

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: P1066890

Luminaire Tested: **NVN-SA2B-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066890
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA2B-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6828.7 lumens
Efficiency: N/A
Efficacy: 93.8 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

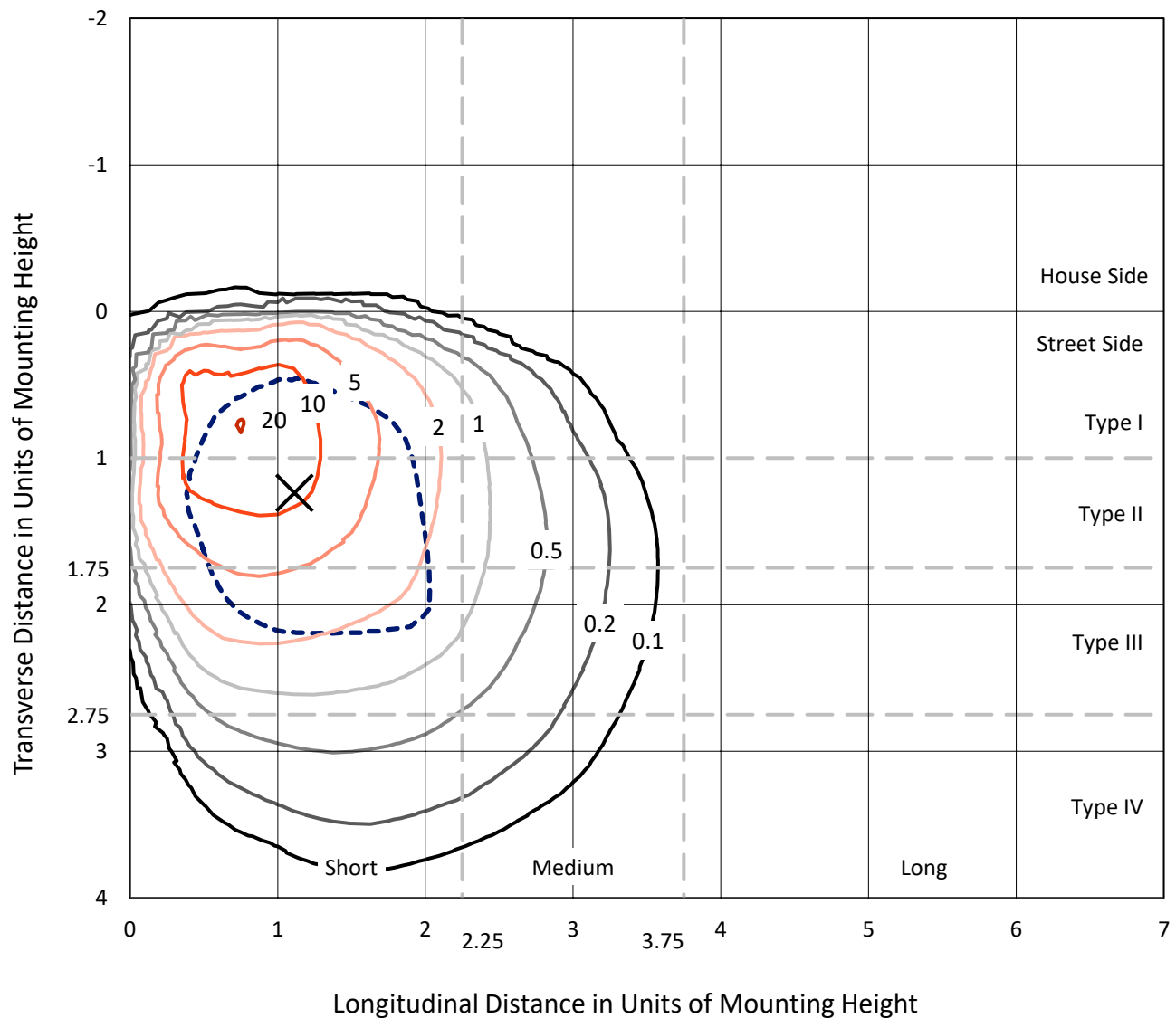


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

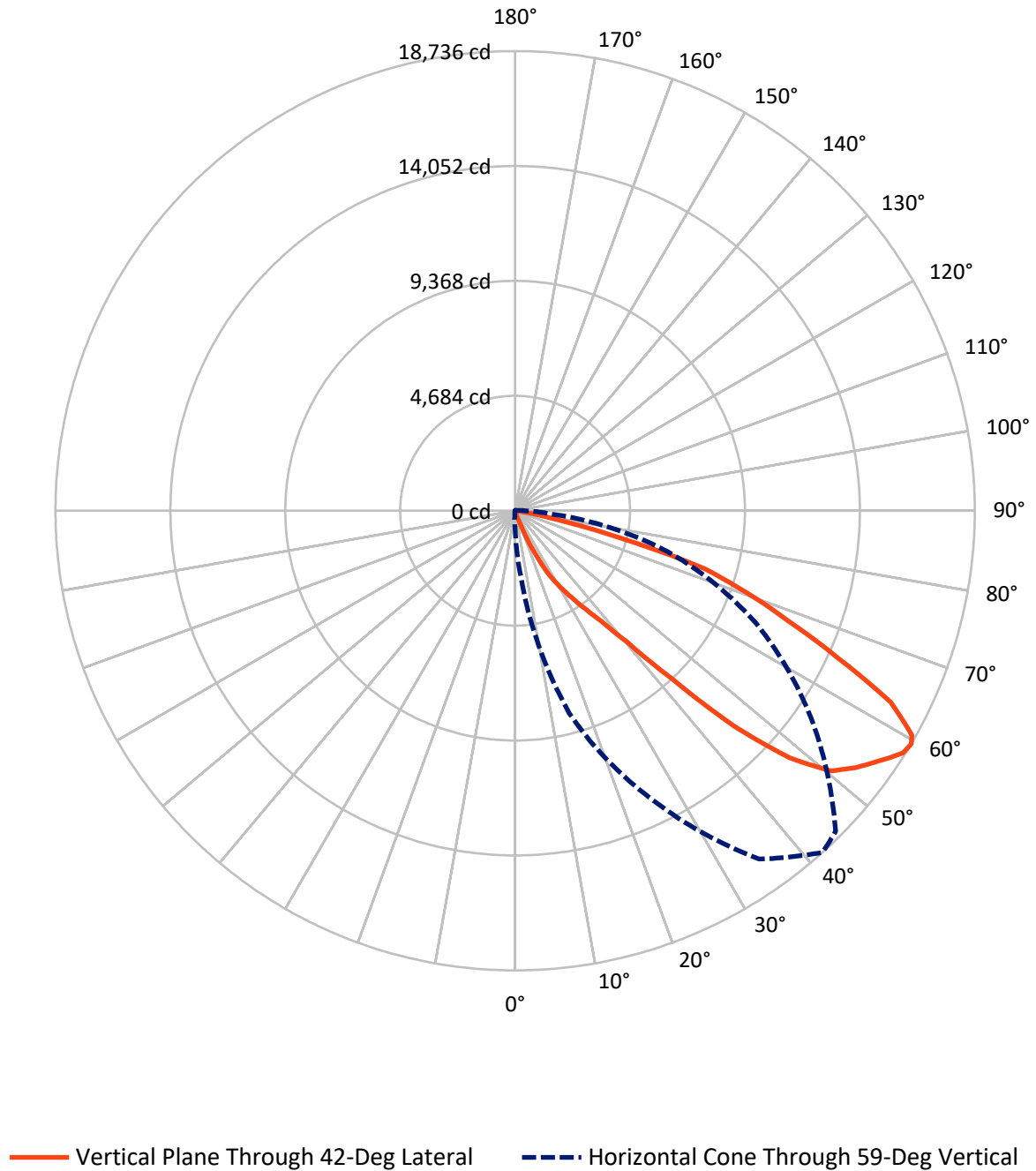


Based on 15 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.9	0.0	32.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	6795.8	0.0	6795.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	6828.7	0.0	6828.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.0
10°-20°	10.0	0.1
20°-30°	127.4	1.9
30°-40°	429.4	6.3
40°-50°	1297.1	19.0
50°-60°	2289.7	33.5
60°-70°	2016.1	29.5
70°-80°	641.7	9.4
80°-90°	15.3	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°	6828.7	100.0
0°-180°	6828.7	100.0



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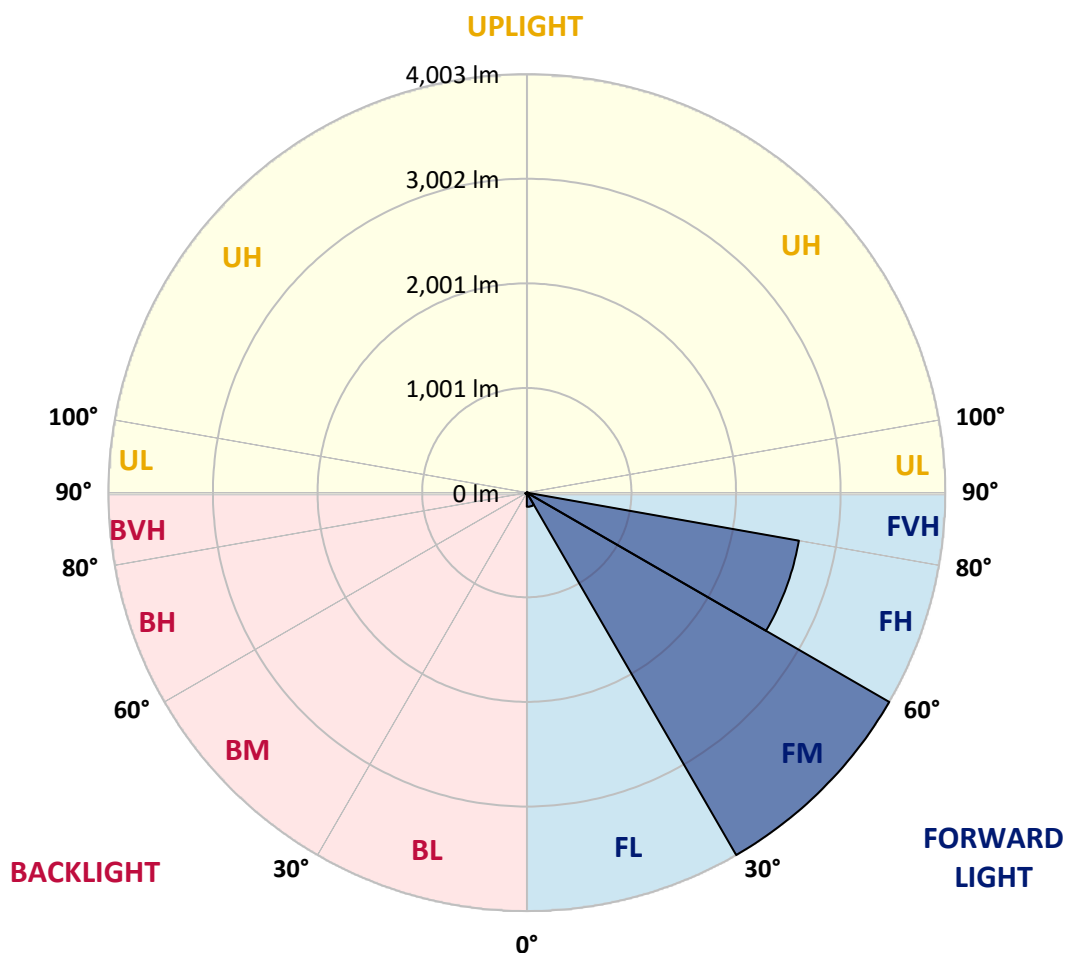
CATALOG NUMBER: NVN-SA2B-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.7	2.0			
FM	(30°-60°)	4002.8	58.6			
FH	(60°-80°)	2642.8	38.7			G2/5000
FVH	(80°-90°)	14.6	0.2			G1/100
BL	(0°-30°)	3.7	0.1	B0/110		
BM	(30°-60°)	13.4	0.2	B0/220		
BH	(60°-80°)	15.0	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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	30.0	30.0	27.8	25.7	23.6	21.4	21.4	21.4	19.3	19.3	17.1
5°	34.3	34.3	32.1	30.0	30.0	27.8	27.8	25.7	23.6	23.6	21.4
7.5°	36.4	36.4	36.4	36.4	34.3	34.3	34.3	32.1	30.0	27.8	25.7
10°	38.5	40.7	42.8	42.8	42.8	42.8	42.8	40.7	36.4	34.3	30.0
12.5°	42.8	45.0	49.2	53.5	53.5	55.7	53.5	51.4	47.1	40.7	34.3
15°	47.1	51.4	57.8	66.4	74.9	77.1	77.1	70.7	62.1	49.2	40.7
17.5°	53.5	59.9	77.1	104.9	134.9	158.4	158.4	141.3	98.5	64.2	47.1
20°	57.8	70.7	124.2	252.6	385.4	483.9	464.6	411.1	220.5	100.6	51.4
22.5°	64.2	89.9	263.3	663.7	1027.7	1207.5	1164.7	884.2	494.6	179.8	62.1
25°	72.8	130.6	522.4	1243.9	1909.8	2104.6	2076.8	1650.7	901.4	301.9	79.2
27.5°	89.9	192.7	837.1	1886.3	2817.6	2984.6	2973.9	2417.2	1440.9	486.0	102.8
30°	113.5	280.5	1241.8	2562.8	3419.2	3588.4	3534.9	2978.2	1944.1	742.9	132.7
32.5°	141.3	391.8	1607.9	3061.7	3973.8	4196.4	4132.2	3466.3	2348.7	961.3	197.0
35°	184.1	501.0	1969.8	3502.7	4613.9	4896.6	4789.5	3969.5	2697.7	1207.5	237.7
37.5°	205.5	565.2	2301.6	3982.3	5333.3	5718.7	5637.4	4605.4	3053.1	1522.3	291.2
40°	207.7	642.3	2646.3	4607.5	6350.3	7037.6	6892.0	5697.3	3714.7	1926.9	374.7
42.5°	214.1	757.9	3093.8	5673.8	8347.9	9334.9	9170.1	7705.6	5215.6	2738.4	531.0
45°	244.1	976.3	4005.9	7667.1	11090.6	12537.9	12347.4	10503.9	7311.7	4265.0	905.7
47.5°	349.0	1468.8	5605.2	9818.8	13895.3	15049.4	15002.3	12709.2	9210.8	5830.1	1535.1
50°	561.0	2254.5	7425.1	11628.0	15681.0	16672.3	16554.5	13629.9	10294.1	6898.4	1967.6
52.5°	749.4	3006.0	8568.4	12293.9	16214.1	17395.9	17252.5	13966.0	10578.9	7213.2	2087.5
55°	796.5	3277.9	8908.9	12499.4	16567.4	18008.3	17800.6	14190.8	10615.3	6988.4	1888.4
57.5°	772.9	3021.0	8688.3	12700.6	17059.8	18637.8	18361.6	14629.7	10737.3	6607.2	1571.5
59°	732.2	2704.1	8551.3	12861.2	17331.7	18736.2	18477.2	14726.1	10818.7	6433.8	1378.8
60°	685.1	2490.0	8444.3	12966.1	17314.6	18582.1	18314.5	14681.1	10850.8	6284.0	1286.8
62.5°	528.8	1986.9	8290.1	12891.2	16233.4	17175.4	17023.4	13580.6	10379.8	5804.4	1014.9
65°	411.1	1520.1	7724.9	11497.4	13814.0	14447.7	14400.6	11499.5	8735.4	5003.6	732.2
67.5°	325.4	1109.1	6532.3	9311.4	11114.1	12015.5	11981.3	9334.9	6630.8	3823.9	526.7
70°	265.5	790.0	4479.1	7020.5	8889.6	10024.3	9975.1	7512.9	4913.7	2425.8	383.2
72.5°	224.8	505.3	2717.0	5292.7	7418.7	8067.4	7924.0	6061.3	3573.4	1321.0	304.0
75°	190.6	310.5	1346.7	3299.3	4419.1	4414.8	4271.4	3209.4	1918.4	646.6	241.9
77.5°	154.2	218.4	528.8	905.7	1393.8	1725.7	1697.8	1136.9	573.8	188.4	149.9
80°	100.6	102.8	141.3	248.4	383.2	423.9	481.7	346.8	167.0	89.9	62.1
82.5°	45.0	49.2	64.2	81.4	81.4	74.9	66.4	49.2	36.4	30.0	15.0
85°	10.7	15.0	10.7	12.8	10.7	8.6	8.6	4.3	0.0	0.0	0.0
87.5°	2.1	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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	17.1	17.1	17.1	15.0	15.0	15.0	12.8	12.8	12.8	10.7	10.7
5°	21.4	19.3	17.1	17.1	15.0	15.0	12.8	10.7	10.7	10.7	8.6
7.5°	23.6	21.4	19.3	17.1	15.0	12.8	12.8	10.7	8.6	8.6	8.6
10°	27.8	25.7	21.4	17.1	15.0	12.8	10.7	10.7	8.6	6.4	6.4
12.5°	32.1	27.8	23.6	19.3	15.0	12.8	10.7	10.7	8.6	6.4	4.3
15°	36.4	32.1	25.7	19.3	15.0	12.8	10.7	10.7	6.4	4.3	2.1
17.5°	40.7	34.3	25.7	21.4	15.0	12.8	10.7	8.6	4.3	2.1	0.0
20°	42.8	36.4	27.8	21.4	15.0	12.8	10.7	6.4	2.1	0.0	0.0
22.5°	47.1	40.7	30.0	21.4	15.0	10.7	6.4	2.1	0.0	0.0	0.0
25°	55.7	42.8	30.0	21.4	15.0	10.7	4.3	0.0	0.0	0.0	0.0
27.5°	62.1	47.1	30.0	21.4	15.0	8.6	2.1	0.0	0.0	0.0	0.0
30°	72.8	51.4	32.1	21.4	15.0	6.4	2.1	0.0	0.0	0.0	0.0
32.5°	89.9	55.7	32.1	21.4	12.8	6.4	0.0	0.0	0.0	0.0	0.0
35°	109.2	64.2	32.1	21.4	12.8	6.4	0.0	0.0	0.0	0.0	0.0
37.5°	111.3	68.5	32.1	21.4	12.8	4.3	0.0	0.0	0.0	0.0	0.0
40°	115.6	64.2	34.3	21.4	12.8	4.3	0.0	0.0	0.0	0.0	0.0
42.5°	132.7	59.9	36.4	21.4	12.8	4.3	0.0	0.0	0.0	0.0	0.0
45°	197.0	62.1	36.4	23.6	12.8	6.4	0.0	0.0	0.0	0.0	0.0
47.5°	342.6	64.2	34.3	23.6	12.8	6.4	0.0	0.0	0.0	0.0	0.0
50°	438.9	74.9	34.3	25.7	15.0	4.3	0.0	0.0	0.0	0.0	0.0
52.5°	466.7	87.8	34.3	27.8	19.3	2.1	0.0	0.0	0.0	0.0	0.0
55°	453.9	102.8	36.4	30.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	419.6	111.3	38.5	32.1	25.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	383.2	117.8	45.0	34.3	25.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	353.3	124.2	47.1	36.4	25.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	284.8	132.7	51.4	42.8	21.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	248.4	139.2	53.5	47.1	19.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	227.0	143.4	57.8	49.2	17.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	209.8	141.3	62.1	47.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	190.6	134.9	74.9	42.8	12.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	171.3	122.0	81.4	38.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	124.2	102.8	74.9	34.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	53.5	55.7	53.5	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	12.8	10.7	6.4	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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	10.7	10.7	10.7	10.7	12.8	12.8	17.1	21.4	25.7	27.8	27.8
5°	8.6	8.6	8.6	8.6	8.6	10.7	12.8	17.1	23.6	25.7	25.7
7.5°	6.4	6.4	6.4	6.4	6.4	6.4	10.7	15.0	21.4	23.6	25.7
10°	6.4	4.3	4.3	2.1	2.1	4.3	6.4	12.8	19.3	21.4	23.6
12.5°	4.3	2.1	2.1	0.0	0.0	2.1	4.3	10.7	17.1	19.3	21.4
15°	2.1	0.0	0.0	0.0	0.0	0.0	2.1	8.6	15.0	17.1	21.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.8	17.1	19.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.7	15.0	17.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	8.6	12.8	15.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	8.6	10.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.4	8.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.4	8.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	6.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	6.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	4.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	30.0	30.0	27.8	25.7	25.7	25.7	27.8	30.0	30.0	30.0
5°	27.8	27.8	25.7	25.7	25.7	25.7	27.8	32.1	34.3	34.3
7.5°	27.8	27.8	25.7	25.7	25.7	25.7	27.8	32.1	34.3	36.4
10°	25.7	25.7	25.7	25.7	23.6	25.7	27.8	32.1	38.5	38.5
12.5°	25.7	25.7	25.7	25.7	23.6	25.7	30.0	34.3	40.7	42.8
15°	25.7	25.7	25.7	23.6	23.6	25.7	30.0	36.4	42.8	47.1
17.5°	23.6	25.7	25.7	23.6	23.6	25.7	30.0	36.4	47.1	53.5
20°	21.4	23.6	25.7	23.6	23.6	23.6	30.0	36.4	49.2	57.8
22.5°	19.3	21.4	23.6	23.6	21.4	23.6	30.0	38.5	53.5	64.2
25°	17.1	19.3	19.3	21.4	21.4	23.6	30.0	38.5	55.7	72.8
27.5°	12.8	15.0	17.1	19.3	19.3	23.6	30.0	40.7	59.9	89.9
30°	10.7	12.8	15.0	17.1	19.3	23.6	30.0	40.7	64.2	113.5
32.5°	10.7	12.8	15.0	17.1	19.3	21.4	30.0	42.8	70.7	141.3
35°	8.6	10.7	12.8	17.1	17.1	21.4	30.0	42.8	77.1	184.1
37.5°	8.6	10.7	12.8	17.1	17.1	21.4	30.0	42.8	94.2	205.5
40°	6.4	8.6	10.7	17.1	17.1	21.4	32.1	45.0	96.3	207.7
42.5°	6.4	8.6	10.7	15.0	17.1	21.4	32.1	45.0	89.9	214.1
45°	6.4	8.6	10.7	17.1	19.3	23.6	32.1	47.1	87.8	244.1
47.5°	6.4	8.6	10.7	17.1	21.4	23.6	32.1	47.1	89.9	349.0
50°	6.4	8.6	10.7	17.1	23.6	23.6	32.1	47.1	98.5	561.0
52.5°	4.3	6.4	8.6	15.0	19.3	25.7	34.3	45.0	104.9	749.4
55°	4.3	4.3	6.4	12.8	17.1	27.8	36.4	45.0	122.0	796.5
57.5°	4.3	4.3	6.4	10.7	15.0	30.0	38.5	45.0	141.3	772.9
59°	4.3	4.3	4.3	10.7	12.8	30.0	38.5	47.1	143.4	732.2
60°	4.3	4.3	4.3	8.6	12.8	30.0	40.7	49.2	145.6	685.1
62.5°	2.1	2.1	2.1	8.6	10.7	30.0	45.0	59.9	149.9	528.8
65°	4.3	4.3	2.1	6.4	10.7	25.7	51.4	64.2	152.0	411.1
67.5°	4.3	4.3	4.3	8.6	10.7	25.7	53.5	66.4	152.0	325.4
70°	4.3	4.3	4.3	8.6	12.8	25.7	53.5	68.5	149.9	265.5
72.5°	4.3	4.3	4.3	8.6	12.8	23.6	49.2	70.7	143.4	224.8
75°	4.3	4.3	4.3	6.4	10.7	21.4	47.1	77.1	130.6	190.6
77.5°	4.3	4.3	4.3	4.3	8.6	17.1	42.8	85.6	115.6	154.2
80°	6.4	4.3	4.3	4.3	6.4	15.0	40.7	83.5	96.3	100.6
82.5°	6.4	4.3	4.3	2.1	4.3	10.7	32.1	64.2	49.2	45.0
85°	4.3	4.3	4.3	2.1	2.1	6.4	15.0	19.3	15.0	10.7
87.5°	4.3	4.3	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

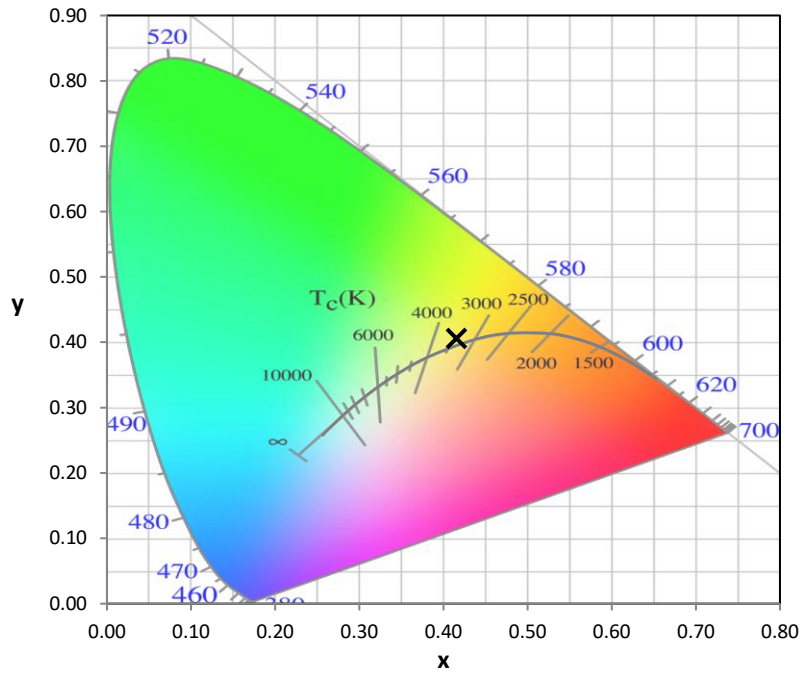
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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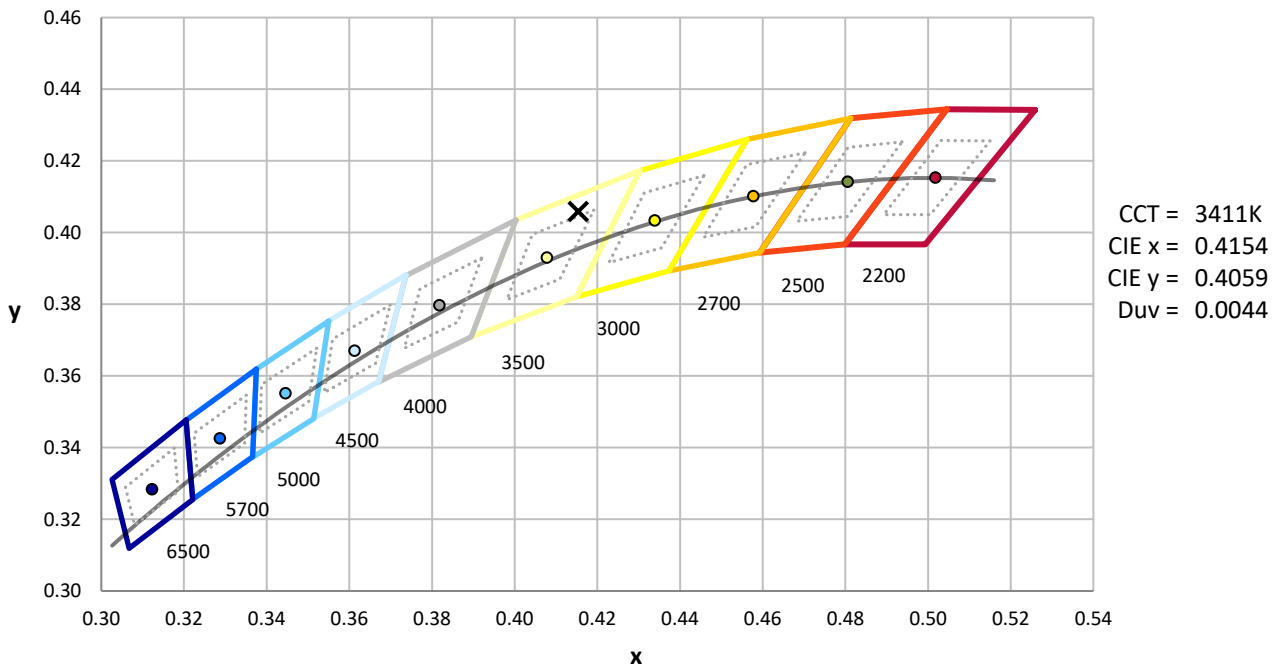
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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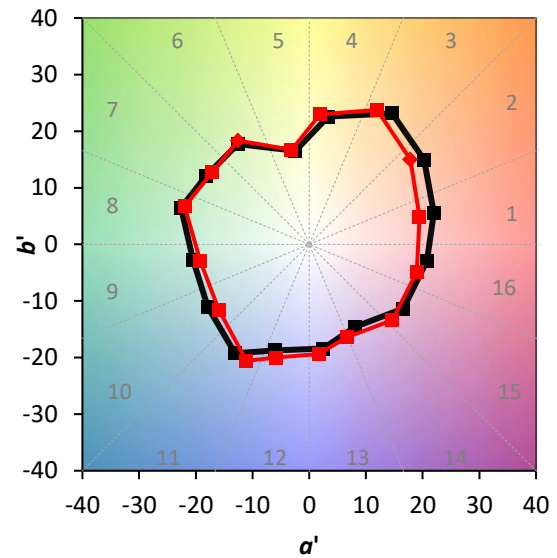
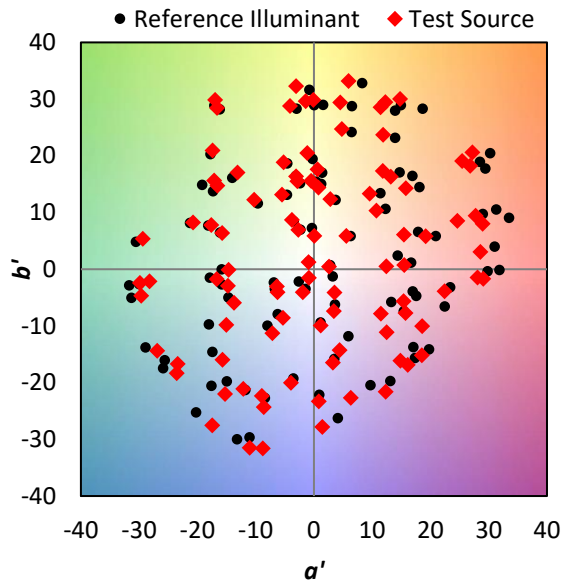
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

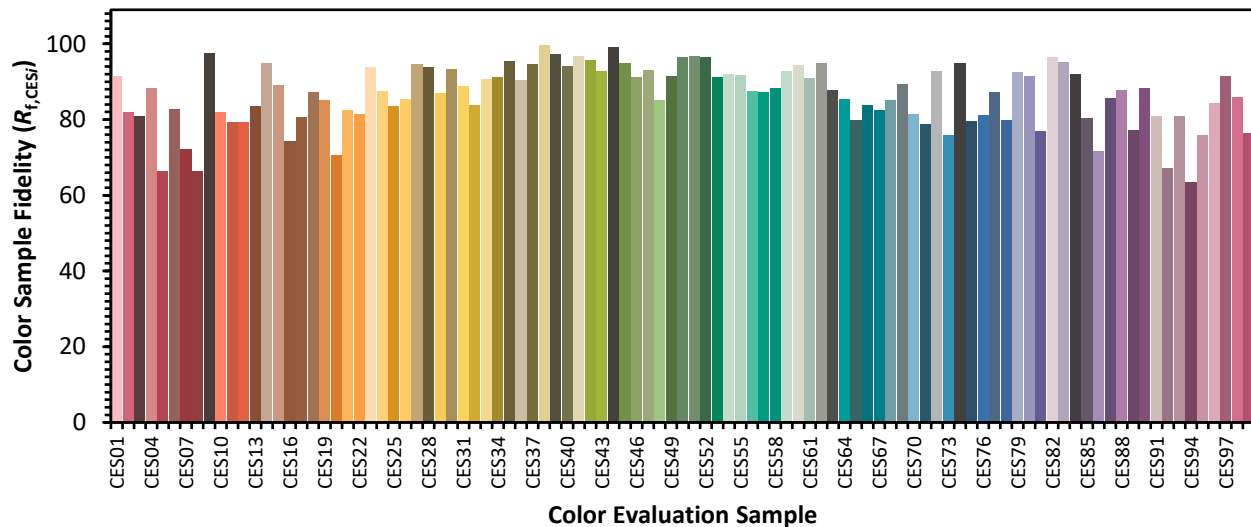


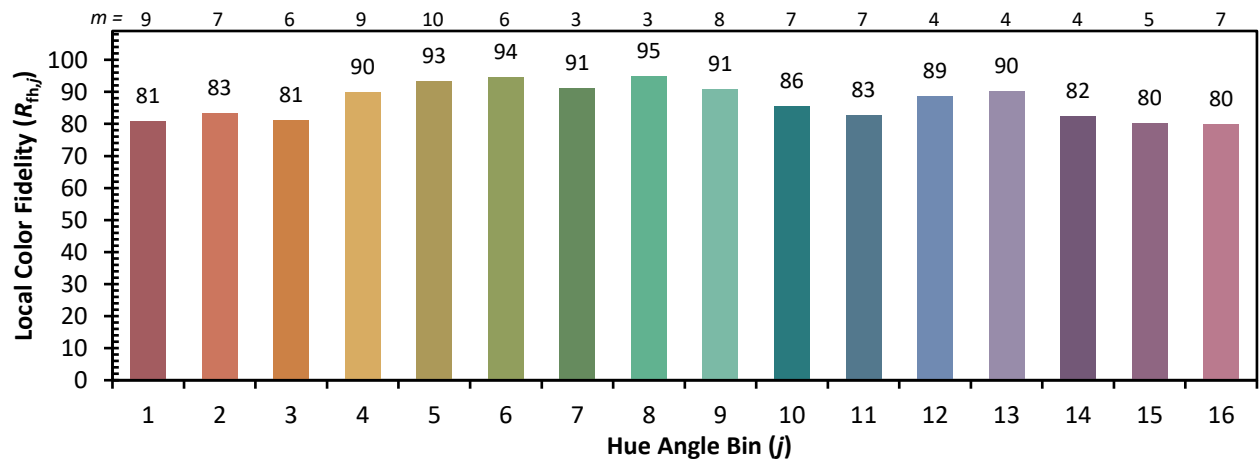
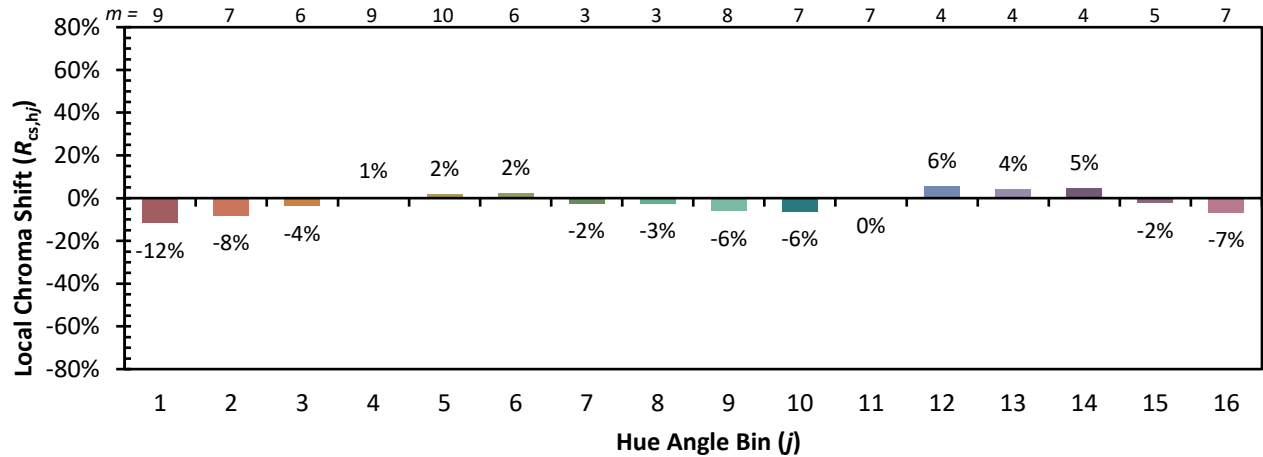
Color Vector Graphics



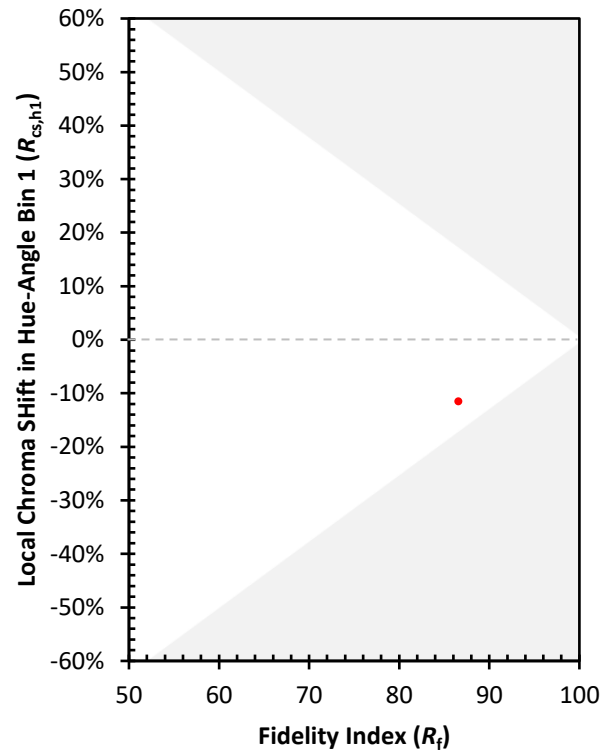
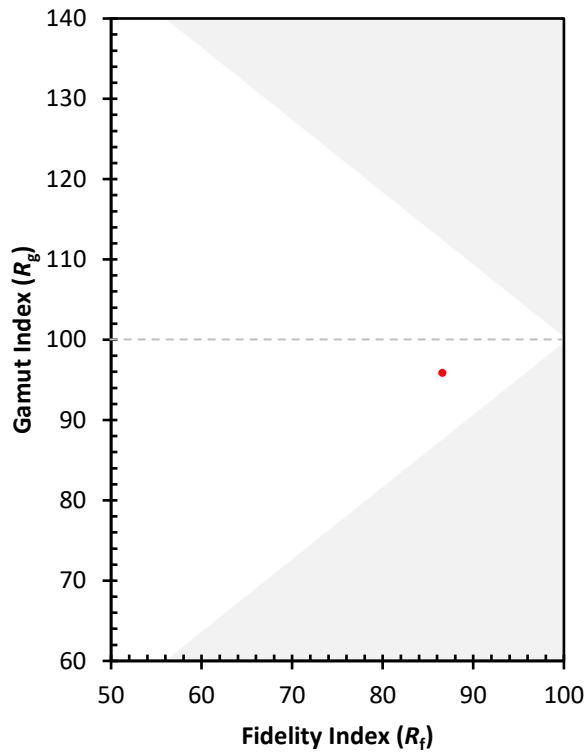
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)