36.1	31.3	26.5	21.7	16.8	14.4	12.0	12.0	9.6	7.2	4.8
15°	40.9	36.1	28.9	21.7	16.8	14.4	12.0	12.0	7.2	4.8	2.4
17.5°	45.7	38.5	28.9	24.1	16.8	14.4	12.0	9.6	4.8	2.4	0.0
20°	48.1	40.9	31.3	24.1	16.8	14.4	12.0	7.2	2.4	0.0	0.0
22.5°	52.9	45.7	33.7	24.1	16.8	12.0	7.2	2.4	0.0	0.0	0.0
25°	62.6	48.1	33.7	24.1	16.8	12.0	4.8	0.0	0.0	0.0	0.0
27.5°	69.8	52.9	33.7	24.1	16.8	9.6	2.4	0.0	0.0	0.0	0.0
30°	81.8	57.8	36.1	24.1	16.8	7.2	2.4	0.0	0.0	0.0	0.0
32.5°	101.1	62.6	36.1	24.1	14.4	7.2	0.0	0.0	0.0	0.0	0.0
35°	122.7	72.2	36.1	24.1	14.4	7.2	0.0	0.0	0.0	0.0	0.0
37.5°	125.1	77.0	36.1	24.1	14.4	4.8	0.0	0.0	0.0	0.0	0.0
40°	129.9	72.2	38.5	24.1	14.4	4.8	0.0	0.0	0.0	0.0	0.0
42.5°	149.2	67.4	40.9	24.1	14.4	4.8	0.0	0.0	0.0	0.0	0.0
45°	221.4	69.8	40.9	26.5	14.4	7.2	0.0	0.0	0.0	0.0	0.0
47.5°	385.0	72.2	38.5	26.5	14.4	7.2	0.0	0.0	0.0	0.0	0.0
50°	493.3	84.2	38.5	28.9	16.8	4.8	0.0	0.0	0.0	0.0	0.0
52.5°	524.6	98.7	38.5	31.3	21.7	2.4	0.0	0.0	0.0	0.0	0.0
55°	510.2	115.5	40.9	33.7	26.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	471.6	125.1	43.3	36.1	28.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	430.7	132.4	50.5	38.5	28.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	397.1	139.6	52.9	40.9	28.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	320.0	149.2	57.8	48.1	24.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	279.1	156.4	60.2	52.9	21.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	255.1	161.2	65.0	55.3	19.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	235.8	158.8	69.8	52.9	16.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	214.2	151.6	84.2	48.1	14.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	192.5	137.2	91.4	43.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	139.6	115.5	84.2	38.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.2	62.6	60.2	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.0	14.4	12.0	7.2	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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	12.0	12.0	12.0	12.0	14.4	14.4	19.3	24.1	28.9	31.3	31.3
5°	9.6	9.6	9.6	9.6	9.6	12.0	14.4	19.3	26.5	28.9	28.9
7.5°	7.2	7.2	7.2	7.2	7.2	7.2	12.0	16.8	24.1	26.5	28.9
10°	7.2	4.8	4.8	2.4	2.4	4.8	7.2	14.4	21.7	24.1	26.5
12.5°	4.8	2.4	2.4	0.0	0.0	2.4	4.8	12.0	19.3	21.7	24.1
15°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	9.6	16.8	19.3	24.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.4	19.3	21.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.0	16.8	19.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.6	14.4	16.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	9.6	12.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	7.2	9.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	7.2	9.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
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	4.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	33.7	33.7	31.3	28.9	28.9	28.9	31.3	33.7	33.7	33.7
5°	31.3	31.3	28.9	28.9	28.9	28.9	31.3	36.1	38.5	38.5
7.5°	31.3	31.3	28.9	28.9	28.9	28.9	31.3	36.1	38.5	40.9
10°	28.9	28.9	28.9	28.9	26.5	28.9	31.3	36.1	43.3	43.3
12.5°	28.9	28.9	28.9	28.9	26.5	28.9	33.7	38.5	45.7	48.1
15°	28.9	28.9	28.9	26.5	26.5	28.9	33.7	40.9	48.1	52.9
17.5°	26.5	28.9	28.9	26.5	26.5	28.9	33.7	40.9	52.9	60.2
20°	24.1	26.5	28.9	26.5	26.5	26.5	33.7	40.9	55.3	65.0
22.5°	21.7	24.1	26.5	26.5	24.1	26.5	33.7	43.3	60.2	72.2
25°	19.3	21.7	21.7	24.1	24.1	26.5	33.7	43.3	62.6	81.8
27.5°	14.4	16.8	19.3	21.7	21.7	26.5	33.7	45.7	67.4	101.1
30°	12.0	14.4	16.8	19.3	21.7	26.5	33.7	45.7	72.2	127.5
32.5°	12.0	14.4	16.8	19.3	21.7	24.1	33.7	48.1	79.4	158.8
35°	9.6	12.0	14.4	19.3	19.3	24.1	33.7	48.1	86.6	206.9
37.5°	9.6	12.0	14.4	19.3	19.3	24.1	33.7	48.1	105.9	231.0
40°	7.2	9.6	12.0	19.3	19.3	24.1	36.1	50.5	108.3	233.4
42.5°	7.2	9.6	12.0	16.8	19.3	24.1	36.1	50.5	101.1	240.6
45°	7.2	9.6	12.0	19.3	21.7	26.5	36.1	52.9	98.7	274.3
47.5°	7.2	9.6	12.0	19.3	24.1	26.5	36.1	52.9	101.1	392.2
50°	7.2	9.6	12.0	19.3	26.5	26.5	36.1	52.9	110.7	630.5
52.5°	4.8	7.2	9.6	16.8	21.7	28.9	38.5	50.5	117.9	842.2
55°	4.8	4.8	7.2	14.4	19.3	31.3	40.9	50.5	137.2	895.2
57.5°	4.8	4.8	7.2	12.0	16.8	33.7	43.3	50.5	158.8	868.7
59°	4.8	4.8	4.8	12.0	14.4	33.7	43.3	52.9	161.2	823.0
60°	4.8	4.8	4.8	9.6	14.4	33.7	45.7	55.3	163.6	770.0
62.5°	2.4	2.4	2.4	9.6	12.0	33.7	50.5	67.4	168.4	594.4
65°	4.8	4.8	2.4	7.2	12.0	28.9	57.8	72.2	170.9	462.0
67.5°	4.8	4.8	4.8	9.6	12.0	28.9	60.2	74.6	170.9	365.8
70°	4.8	4.8	4.8	9.6	14.4	28.9	60.2	77.0	168.4	298.4
72.5°	4.8	4.8	4.8	9.6	14.4	26.5	55.3	79.4	161.2	252.7
75°	4.8	4.8	4.8	7.2	12.0	24.1	52.9	86.6	146.8	214.2
77.5°	4.8	4.8	4.8	4.8	9.6	19.3	48.1	96.3	129.9	173.3
80°	7.2	4.8	4.8	4.8	7.2	16.8	45.7	93.8	108.3	113.1
82.5°	7.2	4.8	4.8	2.4	4.8	12.0	36.1	72.2	55.3	50.5
85°	4.8	4.8	4.8	2.4	2.4	7.2	16.8	21.7	16.8	12.0
87.5°	4.8	4.8	4.8	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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

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 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

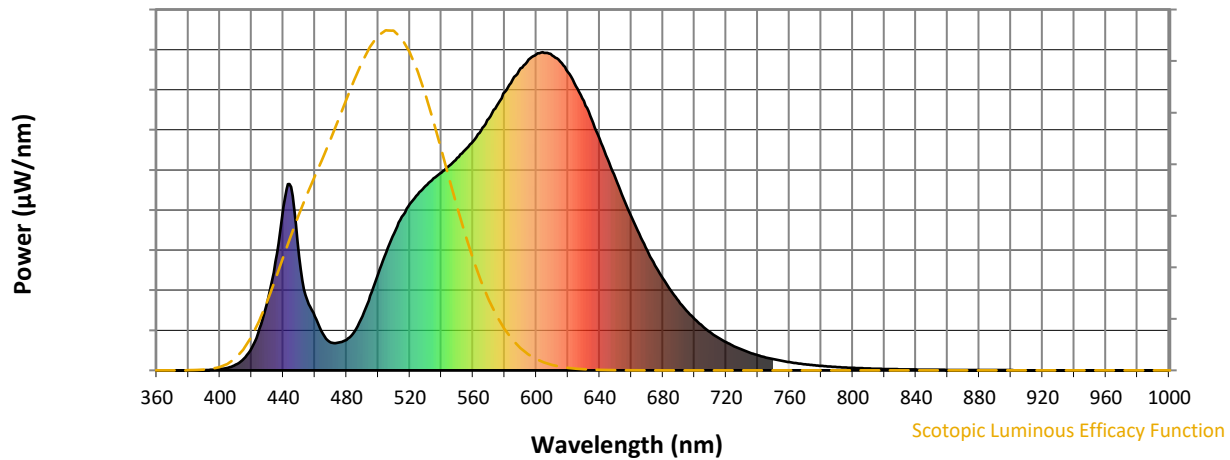


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



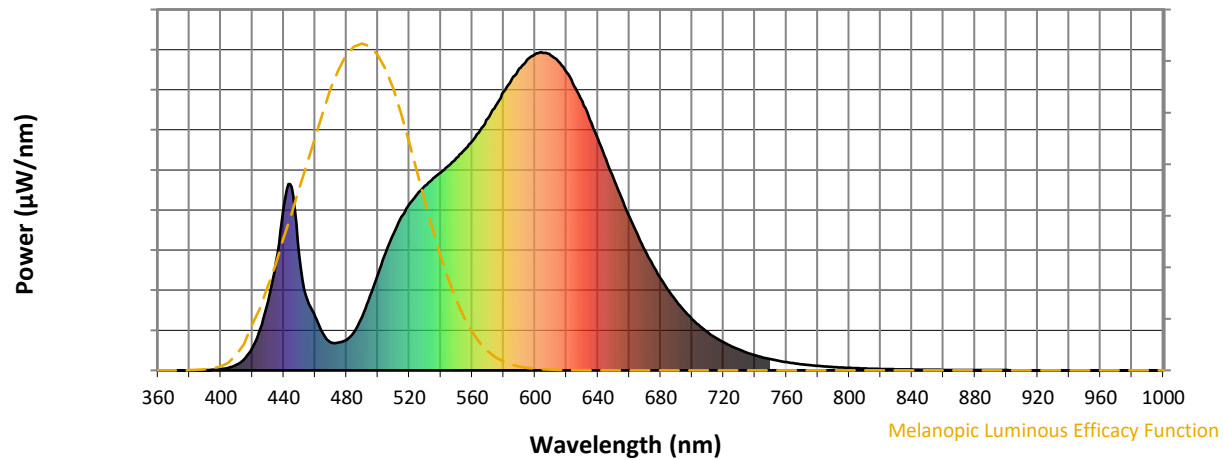
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

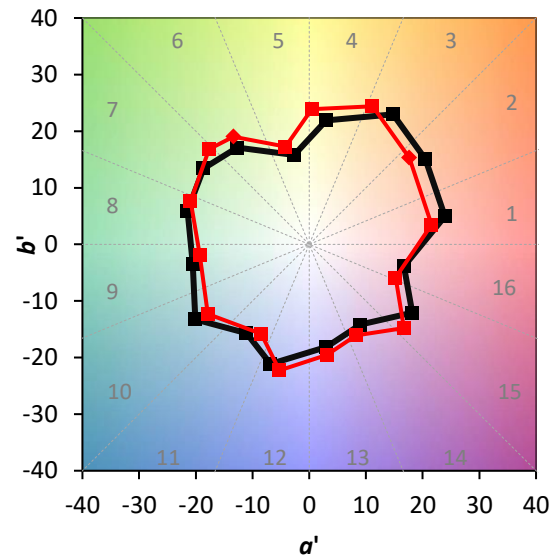
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

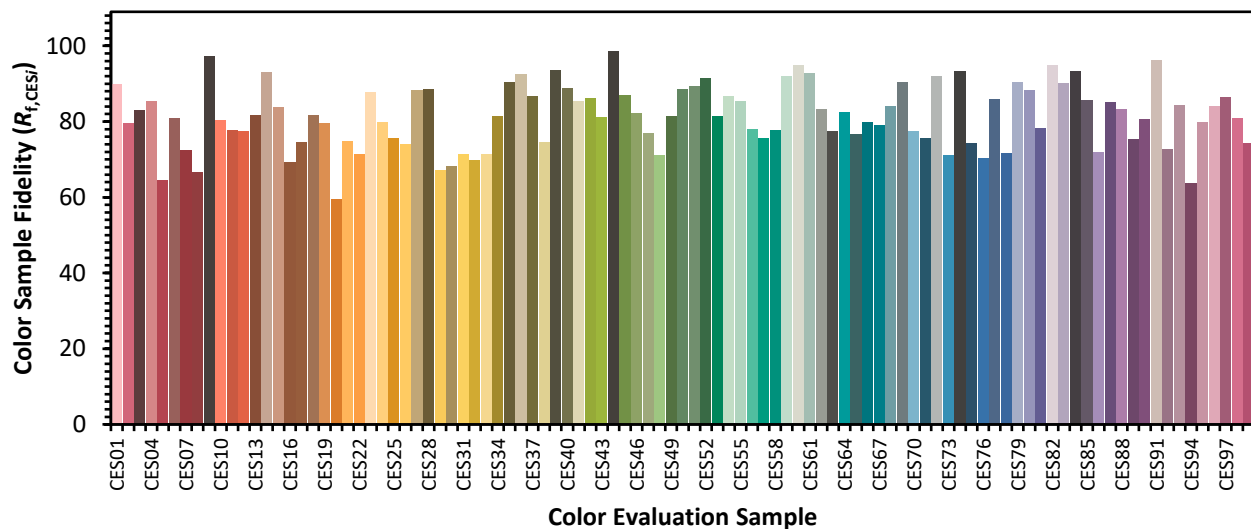


Color Vector Graphics

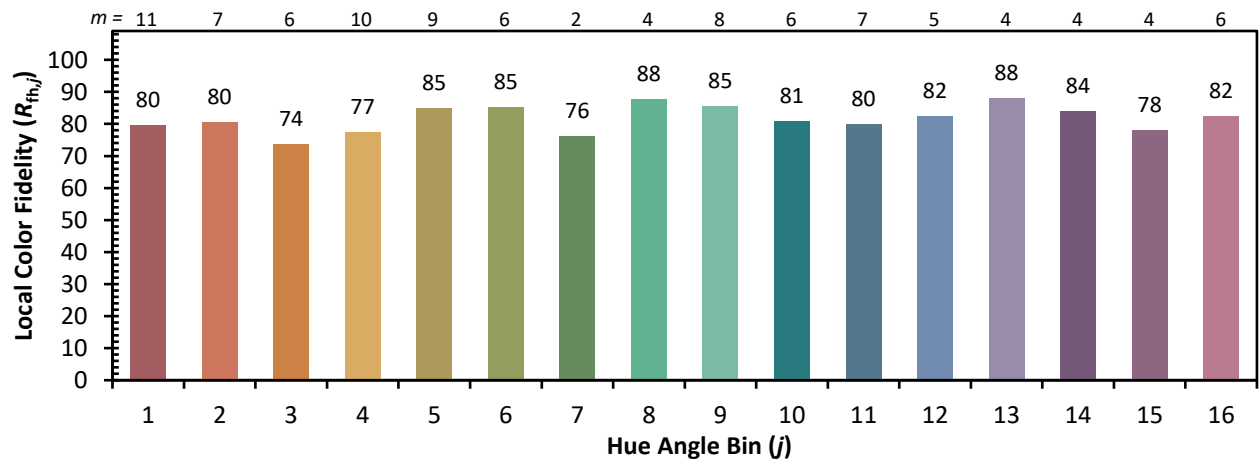


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)