

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: P1068011

Luminaire Tested: **NAV-SA6C-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068011
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6C-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28626.6 lumens
Efficiency: N/A
Efficacy: 102.6 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): 279.1
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



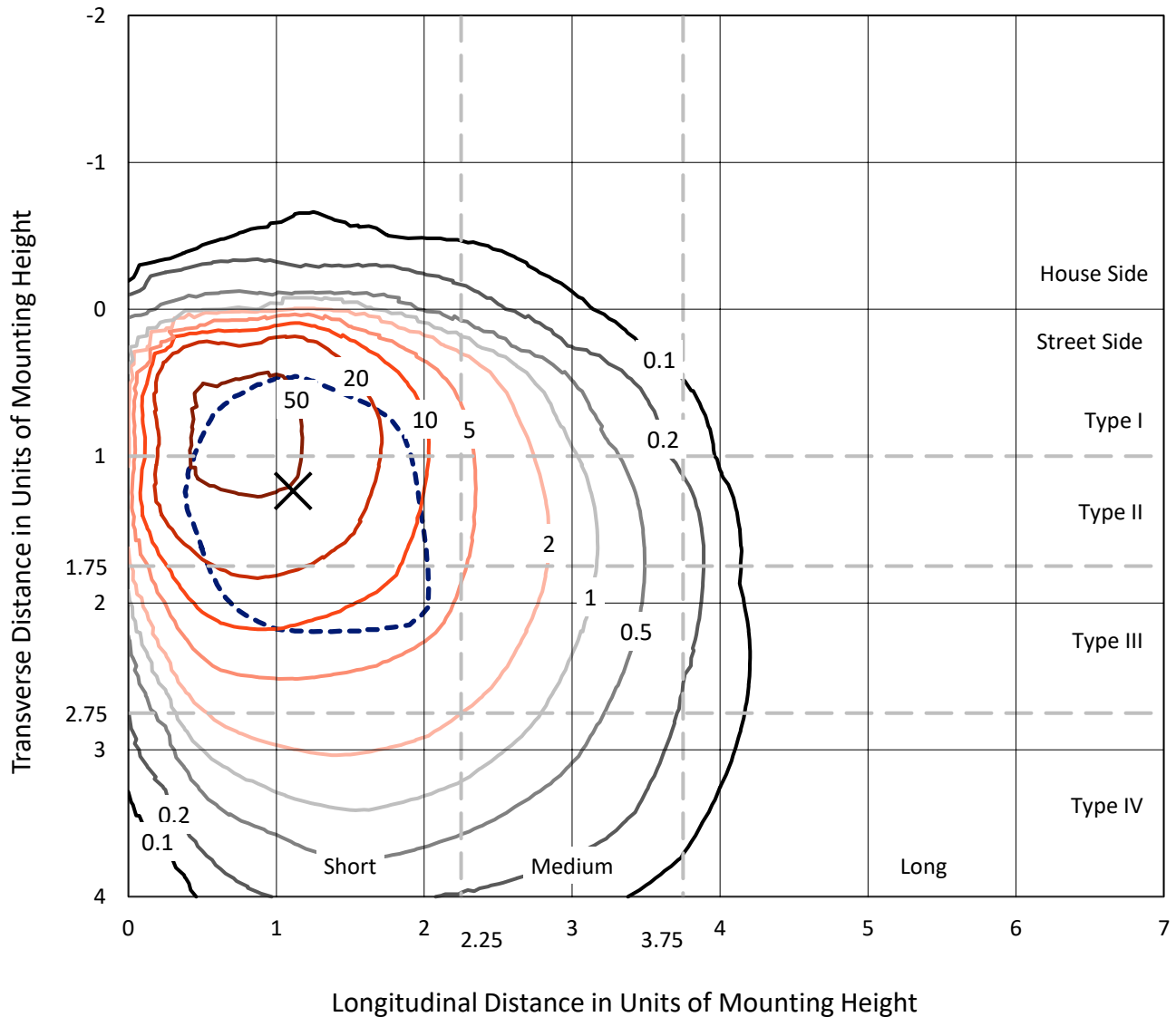
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

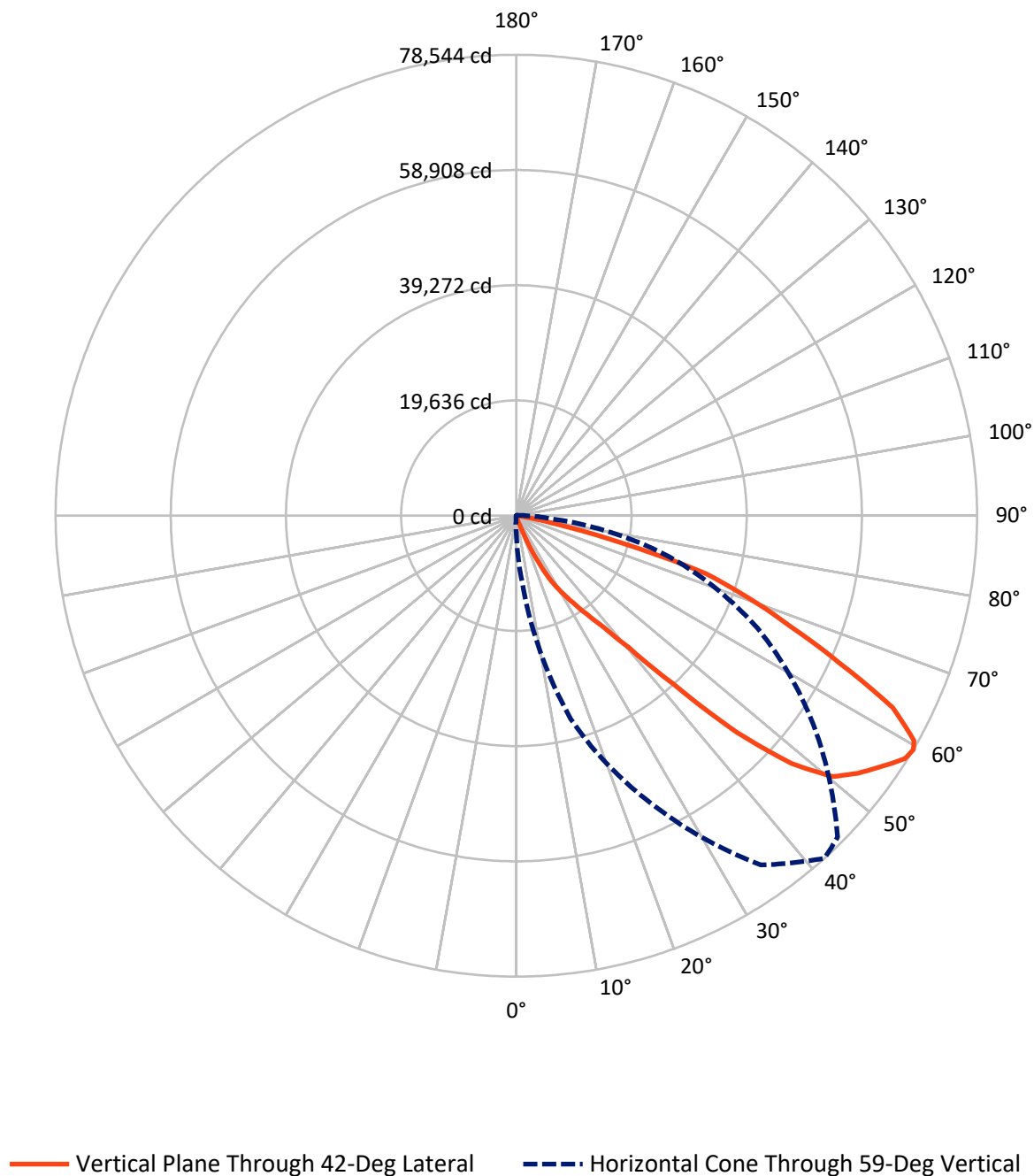


Based on 15 foot mounting height. Maximum calculated value = 85 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.9	0.0	137.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	28488.6	0.0	28488.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	28626.6	0.0	28626.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.0
10°-20°	41.7	0.1
20°-30°	534.0	1.9
30°-40°	1800.2	6.3
40°-50°	5437.5	19.0
50°-60°	9598.5	33.5
60°-70°	8451.7	29.5
70°-80°	2690.2	9.4
80°-90°	64.4	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°	28626.6	100.0
0°-180°	28626.6	100.0



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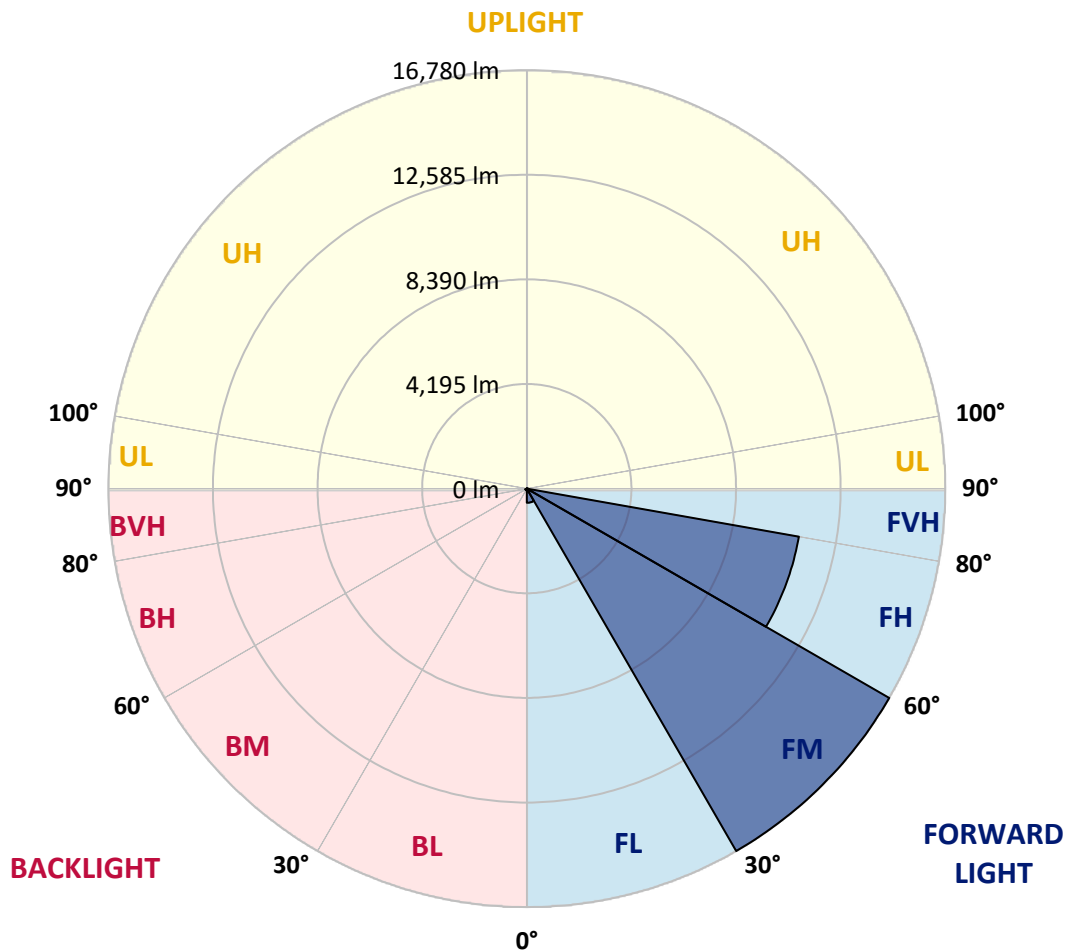
CATALOG NUMBER: NAV-SA6C-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.7	2.0			
FM	(30°-60°)	16779.9	58.6			
FH	(60°-80°)	11078.7	38.7			G4/12000
FVH	(80°-90°)	61.3	0.2			G1/100
BL	(0°-30°)	15.4	0.1	B0/110		
BM	(30°-60°)	56.4	0.2	B0/220		
BH	(60°-80°)	63.1	0.2	B0/110		G0/110
BVH	(80°-90°)	3.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2.5°	125.7	125.7	116.7	107.7	98.7	89.8	89.8	89.8	80.8	80.8	71.8
5°	143.6	143.6	134.6	125.7	125.7	116.7	116.7	107.7	98.7	98.7	89.8
7.5°	152.6	152.6	152.6	152.6	143.6	143.6	143.6	134.6	125.7	116.7	107.7
10°	161.6	170.5	179.5	179.5	179.5	179.5	179.5	170.5	152.6	143.6	125.7
12.5°	179.5	188.5	206.4	224.4	224.4	233.4	224.4	215.4	197.5	170.5	143.6
15°	197.5	215.4	242.3	278.2	314.1	323.1	323.1	296.2	260.3	206.4	170.5
17.5°	224.4	251.3	323.1	439.8	565.4	664.2	664.2	592.4	412.9	269.3	197.5
20°	242.3	296.2	520.6	1059.1	1615.6	2028.4	1947.7	1723.3	924.5	421.8	215.4
22.5°	269.3	377.0	1104.0	2782.4	4308.2	5062.1	4882.6	3706.8	2073.3	753.9	260.3
25°	305.2	547.5	2190.0	5214.7	8006.0	8822.8	8706.1	6920.0	3778.6	1265.5	332.1
27.5°	377.0	807.8	3509.4	7907.3	11811.6	12511.7	12466.8	10133.2	6040.4	2037.4	430.8
30°	475.7	1175.8	5205.7	10743.5	14333.7	15042.7	14818.3	12484.7	8149.6	3114.5	556.5
32.5°	592.4	1642.5	6740.5	12834.8	16658.3	17591.7	17322.5	14531.1	9846.0	4029.9	825.7
35°	771.9	2100.2	8257.3	14683.7	19341.9	20526.7	20077.9	16640.3	11309.0	5062.1	996.3
37.5°	861.6	2369.5	9648.5	16694.2	22357.7	23973.2	23632.2	19306.0	12798.9	6381.5	1220.7
40°	870.6	2692.6	11093.6	19315.0	26621.0	29502.1	28891.7	23883.5	15572.3	8077.8	1570.7
42.5°	897.5	3177.3	12969.4	23784.7	34995.0	39132.6	38441.5	32302.4	21864.0	11479.5	2225.9
45°	1023.2	4092.8	16792.9	32140.8	46492.4	52559.8	51761.0	44033.2	30650.9	17878.9	3796.6
47.5°	1463.0	6157.1	23497.5	41161.1	58250.2	63087.9	62890.5	53277.8	38612.1	24439.9	6435.3
50°	2351.5	9451.1	31126.6	48745.3	65735.6	69891.2	69397.6	57137.2	43153.6	28918.7	8248.4
52.5°	3141.4	12601.4	35919.4	51536.6	67970.5	72924.9	72323.6	58546.4	44347.3	30238.0	8751.0
55°	3338.8	13741.3	37346.5	52398.2	69451.4	75491.9	74621.3	59488.8	44499.9	29295.6	7916.3
57.5°	3240.1	12664.3	36422.1	53241.9	71515.8	78130.6	76972.8	61328.7	45011.5	27698.0	6587.9
59°	3069.6	11335.9	35847.6	53915.1	72655.7	78543.5	77457.5	61732.6	45352.6	26971.0	5780.1
60°	2872.1	10438.4	35398.9	54354.9	72583.9	77897.3	76775.4	61544.1	45487.2	26342.7	5394.2
62.5°	2216.9	8329.1	34752.7	54040.7	68051.3	72000.5	71363.2	56930.8	43512.6	24332.2	4254.3
65°	1723.3	6372.5	32383.2	48197.8	57909.1	60565.8	60368.4	48206.7	36619.5	20975.5	3069.6
67.5°	1364.3	4649.2	27383.9	39033.9	46591.2	50369.8	50226.2	39132.6	27796.7	16030.0	2207.9
70°	1112.9	3311.9	18776.5	29430.3	37265.8	42022.7	41816.3	31494.6	20598.5	10169.1	1606.6
72.5°	942.4	2118.2	11389.8	22187.1	31099.7	33819.2	33217.9	25409.3	14979.9	5537.8	1274.5
75°	798.8	1301.4	5645.5	13831.1	18525.2	18507.2	17905.9	13454.1	8041.9	2710.6	1014.2
77.5°	646.2	915.5	2216.9	3796.6	5843.0	7234.2	7117.5	4765.9	2405.4	789.8	628.3
80°	421.8	430.8	592.4	1041.1	1606.6	1777.1	2019.5	1454.0	700.1	377.0	260.3
82.5°	188.5	206.4	269.3	341.1	341.1	314.1	278.2	206.4	152.6	125.7	62.8
85°	44.9	62.8	44.9	53.9	44.9	35.9	35.9	18.0	0.0	0.0	0.0
87.5°	9.0	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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2.5°	71.8	71.8	71.8	62.8	62.8	62.8	53.9	53.9	53.9	44.9	44.9
5°	89.8	80.8	71.8	71.8	62.8	62.8	53.9	44.9	44.9	44.9	35.9
7.5°	98.7	89.8	80.8	71.8	62.8	53.9	53.9	44.9	35.9	35.9	35.9
10°	116.7	107.7	89.8	71.8	62.8	53.9	44.9	44.9	35.9	26.9	26.9
12.5°	134.6	116.7	98.7	80.8	62.8	53.9	44.9	44.9	35.9	26.9	18.0
15°	152.6	134.6	107.7	80.8	62.8	53.9	44.9	44.9	26.9	18.0	9.0
17.5°	170.5	143.6	107.7	89.8	62.8	53.9	44.9	35.9	18.0	9.0	0.0
20°	179.5	152.6	116.7	89.8	62.8	53.9	44.9	26.9	9.0	0.0	0.0
22.5°	197.5	170.5	125.7	89.8	62.8	44.9	26.9	9.0	0.0	0.0	0.0
25°	233.4	179.5	125.7	89.8	62.8	44.9	18.0	0.0	0.0	0.0	0.0
27.5°	260.3	197.5	125.7	89.8	62.8	35.9	9.0	0.0	0.0	0.0	0.0
30°	305.2	215.4	134.6	89.8	62.8	26.9	9.0	0.0	0.0	0.0	0.0
32.5°	377.0	233.4	134.6	89.8	53.9	26.9	0.0	0.0	0.0	0.0	0.0
35°	457.7	269.3	134.6	89.8	53.9	26.9	0.0	0.0	0.0	0.0	0.0
37.5°	466.7	287.2	134.6	89.8	53.9	18.0	0.0	0.0	0.0	0.0	0.0
40°	484.7	269.3	143.6	89.8	53.9	18.0	0.0	0.0	0.0	0.0	0.0
42.5°	556.5	251.3	152.6	89.8	53.9	18.0	0.0	0.0	0.0	0.0	0.0
45°	825.7	260.3	152.6	98.7	53.9	26.9	0.0	0.0	0.0	0.0	0.0
47.5°	1436.1	269.3	143.6	98.7	53.9	26.9	0.0	0.0	0.0	0.0	0.0
50°	1840.0	314.1	143.6	107.7	62.8	18.0	0.0	0.0	0.0	0.0	0.0
52.5°	1956.6	368.0	143.6	116.7	80.8	9.0	0.0	0.0	0.0	0.0	0.0
55°	1902.8	430.8	152.6	125.7	98.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1759.2	466.7	161.6	134.6	107.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1606.6	493.6	188.5	143.6	107.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1480.9	520.6	197.5	152.6	107.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1193.7	556.5	215.4	179.5	89.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1041.1	583.4	224.4	197.5	80.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	951.4	601.4	242.3	206.4	71.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	879.6	592.4	260.3	197.5	62.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	798.8	565.4	314.1	179.5	53.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	718.0	511.6	341.1	161.6	35.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	520.6	430.8	314.1	143.6	18.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	224.4	233.4	224.4	107.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	53.9	44.9	26.9	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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2.5°	44.9	44.9	44.9	44.9	53.9	53.9	71.8	89.8	107.7	116.7	116.7
5°	35.9	35.9	35.9	35.9	35.9	44.9	53.9	71.8	98.7	107.7	107.7
7.5°	26.9	26.9	26.9	26.9	26.9	26.9	44.9	62.8	89.8	98.7	107.7
10°	26.9	18.0	18.0	9.0	9.0	18.0	26.9	53.9	80.8	89.8	98.7
12.5°	18.0	9.0	9.0	0.0	0.0	9.0	18.0	44.9	71.8	80.8	89.8
15°	9.0	0.0	0.0	0.0	0.0	0.0	9.0	35.9	62.8	71.8	89.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	53.9	71.8	80.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	44.9	62.8	71.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	35.9	53.9	62.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	35.9	44.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	26.9	35.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	26.9	35.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	26.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	26.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	18.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2.5°	125.7	125.7	116.7	107.7	107.7	107.7	116.7	125.7	125.7	125.7
5°	116.7	116.7	107.7	107.7	107.7	107.7	116.7	134.6	143.6	143.6
7.5°	116.7	116.7	107.7	107.7	107.7	107.7	116.7	134.6	143.6	152.6
10°	107.7	107.7	107.7	107.7	98.7	107.7	116.7	134.6	161.6	161.6
12.5°	107.7	107.7	107.7	107.7	98.7	107.7	125.7	143.6	170.5	179.5
15°	107.7	107.7	107.7	98.7	98.7	107.7	125.7	152.6	179.5	197.5
17.5°	98.7	107.7	107.7	98.7	98.7	107.7	125.7	152.6	197.5	224.4
20°	89.8	98.7	107.7	98.7	98.7	98.7	125.7	152.6	206.4	242.3
22.5°	80.8	89.8	98.7	98.7	89.8	98.7	125.7	161.6	224.4	269.3
25°	71.8	80.8	80.8	89.8	89.8	98.7	125.7	161.6	233.4	305.2
27.5°	53.9	62.8	71.8	80.8	80.8	98.7	125.7	170.5	251.3	377.0
30°	44.9	53.9	62.8	71.8	80.8	98.7	125.7	170.5	269.3	475.7
32.5°	44.9	53.9	62.8	71.8	80.8	89.8	125.7	179.5	296.2	592.4
35°	35.9	44.9	53.9	71.8	71.8	89.8	125.7	179.5	323.1	771.9
37.5°	35.9	44.9	53.9	71.8	71.8	89.8	125.7	179.5	394.9	861.6
40°	26.9	35.9	44.9	71.8	71.8	89.8	134.6	188.5	403.9	870.6
42.5°	26.9	35.9	44.9	62.8	71.8	89.8	134.6	188.5	377.0	897.5
45°	26.9	35.9	44.9	71.8	80.8	98.7	134.6	197.5	368.0	1023.2
47.5°	26.9	35.9	44.9	71.8	89.8	98.7	134.6	197.5	377.0	1463.0
50°	26.9	35.9	44.9	71.8	98.7	98.7	134.6	197.5	412.9	2351.5
52.5°	18.0	26.9	35.9	62.8	80.8	107.7	143.6	188.5	439.8	3141.4
55°	18.0	18.0	26.9	53.9	71.8	116.7	152.6	188.5	511.6	3338.8
57.5°	18.0	18.0	26.9	44.9	62.8	125.7	161.6	188.5	592.4	3240.1
59°	18.0	18.0	18.0	35.9	53.9	125.7	170.5	206.4	610.3	2872.1
60°	18.0	18.0	18.0	35.9	53.9	125.7	170.5	206.4	610.3	2872.1
62.5°	9.0	9.0	9.0	35.9	44.9	125.7	188.5	251.3	628.3	2216.9
65°	18.0	18.0	9.0	26.9	44.9	107.7	215.4	269.3	637.3	1723.3
67.5°	18.0	18.0	18.0	35.9	44.9	107.7	224.4	278.2	637.3	1364.3
70°	18.0	18.0	18.0	35.9	53.9	107.7	224.4	287.2	628.3	1112.9
72.5°	18.0	18.0	18.0	35.9	53.9	98.7	206.4	296.2	601.4	942.4
75°	18.0	18.0	18.0	26.9	44.9	89.8	197.5	323.1	547.5	798.8
77.5°	18.0	18.0	18.0	18.0	35.9	71.8	179.5	359.0	484.7	646.2
80°	26.9	18.0	18.0	18.0	26.9	62.8	170.5	350.0	403.9	421.8
82.5°	26.9	18.0	18.0	9.0	18.0	44.9	134.6	269.3	206.4	188.5
85°	18.0	18.0	18.0	9.0	9.0	26.9	62.8	80.8	62.8	44.9
87.5°	18.0	18.0	18.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

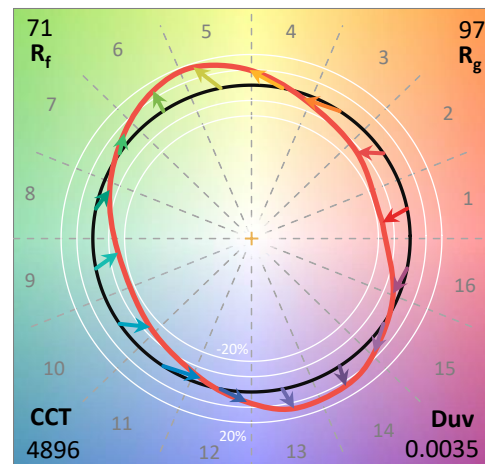
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

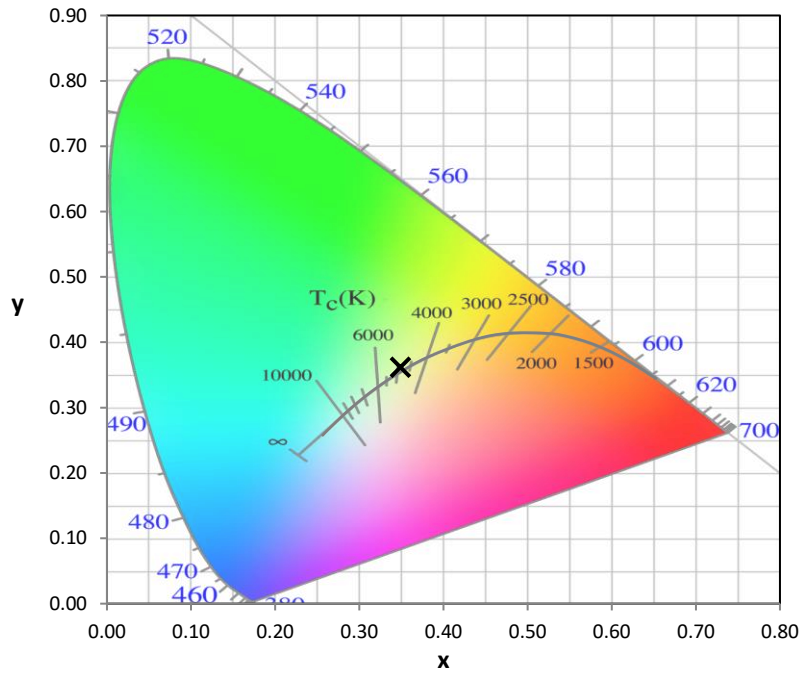
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

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



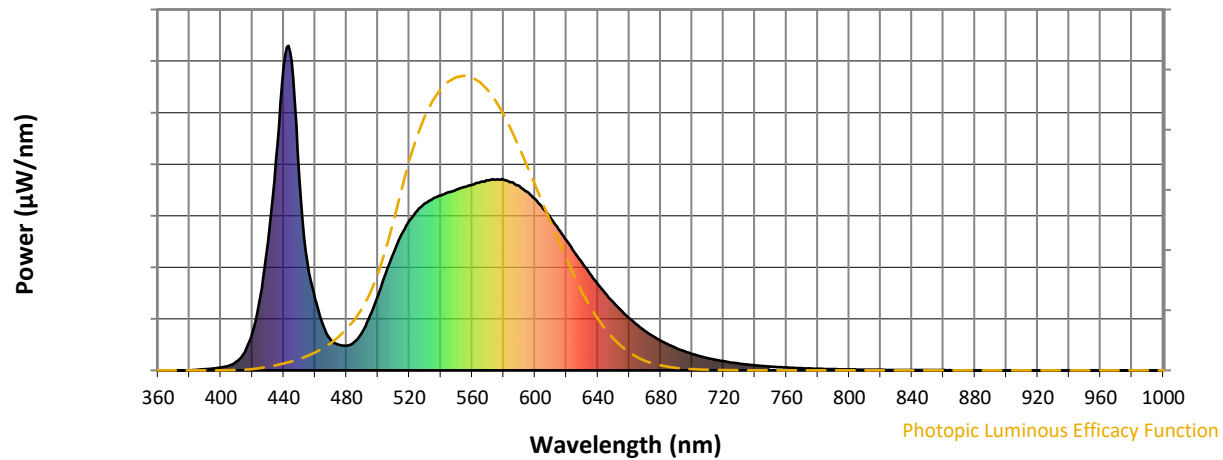
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



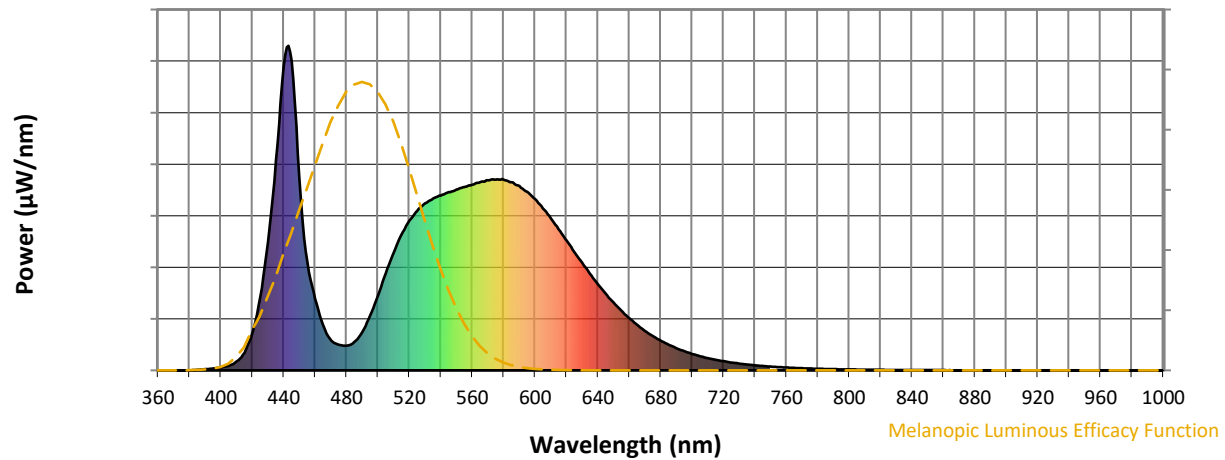
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

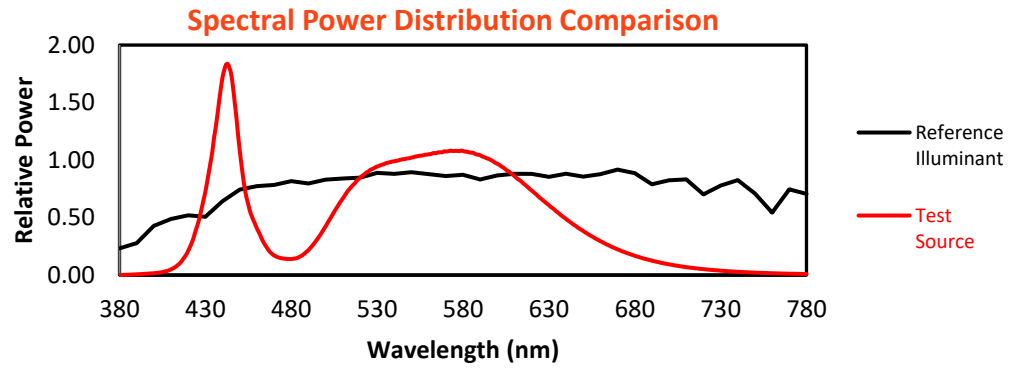
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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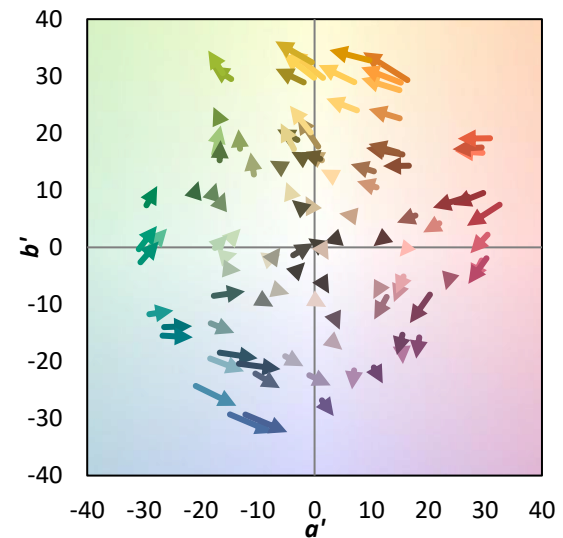
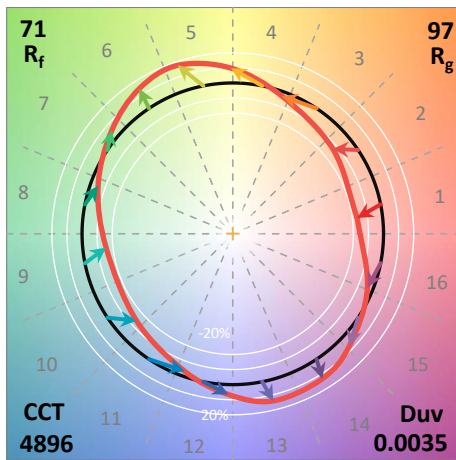
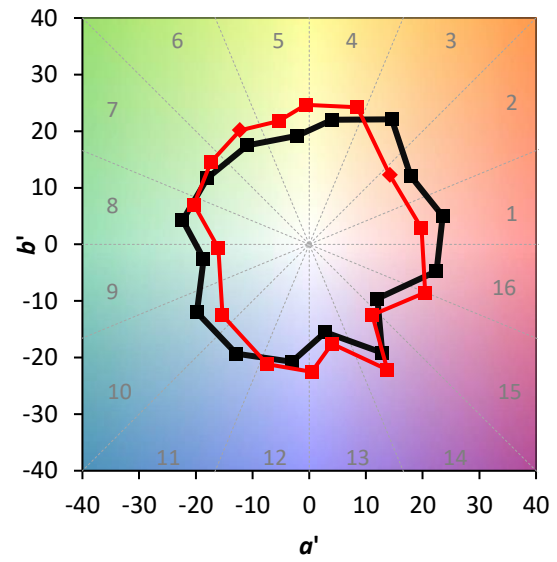
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$



Color Vector Graphics

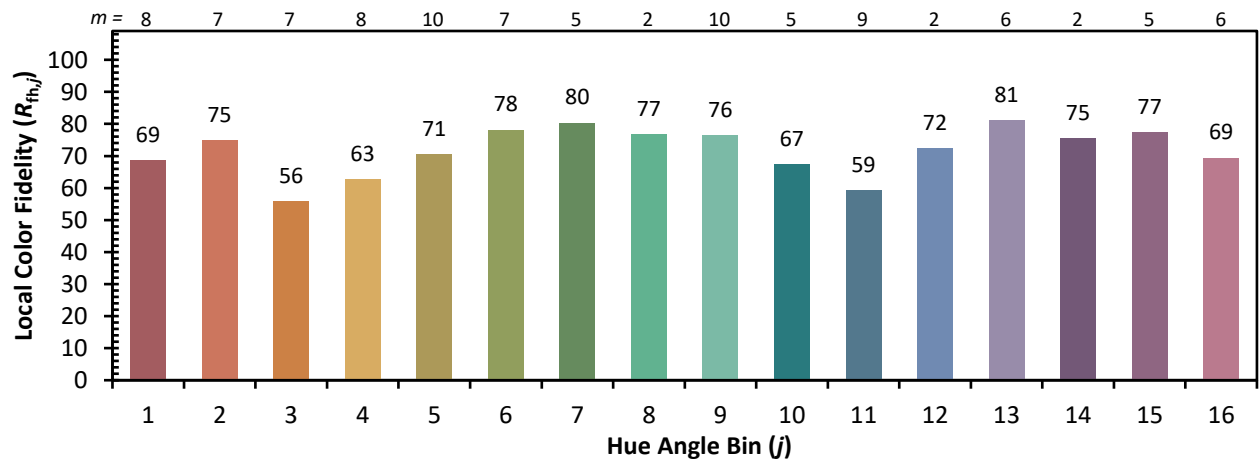
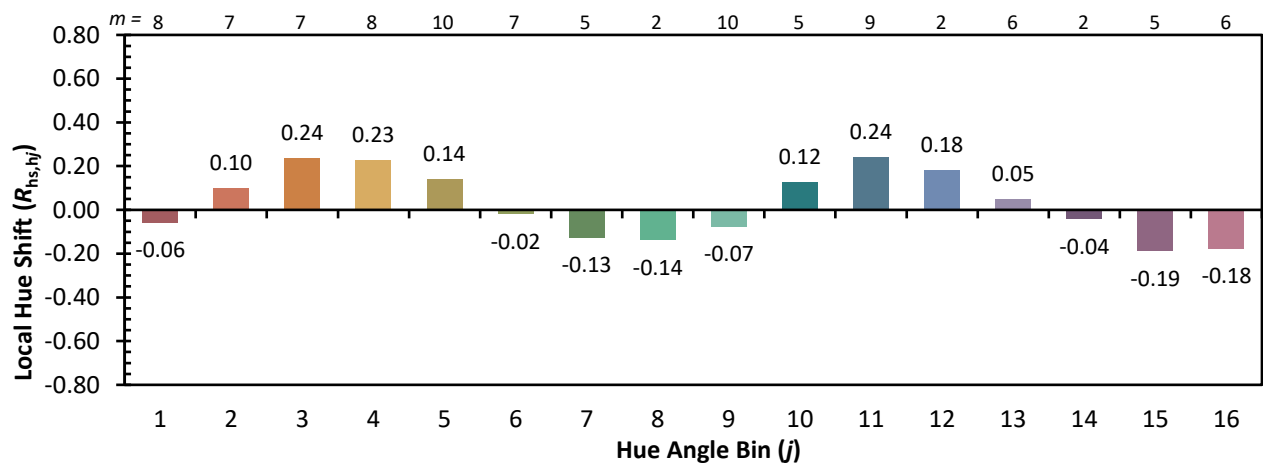
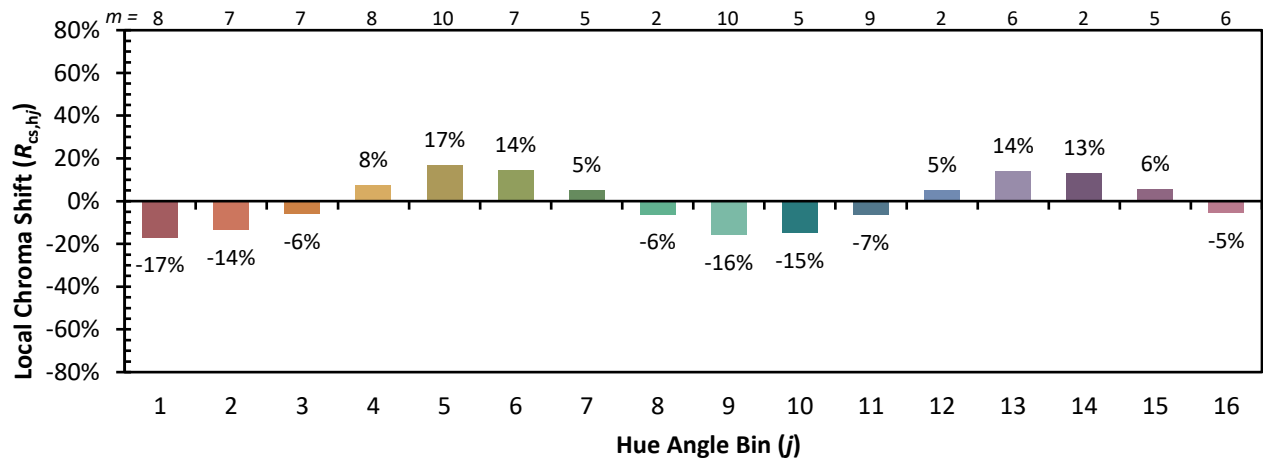


Individual Sample Fidelity Index ($R_{f,i}$)

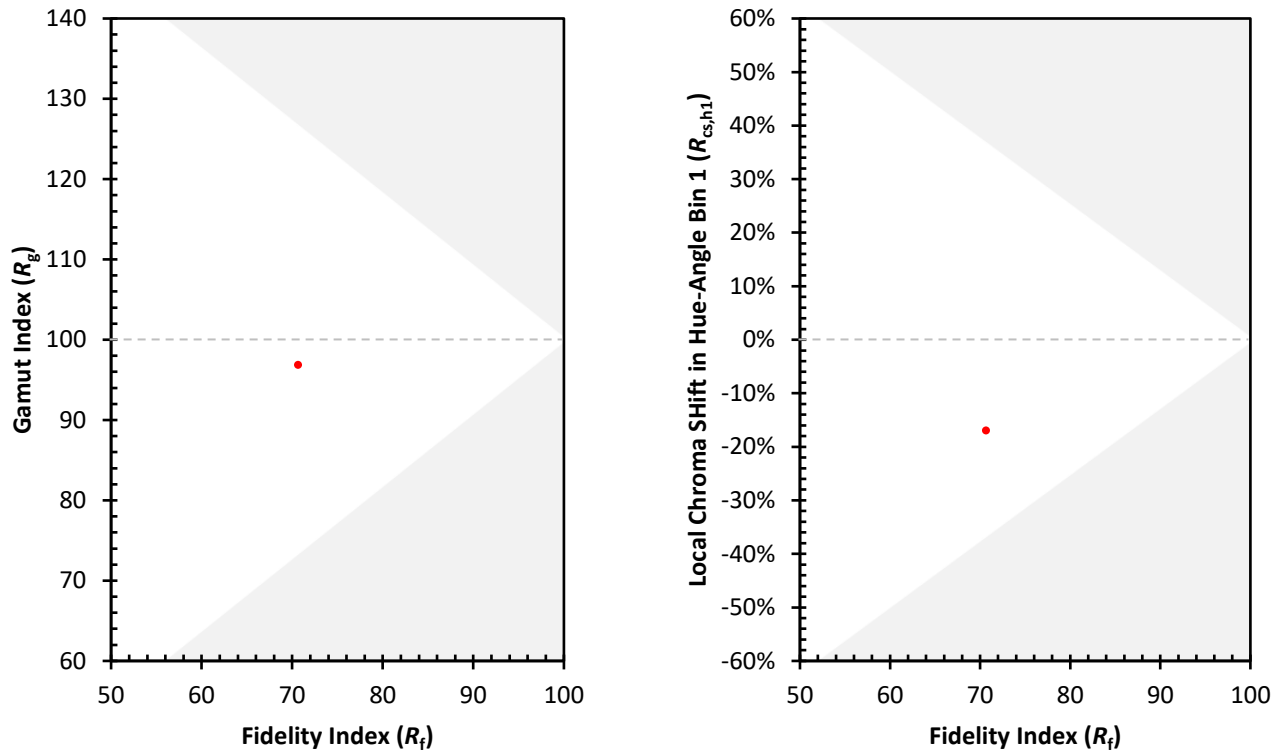
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)