

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: P1068055

Luminaire Tested: **NAV-SA5C-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068055
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17523.6 lumens
Efficiency: N/A
Efficacy: 74.3 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): 236
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



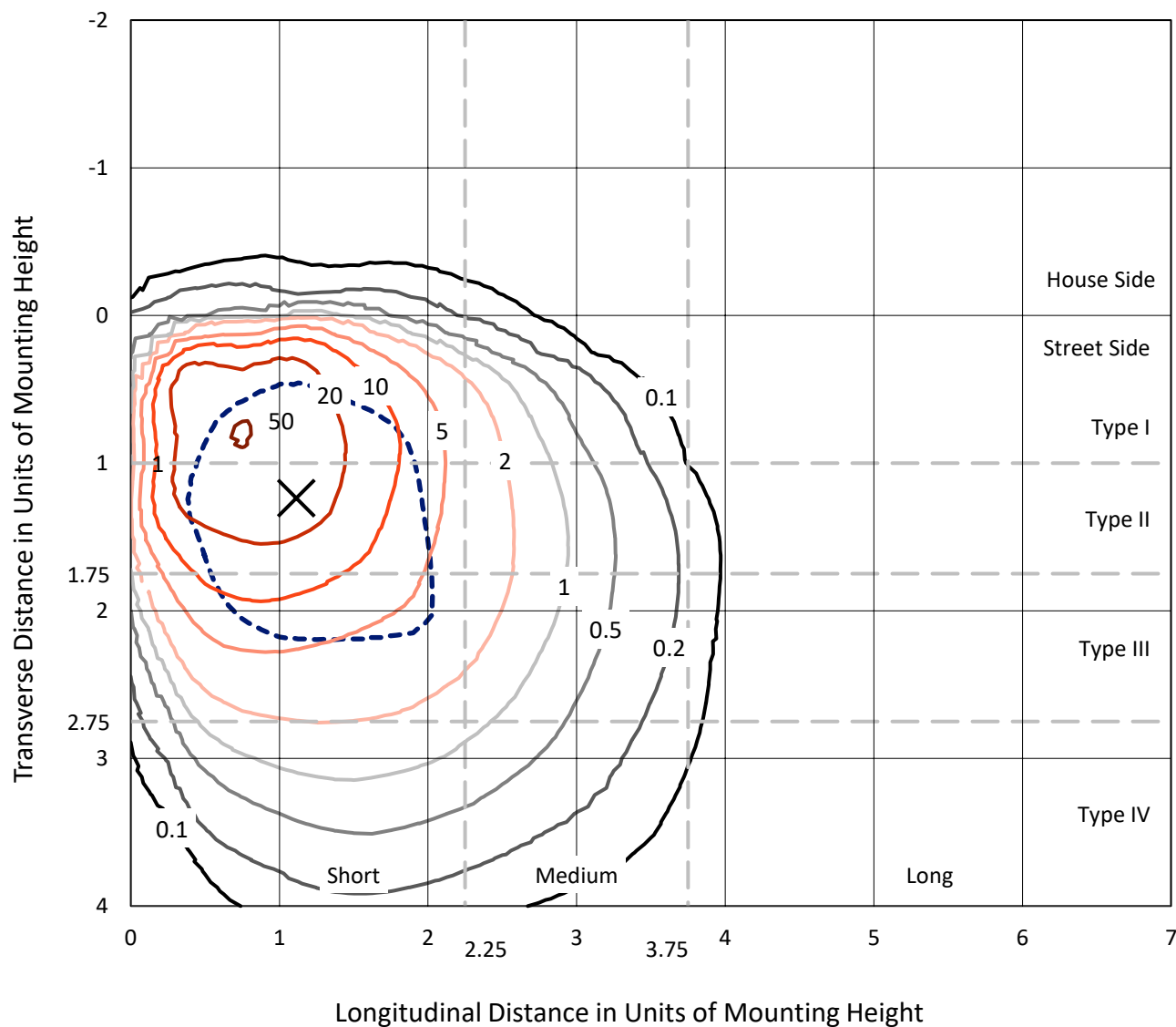
REPORT NUMBER: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

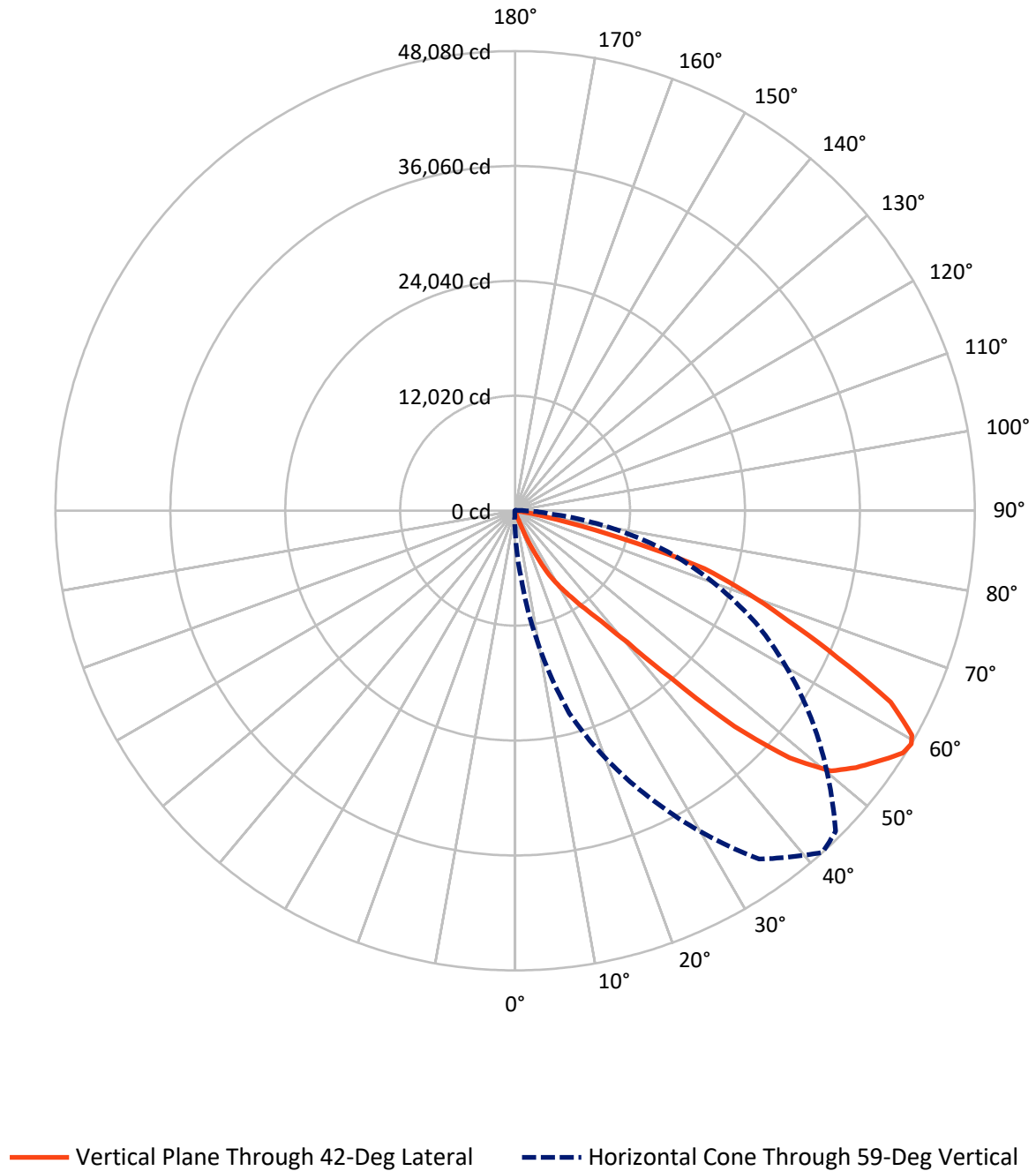


Based on 15 foot mounting height. Maximum calculated value = 52.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1068055

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	84.4	0.0	84.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17439.2	0.0	17439.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	17523.6	0.0	17523.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.0
10°-20°	25.6	0.1
20°-30°	326.9	1.9
30°-40°	1102.0	6.3
40°-50°	3328.5	19.0
50°-60°	5875.7	33.5
60°-70°	5173.6	29.5
70°-80°	1646.8	9.4
80°-90°	39.4	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°	17523.6	100.0
0°-180°	17523.6	100.0



REPORT NUMBER: P1068055

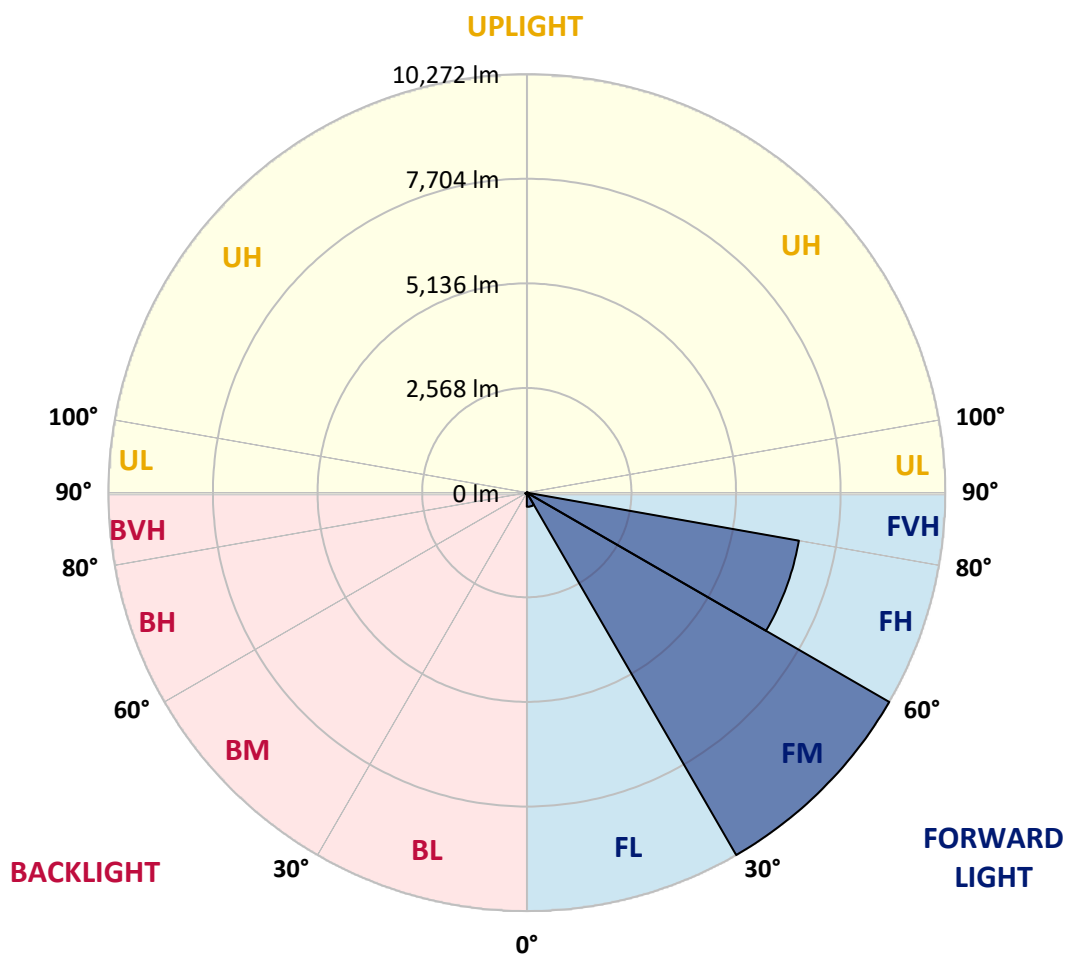
CATALOG NUMBER: NAV-SA5C-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.1	2.0			
FM	(30°-60°)	10271.8	58.6			
FH	(60°-80°)	6781.8	38.7			G3/7500
FVH	(80°-90°)	37.5	0.2			G1/100
BL	(0°-30°)	9.4	0.1	B0/110		
BM	(30°-60°)	34.5	0.2	B0/220		
BH	(60°-80°)	38.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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





REPORT NUMBER: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	76.9	76.9	71.4	65.9	60.4	54.9	54.9	54.9	49.4	49.4	44.0
5°	87.9	87.9	82.4	76.9	76.9	71.4	71.4	65.9	60.4	60.4	54.9
7.5°	93.4	93.4	93.4	93.4	87.9	87.9	87.9	82.4	76.9	71.4	65.9
10°	98.9	104.4	109.9	109.9	109.9	109.9	109.9	104.4	93.4	87.9	76.9
12.5°	109.9	115.4	126.4	137.4	137.4	137.4	137.4	131.9	120.9	104.4	87.9
15°	120.9	131.9	148.3	170.3	192.3	197.8	197.8	181.3	159.3	126.4	104.4
17.5°	137.4	153.8	197.8	269.2	346.1	406.6	406.6	362.6	252.7	164.8	120.9
20°	148.3	181.3	318.7	648.3	989.0	1241.7	1192.3	1054.9	565.9	258.2	131.9
22.5°	164.8	230.8	675.8	1703.2	2637.2	3098.8	2988.9	2269.1	1269.2	461.5	159.3
25°	186.8	335.1	1340.6	3192.2	4900.9	5400.8	5329.4	4236.1	2313.1	774.7	203.3
27.5°	230.8	494.5	2148.2	4840.4	7230.4	7659.0	7631.5	6203.0	3697.6	1247.2	263.7
30°	291.2	719.7	3186.7	6576.6	8774.3	9208.3	9071.0	7642.5	4988.8	1906.5	340.6
32.5°	362.6	1005.4	4126.2	7856.8	10197.3	10768.7	10603.9	8895.2	6027.2	2466.9	505.5
35°	472.5	1285.7	5054.7	8988.6	11840.1	12565.3	12290.6	10186.3	6922.7	3098.8	609.9
37.5°	527.4	1450.5	5906.3	10219.3	13686.2	14675.1	14466.3	11818.1	7834.8	3906.4	747.2
40°	532.9	1648.3	6790.9	11823.6	16295.9	18059.6	17686.0	14620.2	9532.5	4944.8	961.5
42.5°	549.4	1945.0	7939.2	14559.7	21422.0	23954.9	23531.8	19773.8	13384.0	7027.1	1362.6
45°	626.3	2505.4	10279.7	19674.9	28460.2	32174.3	31685.3	26954.7	18762.8	10944.5	2324.1
47.5°	895.6	3769.0	14383.9	25196.6	35657.6	38619.0	38498.1	32613.8	23636.2	14960.8	3939.4
50°	1439.5	5785.4	19054.0	29839.2	40239.8	42783.6	42481.5	34976.3	26416.3	17702.4	5049.2
52.5°	1923.0	7713.9	21987.9	31547.9	41607.9	44640.7	44272.6	35838.9	27147.0	18510.1	5356.9
55°	2043.9	8411.7	22861.5	32075.4	42514.4	46212.1	45679.1	36415.8	27240.4	17933.2	4845.9
57.5°	1983.4	7752.4	22295.6	32591.8	43778.1	47827.4	47118.6	37542.1	27553.6	16955.2	4032.8
59°	1879.0	6939.2	21944.0	33003.9	44475.9	48080.1	47415.3	37789.4	27762.4	16510.2	3538.3
60°	1758.2	6389.8	21669.3	33273.1	44431.9	47684.5	46997.7	37674.0	27844.8	16125.6	3302.0
62.5°	1357.1	5098.7	21273.7	33080.8	41657.3	44074.8	43684.7	34850.0	26636.1	14894.9	2604.3
65°	1054.9	3900.9	19823.2	29504.1	35448.8	37075.1	36954.3	29509.6	22416.5	12840.0	1879.0
67.5°	835.1	2846.0	16762.9	23894.5	28520.6	30833.7	30745.8	23954.9	17015.7	9812.7	1351.6
70°	681.3	2027.4	11494.0	18015.6	22812.1	25724.0	25597.7	19279.3	12609.3	6225.0	983.5
72.5°	576.9	1296.6	6972.2	13581.8	19037.5	20702.3	20334.2	15554.2	9169.9	3389.9	780.2
75°	489.0	796.7	3455.9	8466.6	11340.1	11329.1	10961.0	8235.9	4922.8	1659.3	620.8
77.5°	395.6	560.4	1357.1	2324.1	3576.8	4428.4	4356.9	2917.4	1472.5	483.5	384.6
80°	258.2	263.7	362.6	637.3	983.5	1087.9	1236.2	890.1	428.6	230.8	159.3
82.5°	115.4	126.4	164.8	208.8	208.8	192.3	170.3	126.4	93.4	76.9	38.5
85°	27.5	38.5	27.5	33.0	27.5	22.0	22.0	11.0	0.0	0.0	0.0
87.5°	5.5	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: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	44.0	44.0	44.0	38.5	38.5	38.5	33.0	33.0	33.0	27.5	27.5
5°	54.9	49.4	44.0	44.0	38.5	38.5	33.0	27.5	27.5	27.5	22.0
7.5°	60.4	54.9	49.4	44.0	38.5	33.0	33.0	27.5	22.0	22.0	22.0
10°	71.4	65.9	54.9	44.0	38.5	33.0	27.5	27.5	22.0	16.5	16.5
12.5°	82.4	71.4	60.4	49.4	38.5	33.0	27.5	27.5	22.0	16.5	11.0
15°	93.4	82.4	65.9	49.4	38.5	33.0	27.5	27.5	16.5	11.0	5.5
17.5°	104.4	87.9	65.9	54.9	38.5	33.0	27.5	22.0	11.0	5.5	0.0
20°	109.9	93.4	71.4	54.9	38.5	33.0	27.5	16.5	5.5	0.0	0.0
22.5°	120.9	104.4	76.9	54.9	38.5	27.5	16.5	5.5	0.0	0.0	0.0
25°	142.9	109.9	76.9	54.9	38.5	27.5	11.0	0.0	0.0	0.0	0.0
27.5°	159.3	120.9	76.9	54.9	38.5	22.0	5.5	0.0	0.0	0.0	0.0
30°	186.8	131.9	82.4	54.9	38.5	16.5	5.5	0.0	0.0	0.0	0.0
32.5°	230.8	142.9	82.4	54.9	33.0	16.5	0.0	0.0	0.0	0.0	0.0
35°	280.2	164.8	82.4	54.9	33.0	16.5	0.0	0.0	0.0	0.0	0.0
37.5°	285.7	175.8	82.4	54.9	33.0	11.0	0.0	0.0	0.0	0.0	0.0
40°	296.7	164.8	87.9	54.9	33.0	11.0	0.0	0.0	0.0	0.0	0.0
42.5°	340.6	153.8	93.4	54.9	33.0	11.0	0.0	0.0	0.0	0.0	0.0
45°	505.5	159.3	93.4	60.4	33.0	16.5	0.0	0.0	0.0	0.0	0.0
47.5°	879.1	164.8	87.9	60.4	33.0	16.5	0.0	0.0	0.0	0.0	0.0
50°	1126.3	192.3	87.9	65.9	38.5	11.0	0.0	0.0	0.0	0.0	0.0
52.5°	1197.7	225.3	87.9	71.4	49.4	5.5	0.0	0.0	0.0	0.0	0.0
55°	1164.8	263.7	93.4	76.9	60.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1076.9	285.7	98.9	82.4	65.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	983.5	302.2	115.4	87.9	65.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	906.5	318.7	120.9	93.4	65.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	730.7	340.6	131.9	109.9	54.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	637.3	357.1	137.4	120.9	49.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	582.4	368.1	148.3	126.4	44.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	538.4	362.6	159.3	120.9	38.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	489.0	346.1	192.3	109.9	33.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	439.5	313.2	208.8	98.9	22.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	318.7	263.7	192.3	87.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.4	142.9	137.4	65.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	33.0	27.5	16.5	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



REPORT NUMBER: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	27.5	27.5	27.5	27.5	33.0	33.0	44.0	54.9	65.9	71.4	71.4
5°	22.0	22.0	22.0	22.0	22.0	27.5	33.0	44.0	60.4	65.9	65.9
7.5°	16.5	16.5	16.5	16.5	16.5	16.5	27.5	38.5	54.9	60.4	65.9
10°	16.5	11.0	11.0	5.5	5.5	11.0	16.5	33.0	49.4	54.9	60.4
12.5°	11.0	5.5	5.5	0.0	0.0	5.5	11.0	27.5	44.0	49.4	54.9
15°	5.5	0.0	0.0	0.0	0.0	0.0	5.5	22.0	38.5	44.0	54.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	33.0	44.0	49.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	27.5	38.5	44.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	22.0	33.0	38.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	22.0	27.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	16.5	22.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	16.5	22.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	16.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	16.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0	11.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
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: P1068055

CATALOG NUMBER: NAV-SA5C-827-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	76.9	76.9	71.4	65.9	65.9	65.9	71.4	76.9	76.9	76.9
5°	71.4	71.4	65.9	65.9	65.9	65.9	71.4	82.4	87.9	87.9
7.5°	71.4	71.4	65.9	65.9	65.9	65.9	71.4	82.4	87.9	93.4
10°	65.9	65.9	65.9	65.9	60.4	65.9	71.4	82.4	98.9	98.9
12.5°	65.9	65.9	65.9	65.9	60.4	65.9	76.9	87.9	104.4	109.9
15°	65.9	65.9	65.9	60.4	60.4	65.9	76.9	93.4	109.9	120.9
17.5°	60.4	65.9	65.9	60.4	60.4	65.9	76.9	93.4	120.9	137.4
20°	54.9	60.4	65.9	60.4	60.4	60.4	76.9	93.4	126.4	148.3
22.5°	49.4	54.9	60.4	60.4	54.9	60.4	76.9	98.9	137.4	164.8
25°	44.0	49.4	49.4	54.9	54.9	60.4	76.9	98.9	142.9	186.8
27.5°	33.0	38.5	44.0	49.4	49.4	60.4	76.9	104.4	153.8	230.8
30°	27.5	33.0	38.5	44.0	49.4	60.4	76.9	104.4	164.8	291.2
32.5°	27.5	33.0	38.5	44.0	49.4	54.9	76.9	109.9	181.3	362.6
35°	22.0	27.5	33.0	44.0	44.0	54.9	76.9	109.9	197.8	472.5
37.5°	22.0	27.5	33.0	44.0	44.0	54.9	76.9	109.9	241.7	527.4
40°	16.5	22.0	27.5	44.0	44.0	54.9	82.4	115.4	247.2	532.9
42.5°	16.5	22.0	27.5	38.5	44.0	54.9	82.4	115.4	230.8	549.4
45°	16.5	22.0	27.5	44.0	49.4	60.4	82.4	120.9	225.3	626.3
47.5°	16.5	22.0	27.5	44.0	54.9	60.4	82.4	120.9	230.8	895.6
50°	16.5	22.0	27.5	44.0	60.4	60.4	82.4	120.9	252.7	1439.5
52.5°	11.0	16.5	22.0	38.5	49.4	65.9	87.9	115.4	269.2	1923.0
55°	11.0	11.0	16.5	33.0	44.0	71.4	93.4	115.4	313.2	2043.9
57.5°	11.0	11.0	16.5	27.5	38.5	76.9	98.9	115.4	362.6	1983.4
59°	11.0	11.0	11.0	22.0	33.0	76.9	98.9	120.9	368.1	1879.0
60°	11.0	11.0	11.0	22.0	33.0	76.9	104.4	126.4	373.6	1758.2
62.5°	5.5	5.5	5.5	22.0	27.5	76.9	115.4	153.8	384.6	1357.1
65°	11.0	11.0	5.5	16.5	27.5	65.9	131.9	164.8	390.1	1054.9
67.5°	11.0	11.0	11.0	22.0	27.5	65.9	137.4	170.3	390.1	835.1
70°	11.0	11.0	11.0	22.0	33.0	65.9	137.4	175.8	384.6	681.3
72.5°	11.0	11.0	11.0	22.0	33.0	60.4	126.4	181.3	368.1	576.9
75°	11.0	11.0	11.0	16.5	27.5	54.9	120.9	197.8	335.1	489.0
77.5°	11.0	11.0	11.0	11.0	22.0	44.0	109.9	219.8	296.7	395.6
80°	16.5	11.0	11.0	11.0	16.5	38.5	104.4	214.3	247.2	258.2
82.5°	16.5	11.0	11.0	5.5	11.0	27.5	82.4	164.8	126.4	115.4
85°	11.0	11.0	11.0	5.5	5.5	16.5	38.5	49.4	38.5	27.5
87.5°	11.0	11.0	11.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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 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	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

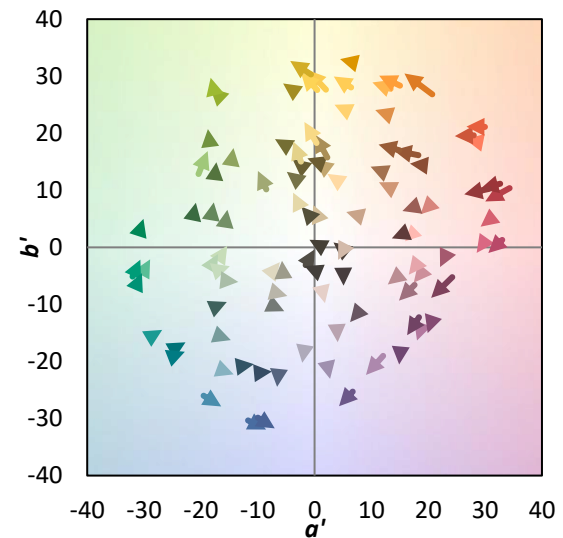
TM-30-18

Summary

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

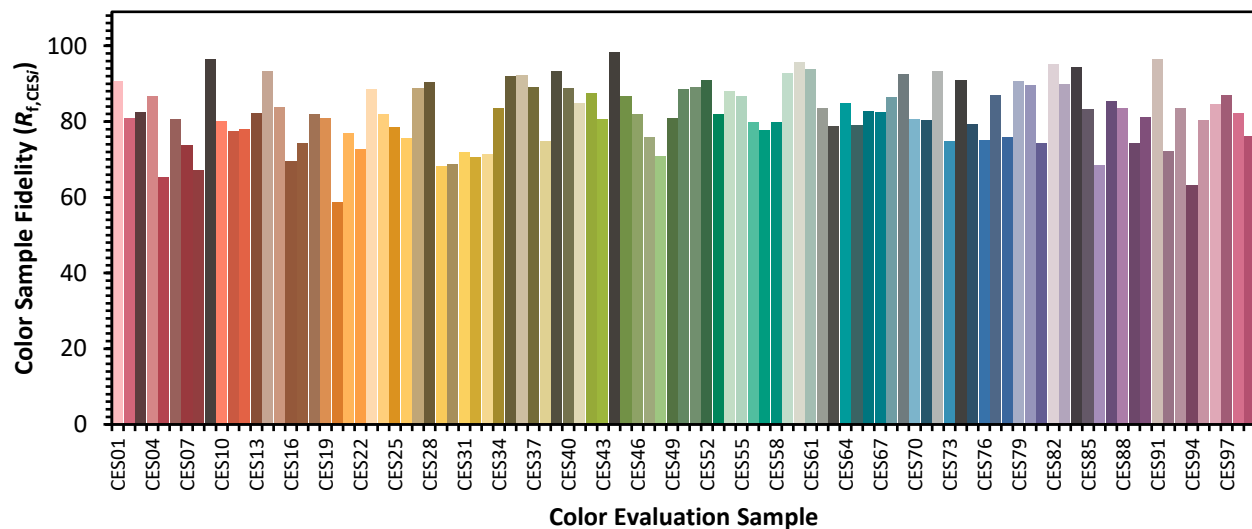


Color Vector Graphics

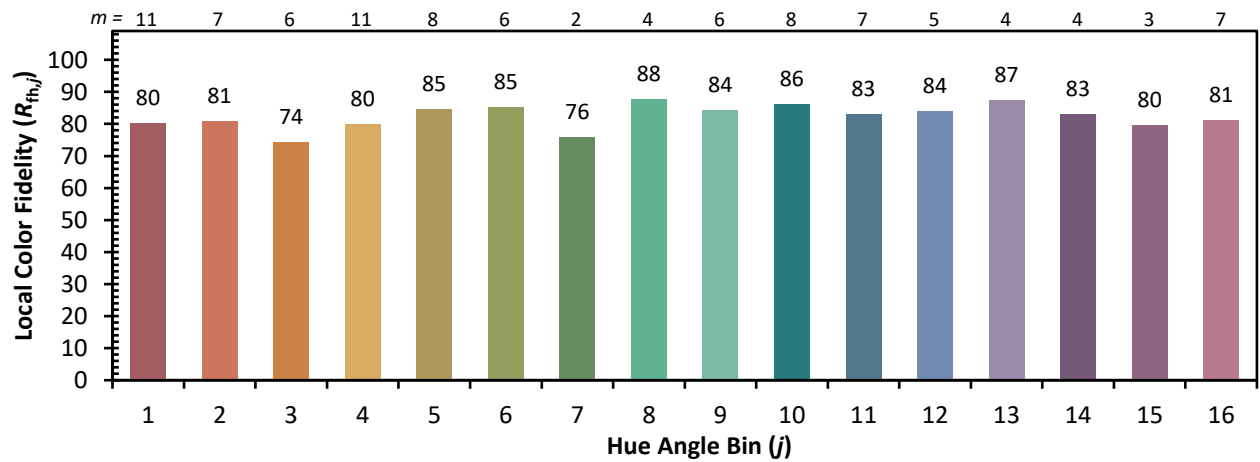
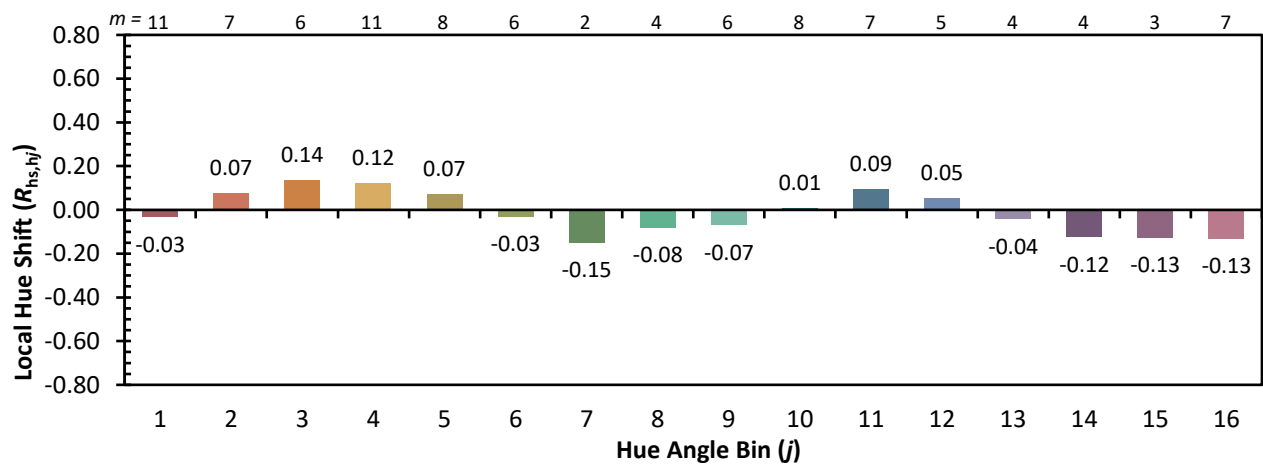
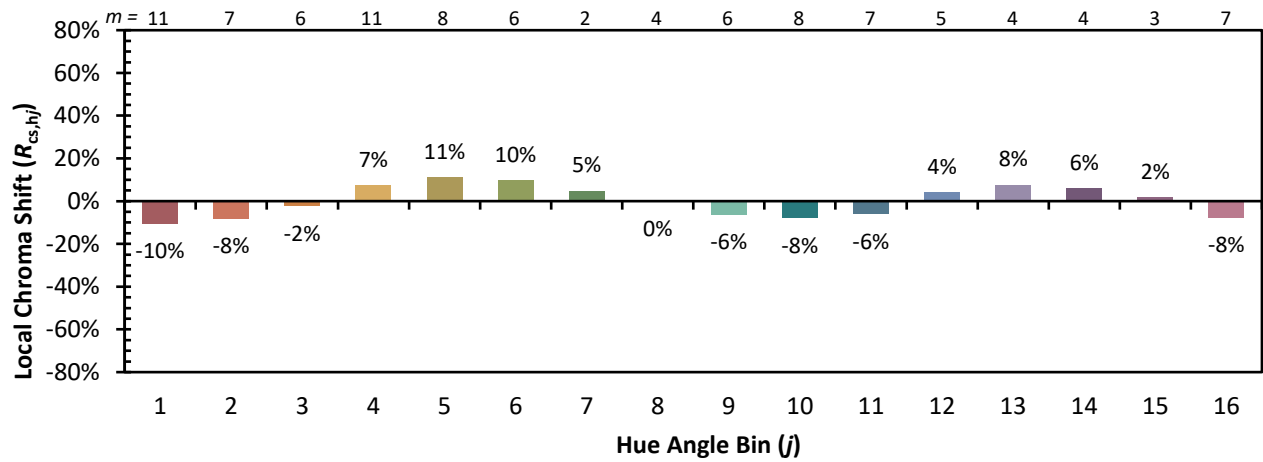


Individual Sample Fidelity Index ($R_{f,i}$)

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)