

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: P1068058

Luminaire Tested: **NAV-SA6B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068058
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16957 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 211
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



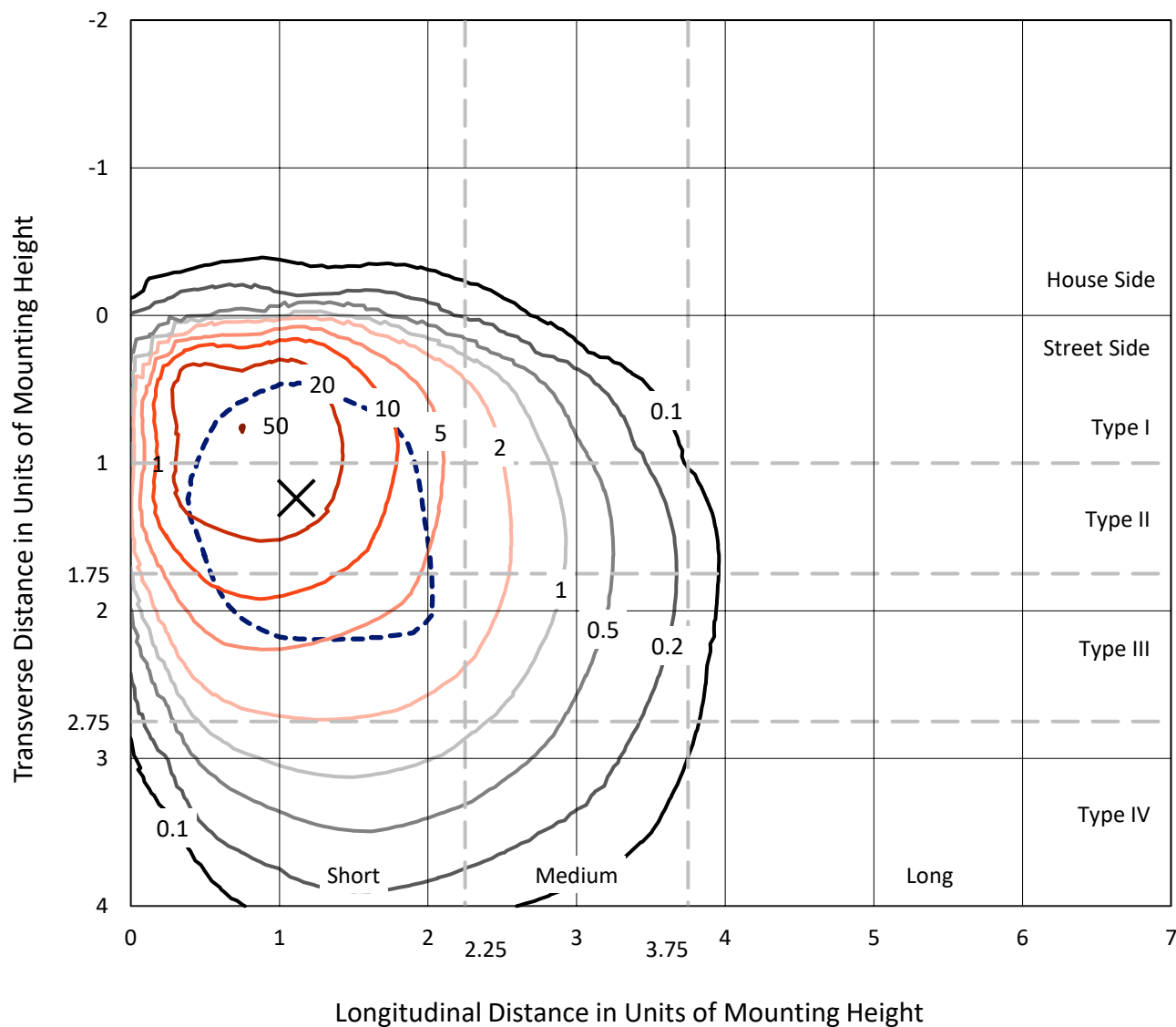
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

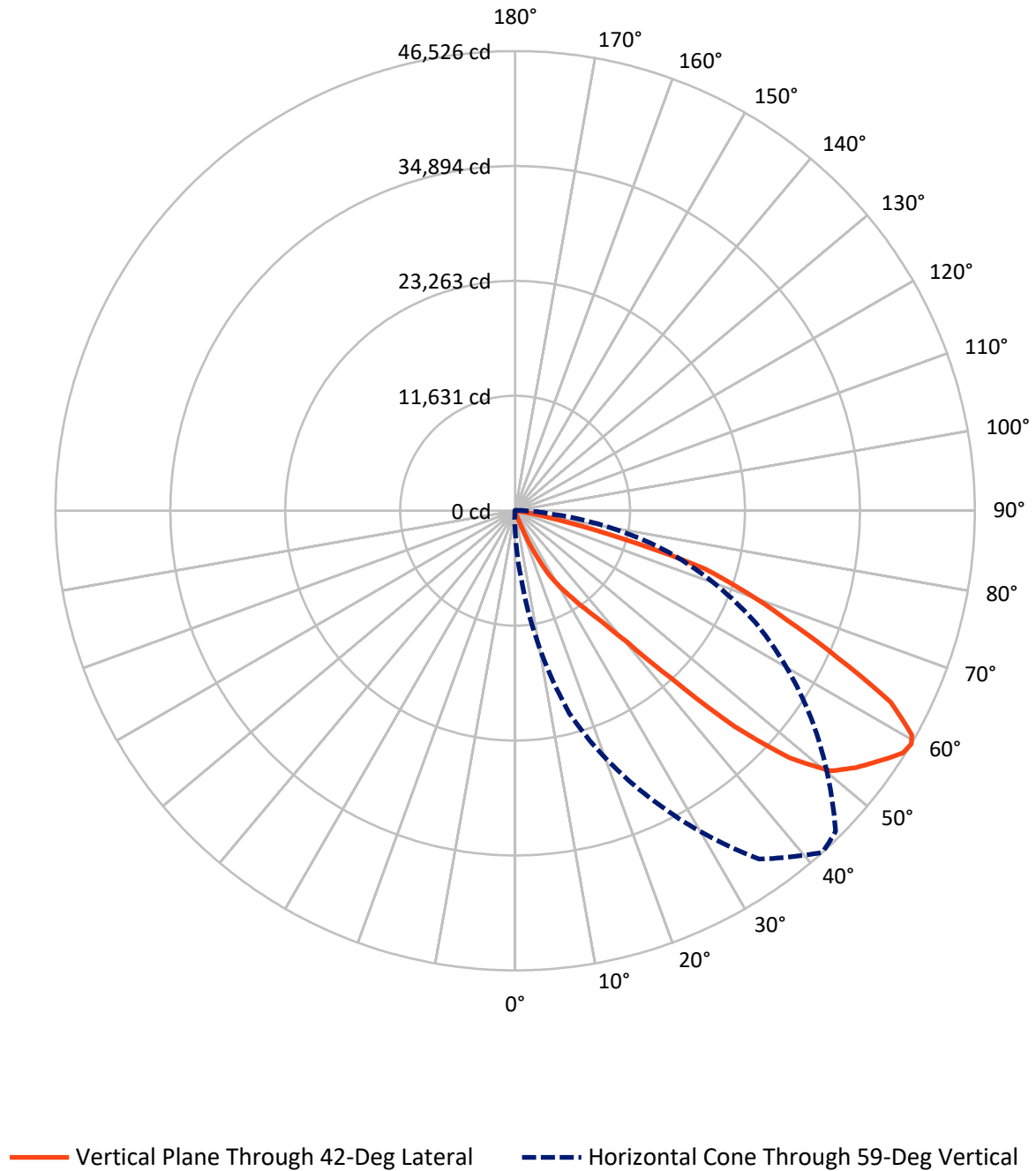


Based on 15 foot mounting height. Maximum calculated value = 50.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.7	0.0	81.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	16875.3	0.0	16875.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	16957.0	0.0	16957.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	24.7	0.1
20°-30°	316.3	1.9
30°-40°	1066.4	6.3
40°-50°	3220.9	19.0
50°-60°	5685.7	33.5
60°-70°	5006.4	29.5
70°-80°	1593.5	9.4
80°-90°	38.1	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°	16957.0	100.0
0°-180°	16957.0	100.0



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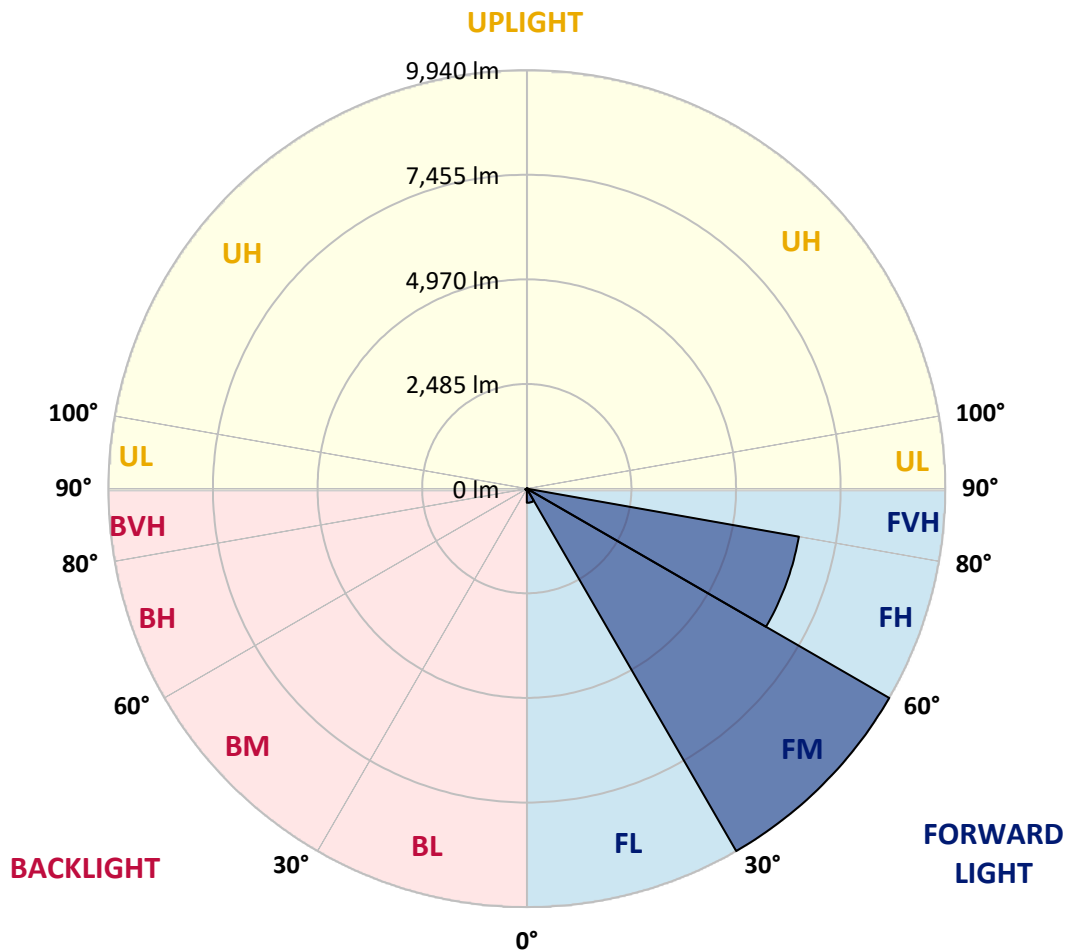
CATALOG NUMBER: NAV-SA6B-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.9	2.0			
FM	(30°-60°)	9939.6	58.6			
FH	(60°-80°)	6562.5	38.7			G3/7500
FVH	(80°-90°)	36.3	0.2			G1/100
BL	(0°-30°)	9.1	0.1	B0/110		
BM	(30°-60°)	33.4	0.2	B0/220		
BH	(60°-80°)	37.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	74.4	74.4	69.1	63.8	58.5	53.2	53.2	53.2	47.8	47.8	42.5
5°	85.1	85.1	79.7	74.4	74.4	69.1	69.1	63.8	58.5	58.5	53.2
7.5°	90.4	90.4	90.4	90.4	85.1	85.1	85.1	79.7	74.4	69.1	63.8
10°	95.7	101.0	106.3	106.3	106.3	106.3	106.3	101.0	90.4	85.1	74.4
12.5°	106.3	111.6	122.3	132.9	132.9	132.9	132.9	127.6	117.0	101.0	85.1
15°	117.0	127.6	143.5	164.8	186.1	191.4	191.4	175.4	154.2	122.3	101.0
17.5°	132.9	148.9	191.4	260.5	334.9	393.4	393.4	350.9	244.6	159.5	117.0
20°	143.5	175.4	308.4	627.4	957.0	1201.6	1153.7	1020.8	547.6	249.9	127.6
22.5°	159.5	223.3	653.9	1648.1	2552.0	2998.6	2892.2	2195.8	1228.1	446.6	154.2
25°	180.8	324.3	1297.2	3088.9	4742.4	5226.2	5157.1	4099.1	2238.3	749.6	196.7
27.5°	223.3	478.5	2078.8	4683.9	6996.6	7411.3	7384.8	6002.4	3578.1	1206.9	255.2
30°	281.8	696.5	3083.6	6364.0	8490.6	8910.6	8777.7	7395.4	4827.5	1844.9	329.6
32.5°	350.9	972.9	3992.8	7602.7	9867.6	10420.5	10261.0	8607.6	5832.3	2387.2	489.1
35°	457.2	1244.1	4891.3	8697.9	11457.3	12159.1	11893.2	9857.0	6698.9	2998.6	590.1
37.5°	510.4	1403.6	5715.3	9888.9	13243.6	14200.6	13998.6	11436.0	7581.5	3780.1	723.1
40°	515.7	1595.0	6571.3	11441.3	15769.0	17475.6	17114.1	14147.5	9224.3	4784.9	930.4
42.5°	531.7	1882.1	7682.5	14089.0	20729.4	23180.4	22771.0	19134.4	12951.2	6799.9	1318.5
45°	606.1	2424.4	9947.3	19038.7	27540.0	31134.0	30660.8	26083.2	18156.2	10590.7	2248.9
47.5°	866.6	3647.2	13918.8	24381.9	34504.7	37370.3	37253.4	31559.3	22872.0	14477.1	3812.0
50°	1392.9	5598.4	18438.0	28874.4	38938.7	41400.3	41107.9	33845.4	25562.2	17130.1	4886.0
52.5°	1860.8	7464.5	21277.0	30527.9	40262.6	43197.3	42841.1	34680.1	26269.3	17911.6	5183.7
55°	1977.8	8139.7	22122.4	31038.3	41139.8	44717.9	44202.2	35238.4	26359.7	17353.4	4689.2
57.5°	1919.3	7501.7	21574.7	31538.0	42362.6	46281.0	45595.1	36328.3	26662.7	16407.0	3902.4
59°	1818.3	6714.9	21234.5	31936.8	43037.8	46525.5	45882.2	36567.5	26864.8	15976.4	3423.9
60°	1701.3	6183.2	20968.6	32197.3	42995.3	46142.7	45478.2	36455.9	26944.5	15604.2	3195.3
62.5°	1313.2	4933.8	20585.9	32011.2	40310.4	42649.7	42272.2	33723.2	25774.9	14413.3	2520.1
65°	1020.8	3774.8	19182.3	28550.1	34302.7	35876.4	35759.4	28555.4	21691.7	12424.9	1818.3
67.5°	808.1	2754.0	16220.9	23121.9	27598.4	29836.7	29751.7	23180.4	16465.5	9495.4	1307.9
70°	659.3	1961.8	11122.3	17433.1	22074.5	24892.3	24770.0	18655.9	12201.6	6023.7	951.7
72.5°	558.2	1254.7	6746.8	13142.6	18422.0	20032.9	19676.7	15051.3	8873.4	3280.3	755.0
75°	473.2	770.9	3344.1	8192.9	10973.5	10962.8	10606.6	7969.6	4763.7	1605.6	600.8
77.5°	382.8	542.3	1313.2	2248.9	3461.1	4285.2	4216.1	2823.1	1424.8	467.9	372.2
80°	249.9	255.2	350.9	616.7	951.7	1052.7	1196.2	861.3	414.7	223.3	154.2
82.5°	111.6	122.3	159.5	202.0	202.0	186.1	164.8	122.3	90.4	74.4	37.2
85°	26.6	37.2	26.6	31.9	26.6	21.3	21.3	10.6	0.0	0.0	0.0
87.5°	5.3	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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	42.5	42.5	42.5	37.2	37.2	37.2	31.9	31.9	31.9	26.6	26.6
5°	53.2	47.8	42.5	42.5	37.2	37.2	31.9	26.6	26.6	26.6	21.3
7.5°	58.5	53.2	47.8	42.5	37.2	31.9	31.9	26.6	21.3	21.3	21.3
10°	69.1	63.8	53.2	42.5	37.2	31.9	26.6	26.6	21.3	15.9	15.9
12.5°	79.7	69.1	58.5	47.8	37.2	31.9	26.6	26.6	21.3	15.9	10.6
15°	90.4	79.7	63.8	47.8	37.2	31.9	26.6	26.6	15.9	10.6	5.3
17.5°	101.0	85.1	63.8	53.2	37.2	31.9	26.6	21.3	10.6	5.3	0.0
20°	106.3	90.4	69.1	53.2	37.2	31.9	26.6	15.9	5.3	0.0	0.0
22.5°	117.0	101.0	74.4	53.2	37.2	26.6	15.9	5.3	0.0	0.0	0.0
25°	138.2	106.3	74.4	53.2	37.2	26.6	10.6	0.0	0.0	0.0	0.0
27.5°	154.2	117.0	74.4	53.2	37.2	21.3	5.3	0.0	0.0	0.0	0.0
30°	180.8	127.6	79.7	53.2	37.2	15.9	5.3	0.0	0.0	0.0	0.0
32.5°	223.3	138.2	79.7	53.2	31.9	15.9	0.0	0.0	0.0	0.0	0.0
35°	271.1	159.5	79.7	53.2	31.9	15.9	0.0	0.0	0.0	0.0	0.0
37.5°	276.5	170.1	79.7	53.2	31.9	10.6	0.0	0.0	0.0	0.0	0.0
40°	287.1	159.5	85.1	53.2	31.9	10.6	0.0	0.0	0.0	0.0	0.0
42.5°	329.6	148.9	90.4	53.2	31.9	10.6	0.0	0.0	0.0	0.0	0.0
45°	489.1	154.2	90.4	58.5	31.9	15.9	0.0	0.0	0.0	0.0	0.0
47.5°	850.7	159.5	85.1	58.5	31.9	15.9	0.0	0.0	0.0	0.0	0.0
50°	1089.9	186.1	85.1	63.8	37.2	10.6	0.0	0.0	0.0	0.0	0.0
52.5°	1159.0	218.0	85.1	69.1	47.8	5.3	0.0	0.0	0.0	0.0	0.0
55°	1127.1	255.2	90.4	74.4	58.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1042.1	276.5	95.7	79.7	63.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	951.7	292.4	111.6	85.1	63.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	877.2	308.4	117.0	90.4	63.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	707.1	329.6	127.6	106.3	53.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	616.7	345.6	132.9	117.0	47.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	563.6	356.2	143.5	122.3	42.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	521.0	350.9	154.2	117.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	473.2	334.9	186.1	106.3	31.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	425.3	303.0	202.0	95.7	21.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	308.4	255.2	186.1	85.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.9	138.2	132.9	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.6	31.9	26.6	15.9	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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	26.6	26.6	26.6	26.6	31.9	31.9	42.5	53.2	63.8	69.1	69.1
5°	21.3	21.3	21.3	21.3	21.3	26.6	31.9	42.5	58.5	63.8	63.8
7.5°	15.9	15.9	15.9	15.9	15.9	15.9	26.6	37.2	53.2	58.5	63.8
10°	15.9	10.6	10.6	5.3	5.3	10.6	15.9	31.9	47.8	53.2	58.5
12.5°	10.6	5.3	5.3	0.0	0.0	5.3	10.6	26.6	42.5	47.8	53.2
15°	5.3	0.0	0.0	0.0	0.0	0.0	5.3	21.3	37.2	42.5	53.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	31.9	42.5	47.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	26.6	37.2	42.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	21.3	31.9	37.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	21.3	26.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	15.9	21.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	15.9	21.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6	15.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6	15.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6	10.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	74.4	74.4	69.1	63.8	63.8	63.8	69.1	74.4	74.4	74.4
5°	69.1	69.1	63.8	63.8	63.8	63.8	69.1	79.7	85.1	85.1
7.5°	69.1	69.1	63.8	63.8	63.8	63.8	69.1	79.7	85.1	90.4
10°	63.8	63.8	63.8	63.8	58.5	63.8	69.1	79.7	95.7	95.7
12.5°	63.8	63.8	63.8	63.8	58.5	63.8	74.4	85.1	101.0	106.3
15°	63.8	63.8	63.8	58.5	58.5	63.8	74.4	90.4	106.3	117.0
17.5°	58.5	63.8	63.8	58.5	58.5	63.8	74.4	90.4	117.0	132.9
20°	53.2	58.5	63.8	58.5	58.5	58.5	74.4	90.4	122.3	143.5
22.5°	47.8	53.2	58.5	58.5	53.2	58.5	74.4	95.7	132.9	159.5
25°	42.5	47.8	47.8	53.2	53.2	58.5	74.4	95.7	138.2	180.8
27.5°	31.9	37.2	42.5	47.8	47.8	58.5	74.4	101.0	148.9	223.3
30°	26.6	31.9	37.2	42.5	47.8	58.5	74.4	101.0	159.5	281.8
32.5°	26.6	31.9	37.2	42.5	47.8	53.2	74.4	106.3	175.4	350.9
35°	21.3	26.6	31.9	42.5	42.5	53.2	74.4	106.3	191.4	457.2
37.5°	21.3	26.6	31.9	42.5	42.5	53.2	74.4	106.3	233.9	510.4
40°	15.9	21.3	26.6	42.5	42.5	53.2	79.7	111.6	239.2	515.7
42.5°	15.9	21.3	26.6	37.2	42.5	53.2	79.7	111.6	223.3	531.7
45°	15.9	21.3	26.6	42.5	47.8	58.5	79.7	117.0	218.0	606.1
47.5°	15.9	21.3	26.6	42.5	53.2	58.5	79.7	117.0	223.3	866.6
50°	15.9	21.3	26.6	42.5	58.5	58.5	79.7	117.0	244.6	1392.9
52.5°	10.6	15.9	21.3	37.2	47.8	63.8	85.1	111.6	260.5	1860.8
55°	10.6	10.6	15.9	31.9	42.5	69.1	90.4	111.6	303.0	1977.8
57.5°	10.6	10.6	15.9	26.6	37.2	74.4	95.7	111.6	350.9	1919.3
59°	10.6	10.6	10.6	26.6	31.9	74.4	95.7	117.0	356.2	1818.3
60°	10.6	10.6	10.6	21.3	31.9	74.4	101.0	122.3	361.5	1701.3
62.5°	5.3	5.3	5.3	21.3	26.6	74.4	111.6	148.9	372.2	1313.2
65°	10.6	10.6	5.3	15.9	26.6	63.8	127.6	159.5	377.5	1020.8
67.5°	10.6	10.6	10.6	21.3	26.6	63.8	132.9	164.8	377.5	808.1
70°	10.6	10.6	10.6	21.3	31.9	63.8	132.9	170.1	372.2	659.3
72.5°	10.6	10.6	10.6	21.3	31.9	58.5	122.3	175.4	356.2	558.2
75°	10.6	10.6	10.6	15.9	26.6	53.2	117.0	191.4	324.3	473.2
77.5°	10.6	10.6	10.6	10.6	21.3	42.5	106.3	212.7	287.1	382.8
80°	15.9	10.6	10.6	10.6	15.9	37.2	101.0	207.3	239.2	249.9
82.5°	15.9	10.6	10.6	5.3	10.6	26.6	79.7	159.5	122.3	111.6
85°	10.6	10.6	10.6	5.3	5.3	15.9	37.2	47.8	37.2	26.6
87.5°	10.6	10.6	10.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

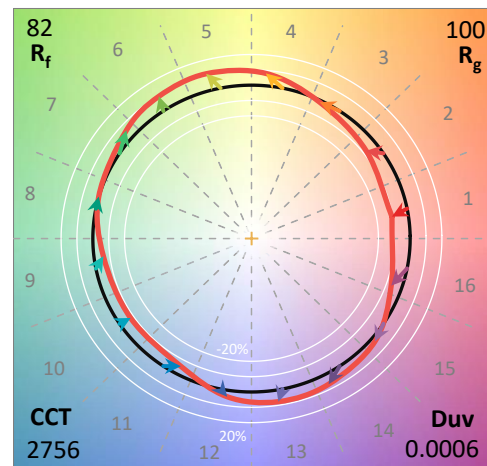
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

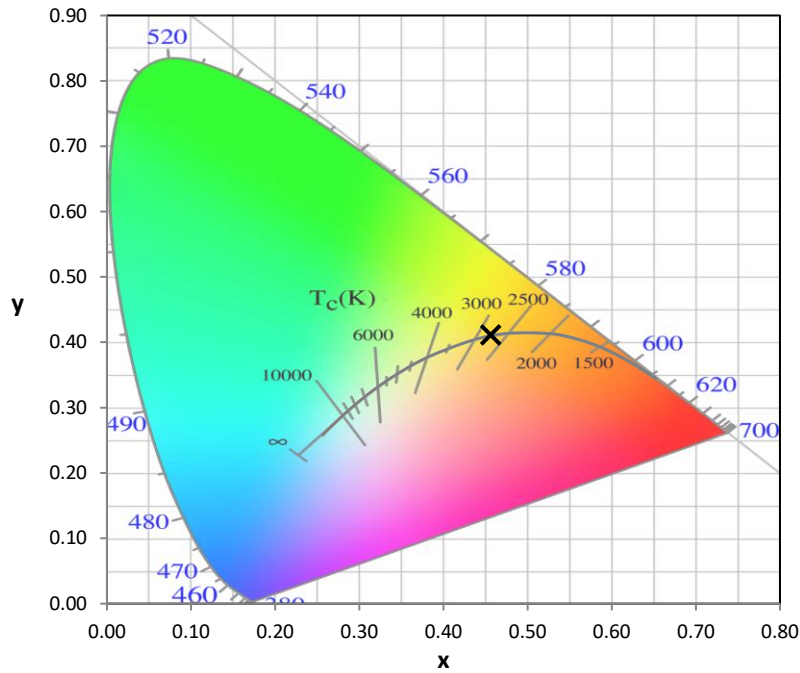
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

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 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

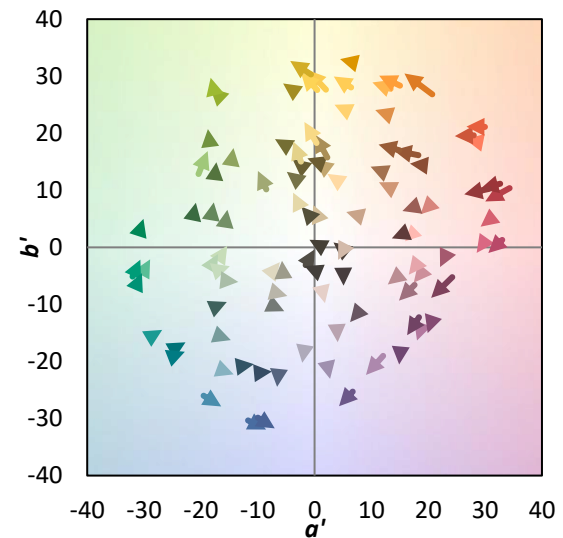
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

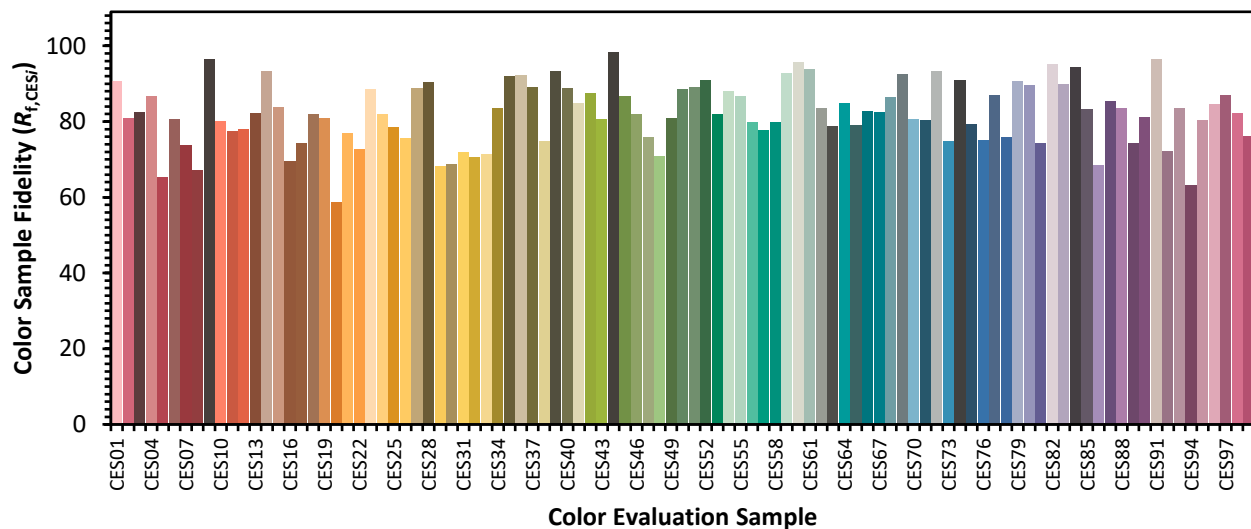


Color Vector Graphics



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

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)