

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: STREETWORKS

Report Number: P1066731

Luminaire Tested: **NVN-SA4C-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066731
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4C-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15865.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
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

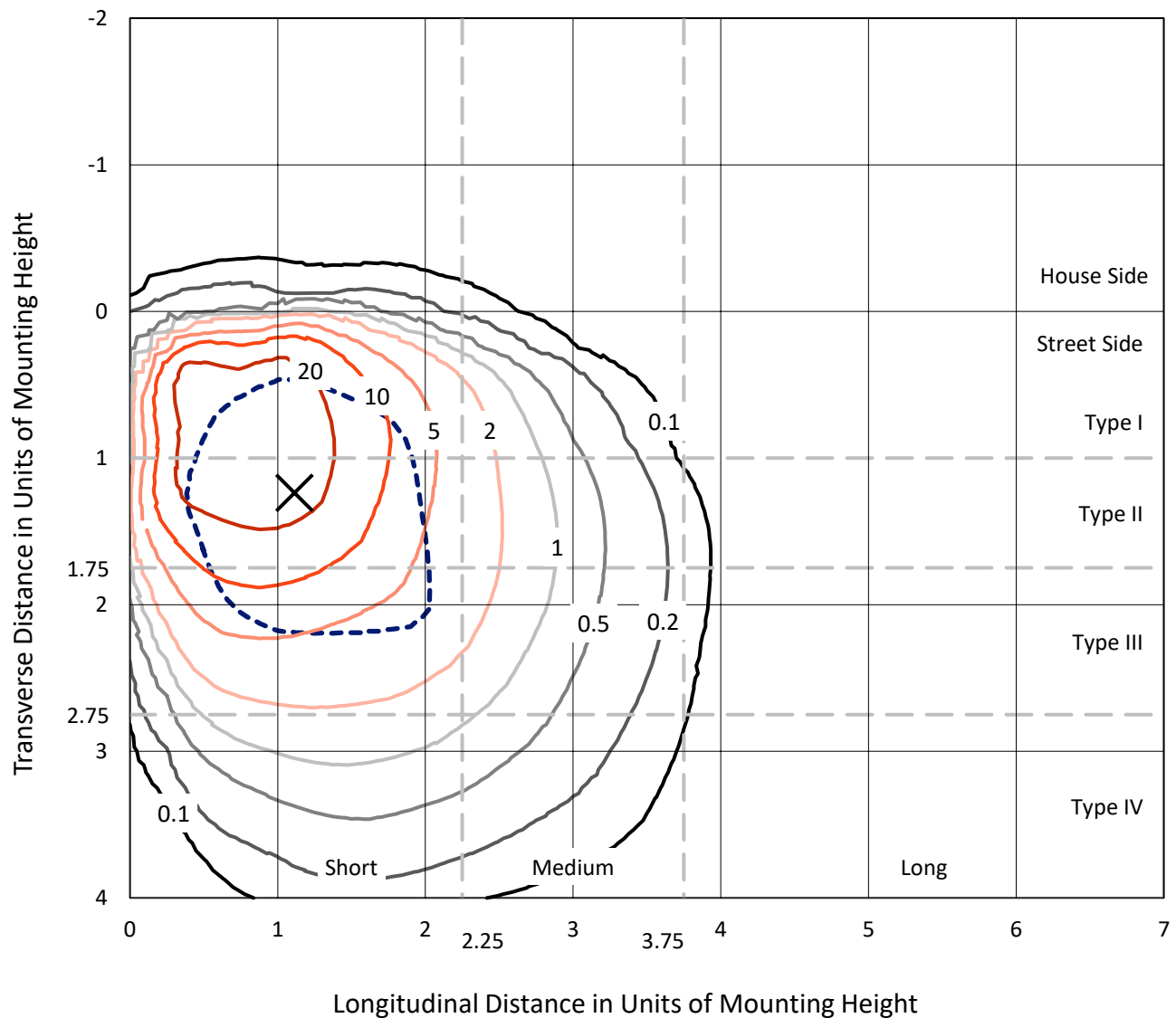


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

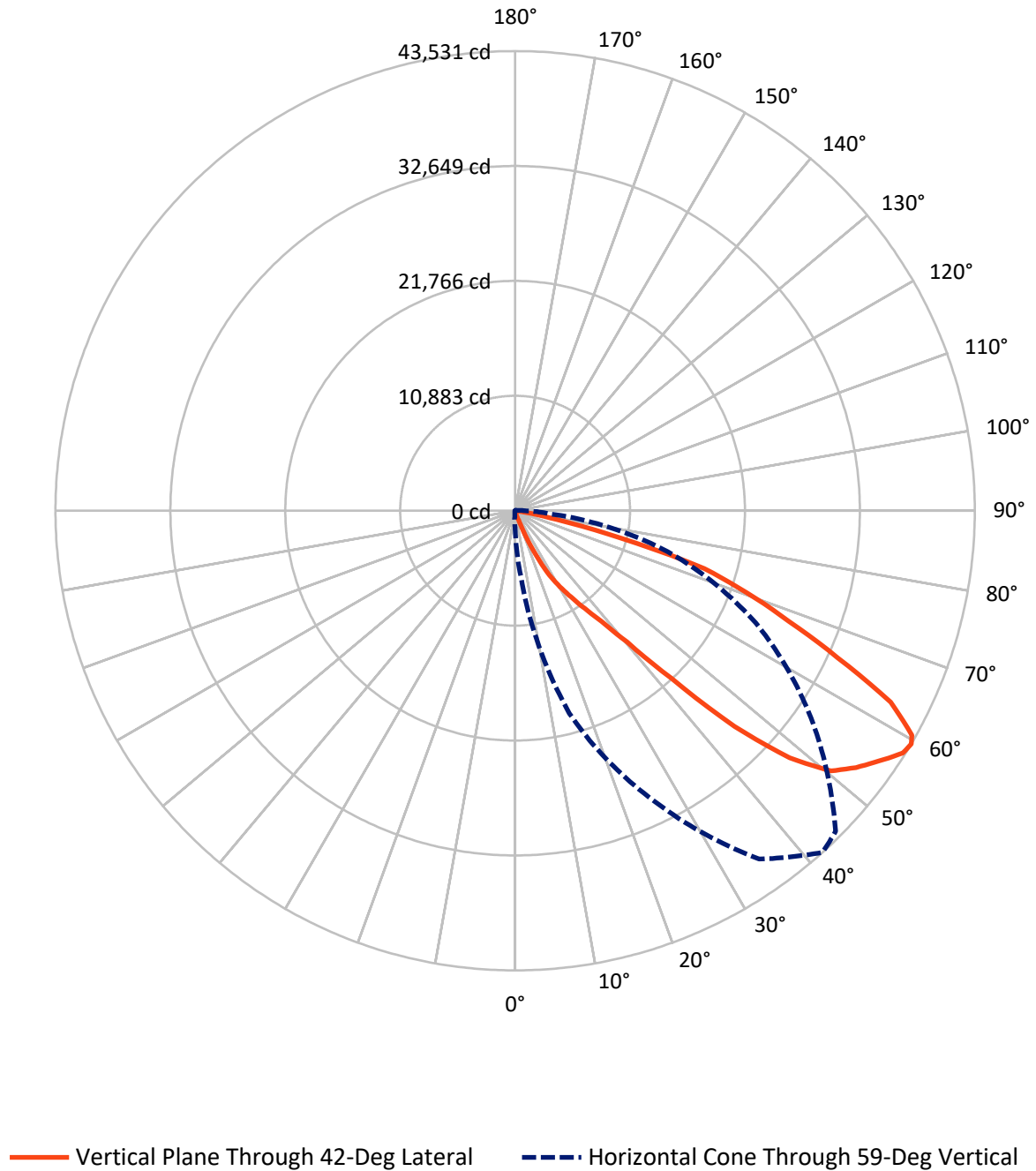


Based on 15 foot mounting height. Maximum calculated value = 47.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	76.4	0.0	76.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15789.3	0.0	15789.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	15865.8	0.0	15865.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	23.1	0.1
20°-30°	295.9	1.9
30°-40°	997.7	6.3
40°-50°	3013.6	19.0
50°-60°	5319.8	33.5
60°-70°	4684.2	29.5
70°-80°	1491.0	9.4
80°-90°	35.7	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°	15865.8	100.0
0°-180°	15865.8	100.0



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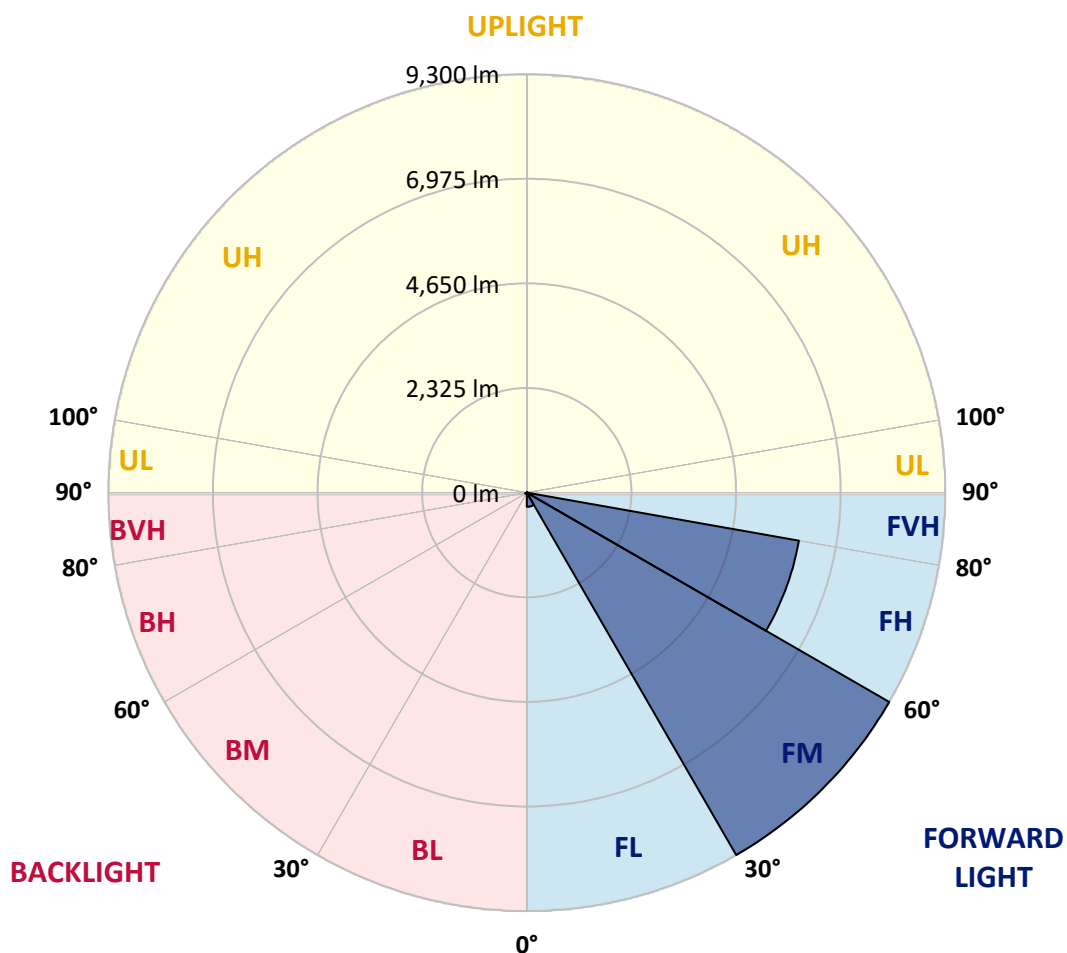
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.2	2.0			
FM	(30°-60°)	9300.0	58.6			
FH	(60°-80°)	6140.2	38.7			G3/7500
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	8.5	0.1	B0/110		
BM	(30°-60°)	31.2	0.2	B0/220		
BH	(60°-80°)	35.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	69.6	69.6	64.7	59.7	54.7	49.7	49.7	49.7	44.8	44.8	39.8
5°	79.6	79.6	74.6	69.6	69.6	64.7	64.7	59.7	54.7	54.7	49.7
7.5°	84.6	84.6	84.6	84.6	79.6	79.6	79.6	74.6	69.6	64.7	59.7
10°	89.5	94.5	99.5	99.5	99.5	99.5	99.5	94.5	84.6	79.6	69.6
12.5°	99.5	104.5	114.4	124.4	124.4	129.3	124.4	119.4	109.4	94.5	79.6
15°	109.4	119.4	134.3	154.2	174.1	179.1	179.1	164.2	144.3	114.4	94.5
17.5°	124.4	139.3	179.1	243.7	313.4	368.1	368.1	328.3	228.8	149.2	109.4
20°	134.3	164.2	288.5	587.0	895.4	1124.2	1079.5	955.1	512.4	233.8	119.4
22.5°	149.2	208.9	611.9	1542.1	2387.7	2805.6	2706.1	2054.4	1149.1	417.9	144.3
25°	169.1	303.4	1213.8	2890.2	4437.2	4889.9	4825.2	3835.3	2094.2	701.4	184.1
27.5°	208.9	447.7	1945.0	4382.5	6546.4	6934.4	6909.5	5616.2	3347.8	1129.2	238.8
30°	263.6	651.7	2885.2	5954.4	7944.2	8337.2	8212.8	6919.5	4516.8	1726.1	308.4
32.5°	328.3	910.3	3735.8	7113.5	9232.6	9749.9	9600.7	8053.6	5457.0	2233.5	457.6
35°	427.8	1164.0	4576.5	8138.2	10719.9	11376.6	11127.9	9222.6	6267.8	2805.6	552.2
37.5°	477.5	1313.3	5347.5	9252.5	12391.4	13286.8	13097.7	10700.0	7093.6	3536.8	676.5
40°	482.5	1492.3	6148.4	10705.0	14754.2	16351.0	16012.8	13237.0	8630.7	4477.0	870.5
42.5°	497.4	1761.0	7188.1	13182.3	19395.4	21688.6	21305.6	17903.1	12117.8	6362.3	1233.7
45°	567.1	2268.4	9307.2	17813.5	25767.7	29130.4	28687.7	24404.7	16987.8	9909.1	2104.2
47.5°	810.8	3412.5	13023.1	22812.8	32284.2	34965.4	34856.0	29528.4	21400.1	13545.4	3566.7
50°	1303.3	5238.1	17251.4	27016.3	36432.9	38736.1	38462.5	31667.4	23917.2	16027.7	4571.5
52.5°	1741.1	6984.1	19907.8	28563.3	37671.5	40417.4	40084.1	32448.4	24578.8	16758.9	4850.1
55°	1850.5	7615.9	20698.7	29040.9	38492.3	41840.1	41357.6	32970.7	24663.3	16236.6	4387.5
57.5°	1795.8	7019.0	20186.3	29508.5	39636.4	43302.6	42660.9	33990.4	24946.9	15351.2	3651.2
59°	1701.3	6282.7	19868.0	29881.5	40268.2	43531.4	42929.5	34214.3	25135.9	14948.2	3203.5
60°	1591.8	5785.3	19619.2	30125.3	40228.4	43173.3	42551.5	34109.8	25210.5	14600.0	2989.6
62.5°	1228.7	4616.3	19261.1	29951.2	37716.3	39905.1	39551.9	31553.0	24116.1	13485.7	2357.9
65°	955.1	3531.9	17947.8	26712.8	32095.2	33567.6	33458.2	26717.8	20295.8	11625.3	1701.3
67.5°	756.1	2576.8	15177.1	21633.9	25822.4	27916.6	27837.0	21688.6	15405.9	8884.4	1223.7
70°	616.8	1835.6	10406.6	16311.2	20653.9	23290.4	23176.0	17455.4	11416.4	5636.1	890.4
72.5°	522.3	1174.0	6312.6	12296.8	17236.5	18743.7	18410.5	14082.7	8302.4	3069.2	706.4
75°	442.7	721.3	3128.9	7665.6	10267.3	10257.3	9924.0	7456.7	4457.1	1502.3	562.1
77.5°	358.2	507.4	1228.7	2104.2	3238.4	4009.4	3944.7	2641.4	1333.2	437.8	348.2
80°	233.8	238.8	328.3	577.0	890.4	984.9	1119.3	805.9	388.0	208.9	144.3
82.5°	104.5	114.4	149.2	189.0	189.0	174.1	154.2	114.4	84.6	69.6	34.8
85°	24.9	34.8	24.9	29.8	24.9	19.9	19.9	9.9	0.0	0.0	0.0
87.5°	5.0	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°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	39.8	39.8	39.8	34.8	34.8	34.8	29.8	29.8	29.8	24.9	24.9
5°	49.7	44.8	39.8	39.8	34.8	34.8	29.8	24.9	24.9	24.9	19.9
7.5°	54.7	49.7	44.8	39.8	34.8	29.8	29.8	24.9	19.9	19.9	19.9
10°	64.7	59.7	49.7	39.8	34.8	29.8	24.9	24.9	19.9	14.9	14.9
12.5°	74.6	64.7	54.7	44.8	34.8	29.8	24.9	24.9	19.9	14.9	9.9
15°	84.6	74.6	59.7	44.8	34.8	29.8	24.9	24.9	14.9	9.9	5.0
17.5°	94.5	79.6	59.7	49.7	34.8	29.8	24.9	19.9	9.9	5.0	0.0
20°	99.5	84.6	64.7	49.7	34.8	29.8	24.9	14.9	5.0	0.0	0.0
22.5°	109.4	94.5	69.6	49.7	34.8	24.9	14.9	5.0	0.0	0.0	0.0
25°	129.3	99.5	69.6	49.7	34.8	24.9	9.9	0.0	0.0	0.0	0.0
27.5°	144.3	109.4	69.6	49.7	34.8	19.9	5.0	0.0	0.0	0.0	0.0
30°	169.1	119.4	74.6	49.7	34.8	14.9	5.0	0.0	0.0	0.0	0.0
32.5°	208.9	129.3	74.6	49.7	29.8	14.9	0.0	0.0	0.0	0.0	0.0
35°	253.7	149.2	74.6	49.7	29.8	14.9	0.0	0.0	0.0	0.0	0.0
37.5°	258.7	159.2	74.6	49.7	29.8	9.9	0.0	0.0	0.0	0.0	0.0
40°	268.6	149.2	79.6	49.7	29.8	9.9	0.0	0.0	0.0	0.0	0.0
42.5°	308.4	139.3	84.6	49.7	29.8	9.9	0.0	0.0	0.0	0.0	0.0
45°	457.6	144.3	84.6	54.7	29.8	14.9	0.0	0.0	0.0	0.0	0.0
47.5°	795.9	149.2	79.6	54.7	29.8	14.9	0.0	0.0	0.0	0.0	0.0
50°	1019.8	174.1	79.6	59.7	34.8	9.9	0.0	0.0	0.0	0.0	0.0
52.5°	1084.4	204.0	79.6	64.7	44.8	5.0	0.0	0.0	0.0	0.0	0.0
55°	1054.6	238.8	84.6	69.6	54.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	975.0	258.7	89.5	74.6	59.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	890.4	273.6	104.5	79.6	59.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	820.8	288.5	109.4	84.6	59.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	661.6	308.4	119.4	99.5	49.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	577.0	323.3	124.4	109.4	44.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	527.3	333.3	134.3	114.4	39.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	487.5	328.3	144.3	109.4	34.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	442.7	313.4	174.1	99.5	29.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	398.0	283.5	189.0	89.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	288.5	238.8	174.1	79.6	9.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.4	129.3	124.4	59.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	29.8	24.9	14.9	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°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	24.9	24.9	24.9	24.9	29.8	29.8	39.8	49.7	59.7	64.7	64.7
5°	19.9	19.9	19.9	19.9	19.9	24.9	29.8	39.8	54.7	59.7	59.7
7.5°	14.9	14.9	14.9	14.9	14.9	14.9	24.9	34.8	49.7	54.7	59.7
10°	14.9	9.9	9.9	5.0	5.0	9.9	14.9	29.8	44.8	49.7	54.7
12.5°	9.9	5.0	5.0	0.0	0.0	5.0	9.9	24.9	39.8	44.8	49.7
15°	5.0	0.0	0.0	0.0	0.0	0.0	5.0	19.9	34.8	39.8	49.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	29.8	39.8	44.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	24.9	34.8	39.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	19.9	29.8	34.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	19.9	24.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	14.9	19.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	14.9	19.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9	14.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9	14.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9	9.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
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°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	69.6	69.6	64.7	59.7	59.7	59.7	64.7	69.6	69.6	69.6
5°	64.7	64.7	59.7	59.7	59.7	59.7	64.7	74.6	79.6	79.6
7.5°	64.7	64.7	59.7	59.7	59.7	59.7	64.7	74.6	79.6	84.6
10°	59.7	59.7	59.7	59.7	54.7	59.7	64.7	74.6	89.5	89.5
12.5°	59.7	59.7	59.7	59.7	54.7	59.7	69.6	79.6	94.5	99.5
15°	59.7	59.7	59.7	54.7	54.7	59.7	69.6	84.6	99.5	109.4
17.5°	54.7	59.7	59.7	54.7	54.7	59.7	69.6	84.6	109.4	124.4
20°	49.7	54.7	59.7	54.7	54.7	54.7	69.6	84.6	114.4	134.3
22.5°	44.8	49.7	54.7	54.7	49.7	54.7	69.6	89.5	124.4	149.2
25°	39.8	44.8	44.8	49.7	49.7	54.7	69.6	89.5	129.3	169.1
27.5°	29.8	34.8	39.8	44.8	44.8	54.7	69.6	94.5	139.3	208.9
30°	24.9	29.8	34.8	39.8	44.8	54.7	69.6	94.5	149.2	263.6
32.5°	24.9	29.8	34.8	39.8	44.8	49.7	69.6	99.5	164.2	328.3
35°	19.9	24.9	29.8	39.8	39.8	49.7	69.6	99.5	179.1	427.8
37.5°	19.9	24.9	29.8	39.8	39.8	49.7	69.6	99.5	218.9	477.5
40°	14.9	19.9	24.9	39.8	39.8	49.7	74.6	104.5	223.9	482.5
42.5°	14.9	19.9	24.9	34.8	39.8	49.7	74.6	104.5	208.9	497.4
45°	14.9	19.9	24.9	39.8	44.8	54.7	74.6	109.4	204.0	567.1
47.5°	14.9	19.9	24.9	39.8	49.7	54.7	74.6	109.4	208.9	810.8
50°	14.9	19.9	24.9	39.8	54.7	54.7	74.6	109.4	228.8	1303.3
52.5°	9.9	14.9	19.9	34.8	44.8	59.7	79.6	104.5	243.7	1741.1
55°	9.9	9.9	14.9	29.8	39.8	64.7	84.6	104.5	283.5	1850.5
57.5°	9.9	9.9	14.9	24.9	34.8	69.6	89.5	104.5	328.3	1795.8
59°	9.9	9.9	9.9	24.9	29.8	69.6	89.5	109.4	333.3	1701.3
60°	9.9	9.9	9.9	19.9	29.8	69.6	94.5	114.4	338.3	1591.8
62.5°	5.0	5.0	5.0	19.9	24.9	69.6	104.5	139.3	348.2	1228.7
65°	9.9	9.9	5.0	14.9	24.9	59.7	119.4	149.2	353.2	955.1
67.5°	9.9	9.9	9.9	19.9	24.9	59.7	124.4	154.2	353.2	756.1
70°	9.9	9.9	9.9	19.9	29.8	59.7	124.4	159.2	348.2	616.8
72.5°	9.9	9.9	9.9	19.9	29.8	54.7	114.4	164.2	333.3	522.3
75°	9.9	9.9	9.9	14.9	24.9	49.7	109.4	179.1	303.4	442.7
77.5°	9.9	9.9	9.9	9.9	19.9	39.8	99.5	199.0	268.6	358.2
80°	14.9	9.9	9.9	9.9	14.9	34.8	94.5	194.0	223.9	233.8
82.5°	14.9	9.9	9.9	5.0	9.9	24.9	74.6	149.2	114.4	104.5
85°	9.9	9.9	9.9	5.0	5.0	14.9	34.8	44.8	34.8	24.9
87.5°	9.9	9.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

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	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	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			

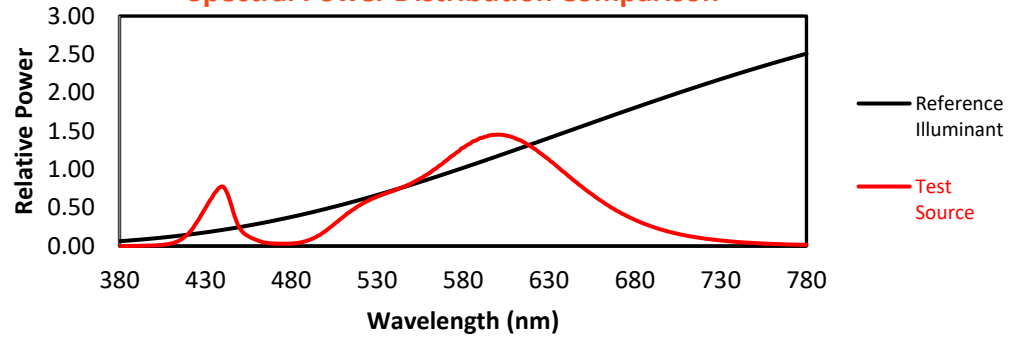
REPORT NUMBER: SP1-2407-184-3

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

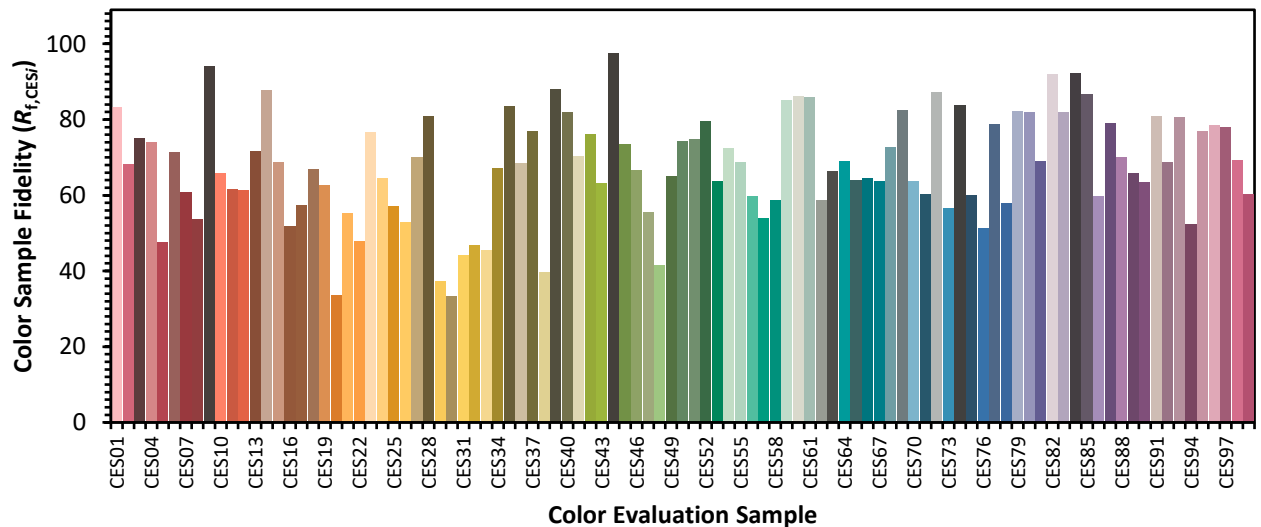


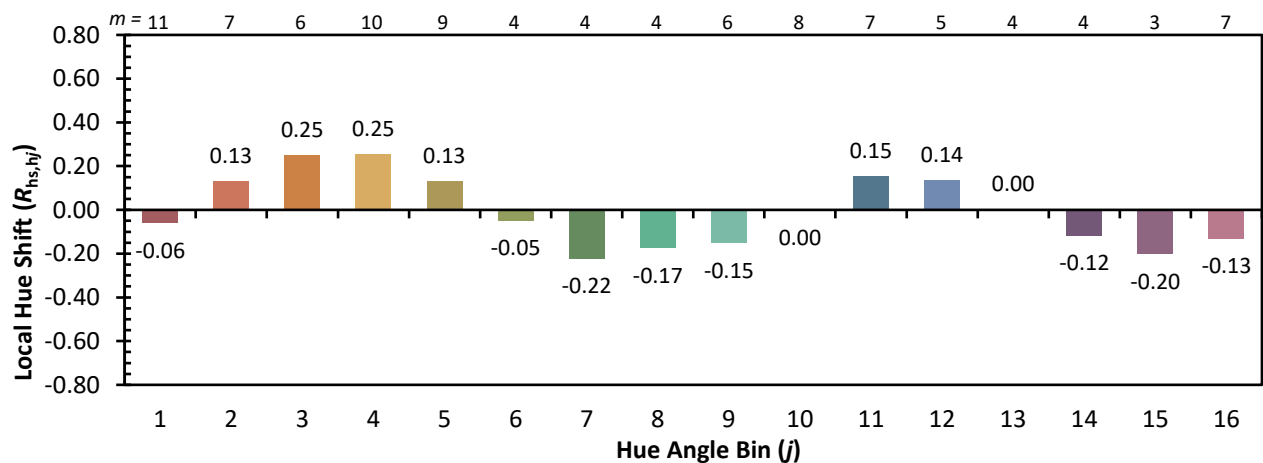
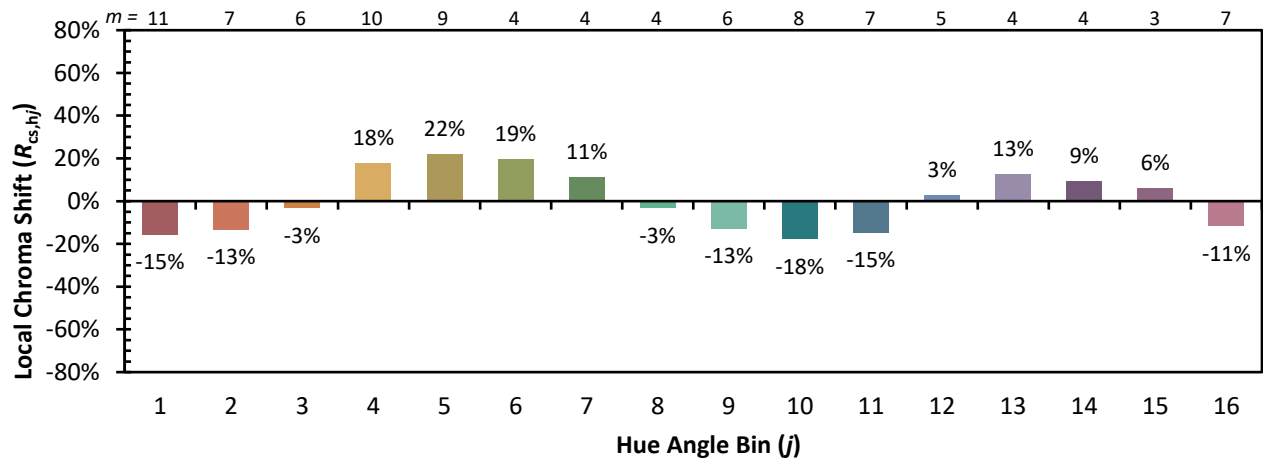
Color Vector Graphics



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)