

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: P1067922

Luminaire Tested: **NAV-SA2B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067922
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6509.5 lumens
Efficiency: N/A
Efficacy: 89.4 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



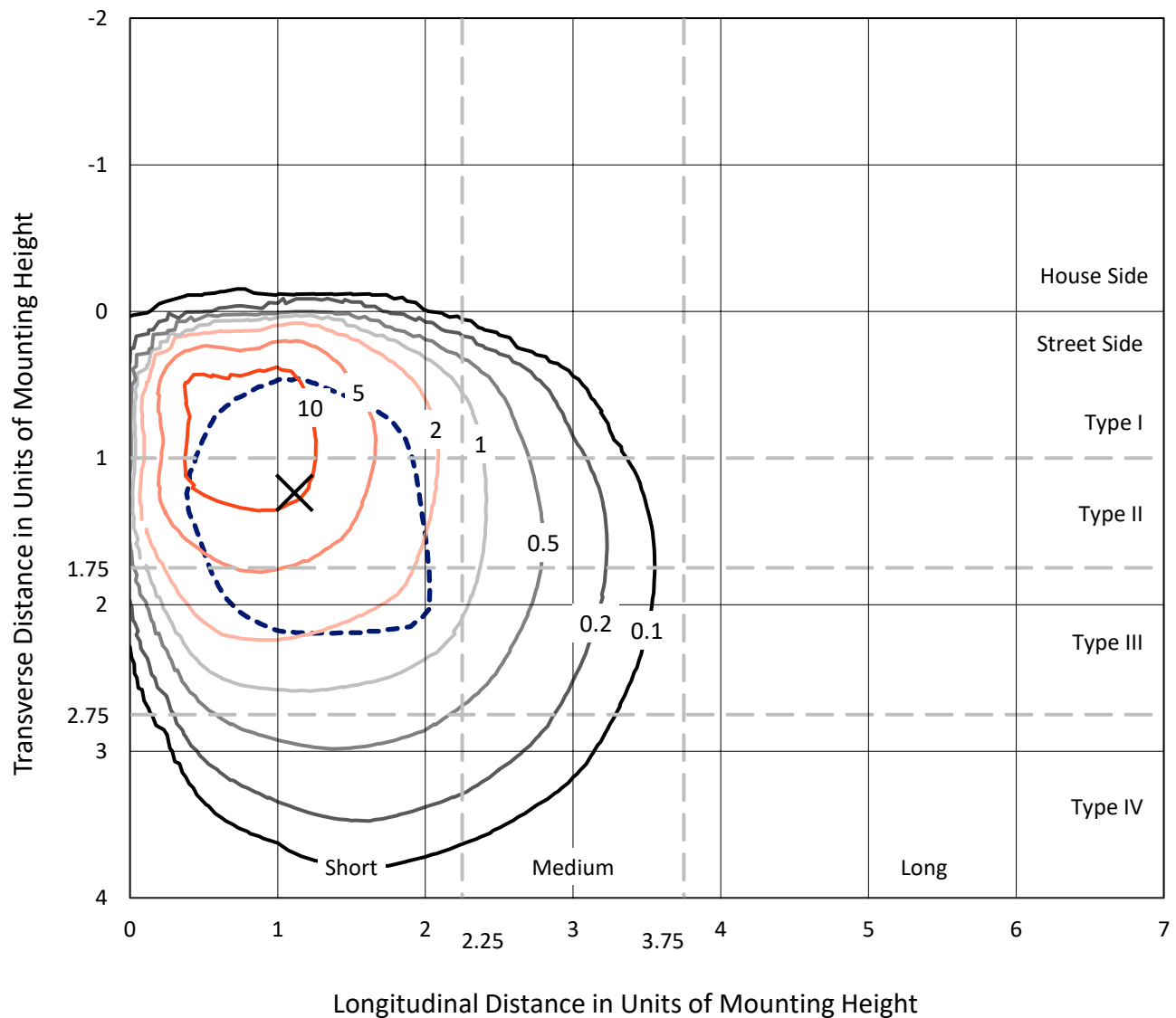
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

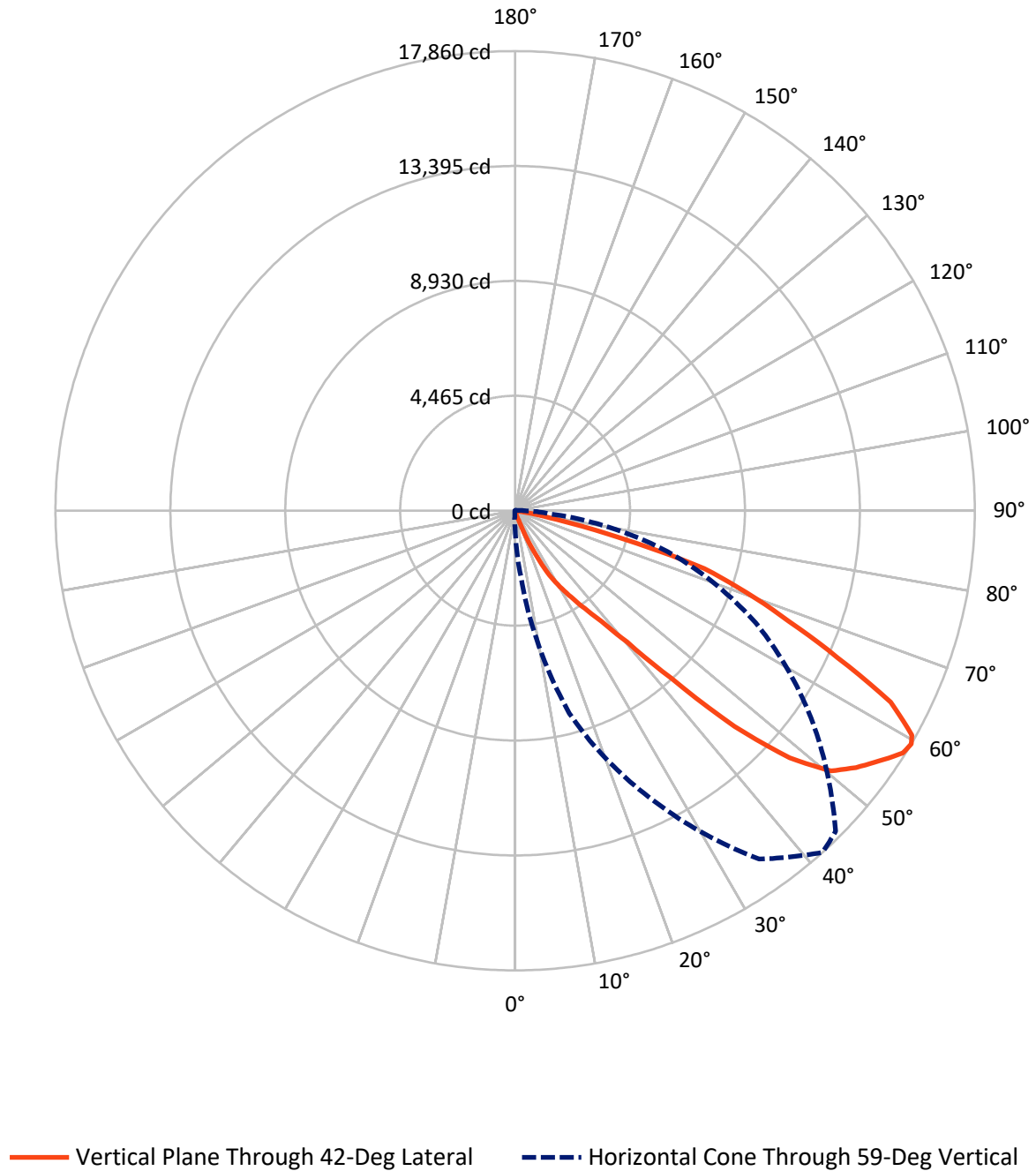


Based on 15 foot mounting height. Maximum calculated value = 19.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.4	0.0	31.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	6478.1	0.0	6478.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	6509.5	0.0	6509.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.0
10°-20°	9.5	0.1
20°-30°	121.4	1.9
30°-40°	409.4	6.3
40°-50°	1236.5	19.0
50°-60°	2182.6	33.5
60°-70°	1921.9	29.5
70°-80°	611.7	9.4
80°-90°	14.6	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°	6509.5	100.0
0°-180°	6509.5	100.0



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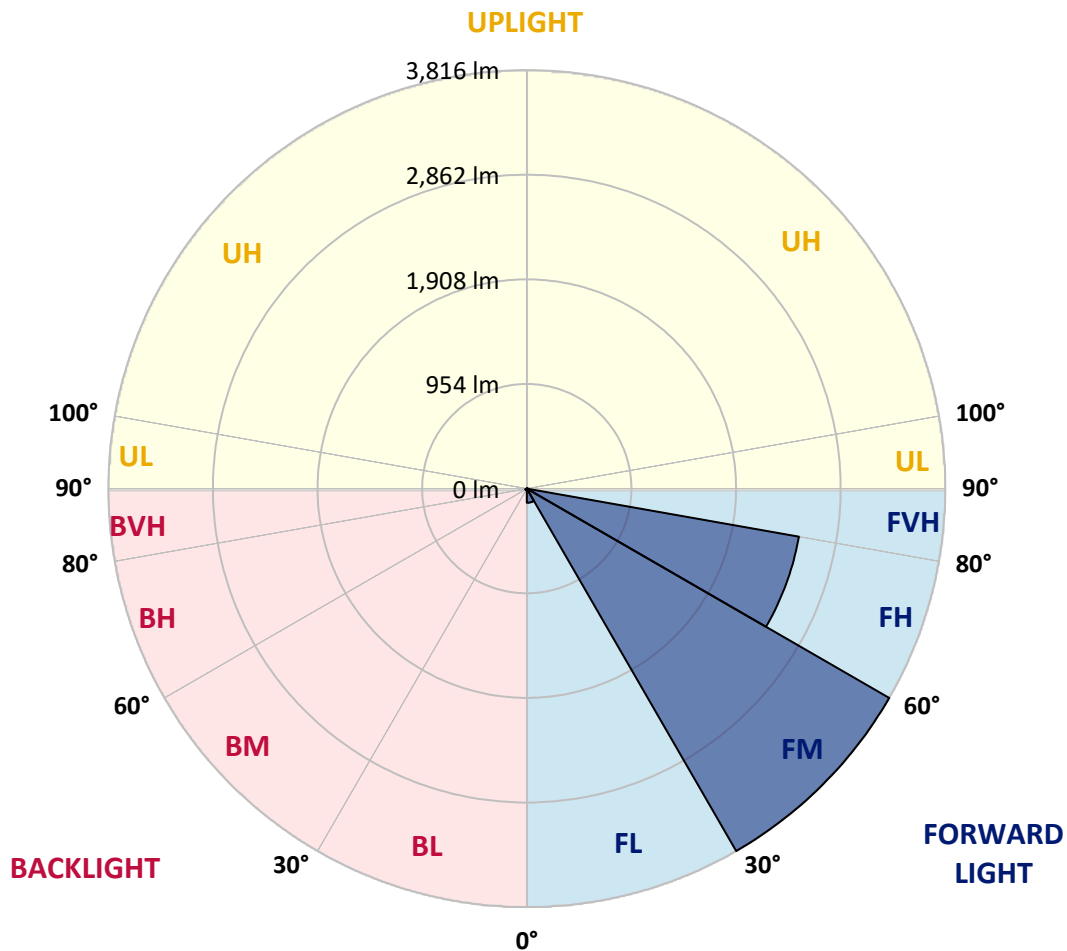
CATALOG NUMBER: NAV-SA2B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.3	2.0			
FM	(30°-60°)	3815.7	58.6			
FH	(60°-80°)	2519.2	38.7			G2/5000
FVH	(80°-90°)	13.9	0.2			G1/100
BL	(0°-30°)	3.5	0.1	B0/110		
BM	(30°-60°)	12.8	0.2	B0/220		
BH	(60°-80°)	14.3	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	28.6	28.6	26.5	24.5	22.5	20.4	20.4	20.4	18.4	18.4	16.3
5°	32.7	32.7	30.6	28.6	28.6	26.5	26.5	24.5	22.5	22.5	20.4
7.5°	34.7	34.7	34.7	34.7	32.7	32.7	32.7	30.6	28.6	26.5	24.5
10°	36.7	38.8	40.8	40.8	40.8	40.8	40.8	38.8	34.7	32.7	28.6
12.5°	40.8	42.9	46.9	51.0	51.0	53.1	51.0	49.0	44.9	38.8	32.7
15°	44.9	49.0	55.1	63.3	71.4	73.5	73.5	67.4	59.2	46.9	38.8
17.5°	51.0	57.1	73.5	100.0	128.6	151.0	151.0	134.7	93.9	61.2	44.9
20°	55.1	67.4	118.4	240.8	367.4	461.3	442.9	391.9	210.2	95.9	49.0
22.5°	61.2	85.7	251.0	632.7	979.7	1151.1	1110.3	842.9	471.5	171.4	59.2
25°	69.4	124.5	498.0	1185.8	1820.5	2006.2	1979.7	1573.6	859.2	287.8	75.5
27.5°	85.7	183.7	798.0	1798.1	2685.9	2845.1	2834.9	2304.2	1373.6	463.3	98.0
30°	108.2	267.4	1183.7	2443.0	3259.4	3420.6	3369.6	2839.0	1853.2	708.2	126.5
32.5°	134.7	373.5	1532.8	2918.6	3788.0	4000.3	3939.0	3304.3	2238.9	916.4	187.8
35°	175.5	477.6	1877.7	3339.0	4398.2	4667.6	4565.6	3783.9	2571.6	1151.1	226.5
37.5°	195.9	538.8	2194.0	3796.2	5084.0	5451.4	5373.8	4390.1	2910.4	1451.1	277.6
40°	198.0	612.3	2522.6	4392.1	6053.4	6708.6	6569.8	5431.0	3541.0	1836.9	357.2
42.5°	204.1	722.5	2949.2	5408.5	7957.6	8898.5	8741.4	7345.4	4971.7	2610.4	506.2
45°	232.7	930.7	3818.6	7308.6	10572.1	11951.8	11770.1	10012.9	6969.8	4065.6	863.3
47.5°	332.7	1400.1	5343.2	9359.8	13245.7	14345.8	14300.9	12115.1	8780.1	5557.5	1463.4
50°	534.7	2149.1	7078.0	11084.4	14947.9	15892.8	15780.6	12992.7	9812.9	6575.9	1875.6
52.5°	714.3	2865.5	8167.9	11719.1	15456.1	16582.7	16445.9	13313.1	10084.3	6875.9	1989.9
55°	759.2	3124.7	8492.4	11915.0	15792.8	17166.4	16968.4	13527.4	10119.0	6661.6	1800.1
57.5°	736.8	2879.8	8282.2	12106.9	16262.3	17766.4	17503.2	13945.8	10235.3	6298.4	1498.1
59°	698.0	2577.7	8151.5	12260.0	16521.5	17860.3	17613.4	14037.6	10312.9	6133.0	1314.4
60°	653.1	2373.6	8049.5	12360.0	16505.1	17713.4	17458.2	13994.8	10343.5	5990.2	1226.6
62.5°	504.1	1894.0	7902.5	12288.5	15474.5	16372.5	16227.6	12945.7	9894.5	5533.0	967.4
65°	391.9	1449.1	7363.7	10959.9	13168.2	13772.3	13727.4	10961.9	8327.1	4769.7	698.0
67.5°	310.2	1057.2	6226.9	8876.1	10594.5	11453.8	11421.1	8898.5	6320.8	3645.1	502.1
70°	253.1	753.1	4269.7	6692.3	8474.0	9555.7	9508.8	7161.7	4684.0	2312.4	365.3
72.5°	214.3	481.7	2590.0	5045.2	7071.9	7690.3	7553.5	5777.9	3406.3	1259.3	289.8
75°	181.6	295.9	1283.8	3145.1	4212.5	4208.4	4071.7	3059.4	1828.7	616.4	230.6
77.5°	146.9	208.2	504.1	863.3	1328.7	1645.0	1618.5	1083.7	547.0	179.6	142.9
80°	95.9	98.0	134.7	236.7	365.3	404.1	459.2	330.6	159.2	85.7	59.2
82.5°	42.9	46.9	61.2	77.6	77.6	71.4	63.3	46.9	34.7	28.6	14.3
85°	10.2	14.3	10.2	12.2	10.2	8.2	8.2	4.1	0.0	0.0	0.0
87.5°	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	16.3	16.3	16.3	14.3	14.3	14.3	12.2	12.2	12.2	10.2	10.2
5°	20.4	18.4	16.3	16.3	14.3	14.3	12.2	10.2	10.2	10.2	8.2
7.5°	22.5	20.4	18.4	16.3	14.3	12.2	12.2	10.2	8.2	8.2	8.2
10°	26.5	24.5	20.4	16.3	14.3	12.2	10.2	10.2	8.2	6.1	6.1
12.5°	30.6	26.5	22.5	18.4	14.3	12.2	10.2	10.2	8.2	6.1	4.1
15°	34.7	30.6	24.5	18.4	14.3	12.2	10.2	10.2	6.1	4.1	2.0
17.5°	38.8	32.7	24.5	20.4	14.3	12.2	10.2	8.2	4.1	2.0	0.0
20°	40.8	34.7	26.5	20.4	14.3	12.2	10.2	6.1	2.0	0.0	0.0
22.5°	44.9	38.8	28.6	20.4	14.3	10.2	6.1	2.0	0.0	0.0	0.0
25°	53.1	40.8	28.6	20.4	14.3	10.2	4.1	0.0	0.0	0.0	0.0
27.5°	59.2	44.9	28.6	20.4	14.3	8.2	2.0	0.0	0.0	0.0	0.0
30°	69.4	49.0	30.6	20.4	14.3	6.1	2.0	0.0	0.0	0.0	0.0
32.5°	85.7	53.1	30.6	20.4	12.2	6.1	0.0	0.0	0.0	0.0	0.0
35°	104.1	61.2	30.6	20.4	12.2	6.1	0.0	0.0	0.0	0.0	0.0
37.5°	106.1	65.3	30.6	20.4	12.2	4.1	0.0	0.0	0.0	0.0	0.0
40°	110.2	61.2	32.7	20.4	12.2	4.1	0.0	0.0	0.0	0.0	0.0
42.5°	126.5	57.1	34.7	20.4	12.2	4.1	0.0	0.0	0.0	0.0	0.0
45°	187.8	59.2	34.7	22.5	12.2	6.1	0.0	0.0	0.0	0.0	0.0
47.5°	326.6	61.2	32.7	22.5	12.2	6.1	0.0	0.0	0.0	0.0	0.0
50°	418.4	71.4	32.7	24.5	14.3	4.1	0.0	0.0	0.0	0.0	0.0
52.5°	444.9	83.7	32.7	26.5	18.4	2.0	0.0	0.0	0.0	0.0	0.0
55°	432.7	98.0	34.7	28.6	22.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	400.0	106.1	36.7	30.6	24.5	0.0	0.0	0.0	0.0	0.0	0.0
59°	365.3	112.3	42.9	32.7	24.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	336.8	118.4	44.9	34.7	24.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	271.4	126.5	49.0	40.8	20.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	236.7	132.7	51.0	44.9	18.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	216.3	136.7	55.1	46.9	16.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	200.0	134.7	59.2	44.9	14.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	181.6	128.6	71.4	40.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	163.3	116.3	77.6	36.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	118.4	98.0	71.4	32.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	51.0	53.1	51.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	12.2	10.2	6.1	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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	10.2	10.2	10.2	10.2	12.2	12.2	16.3	20.4	24.5	26.5	26.5
5°	8.2	8.2	8.2	8.2	8.2	10.2	12.2	16.3	22.5	24.5	24.5
7.5°	6.1	6.1	6.1	6.1	6.1	6.1	10.2	14.3	20.4	22.5	24.5
10°	6.1	4.1	4.1	2.0	2.0	4.1	6.1	12.2	18.4	20.4	22.5
12.5°	4.1	2.0	2.0	0.0	0.0	2.0	4.1	10.2	16.3	18.4	20.4
15°	2.0	0.0	0.0	0.0	0.0	0.0	2.0	8.2	14.3	16.3	20.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2	16.3	18.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.2	14.3	16.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.2	12.2	14.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	8.2	10.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.1	8.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.1	8.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	6.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	6.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	4.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	28.6	28.6	26.5	24.5	24.5	24.5	26.5	28.6	28.6	28.6
5°	26.5	26.5	24.5	24.5	24.5	24.5	26.5	30.6	32.7	32.7
7.5°	26.5	26.5	24.5	24.5	24.5	24.5	26.5	30.6	32.7	34.7
10°	24.5	24.5	24.5	24.5	22.5	24.5	26.5	30.6	36.7	36.7
12.5°	24.5	24.5	24.5	24.5	22.5	24.5	28.6	32.7	38.8	40.8
15°	24.5	24.5	24.5	22.5	22.5	24.5	28.6	34.7	40.8	44.9
17.5°	22.5	24.5	24.5	22.5	22.5	24.5	28.6	34.7	44.9	51.0
20°	20.4	22.5	24.5	22.5	22.5	22.5	28.6	34.7	46.9	55.1
22.5°	18.4	20.4	22.5	22.5	20.4	22.5	28.6	36.7	51.0	61.2
25°	16.3	18.4	18.4	20.4	20.4	22.5	28.6	36.7	53.1	69.4
27.5°	12.2	14.3	16.3	18.4	18.4	22.5	28.6	38.8	57.1	85.7
30°	10.2	12.2	14.3	16.3	18.4	22.5	28.6	38.8	61.2	108.2
32.5°	10.2	12.2	14.3	16.3	18.4	20.4	28.6	40.8	67.4	134.7
35°	8.2	10.2	12.2	16.3	16.3	20.4	28.6	40.8	73.5	175.5
37.5°	8.2	10.2	12.2	16.3	16.3	20.4	28.6	40.8	89.8	195.9
40°	6.1	8.2	10.2	16.3	16.3	20.4	30.6	42.9	91.8	198.0
42.5°	6.1	8.2	10.2	14.3	16.3	20.4	30.6	42.9	85.7	204.1
45°	6.1	8.2	10.2	16.3	18.4	22.5	30.6	44.9	83.7	232.7
47.5°	6.1	8.2	10.2	16.3	20.4	22.5	30.6	44.9	85.7	332.7
50°	6.1	8.2	10.2	16.3	22.5	22.5	30.6	44.9	93.9	534.7
52.5°	4.1	6.1	8.2	14.3	18.4	24.5	32.7	42.9	100.0	714.3
55°	4.1	4.1	6.1	12.2	16.3	26.5	34.7	42.9	116.3	759.2
57.5°	4.1	4.1	6.1	10.2	14.3	28.6	36.7	42.9	134.7	736.8
59°	4.1	4.1	4.1	10.2	12.2	28.6	36.7	44.9	136.7	698.0
60°	4.1	4.1	4.1	8.2	12.2	28.6	38.8	46.9	138.8	653.1
62.5°	2.0	2.0	2.0	8.2	10.2	28.6	42.9	57.1	142.9	504.1
65°	4.1	4.1	2.0	6.1	10.2	24.5	49.0	61.2	144.9	391.9
67.5°	4.1	4.1	4.1	8.2	10.2	24.5	51.0	63.3	144.9	310.2
70°	4.1	4.1	4.1	8.2	12.2	24.5	51.0	65.3	142.9	253.1
72.5°	4.1	4.1	4.1	8.2	12.2	22.5	46.9	67.4	136.7	214.3
75°	4.1	4.1	4.1	6.1	10.2	20.4	44.9	73.5	124.5	181.6
77.5°	4.1	4.1	4.1	4.1	8.2	16.3	40.8	81.6	110.2	146.9
80°	6.1	4.1	4.1	4.1	6.1	14.3	38.8	79.6	91.8	95.9
82.5°	6.1	4.1	4.1	2.0	4.1	10.2	30.6	61.2	46.9	42.9
85°	4.1	4.1	4.1	2.0	2.0	6.1	14.3	18.4	14.3	10.2
87.5°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

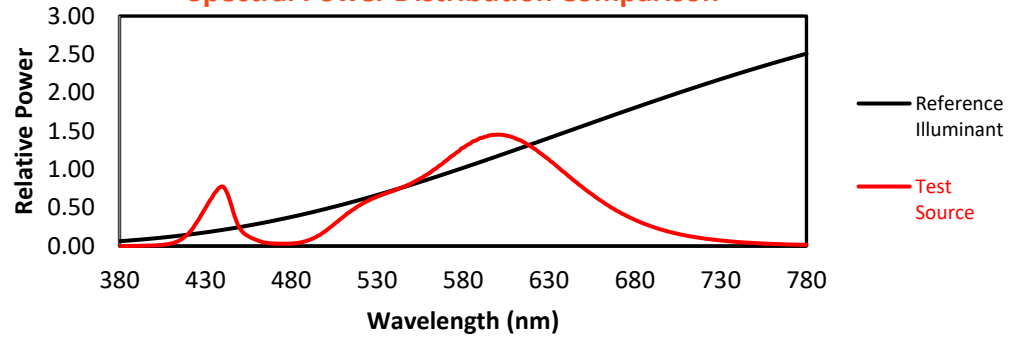
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

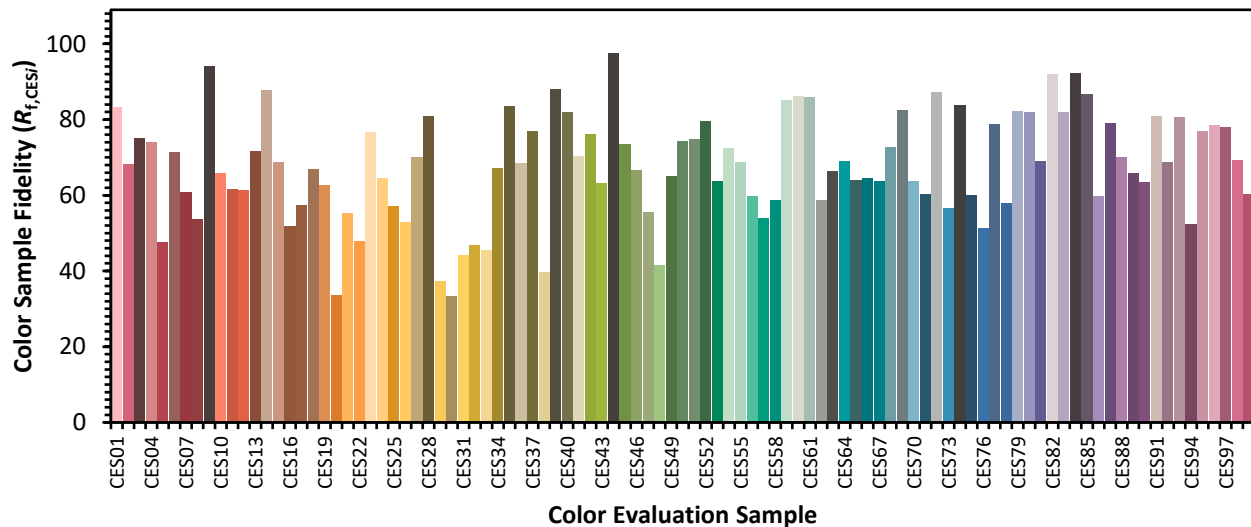


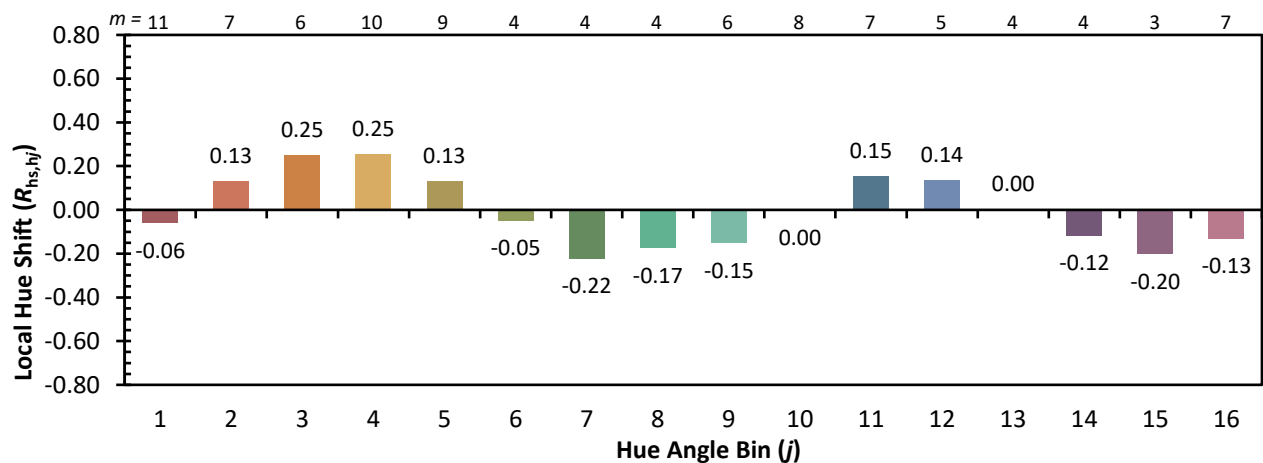
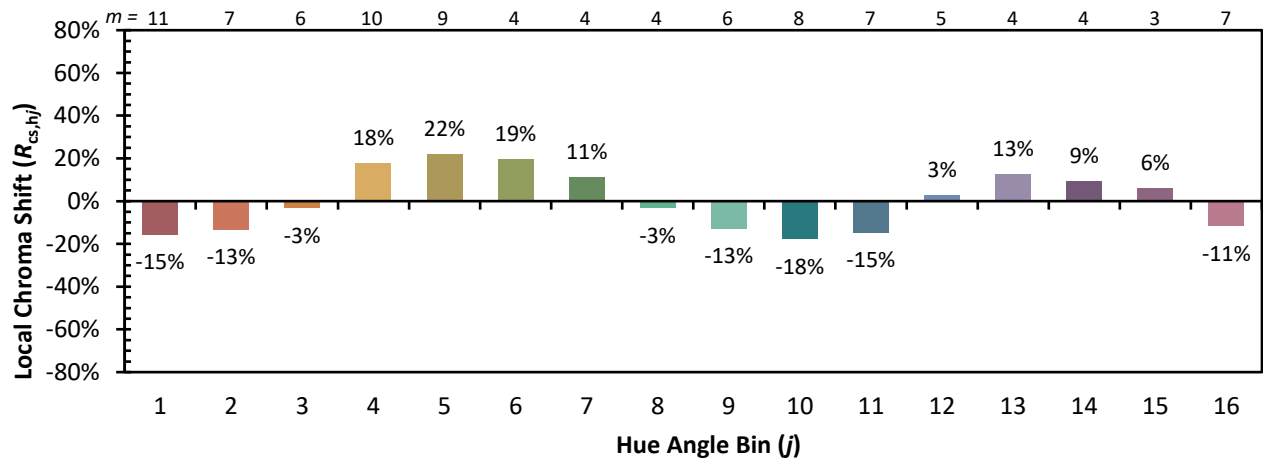
Color Vector Graphics



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

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)