

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: P1067888

Luminaire Tested: **NAV-SA5D-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067888
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5D-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26286.6 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
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

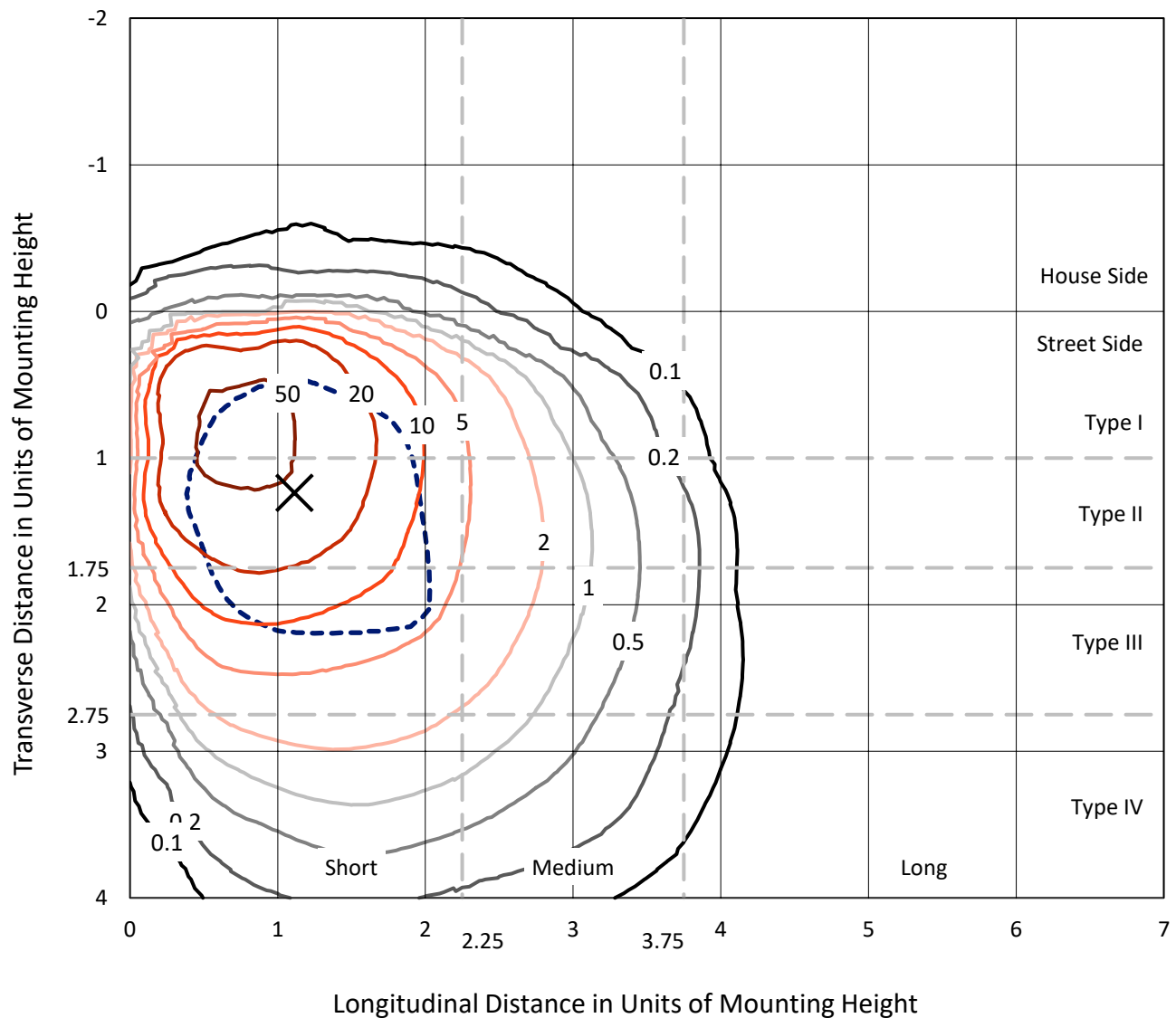


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

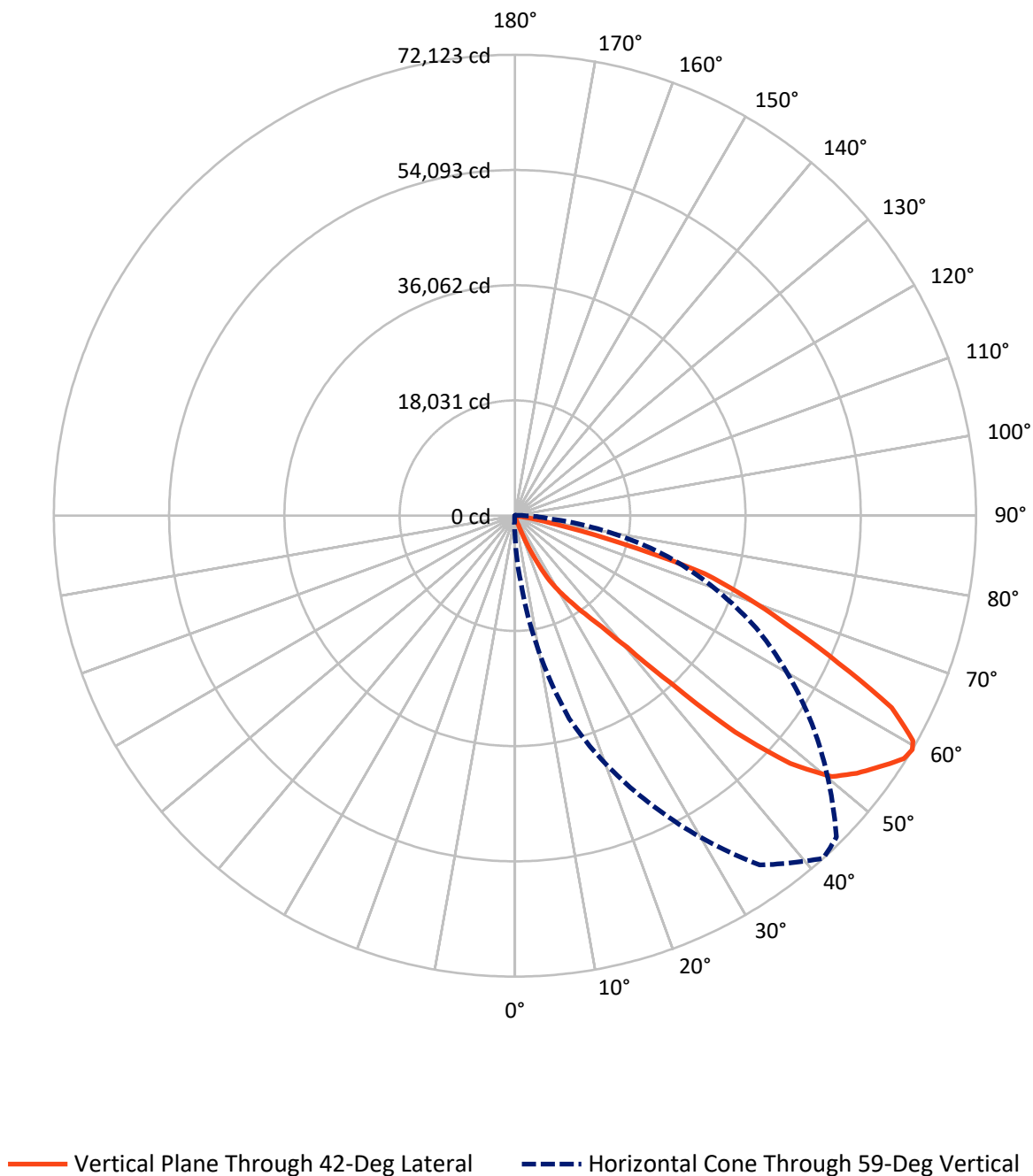


Based on 15 foot mounting height. Maximum calculated value = 78.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	126.7	0.0	126.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	26160.0	0.0	26160.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	26286.6	0.0	26286.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.0
10°-20°	38.3	0.1
20°-30°	490.3	1.9
30°-40°	1653.1	6.3
40°-50°	4993.0	19.0
50°-60°	8813.9	33.5
60°-70°	7760.8	29.5
70°-80°	2470.3	9.4
80°-90°	59.1	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°	26286.6	100.0
0°-180°	26286.6	100.0



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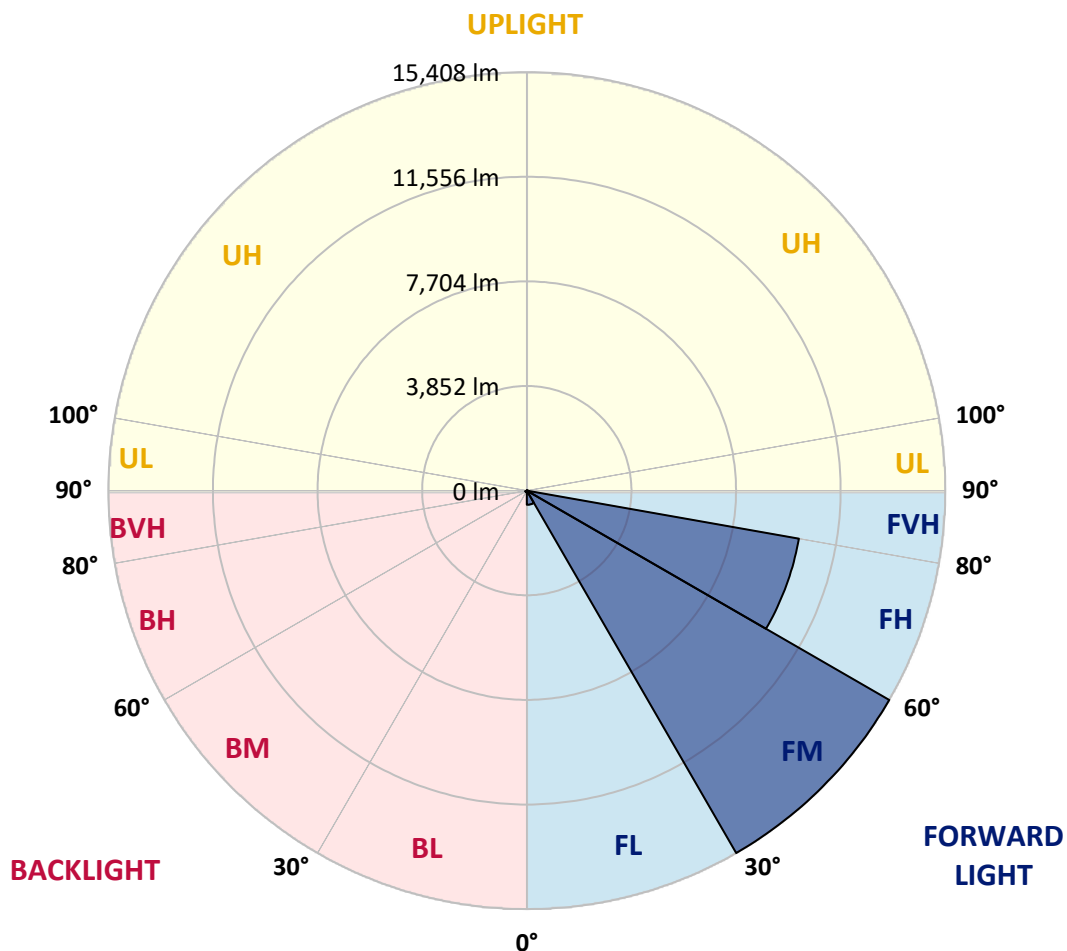
CATALOG NUMBER: NAV-SA5D-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.2	2.0			
FM	(30°-60°)	15408.3	58.6			
FH	(60°-80°)	10173.2	38.7			G4/12000
FVH	(80°-90°)	56.2	0.2			G1/100
BL	(0°-30°)	14.1	0.1	B0/110		
BM	(30°-60°)	51.7	0.2	B0/220		
BH	(60°-80°)	57.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	115.4	115.4	107.1	98.9	90.7	82.4	82.4	82.4	74.2	74.2	65.9
5°	131.9	131.9	123.6	115.4	115.4	107.1	107.1	98.9	90.7	90.7	82.4
7.5°	140.1	140.1	140.1	140.1	131.9	131.9	131.9	123.6	115.4	107.1	98.9
10°	148.4	156.6	164.8	164.8	164.8	164.8	164.8	156.6	140.1	131.9	115.4
12.5°	164.8	173.1	189.6	206.0	206.0	214.3	206.0	197.8	181.3	156.6	131.9
15°	181.3	197.8	222.5	255.5	288.5	296.7	296.7	272.0	239.0	189.6	156.6
17.5°	206.0	230.8	296.7	403.8	519.2	609.9	609.9	544.0	379.1	247.3	181.3
20°	222.5	272.0	478.0	972.5	1483.5	1862.6	1788.5	1582.4	848.9	387.4	197.8
22.5°	247.3	346.2	1013.7	2554.9	3956.0	4648.3	4483.5	3403.8	1903.8	692.3	239.0
25°	280.2	502.7	2011.0	4788.4	7351.6	8101.6	7994.5	6354.4	3469.8	1162.1	304.9
27.5°	346.2	741.8	3222.5	7261.0	10846.1	11489.0	11447.8	9304.9	5546.7	1870.9	395.6
30°	436.8	1079.7	4780.2	9865.4	13162.0	13813.1	13607.1	11464.3	7483.5	2859.9	511.0
32.5°	544.0	1508.2	6189.5	11785.7	15296.7	16153.8	15906.5	13343.4	9041.2	3700.5	758.2
35°	708.8	1928.6	7582.4	13483.5	17760.9	18848.8	18436.8	15280.2	10384.6	4648.3	914.8
37.5°	791.2	2175.8	8859.9	15329.6	20530.2	22013.7	21700.5	17728.0	11752.7	5859.9	1120.9
40°	799.4	2472.5	10186.8	17736.2	24445.0	27090.6	26530.1	21931.3	14299.4	7417.6	1442.3
42.5°	824.2	2917.6	11909.3	21840.6	32134.5	35934.0	35299.3	29662.0	20076.9	10541.2	2043.9
45°	939.6	3758.2	15420.3	29513.6	42692.2	48263.6	47530.1	40433.9	28145.5	16417.5	3486.3
47.5°	1343.4	5653.8	21576.9	37796.6	53488.8	57931.1	57749.8	48922.9	35455.9	22442.2	5909.3
50°	2159.3	8678.5	28582.3	44760.9	60362.5	64178.4	63725.1	52466.9	39626.3	26554.9	7574.2
52.5°	2884.6	11571.4	32983.4	47324.0	62414.6	66964.1	66411.9	53760.8	40722.4	27766.4	8035.7
55°	3065.9	12618.1	34293.9	48115.2	63774.5	69321.2	68521.8	54626.2	40862.5	26901.0	7269.2
57.5°	2975.3	11629.1	33445.0	48890.0	65670.1	71744.3	70681.1	56315.8	41332.3	25434.0	6049.4
59°	2818.7	10409.3	32917.5	49508.1	66716.8	72123.4	71126.2	56686.6	41645.5	24766.4	5307.7
60°	2637.4	9585.1	32505.4	49911.9	66650.9	71530.0	70499.8	56513.6	41769.1	24189.5	4953.3
62.5°	2035.7	7648.3	31912.0	49623.5	62488.8	66115.2	65530.0	52277.3	39955.9	22343.3	3906.6
65°	1582.4	5851.6	29736.2	44258.1	53175.7	55615.2	55433.9	44266.3	33626.3	19260.9	2818.7
67.5°	1252.7	4269.2	25145.5	35843.3	42782.8	46252.6	46120.7	35934.0	25524.6	14719.7	2027.5
70°	1022.0	3041.2	17241.7	27024.6	34219.7	38587.8	38398.2	28920.2	18914.8	9337.9	1475.3
72.5°	865.4	1945.0	10458.8	20373.6	28557.6	31054.9	30502.7	23332.3	13755.5	5085.1	1170.3
75°	733.5	1195.1	5184.1	12700.5	17010.9	16994.5	16442.3	12354.4	7384.6	2489.0	931.3
77.5°	593.4	840.7	2035.7	3486.3	5365.4	6642.8	6535.7	4376.4	2208.8	725.3	576.9
80°	387.4	395.6	544.0	956.0	1475.3	1631.9	1854.4	1335.2	642.9	346.2	239.0
82.5°	173.1	189.6	247.3	313.2	313.2	288.5	255.5	189.6	140.1	115.4	57.7
85°	41.2	57.7	41.2	49.5	41.2	33.0	33.0	16.5	0.0	0.0	0.0
87.5°	8.2	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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	65.9	65.9	65.9	57.7	57.7	57.7	49.5	49.5	49.5	41.2	41.2
5°	82.4	74.2	65.9	65.9	57.7	57.7	49.5	41.2	41.2	41.2	33.0
7.5°	90.7	82.4	74.2	65.9	57.7	49.5	49.5	41.2	33.0	33.0	33.0
10°	107.1	98.9	82.4	65.9	57.7	49.5	41.2	41.2	33.0	24.7	24.7
12.5°	123.6	107.1	90.7	74.2	57.7	49.5	41.2	41.2	33.0	24.7	16.5
15°	140.1	123.6	98.9	74.2	57.7	49.5	41.2	41.2	24.7	16.5	8.2
17.5°	156.6	131.9	98.9	82.4	57.7	49.5	41.2	33.0	16.5	8.2	0.0
20°	164.8	140.1	107.1	82.4	57.7	49.5	41.2	24.7	8.2	0.0	0.0
22.5°	181.3	156.6	115.4	82.4	57.7	41.2	24.7	8.2	0.0	0.0	0.0
25°	214.3	164.8	115.4	82.4	57.7	41.2	16.5	0.0	0.0	0.0	0.0
27.5°	239.0	181.3	115.4	82.4	57.7	33.0	8.2	0.0	0.0	0.0	0.0
30°	280.2	197.8	123.6	82.4	57.7	24.7	8.2	0.0	0.0	0.0	0.0
32.5°	346.2	214.3	123.6	82.4	49.5	24.7	0.0	0.0	0.0	0.0	0.0
35°	420.3	247.3	123.6	82.4	49.5	24.7	0.0	0.0	0.0	0.0	0.0
37.5°	428.6	263.7	123.6	82.4	49.5	16.5	0.0	0.0	0.0	0.0	0.0
40°	445.1	247.3	131.9	82.4	49.5	16.5	0.0	0.0	0.0	0.0	0.0
42.5°	511.0	230.8	140.1	82.4	49.5	16.5	0.0	0.0	0.0	0.0	0.0
45°	758.2	239.0	140.1	90.7	49.5	24.7	0.0	0.0	0.0	0.0	0.0
47.5°	1318.7	247.3	131.9	90.7	49.5	24.7	0.0	0.0	0.0	0.0	0.0
50°	1689.6	288.5	131.9	98.9	57.7	16.5	0.0	0.0	0.0	0.0	0.0
52.5°	1796.7	337.9	131.9	107.1	74.2	8.2	0.0	0.0	0.0	0.0	0.0
55°	1747.2	395.6	140.1	115.4	90.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1615.4	428.6	148.4	123.6	98.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	1475.3	453.3	173.1	131.9	98.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1359.9	478.0	181.3	140.1	98.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1096.2	511.0	197.8	164.8	82.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	956.0	535.7	206.0	181.3	74.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	873.6	552.2	222.5	189.6	65.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	807.7	544.0	239.0	181.3	57.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	733.5	519.2	288.5	164.8	49.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	659.3	469.8	313.2	148.4	33.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	478.0	395.6	288.5	131.9	16.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.0	214.3	206.0	98.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.2	49.5	41.2	24.7	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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	41.2	41.2	41.2	41.2	49.5	49.5	65.9	82.4	98.9	107.1	107.1
5°	33.0	33.0	33.0	33.0	33.0	41.2	49.5	65.9	90.7	98.9	98.9
7.5°	24.7	24.7	24.7	24.7	24.7	24.7	41.2	57.7	82.4	90.7	98.9
10°	24.7	16.5	16.5	8.2	8.2	16.5	24.7	49.5	74.2	82.4	90.7
12.5°	16.5	8.2	8.2	0.0	0.0	8.2	16.5	41.2	65.9	74.2	82.4
15°	8.2	0.0	0.0	0.0	0.0	0.0	8.2	33.0	57.7	65.9	82.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	49.5	65.9	74.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	41.2	57.7	65.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	33.0	49.5	57.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	33.0	41.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	24.7	33.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	24.7	33.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5	24.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5	24.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5	16.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	16.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	115.4	115.4	107.1	98.9	98.9	98.9	107.1	115.4	115.4	115.4
5°	107.1	107.1	98.9	98.9	98.9	98.9	107.1	123.6	131.9	131.9
7.5°	107.1	107.1	98.9	98.9	98.9	98.9	107.1	123.6	131.9	140.1
10°	98.9	98.9	98.9	98.9	90.7	98.9	107.1	123.6	148.4	148.4
12.5°	98.9	98.9	98.9	98.9	90.7	98.9	115.4	131.9	156.6	164.8
15°	98.9	98.9	98.9	90.7	90.7	98.9	115.4	140.1	164.8	181.3
17.5°	90.7	98.9	98.9	90.7	90.7	98.9	115.4	140.1	181.3	206.0
20°	82.4	90.7	98.9	90.7	90.7	90.7	115.4	140.1	189.6	222.5
22.5°	74.2	82.4	90.7	90.7	82.4	90.7	115.4	148.4	206.0	247.3
25°	65.9	74.2	74.2	82.4	82.4	90.7	115.4	148.4	214.3	280.2
27.5°	49.5	57.7	65.9	74.2	74.2	90.7	115.4	156.6	230.8	346.2
30°	41.2	49.5	57.7	65.9	74.2	90.7	115.4	156.6	247.3	436.8
32.5°	41.2	49.5	57.7	65.9	74.2	82.4	115.4	164.8	272.0	544.0
35°	33.0	41.2	49.5	65.9	65.9	82.4	115.4	164.8	296.7	708.8
37.5°	33.0	41.2	49.5	65.9	65.9	82.4	115.4	164.8	362.6	791.2
40°	24.7	33.0	41.2	65.9	65.9	82.4	123.6	173.1	370.9	799.4
42.5°	24.7	33.0	41.2	57.7	65.9	82.4	123.6	173.1	346.2	824.2
45°	24.7	33.0	41.2	65.9	74.2	90.7	123.6	181.3	337.9	939.6
47.5°	24.7	33.0	41.2	65.9	82.4	90.7	123.6	181.3	346.2	1343.4
50°	24.7	33.0	41.2	65.9	90.7	90.7	123.6	181.3	379.1	2159.3
52.5°	16.5	24.7	33.0	57.7	74.2	98.9	131.9	173.1	403.8	2884.6
55°	16.5	16.5	24.7	49.5	65.9	107.1	140.1	173.1	469.8	3065.9
57.5°	16.5	16.5	24.7	41.2	57.7	115.4	148.4	173.1	544.0	2975.3
59°	16.5	16.5	24.7	41.2	57.7	115.4	148.4	173.1	544.0	2975.3
60°	16.5	16.5	16.5	33.0	49.5	115.4	156.6	189.6	560.4	2637.4
62.5°	8.2	8.2	8.2	33.0	41.2	115.4	173.1	230.8	576.9	2035.7
65°	16.5	16.5	8.2	24.7	41.2	98.9	197.8	247.3	585.2	1582.4
67.5°	16.5	16.5	16.5	33.0	41.2	98.9	206.0	255.5	585.2	1252.7
70°	16.5	16.5	16.5	33.0	49.5	98.9	206.0	263.7	576.9	1022.0
72.5°	16.5	16.5	16.5	33.0	49.5	90.7	189.6	272.0	552.2	865.4
75°	16.5	16.5	16.5	24.7	41.2	82.4	181.3	296.7	502.7	733.5
77.5°	16.5	16.5	16.5	16.5	33.0	65.9	164.8	329.7	445.1	593.4
80°	24.7	16.5	16.5	16.5	24.7	57.7	156.6	321.4	370.9	387.4
82.5°	24.7	16.5	16.5	8.2	16.5	41.2	123.6	247.3	189.6	173.1
85°	16.5	16.5	16.5	8.2	8.2	24.7	57.7	74.2	57.7	41.2
87.5°	16.5	16.5	16.5	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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

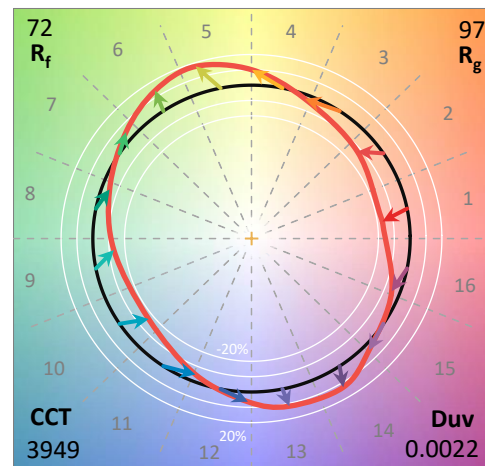
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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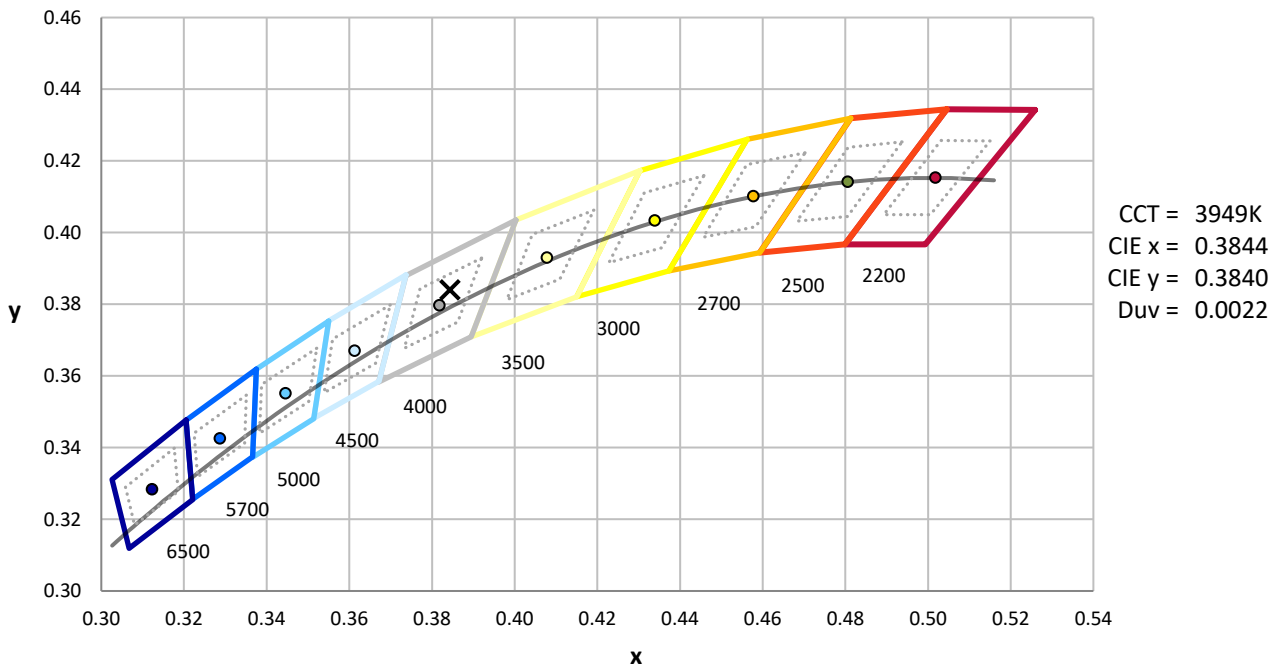
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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 $\text{W}^{\wedge}/\text{nm}$	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

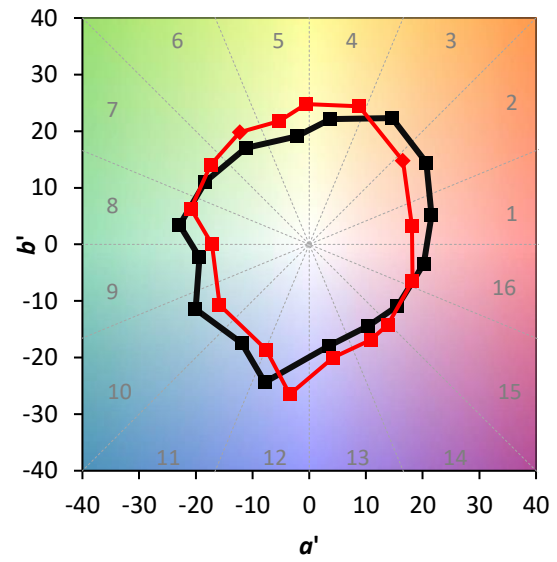
TM-30-18

Summary

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



Color Vector Graphics

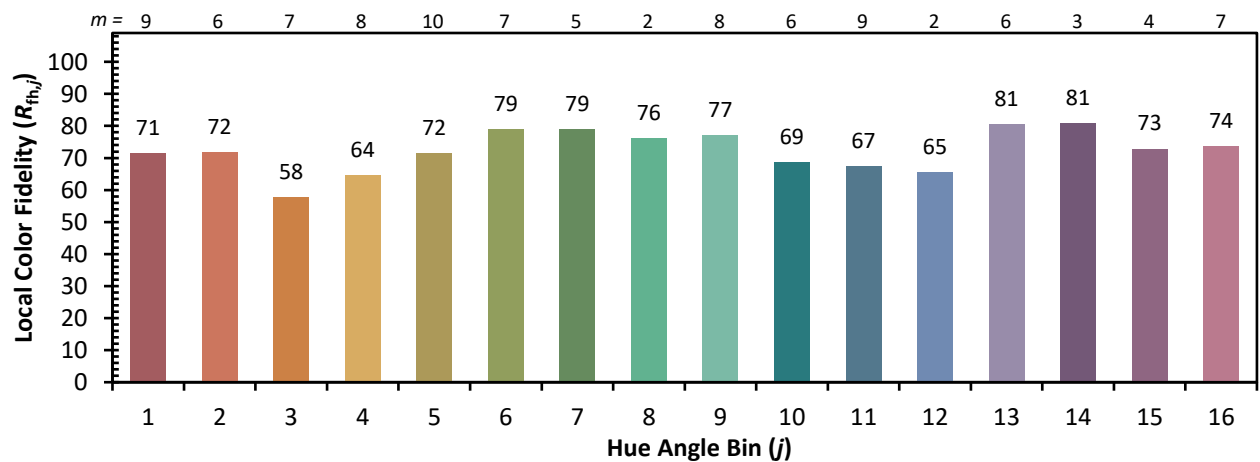
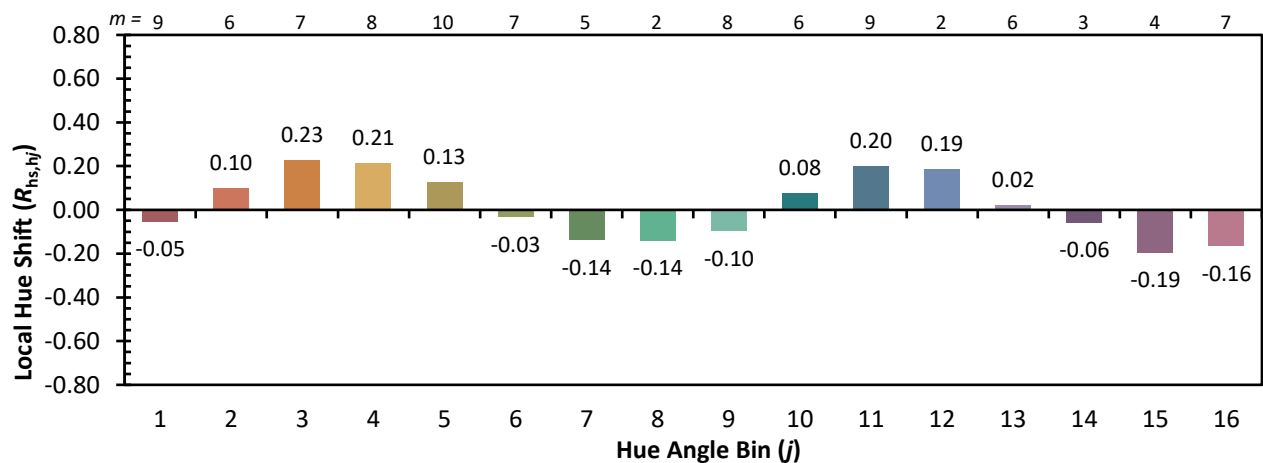


Individual Sample Fidelity Index ($R_{f,i}$)

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)