

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: P1066683

Luminaire Tested: **NVN-SA4C-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066683
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4C-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18978.3 lumens
Efficiency: N/A
Efficacy: 99.7 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



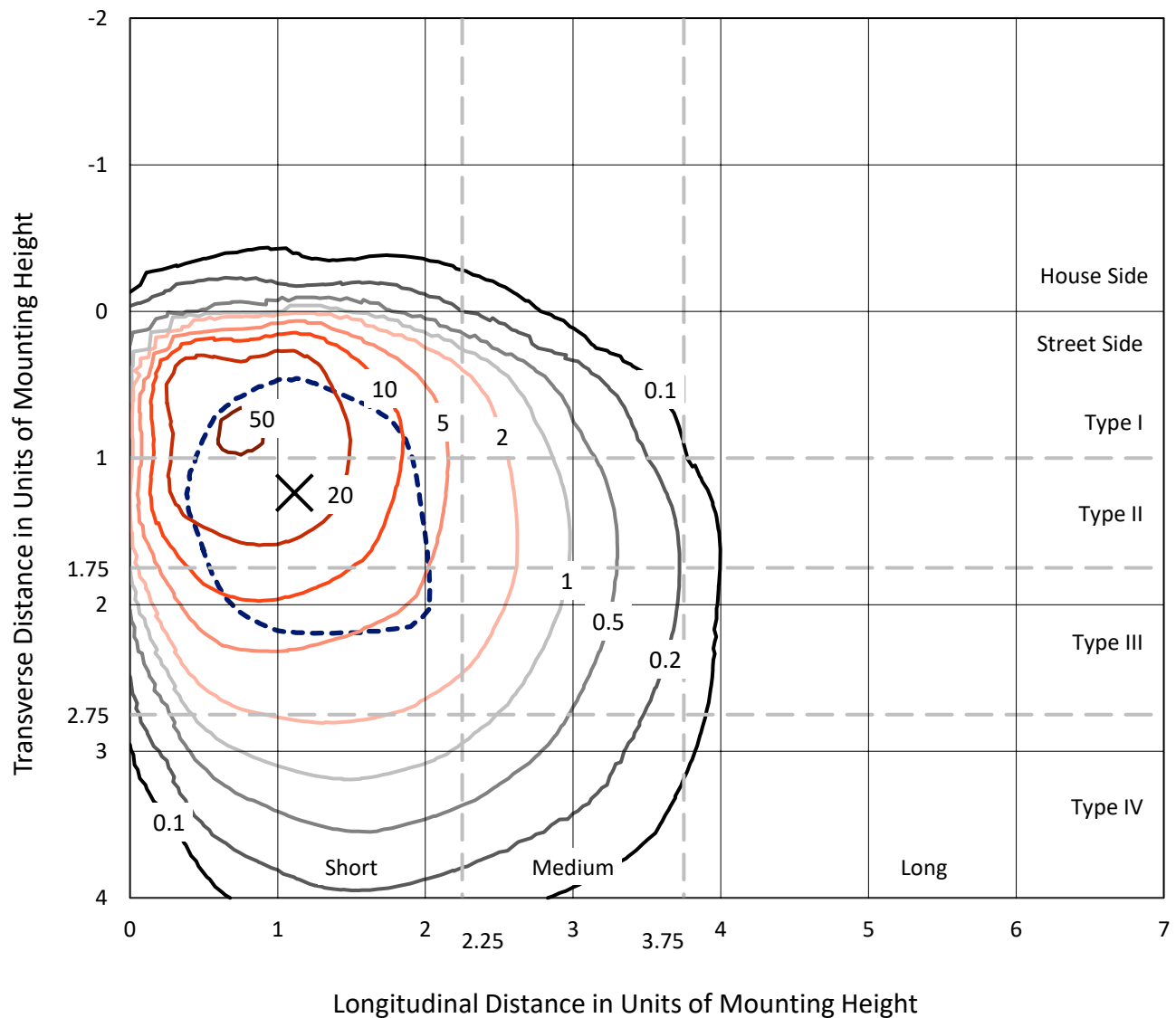
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

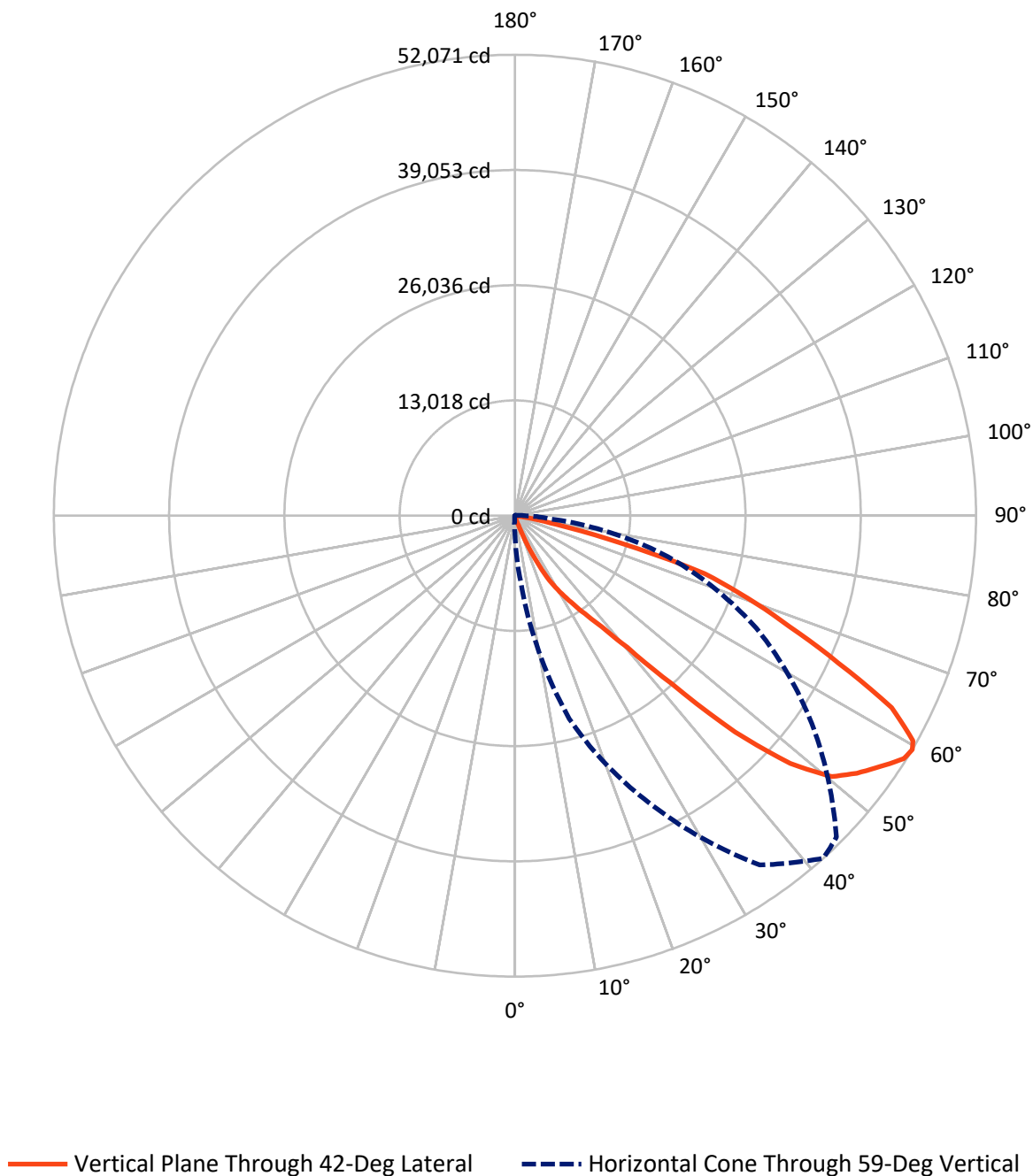


Based on 15 foot mounting height. Maximum calculated value = 56.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.5	0.0	91.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	18886.8	0.0	18886.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	18978.3	0.0	18978.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.0
10°-20°	27.7	0.1
20°-30°	354.0	1.9
30°-40°	1193.5	6.3
40°-50°	3604.8	19.0
50°-60°	6363.4	33.5
60°-70°	5603.1	29.5
70°-80°	1783.5	9.4
80°-90°	42.7	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°	18978.3	100.0
0°-180°	18978.3	100.0



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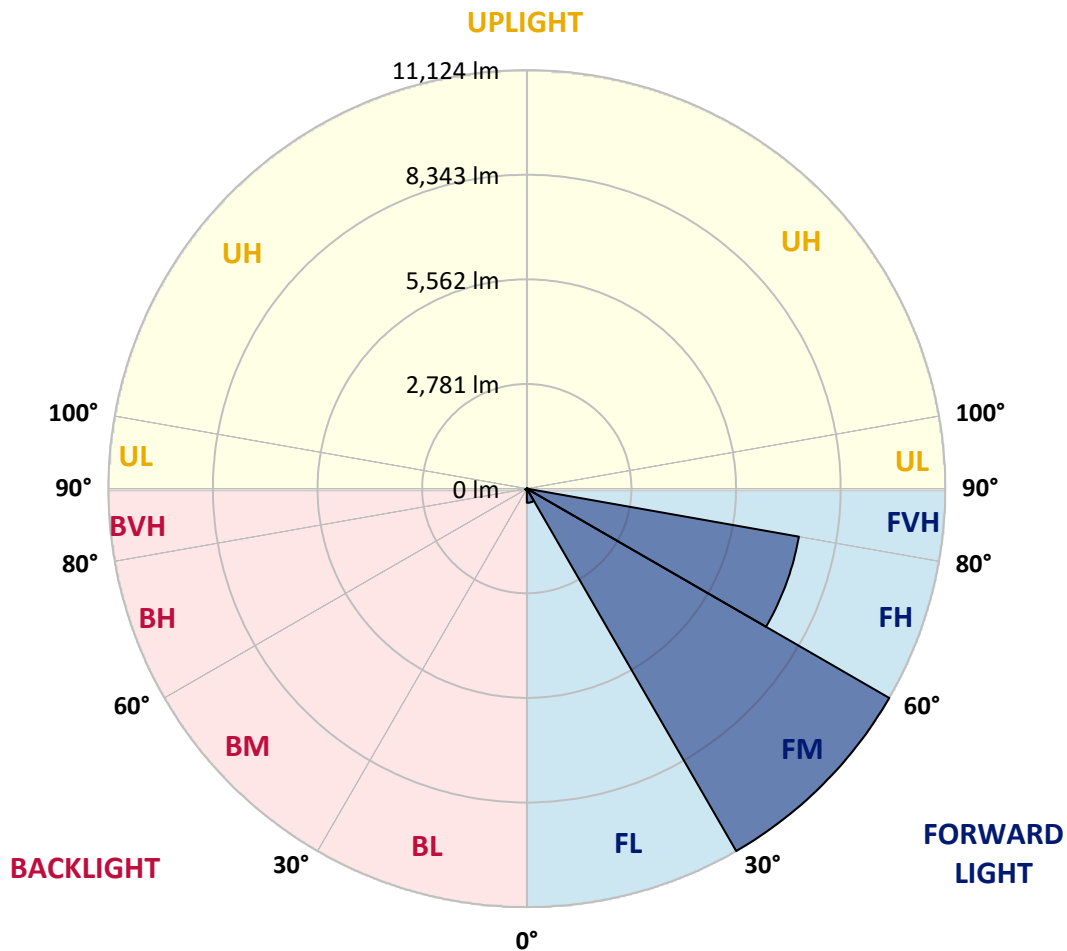
CATALOG NUMBER: NVN-SA4C-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.0	2.0			
FM	(30°-60°)	11124.4	58.6			
FH	(60°-80°)	7344.7	38.7			G3/7500
FVH	(80°-90°)	40.6	0.2			G1/100
BL	(0°-30°)	10.2	0.1	B0/110		
BM	(30°-60°)	37.4	0.2	B0/220		
BH	(60°-80°)	41.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	83.3	83.3	77.4	71.4	65.5	59.5	59.5	59.5	53.6	53.6	47.6
5°	95.2	95.2	89.3	83.3	83.3	77.4	77.4	71.4	65.5	65.5	59.5
7.5°	101.2	101.2	101.2	101.2	95.2	95.2	95.2	89.3	83.3	77.4	71.4
10°	107.1	113.1	119.0	119.0	119.0	119.0	119.0	113.1	101.2	95.2	83.3
12.5°	119.0	125.0	136.9	148.8	148.8	154.7	148.8	142.8	130.9	113.1	95.2
15°	130.9	142.8	160.7	184.5	208.3	214.2	214.2	196.4	172.6	136.9	113.1
17.5°	148.8	166.6	214.2	291.6	374.9	440.3	440.3	392.7	273.7	178.5	130.9
20°	160.7	196.4	345.1	702.1	1071.1	1344.8	1291.2	1142.5	612.9	279.7	142.8
22.5°	178.5	249.9	731.9	1844.6	2856.1	3356.0	3237.0	2457.5	1374.5	499.8	172.6
25°	202.3	363.0	1451.9	3457.1	5307.7	5849.1	5771.8	4587.7	2505.1	839.0	220.2
27.5°	249.9	535.5	2326.6	5242.2	7830.6	8294.7	8265.0	6717.9	4004.6	1350.7	285.6
30°	315.4	779.5	3451.2	7122.5	9502.6	9972.7	9823.9	8276.9	5402.9	2064.8	368.9
32.5°	392.7	1088.9	4468.7	8508.9	11043.8	11662.6	11484.1	9633.5	6527.5	2671.7	547.4
35°	511.7	1392.4	5474.3	9734.7	12822.9	13608.3	13310.8	11031.9	7497.4	3356.0	660.5
37.5°	571.2	1570.9	6396.6	11067.6	14822.2	15893.3	15667.1	12799.1	8485.1	4230.7	809.2
40°	577.2	1785.1	7354.6	12805.1	17648.6	19558.6	19154.0	15833.8	10323.8	5355.3	1041.3
42.5°	595.0	2106.4	8598.2	15768.3	23200.2	25943.3	25485.1	21415.1	14494.9	7610.4	1475.7
45°	678.3	2713.3	11133.0	21308.0	30822.6	34845.0	34315.4	29192.2	20320.3	11853.0	2517.0
47.5°	969.9	4081.9	15577.9	27288.1	38617.5	41824.7	41693.8	35321.0	25598.2	16202.7	4266.4
50°	1559.0	6265.7	20635.6	32316.1	43580.0	46335.0	46007.7	37879.6	28609.1	19171.9	5468.3
52.5°	2082.6	8354.2	23813.1	34166.6	45061.6	48346.2	47947.5	38813.8	29400.4	20046.6	5801.5
55°	2213.5	9109.9	24759.2	34737.9	46043.4	50048.0	49470.8	39438.6	29501.6	19421.8	5248.2
57.5°	2148.1	8395.9	24146.3	35297.2	47412.0	51797.4	51029.8	40658.4	29840.8	18362.6	4367.5
59°	2035.0	7515.2	23765.5	35743.5	48167.7	52071.1	51351.1	40926.2	30066.9	17880.7	3832.0
60°	1904.1	6920.2	23468.0	36035.0	48120.1	51642.7	50898.9	40801.2	30156.1	17464.1	3576.1
62.5°	1469.7	5521.9	23039.6	35826.8	45115.2	47733.3	47310.9	37742.8	28847.1	16131.3	2820.4
65°	1142.5	4224.7	21468.7	31953.1	38391.4	40152.6	40021.7	31959.1	24277.2	13905.9	2035.0
67.5°	904.4	3082.3	18154.4	25877.9	30888.0	33393.1	33297.9	25943.3	18428.1	10627.2	1463.8
70°	737.8	2195.7	12448.0	19511.0	24705.7	27859.3	27722.5	20879.6	13655.9	6741.7	1065.1
72.5°	624.8	1404.3	7550.9	14709.1	20617.8	22420.7	22022.1	16845.3	9931.1	3671.3	844.9
75°	529.6	862.8	3742.7	9169.4	12281.4	12269.5	11870.9	8919.5	5331.5	1797.0	672.4
77.5°	428.4	606.9	1469.7	2517.0	3873.6	4795.9	4718.6	3159.6	1594.7	523.6	416.5
80°	279.7	285.6	392.7	690.2	1065.1	1178.2	1338.8	963.9	464.1	249.9	172.6
82.5°	125.0	136.9	178.5	226.1	226.1	208.3	184.5	136.9	101.2	83.3	41.7
85°	29.8	41.7	29.8	35.7	29.8	23.8	23.8	11.9	0.0	0.0	0.0
87.5°	6.0	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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	47.6	47.6	47.6	41.7	41.7	41.7	35.7	35.7	35.7	29.8	29.8
5°	59.5	53.6	47.6	47.6	41.7	41.7	35.7	29.8	29.8	29.8	23.8
7.5°	65.5	59.5	53.6	47.6	41.7	35.7	35.7	29.8	23.8	23.8	23.8
10°	77.4	71.4	59.5	47.6	41.7	35.7	29.8	29.8	23.8	17.9	17.9
12.5°	89.3	77.4	65.5	53.6	41.7	35.7	29.8	29.8	23.8	17.9	11.9
15°	101.2	89.3	71.4	53.6	41.7	35.7	29.8	29.8	17.9	11.9	6.0
17.5°	113.1	95.2	71.4	59.5	41.7	35.7	29.8	23.8	11.9	6.0	0.0
20°	119.0	101.2	77.4	59.5	41.7	35.7	29.8	17.9	6.0	0.0	0.0
22.5°	130.9	113.1	83.3	59.5	41.7	29.8	17.9	6.0	0.0	0.0	0.0
25°	154.7	119.0	83.3	59.5	41.7	29.8	11.9	0.0	0.0	0.0	0.0
27.5°	172.6	130.9	83.3	59.5	41.7	23.8	6.0	0.0	0.0	0.0	0.0
30°	202.3	142.8	89.3	59.5	41.7	17.9	6.0	0.0	0.0	0.0	0.0
32.5°	249.9	154.7	89.3	59.5	35.7	17.9	0.0	0.0	0.0	0.0	0.0
35°	303.5	178.5	89.3	59.5	35.7	17.9	0.0	0.0	0.0	0.0	0.0
37.5°	309.4	190.4	89.3	59.5	35.7	11.9	0.0	0.0	0.0	0.0	0.0
40°	321.3	178.5	95.2	59.5	35.7	11.9	0.0	0.0	0.0	0.0	0.0
42.5°	368.9	166.6	101.2	59.5	35.7	11.9	0.0	0.0	0.0	0.0	0.0
45°	547.4	172.6	101.2	65.5	35.7	17.9	0.0	0.0	0.0	0.0	0.0
47.5°	952.0	178.5	95.2	65.5	35.7	17.9	0.0	0.0	0.0	0.0	0.0
50°	1219.8	208.3	95.2	71.4	41.7	11.9	0.0	0.0	0.0	0.0	0.0
52.5°	1297.2	244.0	95.2	77.4	53.6	6.0	0.0	0.0	0.0	0.0	0.0
55°	1261.5	285.6	101.2	83.3	65.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1166.3	309.4	107.1	89.3	71.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	1065.1	327.3	125.0	95.2	71.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	981.8	345.1	130.9	101.2	71.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	791.4	368.9	142.8	119.0	59.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	690.2	386.8	148.8	130.9	53.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	630.7	398.7	160.7	136.9	47.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	583.1	392.7	172.6	130.9	41.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	529.6	374.9	208.3	119.0	35.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	476.0	339.2	226.1	107.1	23.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	345.1	285.6	208.3	95.2	11.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.8	154.7	148.8	71.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	35.7	29.8	17.9	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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	29.8	29.8	29.8	29.8	35.7	35.7	47.6	59.5	71.4	77.4	77.4
5°	23.8	23.8	23.8	23.8	23.8	29.8	35.7	47.6	65.5	71.4	71.4
7.5°	17.9	17.9	17.9	17.9	17.9	17.9	29.8	41.7	59.5	65.5	71.4
10°	17.9	11.9	11.9	6.0	6.0	11.9	17.9	35.7	53.6	59.5	65.5
12.5°	11.9	6.0	6.0	0.0	0.0	6.0	11.9	29.8	47.6	53.6	59.5
15°	6.0	0.0	0.0	0.0	0.0	0.0	6.0	23.8	41.7	47.6	59.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	35.7	47.6	53.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	29.8	41.7	47.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	23.8	35.7	41.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	23.8	29.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	17.9	23.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	17.9	23.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9	17.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9	17.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9	11.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	83.3	83.3	77.4	71.4	71.4	71.4	77.4	83.3	83.3	83.3
5°	77.4	77.4	71.4	71.4	71.4	71.4	77.4	89.3	95.2	95.2
7.5°	77.4	77.4	71.4	71.4	71.4	71.4	77.4	89.3	95.2	101.2
10°	71.4	71.4	71.4	71.4	65.5	71.4	77.4	89.3	107.1	107.1
12.5°	71.4	71.4	71.4	71.4	65.5	71.4	83.3	95.2	113.1	119.0
15°	71.4	71.4	71.4	65.5	65.5	71.4	83.3	101.2	119.0	130.9
17.5°	65.5	71.4	71.4	65.5	65.5	71.4	83.3	101.2	130.9	148.8
20°	59.5	65.5	71.4	65.5	65.5	65.5	83.3	101.2	136.9	160.7
22.5°	53.6	59.5	65.5	65.5	59.5	65.5	83.3	107.1	148.8	178.5
25°	47.6	53.6	53.6	59.5	59.5	65.5	83.3	107.1	154.7	202.3
27.5°	35.7	41.7	47.6	53.6	53.6	65.5	83.3	113.1	166.6	249.9
30°	29.8	35.7	41.7	47.6	53.6	65.5	83.3	113.1	178.5	315.4
32.5°	29.8	35.7	41.7	47.6	53.6	59.5	83.3	119.0	196.4	392.7
35°	23.8	29.8	35.7	47.6	47.6	59.5	83.3	119.0	214.2	511.7
37.5°	23.8	29.8	35.7	47.6	47.6	59.5	83.3	119.0	261.8	571.2
40°	17.9	23.8	29.8	47.6	47.6	59.5	89.3	125.0	267.8	577.2
42.5°	17.9	23.8	29.8	41.7	47.6	59.5	89.3	125.0	249.9	595.0
45°	17.9	23.8	29.8	47.6	53.6	65.5	89.3	130.9	244.0	678.3
47.5°	17.9	23.8	29.8	47.6	59.5	65.5	89.3	130.9	249.9	969.9
50°	17.9	23.8	29.8	47.6	65.5	65.5	89.3	130.9	273.7	1559.0
52.5°	11.9	17.9	23.8	41.7	53.6	71.4	95.2	125.0	291.6	2082.6
55°	11.9	11.9	17.9	35.7	47.6	77.4	101.2	125.0	339.2	2213.5
57.5°	11.9	11.9	17.9	29.8	41.7	83.3	107.1	125.0	392.7	2148.1
59°	11.9	11.9	11.9	23.8	35.7	83.3	107.1	130.9	398.7	2035.0
60°	11.9	11.9	11.9	23.8	35.7	83.3	113.1	136.9	404.6	1904.1
62.5°	6.0	6.0	6.0	23.8	29.8	83.3	125.0	166.6	416.5	1469.7
65°	11.9	11.9	6.0	17.9	29.8	71.4	142.8	178.5	422.5	1142.5
67.5°	11.9	11.9	11.9	23.8	29.8	71.4	148.8	184.5	422.5	904.4
70°	11.9	11.9	11.9	23.8	35.7	71.4	148.8	190.4	416.5	737.8
72.5°	11.9	11.9	11.9	23.8	35.7	65.5	136.9	196.4	398.7	624.8
75°	11.9	11.9	11.9	17.9	29.8	59.5	130.9	214.2	363.0	529.6
77.5°	11.9	11.9	11.9	11.9	23.8	47.6	119.0	238.0	321.3	428.4
80°	17.9	11.9	11.9	11.9	17.9	41.7	113.1	232.1	267.8	279.7
82.5°	17.9	11.9	11.9	6.0	11.9	29.8	89.3	178.5	136.9	125.0
85°	11.9	11.9	11.9	6.0	6.0	17.9	41.7	53.6	41.7	29.8
87.5°	11.9	11.9	11.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

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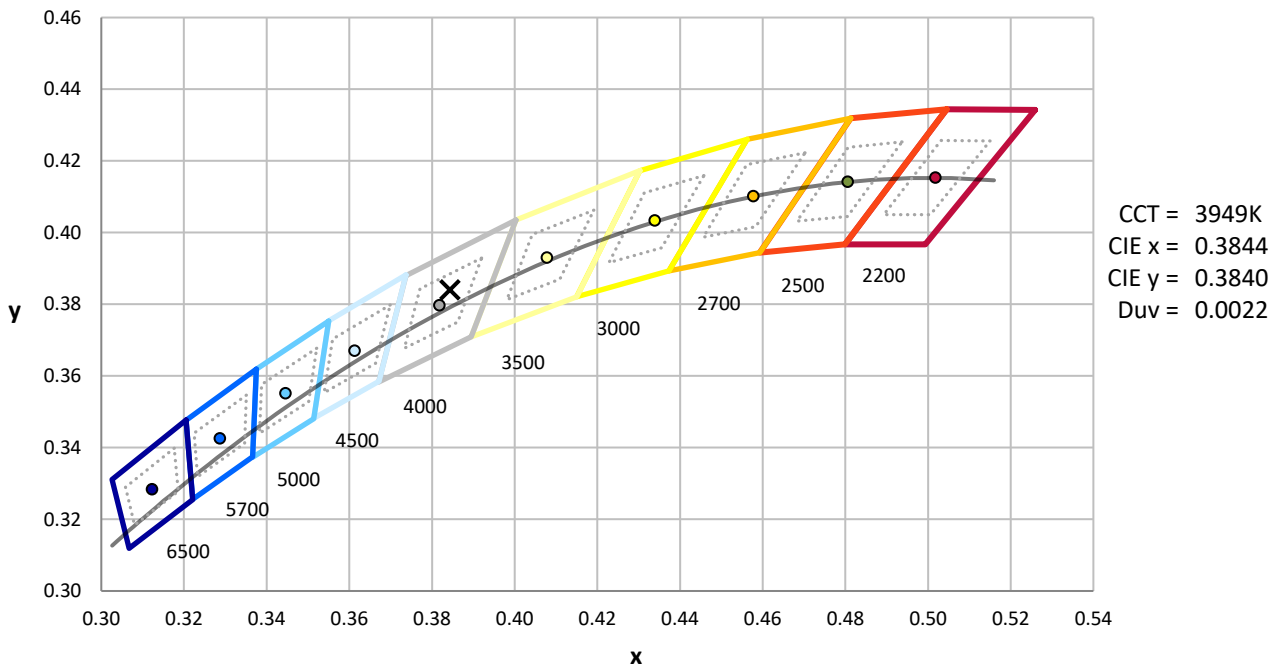
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

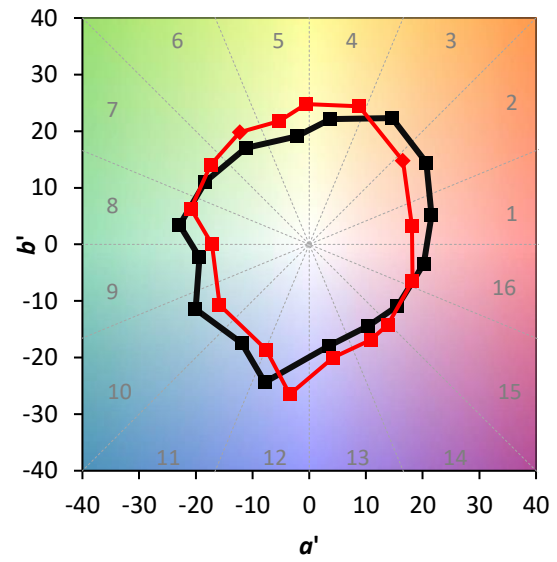
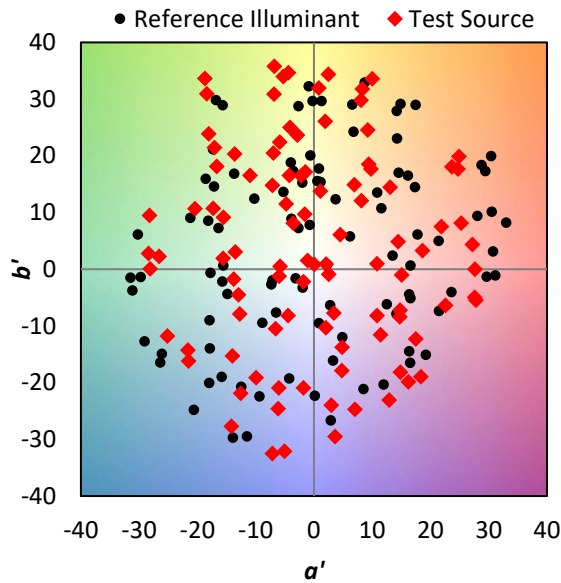
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$



Color Vector Graphics

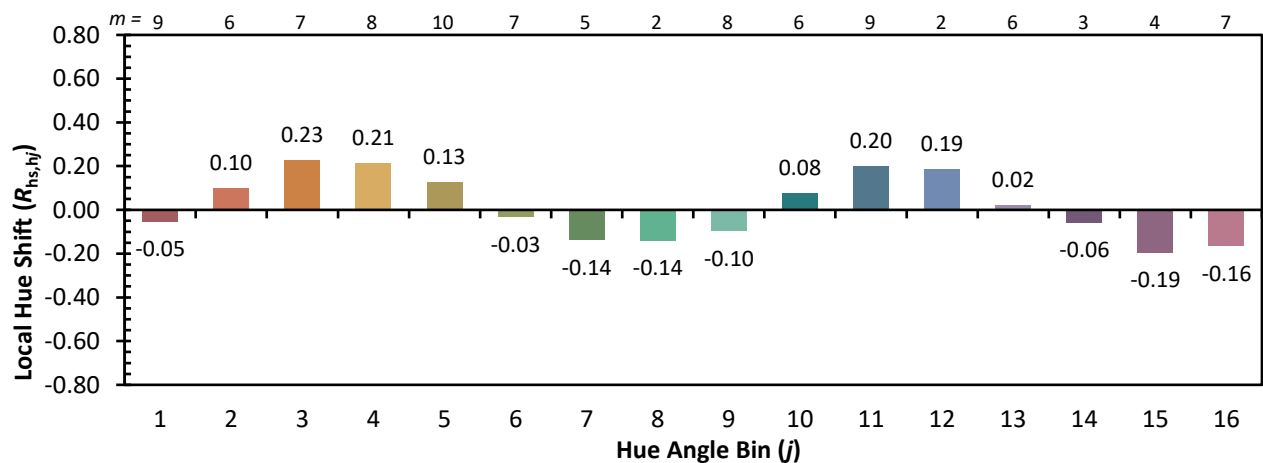


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)