

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: P1068047

Luminaire Tested: **NAV-SA3C-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068047
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10524.5 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 140.4
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



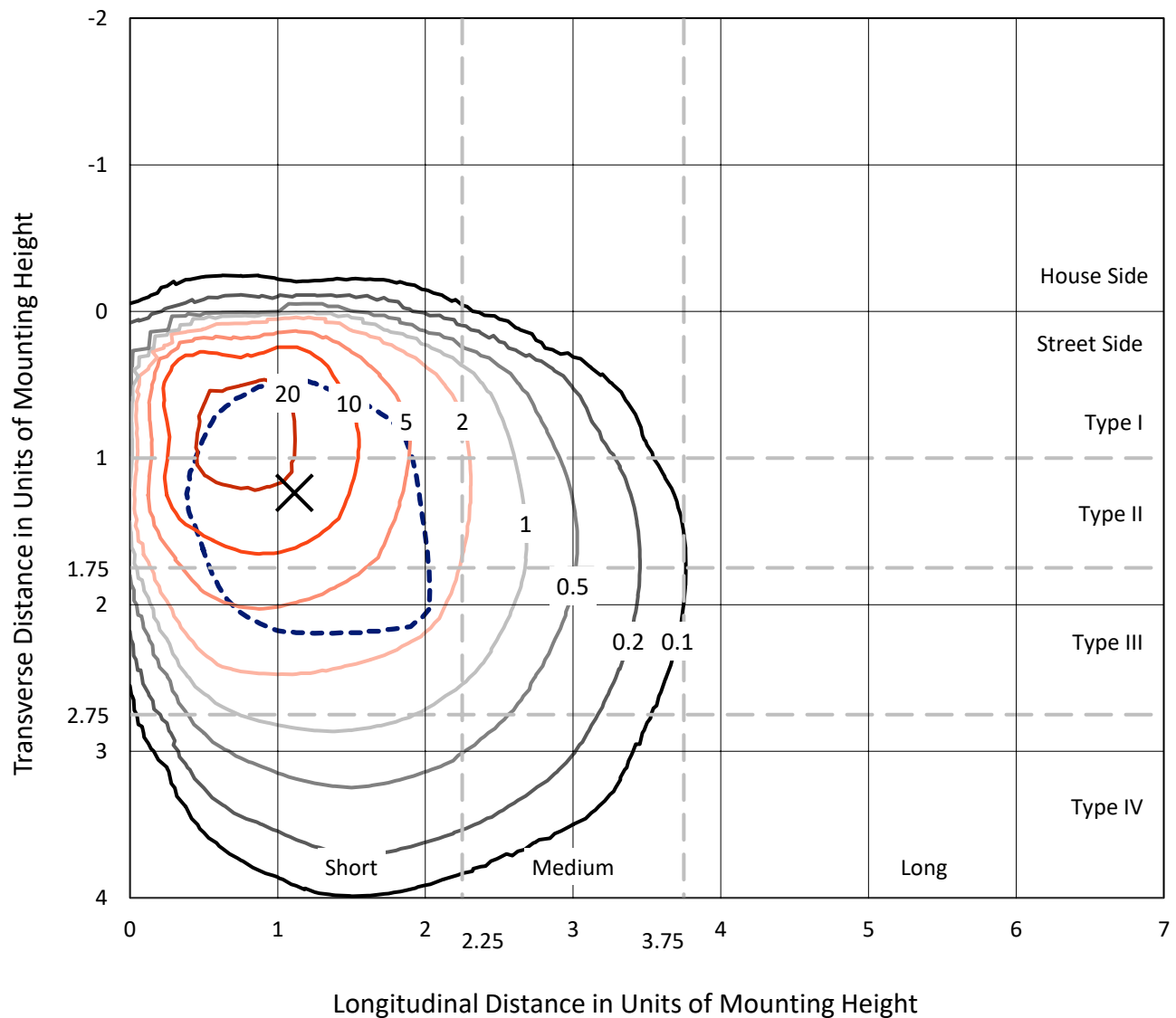
REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

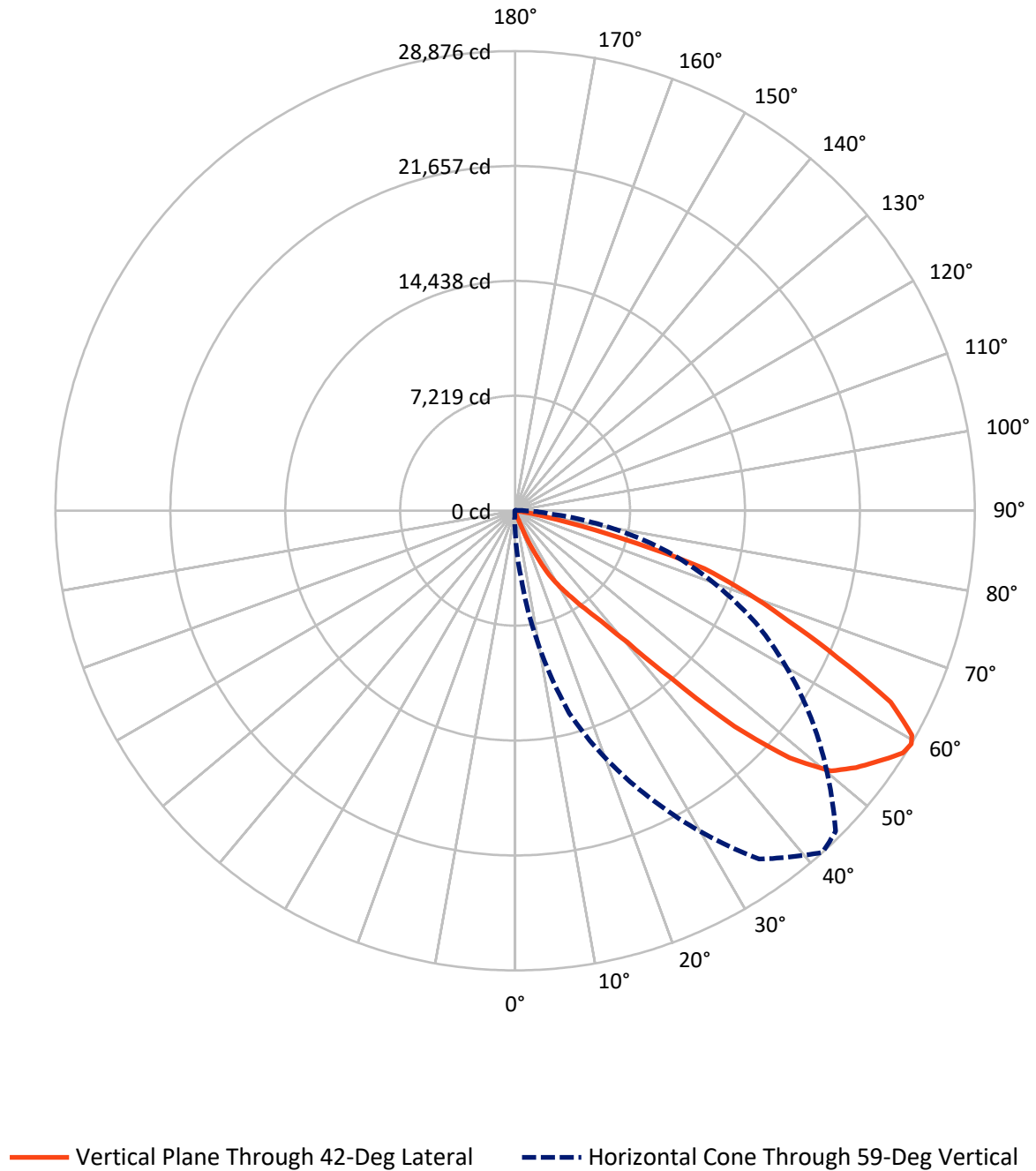


Based on 15 foot mounting height. Maximum calculated value = 31.3 fc
Type III - Short - N/A

REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	50.7	0.0	50.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	10473.8	0.0	10473.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	10524.5	0.0	10524.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.0
10°-20°	15.3	0.1
20°-30°	196.3	1.9
30°-40°	661.9	6.3
40°-50°	1999.1	19.0
50°-60°	3528.9	33.5
60°-70°	3107.2	29.5
70°-80°	989.0	9.4
80°-90°	23.7	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°	10524.5	100.0
0°-180°	10524.5	100.0



REPORT NUMBER: P1068047

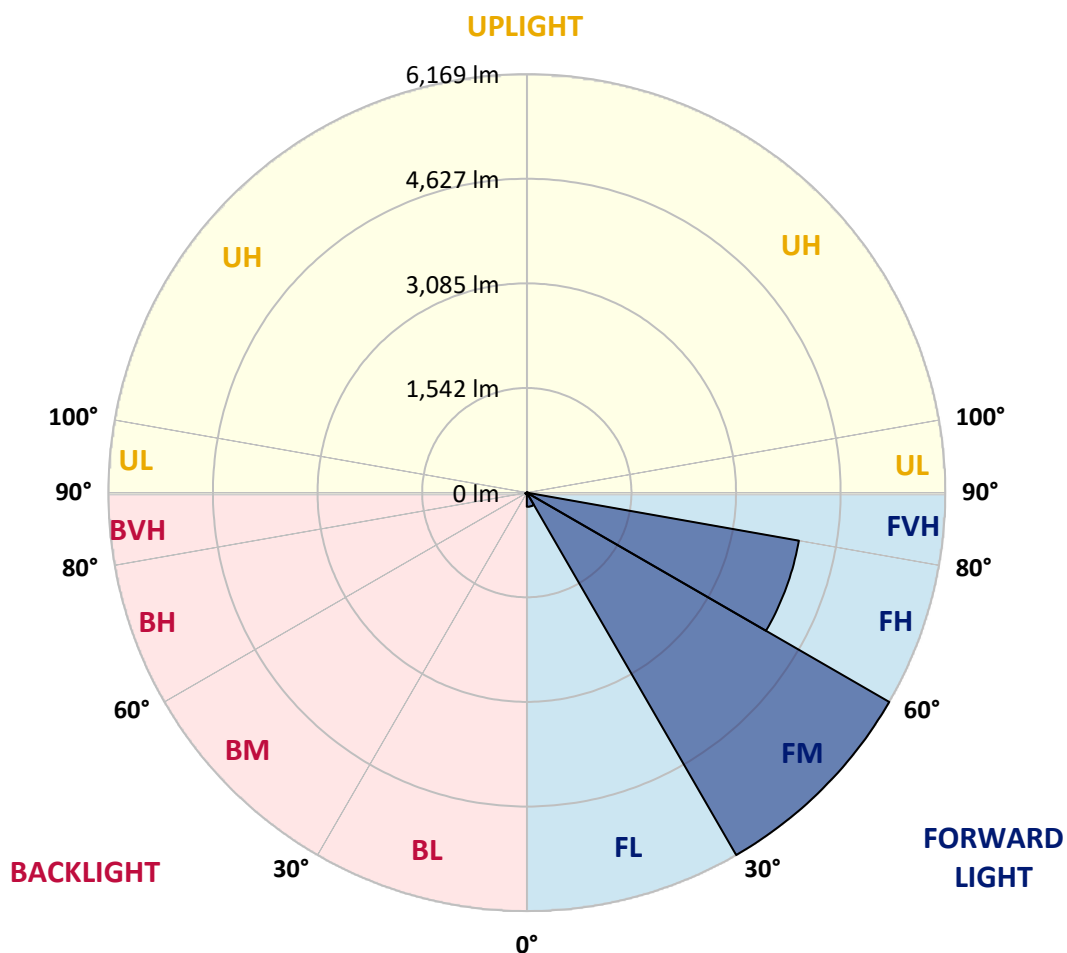
CATALOG NUMBER: NAV-SA3C-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.1	2.0			
FM	(30°-60°)	6169.1	58.6			
FH	(60°-80°)	4073.1	38.7			G2/5000
FVH	(80°-90°)	22.5	0.2			G1/100
BL	(0°-30°)	5.7	0.1	B0/110		
BM	(30°-60°)	20.7	0.2	B0/220		
BH	(60°-80°)	23.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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



REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	46.2	46.2	42.9	39.6	36.3	33.0	33.0	33.0	29.7	29.7	26.4
5°	52.8	52.8	49.5	46.2	46.2	42.9	42.9	39.6	36.3	36.3	33.0
7.5°	56.1	56.1	56.1	56.1	52.8	52.8	52.8	49.5	46.2	42.9	39.6
10°	59.4	62.7	66.0	66.0	66.0	66.0	66.0	62.7	56.1	52.8	46.2
12.5°	66.0	69.3	75.9	82.5	82.5	85.8	82.5	79.2	72.6	62.7	52.8
15°	72.6	79.2	89.1	102.3	115.5	118.8	118.8	108.9	95.7	75.9	62.7
17.5°	82.5	92.4	118.8	161.7	207.9	244.2	244.2	217.8	151.8	99.0	72.6
20°	89.1	108.9	191.4	389.4	594.0	745.8	716.1	633.6	339.9	155.1	79.2
22.5°	99.0	138.6	405.9	1022.9	1583.9	1861.1	1795.1	1362.8	762.3	277.2	95.7
25°	112.2	201.3	805.1	1917.2	2943.4	3243.7	3200.8	2544.1	1389.2	465.3	122.1
27.5°	138.6	297.0	1290.2	2907.1	4342.5	4599.9	4583.4	3725.5	2220.8	749.1	158.4
30°	174.9	432.3	1913.9	3949.8	5269.8	5530.4	5447.9	4590.0	2996.2	1145.0	204.6
32.5°	217.8	603.9	2478.1	4718.7	6124.4	6467.6	6368.6	5342.4	3619.9	1481.6	303.6
35°	283.8	772.1	3035.8	5398.4	7111.0	7546.6	7381.6	6117.8	4157.7	1861.1	366.3
37.5°	316.8	871.1	3547.3	6137.6	8219.8	8813.7	8688.3	7097.8	4705.5	2346.1	448.8
40°	320.1	989.9	4078.5	7101.1	9787.2	10846.4	10622.0	8780.7	5725.1	2969.8	577.5
42.5°	330.0	1168.1	4768.2	8744.4	12865.9	14387.1	14133.0	11875.9	8038.3	4220.4	818.3
45°	376.2	1504.7	6173.9	11816.5	17092.9	19323.5	19029.9	16188.7	11268.8	6573.2	1395.8
47.5°	537.9	2263.7	8638.8	15132.8	21415.6	23194.2	23121.6	19587.5	14195.7	8985.3	2365.9
50°	864.5	3474.7	11443.7	17921.1	24167.6	25695.4	25513.9	21006.4	15865.4	10631.9	3032.5
52.5°	1154.9	4632.9	13205.7	18947.4	24989.3	26810.7	26589.7	21524.5	16304.2	11117.0	3217.3
55°	1227.5	5052.0	13730.4	19264.1	25533.7	27754.5	27434.4	21871.0	16360.3	10770.5	2910.4
57.5°	1191.2	4656.0	13390.5	19574.3	26292.7	28724.6	28299.0	22547.4	16548.4	10183.1	2422.0
59°	1128.5	4167.6	13179.3	19821.8	26711.8	28876.4	28477.1	22695.9	16673.8	9915.9	2125.1
60°	1055.9	3837.6	13014.3	19983.5	26685.4	28638.8	28226.4	22626.6	16723.3	9684.9	1983.2
62.5°	815.0	3062.2	12776.8	19868.0	25019.0	26470.9	26236.6	20930.5	15997.4	8945.7	1564.1
65°	633.6	2342.8	11905.6	17719.8	21290.2	22266.9	22194.4	17723.1	13463.1	7711.6	1128.5
67.5°	501.6	1709.3	10067.6	14350.8	17129.2	18518.4	18465.6	14387.1	10219.4	5893.4	811.7
70°	409.2	1217.6	6903.1	10820.0	13700.7	15449.6	15373.7	11578.9	7573.0	3738.7	590.7
72.5°	346.5	778.7	4187.4	8157.1	11433.8	12433.6	12212.5	9341.7	5507.3	2036.0	468.6
75°	293.7	478.5	2075.6	5085.0	6810.8	6804.2	6583.1	4946.4	2956.6	996.5	372.9
77.5°	237.6	336.6	815.0	1395.8	2148.2	2659.6	2616.7	1752.2	884.3	290.4	231.0
80°	155.1	158.4	217.8	382.8	590.7	653.4	742.5	534.6	257.4	138.6	95.7
82.5°	69.3	75.9	99.0	125.4	125.4	115.5	102.3	75.9	56.1	46.2	23.1
85°	16.5	23.1	16.5	19.8	16.5	13.2	13.2	6.6	0.0	0.0	0.0
87.5°	3.3	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



REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	26.4	26.4	26.4	23.1	23.1	23.1	19.8	19.8	19.8	16.5	16.5
5°	33.0	29.7	26.4	26.4	23.1	23.1	19.8	16.5	16.5	16.5	13.2
7.5°	36.3	33.0	29.7	26.4	23.1	19.8	19.8	16.5	13.2	13.2	13.2
10°	42.9	39.6	33.0	26.4	23.1	19.8	16.5	16.5	13.2	9.9	9.9
12.5°	49.5	42.9	36.3	29.7	23.1	19.8	16.5	16.5	13.2	9.9	6.6
15°	56.1	49.5	39.6	29.7	23.1	19.8	16.5	16.5	9.9	6.6	3.3
17.5°	62.7	52.8	39.6	33.0	23.1	19.8	16.5	13.2	6.6	3.3	0.0
20°	66.0	56.1	42.9	33.0	23.1	19.8	16.5	9.9	3.3	0.0	0.0
22.5°	72.6	62.7	46.2	33.0	23.1	16.5	9.9	3.3	0.0	0.0	0.0
25°	85.8	66.0	46.2	33.0	23.1	16.5	6.6	0.0	0.0	0.0	0.0
27.5°	95.7	72.6	46.2	33.0	23.1	13.2	3.3	0.0	0.0	0.0	0.0
30°	112.2	79.2	49.5	33.0	23.1	9.9	3.3	0.0	0.0	0.0	0.0
32.5°	138.6	85.8	49.5	33.0	19.8	9.9	0.0	0.0	0.0	0.0	0.0
35°	168.3	99.0	49.5	33.0	19.8	9.9	0.0	0.0	0.0	0.0	0.0
37.5°	171.6	105.6	49.5	33.0	19.8	6.6	0.0	0.0	0.0	0.0	0.0
40°	178.2	99.0	52.8	33.0	19.8	6.6	0.0	0.0	0.0	0.0	0.0
42.5°	204.6	92.4	56.1	33.0	19.8	6.6	0.0	0.0	0.0	0.0	0.0
45°	303.6	95.7	56.1	36.3	19.8	9.9	0.0	0.0	0.0	0.0	0.0
47.5°	528.0	99.0	52.8	36.3	19.8	9.9	0.0	0.0	0.0	0.0	0.0
50°	676.5	115.5	52.8	39.6	23.1	6.6	0.0	0.0	0.0	0.0	0.0
52.5°	719.4	135.3	52.8	42.9	29.7	3.3	0.0	0.0	0.0	0.0	0.0
55°	699.6	158.4	56.1	46.2	36.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	646.8	171.6	59.4	49.5	39.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	590.7	181.5	69.3	52.8	39.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	544.5	191.4	72.6	56.1	39.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	438.9	204.6	79.2	66.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	382.8	214.5	82.5	72.6	29.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	349.8	221.1	89.1	75.9	26.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	323.4	217.8	95.7	72.6	23.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	293.7	207.9	115.5	66.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	264.0	188.1	125.4	59.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	191.4	158.4	115.5	52.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.5	85.8	82.5	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	19.8	16.5	9.9	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



REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	16.5	16.5	16.5	16.5	19.8	19.8	26.4	33.0	39.6	42.9	42.9
5°	13.2	13.2	13.2	13.2	13.2	16.5	19.8	26.4	36.3	39.6	39.6
7.5°	9.9	9.9	9.9	9.9	9.9	9.9	16.5	23.1	33.0	36.3	39.6
10°	9.9	6.6	6.6	3.3	3.3	6.6	9.9	19.8	29.7	33.0	36.3
12.5°	6.6	3.3	3.3	0.0	0.0	3.3	6.6	16.5	26.4	29.7	33.0
15°	3.3	0.0	0.0	0.0	0.0	0.0	3.3	13.2	23.1	26.4	33.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	26.4	29.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	16.5	23.1	26.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.2	19.8	23.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	13.2	16.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.9	13.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.9	13.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	9.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	9.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	6.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1068047

CATALOG NUMBER: NAV-SA3C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	46.2	46.2	42.9	39.6	39.6	39.6	42.9	46.2	46.2	46.2
5°	42.9	42.9	39.6	39.6	39.6	39.6	42.9	49.5	52.8	52.8
7.5°	42.9	42.9	39.6	39.6	39.6	39.6	42.9	49.5	52.8	56.1
10°	39.6	39.6	39.6	39.6	36.3	39.6	42.9	49.5	59.4	59.4
12.5°	39.6	39.6	39.6	39.6	36.3	39.6	46.2	52.8	62.7	66.0
15°	39.6	39.6	39.6	36.3	36.3	39.6	46.2	56.1	66.0	72.6
17.5°	36.3	39.6	39.6	36.3	36.3	39.6	46.2	56.1	72.6	82.5
20°	33.0	36.3	39.6	36.3	36.3	36.3	46.2	56.1	75.9	89.1
22.5°	29.7	33.0	36.3	36.3	33.0	36.3	46.2	59.4	82.5	99.0
25°	26.4	29.7	29.7	33.0	33.0	36.3	46.2	59.4	85.8	112.2
27.5°	19.8	23.1	26.4	29.7	29.7	36.3	46.2	62.7	92.4	138.6
30°	16.5	19.8	23.1	26.4	29.7	36.3	46.2	62.7	99.0	174.9
32.5°	16.5	19.8	23.1	26.4	29.7	33.0	46.2	66.0	108.9	217.8
35°	13.2	16.5	19.8	26.4	26.4	33.0	46.2	66.0	118.8	283.8
37.5°	13.2	16.5	19.8	26.4	26.4	33.0	46.2	66.0	145.2	316.8
40°	9.9	13.2	16.5	26.4	26.4	33.0	49.5	69.3	148.5	320.1
42.5°	9.9	13.2	16.5	23.1	26.4	33.0	49.5	69.3	138.6	330.0
45°	9.9	13.2	16.5	26.4	29.7	36.3	49.5	72.6	135.3	376.2
47.5°	9.9	13.2	16.5	26.4	33.0	36.3	49.5	72.6	138.6	537.9
50°	9.9	13.2	16.5	26.4	36.3	36.3	49.5	72.6	151.8	864.5
52.5°	6.6	9.9	13.2	23.1	29.7	39.6	52.8	69.3	161.7	1154.9
55°	6.6	6.6	9.9	19.8	26.4	42.9	56.1	69.3	188.1	1227.5
57.5°	6.6	6.6	9.9	16.5	23.1	46.2	59.4	69.3	217.8	1191.2
59°	6.6	6.6	6.6	16.5	19.8	46.2	59.4	72.6	221.1	1128.5
60°	6.6	6.6	6.6	13.2	19.8	46.2	62.7	75.9	224.4	1055.9
62.5°	3.3	3.3	3.3	13.2	16.5	46.2	69.3	92.4	231.0	815.0
65°	6.6	6.6	3.3	9.9	16.5	39.6	79.2	99.0	234.3	633.6
67.5°	6.6	6.6	6.6	13.2	16.5	39.6	82.5	102.3	234.3	501.6
70°	6.6	6.6	6.6	13.2	19.8	39.6	82.5	105.6	231.0	409.2
72.5°	6.6	6.6	6.6	13.2	19.8	36.3	75.9	108.9	221.1	346.5
75°	6.6	6.6	6.6	9.9	16.5	33.0	72.6	118.8	201.3	293.7
77.5°	6.6	6.6	6.6	6.6	13.2	26.4	66.0	132.0	178.2	237.6
80°	9.9	6.6	6.6	6.6	9.9	23.1	62.7	128.7	148.5	155.1
82.5°	9.9	6.6	6.6	3.3	6.6	16.5	49.5	99.0	75.9	69.3
85°	6.6	6.6	6.6	3.3	3.3	9.9	23.1	29.7	23.1	16.5
87.5°	6.6	6.6	6.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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

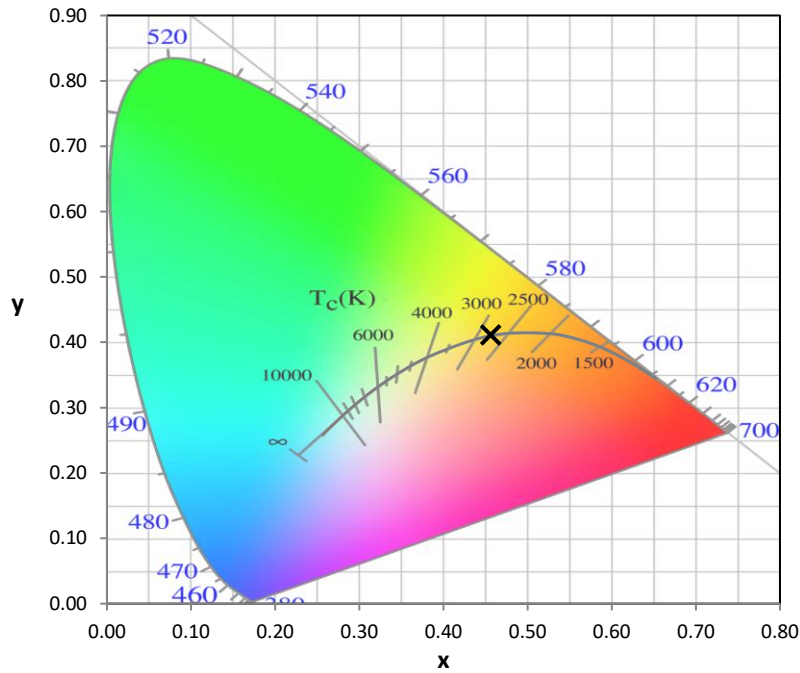
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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

REPORT NUMBER: SP1-2407-184-8

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			

REPORT NUMBER: SP1-2407-184-8

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

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

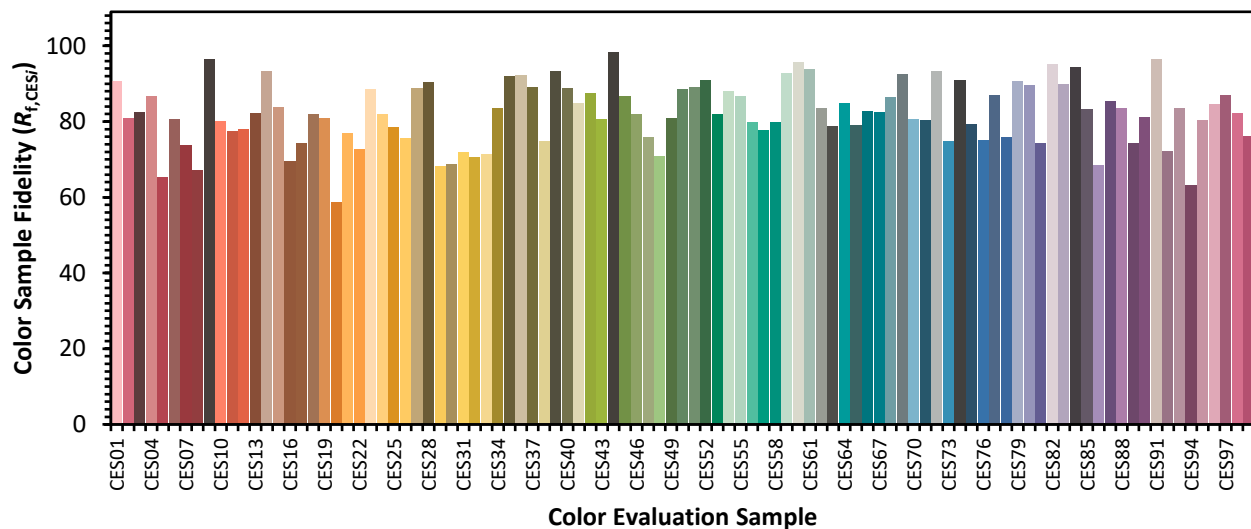


Color Vector Graphics



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)