

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: P1066692

Luminaire Tested: **NVN-SA6D-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066692
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA6D-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 6xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31560.3 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 320.4
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



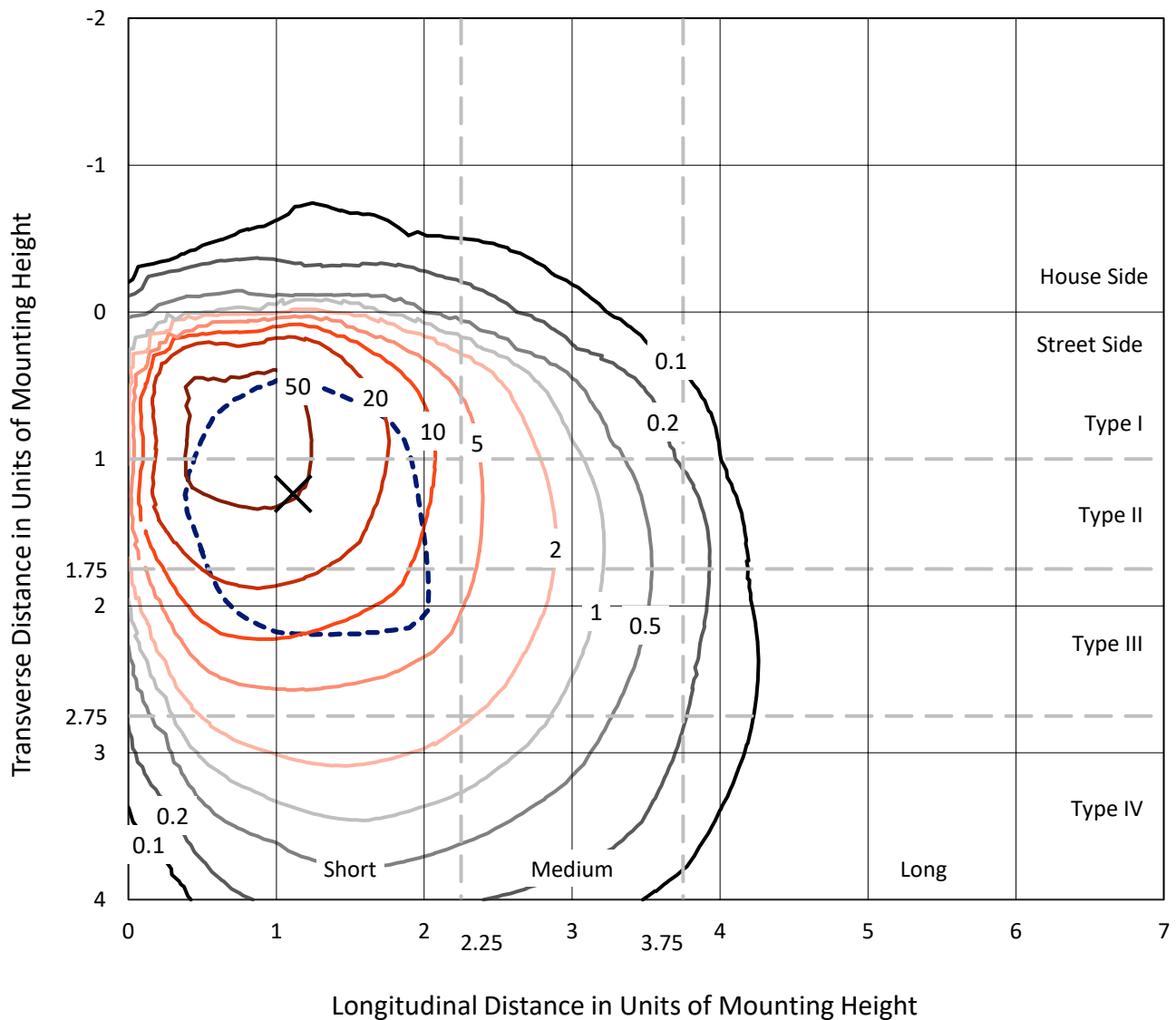
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

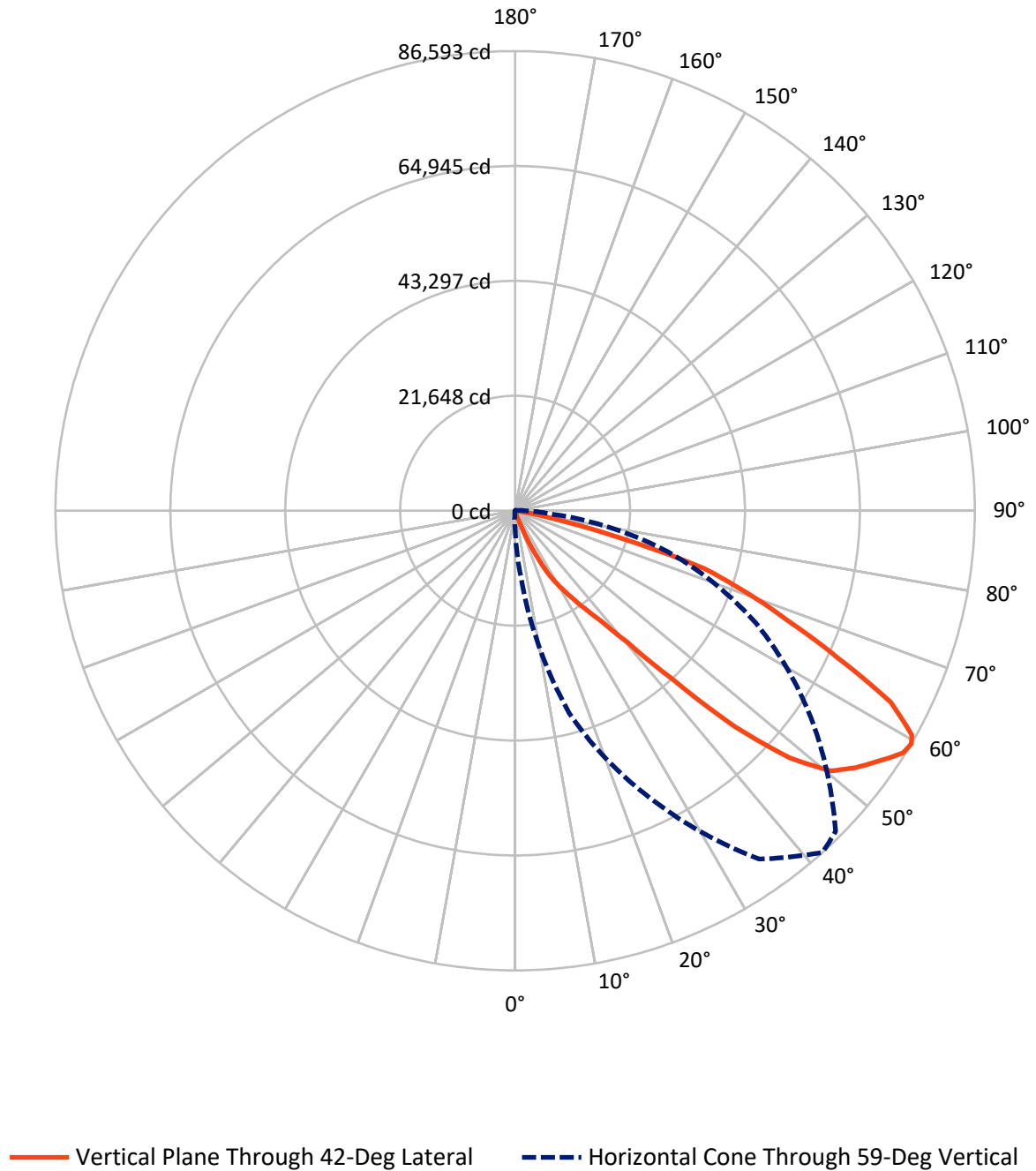


Based on 15 foot mounting height. Maximum calculated value = 93.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	152.1	0.0	152.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	31408.3	0.0	31408.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	31560.3	0.0	31560.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.0
10°-20°	46.0	0.1
20°-30°	588.7	1.9
30°-40°	1984.7	6.3
40°-50°	5994.8	19.0
50°-60°	10582.2	33.5
60°-70°	9317.8	29.5
70°-80°	2965.9	9.4
80°-90°	71.0	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°	31560.3	100.0
0°-180°	31560.3	100.0



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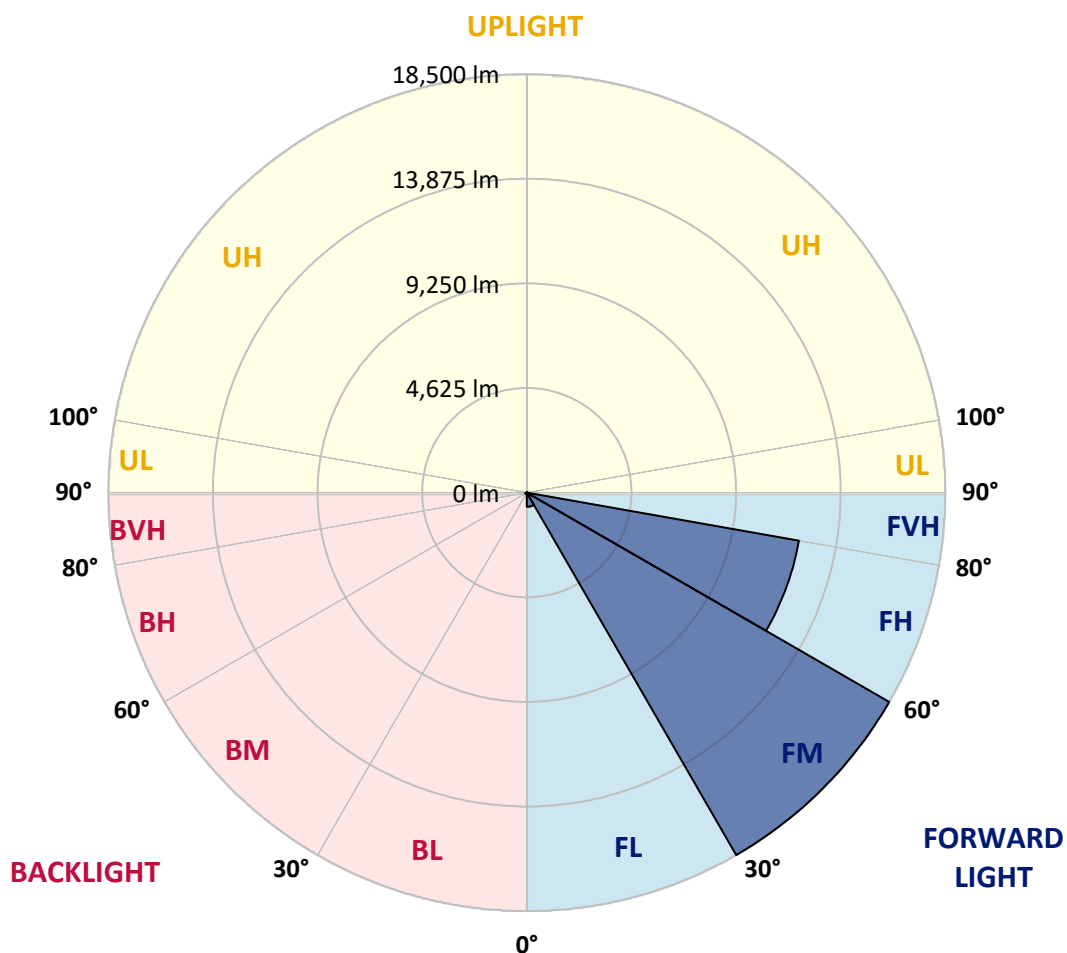
CATALOG NUMBER: NVN-SA6D-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.0	2.0			
FM	(30°-60°)	18499.6	58.6			
FH	(60°-80°)	12214.1	38.7			G5
FVH	(80°-90°)	67.5	0.2			G1/100
BL	(0°-30°)	17.0	0.1	B0/110		
BM	(30°-60°)	62.1	0.2	B0/220		
BH	(60°-80°)	69.6	0.2	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	138.5	138.5	128.6	118.7	108.8	99.0	99.0	99.0	89.1	89.1	79.2
5°	158.3	158.3	148.4	138.5	138.5	128.6	128.6	118.7	108.8	108.8	99.0
7.5°	168.2	168.2	168.2	168.2	158.3	158.3	158.3	148.4	138.5	128.6	118.7
10°	178.1	188.0	197.9	197.9	197.9	197.9	197.9	188.0	168.2	158.3	138.5
12.5°	197.9	207.8	227.6	247.4	247.4	257.3	247.4	237.5	217.7	188.0	158.3
15°	217.7	237.5	267.2	306.8	346.3	356.2	356.2	326.5	287.0	227.6	188.0
17.5°	247.4	277.1	356.2	484.9	623.4	732.2	732.2	653.1	455.2	296.9	217.7
20°	267.2	326.5	573.9	1167.6	1781.1	2236.3	2147.3	1899.9	1019.2	465.1	237.5
22.5°	296.9	415.6	1217.1	3067.5	4749.7	5580.9	5383.0	4086.7	2285.8	831.2	287.0
25°	336.4	603.6	2414.4	5749.1	8826.5	9727.0	9598.4	7629.2	4165.9	1395.2	366.1
27.5°	415.6	890.6	3869.0	8717.7	13022.1	13793.9	13744.5	11171.7	6659.5	2246.2	475.0
30°	524.4	1296.3	5739.2	11844.6	15802.7	16584.4	16337.0	13764.2	8984.9	3433.6	613.5
32.5°	653.1	1810.8	7431.3	14150.2	18365.5	19394.6	19097.8	16020.4	10855.1	4443.0	910.4
35°	851.0	2315.5	9103.6	16188.6	21324.2	22630.4	22135.6	18345.7	12468.0	5580.9	1098.4
37.5°	949.9	2612.3	10637.4	18405.1	24649.0	26430.1	26054.1	21284.6	14110.6	7035.5	1345.7
40°	959.8	2968.6	12230.5	21294.5	29349.2	32525.6	31852.7	26331.2	17168.2	8905.7	1731.7
42.5°	989.5	3502.9	14298.6	26222.3	38581.4	43143.1	42381.2	35612.9	24104.7	12656.0	2454.0
45°	1128.1	4512.2	18513.9	35434.8	51257.2	57946.4	57065.7	48545.9	33792.2	19711.3	4185.7
47.5°	1612.9	6788.1	25905.7	45379.5	64219.9	69553.5	69335.8	58738.0	42569.2	26944.7	7094.9
50°	2592.5	10419.7	34316.6	53740.9	72472.6	77054.0	76509.8	62992.9	47576.2	31882.4	9093.7
52.5°	3463.3	13892.9	39600.6	56818.3	74936.5	80398.6	79735.6	64546.5	48892.3	33337.0	9647.8
55°	3681.0	15149.6	41174.0	57768.3	76569.2	83228.6	82268.8	65585.5	49060.5	32298.0	8727.6
57.5°	3572.2	13962.1	40154.8	58698.4	78845.1	86137.8	84861.4	67614.0	49624.5	30536.6	7263.1
59°	3384.2	12497.7	39521.5	59440.6	80101.8	86593.0	85395.7	68059.3	50000.5	29735.1	6372.5
60°	3166.5	11508.1	39026.7	59925.4	80022.6	85880.6	84643.7	67851.5	50148.9	29042.5	5947.0
62.5°	2444.1	9182.8	38314.3	59579.1	75025.5	79379.4	78676.9	62765.3	47972.0	26825.9	4690.3
65°	1899.9	7025.6	35701.9	53137.3	63843.9	66772.9	66555.2	53147.2	40372.5	23125.1	3384.2
67.5°	1504.1	5125.7	30190.3	43034.3	51366.1	55531.9	55373.6	43143.1	30645.5	17672.9	2434.2
70°	1227.0	3651.3	20700.8	32446.4	41084.9	46329.4	46101.8	34722.3	22709.5	11211.3	1771.2
72.5°	1039.0	2335.3	12557.0	24461.0	34286.9	37285.2	36622.2	28013.4	16515.1	6105.3	1405.1
75°	880.7	1434.8	6224.1	15248.5	20423.7	20403.9	19741.0	14832.9	8866.1	2988.4	1118.2
77.5°	712.5	1009.3	2444.1	4185.7	6441.8	7975.5	7846.9	5254.4	2651.9	870.8	692.7
80°	465.1	475.0	653.1	1147.8	1771.2	1959.3	2226.4	1603.0	771.8	415.6	287.0
82.5°	207.8	227.6	296.9	376.0	376.0	346.3	306.8	227.6	168.2	138.5	69.3
85°	49.5	69.3	49.5	59.4	49.5	39.6	39.6	19.8	0.0	0.0	0.0
87.5°	9.9	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°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	79.2	79.2	79.2	69.3	69.3	69.3	59.4	59.4	59.4	49.5	49.5
5°	99.0	89.1	79.2	79.2	69.3	69.3	59.4	49.5	49.5	49.5	39.6
7.5°	108.8	99.0	89.1	79.2	69.3	59.4	59.4	49.5	39.6	39.6	39.6
10°	128.6	118.7	99.0	79.2	69.3	59.4	49.5	49.5	39.6	29.7	29.7
12.5°	148.4	128.6	108.8	89.1	69.3	59.4	49.5	49.5	39.6	29.7	19.8
15°	168.2	148.4	118.7	89.1	69.3	59.4	49.5	49.5	29.7	19.8	9.9
17.5°	188.0	158.3	118.7	99.0	69.3	59.4	49.5	39.6	19.8	9.9	0.0
20°	197.9	168.2	128.6	99.0	69.3	59.4	49.5	29.7	9.9	0.0	0.0
22.5°	217.7	188.0	138.5	99.0	69.3	49.5	29.7	9.9	0.0	0.0	0.0
25°	257.3	197.9	138.5	99.0	69.3	49.5	19.8	0.0	0.0	0.0	0.0
27.5°	287.0	217.7	138.5	99.0	69.3	39.6	9.9	0.0	0.0	0.0	0.0
30°	336.4	237.5	148.4	99.0	69.3	29.7	9.9	0.0	0.0	0.0	0.0
32.5°	415.6	257.3	148.4	99.0	59.4	29.7	0.0	0.0	0.0	0.0	0.0
35°	504.7	296.9	148.4	99.0	59.4	29.7	0.0	0.0	0.0	0.0	0.0
37.5°	514.6	316.6	148.4	99.0	59.4	19.8	0.0	0.0	0.0	0.0	0.0
40°	534.3	296.9	158.3	99.0	59.4	19.8	0.0	0.0	0.0	0.0	0.0
42.5°	613.5	277.1	168.2	99.0	59.4	19.8	0.0	0.0	0.0	0.0	0.0
45°	910.4	287.0	168.2	108.8	59.4	29.7	0.0	0.0	0.0	0.0	0.0
47.5°	1583.2	296.9	158.3	108.8	59.4	29.7	0.0	0.0	0.0	0.0	0.0
50°	2028.5	346.3	158.3	118.7	69.3	19.8	0.0	0.0	0.0	0.0	0.0
52.5°	2157.2	405.7	158.3	128.6	89.1	9.9	0.0	0.0	0.0	0.0	0.0
55°	2097.8	475.0	168.2	138.5	108.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1939.5	514.6	178.1	148.4	118.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1771.2	544.2	207.8	158.3	118.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1632.7	573.9	217.7	168.2	118.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1316.1	613.5	237.5	197.9	99.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1147.8	643.2	247.4	217.7	89.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1048.9	663.0	267.2	227.6	79.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	969.7	653.1	287.0	217.7	69.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	880.7	623.4	346.3	197.9	59.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	791.6	564.0	376.0	178.1	39.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	573.9	475.0	346.3	158.3	19.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	247.4	257.3	247.4	118.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.5	59.4	49.5	29.7	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°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	49.5	49.5	49.5	49.5	59.4	59.4	79.2	99.0	118.7	128.6	128.6
5°	39.6	39.6	39.6	39.6	39.6	49.5	59.4	79.2	108.8	118.7	118.7
7.5°	29.7	29.7	29.7	29.7	29.7	29.7	49.5	69.3	99.0	108.8	118.7
10°	29.7	19.8	19.8	9.9	9.9	19.8	29.7	59.4	89.1	99.0	108.8
12.5°	19.8	9.9	9.9	0.0	0.0	9.9	19.8	49.5	79.2	89.1	99.0
15°	9.9	0.0	0.0	0.0	0.0	0.0	9.9	39.6	69.3	79.2	99.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	59.4	79.2	89.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	49.5	69.3	79.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	39.6	59.4	69.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	39.6	49.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	29.7	39.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	29.7	39.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	29.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	29.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	19.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9
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°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2.5°	138.5	138.5	128.6	118.7	118.7	118.7	128.6	138.5	138.5	138.5
5°	128.6	128.6	118.7	118.7	118.7	118.7	128.6	148.4	158.3	158.3
7.5°	128.6	128.6	118.7	118.7	118.7	118.7	128.6	148.4	158.3	168.2
10°	118.7	118.7	118.7	118.7	108.8	118.7	128.6	148.4	178.1	178.1
12.5°	118.7	118.7	118.7	118.7	108.8	118.7	138.5	158.3	188.0	197.9
15°	118.7	118.7	118.7	108.8	108.8	118.7	138.5	168.2	197.9	217.7
17.5°	108.8	118.7	118.7	108.8	108.8	118.7	138.5	168.2	217.7	247.4
20°	99.0	108.8	118.7	108.8	108.8	108.8	138.5	168.2	227.6	267.2
22.5°	89.1	99.0	108.8	108.8	99.0	108.8	138.5	178.1	247.4	296.9
25°	79.2	89.1	89.1	99.0	99.0	108.8	138.5	178.1	257.3	336.4
27.5°	59.4	69.3	79.2	89.1	89.1	108.8	138.5	188.0	277.1	415.6
30°	49.5	59.4	69.3	79.2	89.1	108.8	138.5	188.0	296.9	524.4
32.5°	49.5	59.4	69.3	79.2	89.1	99.0	138.5	197.9	326.5	653.1
35°	39.6	49.5	59.4	79.2	79.2	99.0	138.5	197.9	356.2	851.0
37.5°	39.6	49.5	59.4	79.2	79.2	99.0	138.5	197.9	435.4	949.9
40°	29.7	39.6	49.5	79.2	79.2	99.0	148.4	207.8	445.3	959.8
42.5°	29.7	39.6	49.5	69.3	79.2	99.0	148.4	207.8	415.6	989.5
45°	29.7	39.6	49.5	79.2	89.1	108.8	148.4	217.7	405.7	1128.1
47.5°	29.7	39.6	49.5	79.2	99.0	108.8	148.4	217.7	415.6	1612.9
50°	29.7	39.6	49.5	79.2	108.8	108.8	148.4	217.7	455.2	2592.5
52.5°	19.8	29.7	39.6	69.3	89.1	118.7	158.3	207.8	484.9	3463.3
55°	19.8	19.8	29.7	59.4	79.2	128.6	168.2	207.8	564.0	3681.0
57.5°	19.8	19.8	29.7	49.5	69.3	138.5	178.1	207.8	653.1	3572.2
59°	19.8	19.8	19.8	49.5	59.4	138.5	178.1	217.7	663.0	3384.2
60°	19.8	19.8	19.8	39.6	59.4	138.5	188.0	227.6	672.9	3166.5
62.5°	9.9	9.9	9.9	39.6	49.5	138.5	207.8	277.1	692.7	2444.1
65°	19.8	19.8	9.9	29.7	49.5	118.7	237.5	296.9	702.6	1899.9
67.5°	19.8	19.8	19.8	39.6	49.5	118.7	247.4	306.8	702.6	1504.1
70°	19.8	19.8	19.8	39.6	59.4	118.7	247.4	316.6	692.7	1227.0
72.5°	19.8	19.8	19.8	39.6	59.4	108.8	227.6	326.5	663.0	1039.0
75°	19.8	19.8	19.8	29.7	49.5	99.0	217.7	356.2	603.6	880.7
77.5°	19.8	19.8	19.8	19.8	39.6	79.2	197.9	395.8	534.3	712.5
80°	29.7	19.8	19.8	19.8	29.7	69.3	188.0	385.9	445.3	465.1
82.5°	29.7	19.8	19.8	9.9	19.8	49.5	148.4	296.9	227.6	207.8
85°	19.8	19.8	19.8	9.9	9.9	29.7	69.3	89.1	69.3	49.5
87.5°	19.8	19.8	19.8	9.9	9.9	9.9	9.9	9.9	9.9	9.9
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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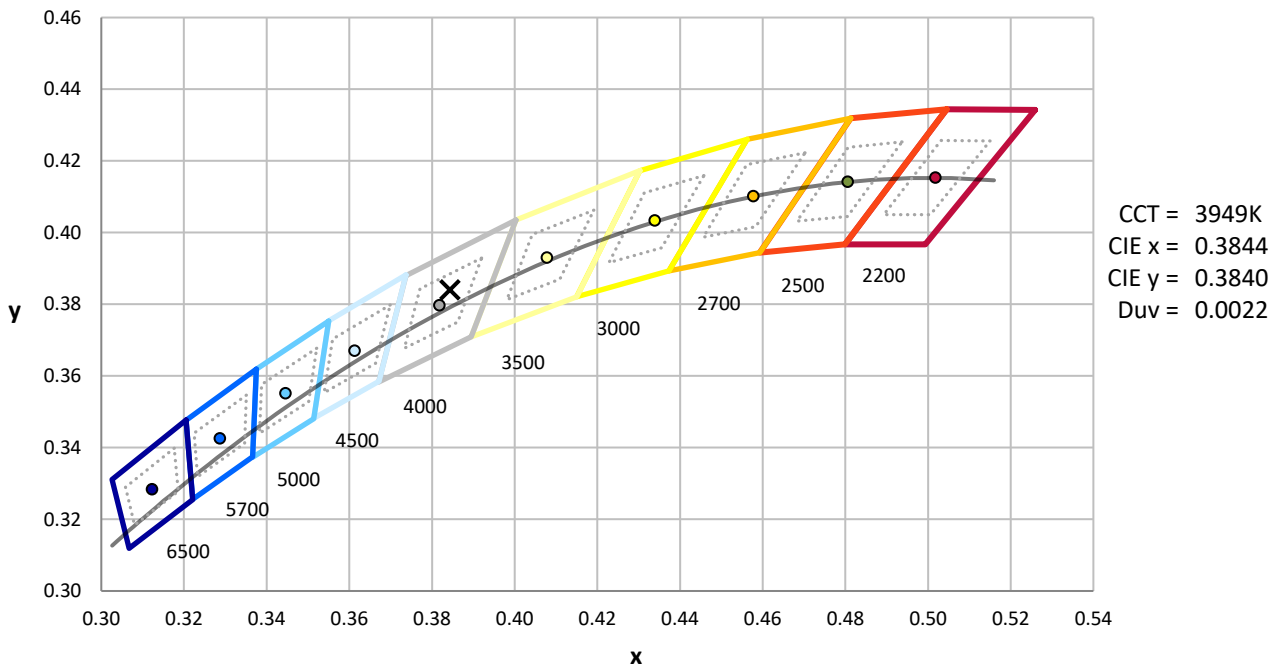
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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

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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	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			

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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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

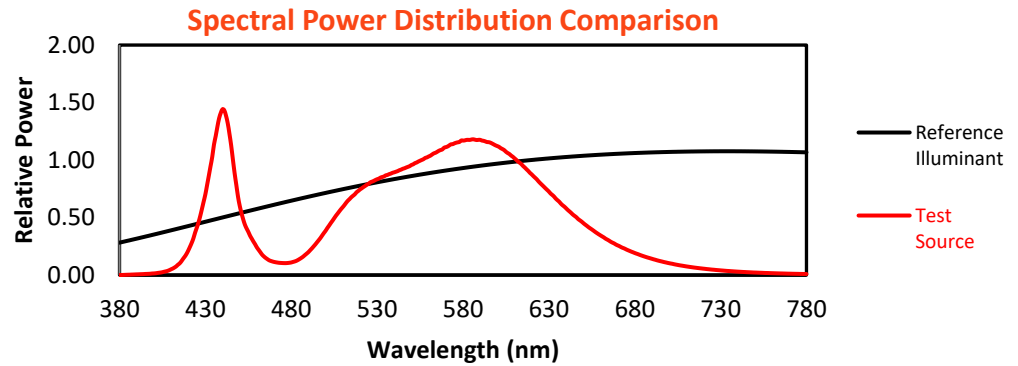
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	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			

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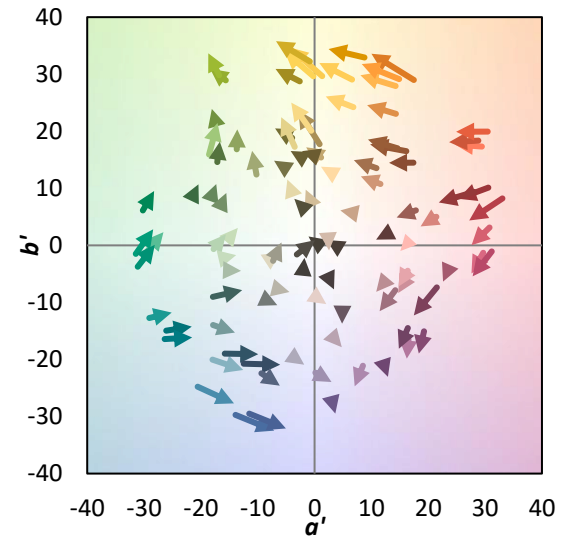
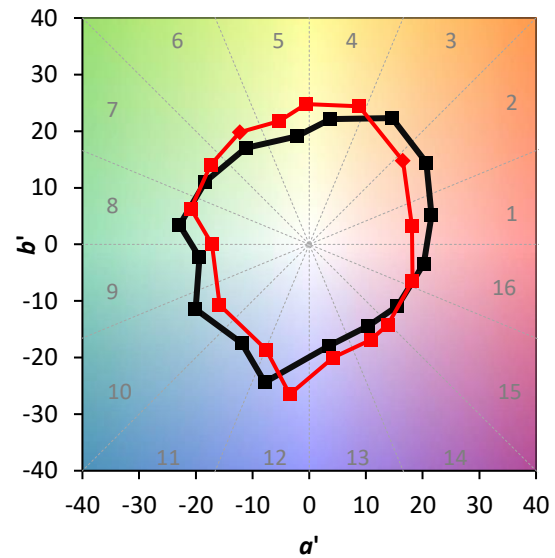
TM-30-18

Summary

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



Color Vector Graphics

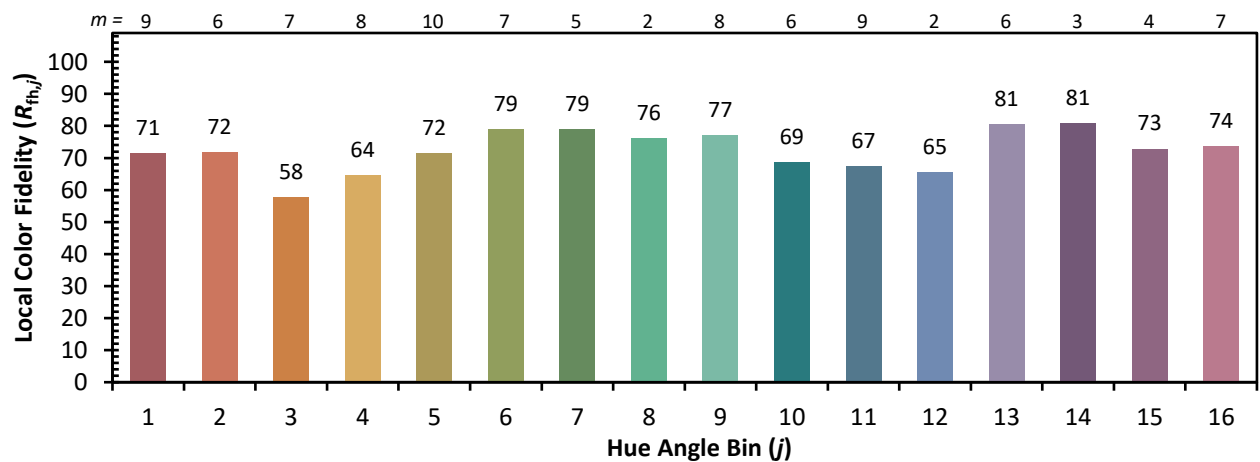
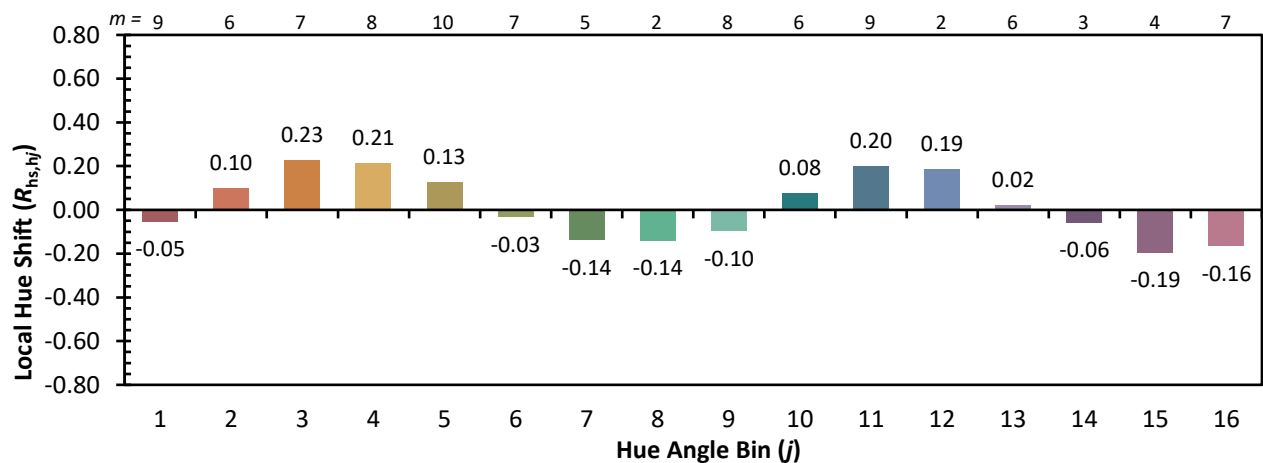


Individual Sample Fidelity Index ($R_{f,i}$)

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)