

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: P1067999

Luminaire Tested: **NAV-SA3C-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067999
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14319.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
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

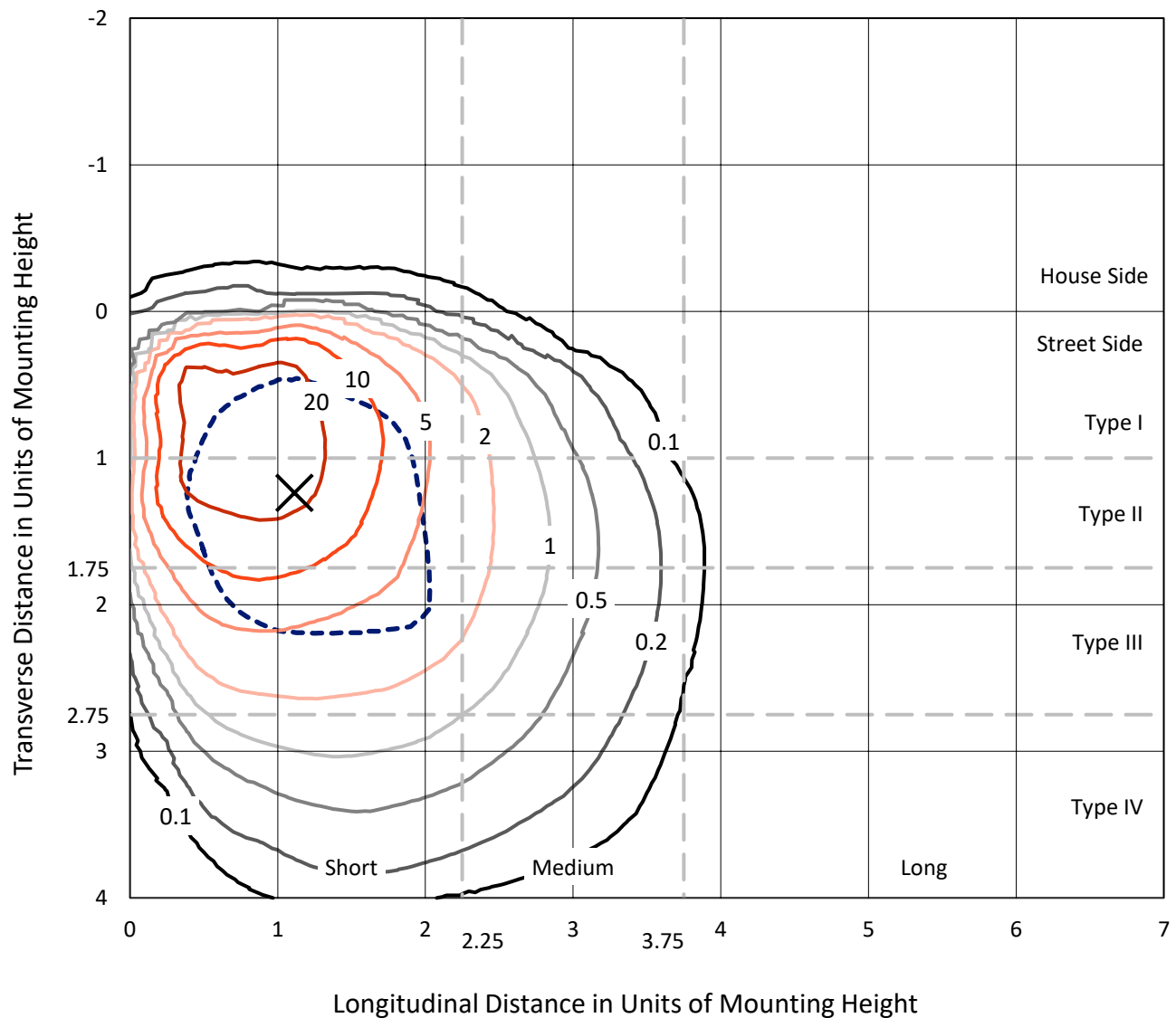


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

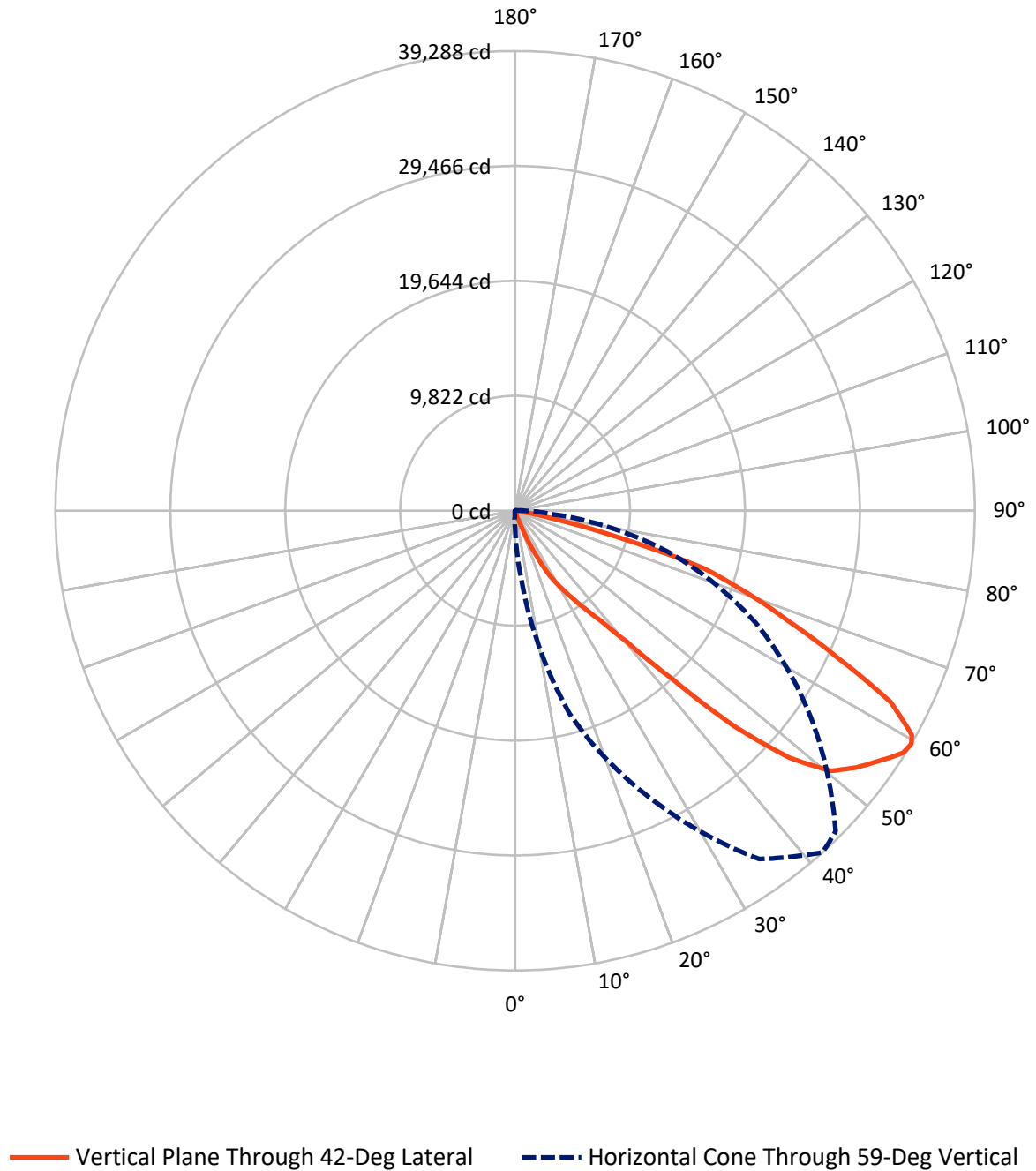


Based on 15 foot mounting height. Maximum calculated value = 42.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.0	0.0	69.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14250.1	0.0	14250.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	14319.1	0.0	14319.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.0
10°-20°	20.9	0.1
20°-30°	267.1	1.9
30°-40°	900.5	6.3
40°-50°	2719.9	19.0
50°-60°	4801.2	33.5
60°-70°	4227.5	29.5
70°-80°	1345.6	9.4
80°-90°	32.2	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°	14319.1	100.0
0°-180°	14319.1	100.0



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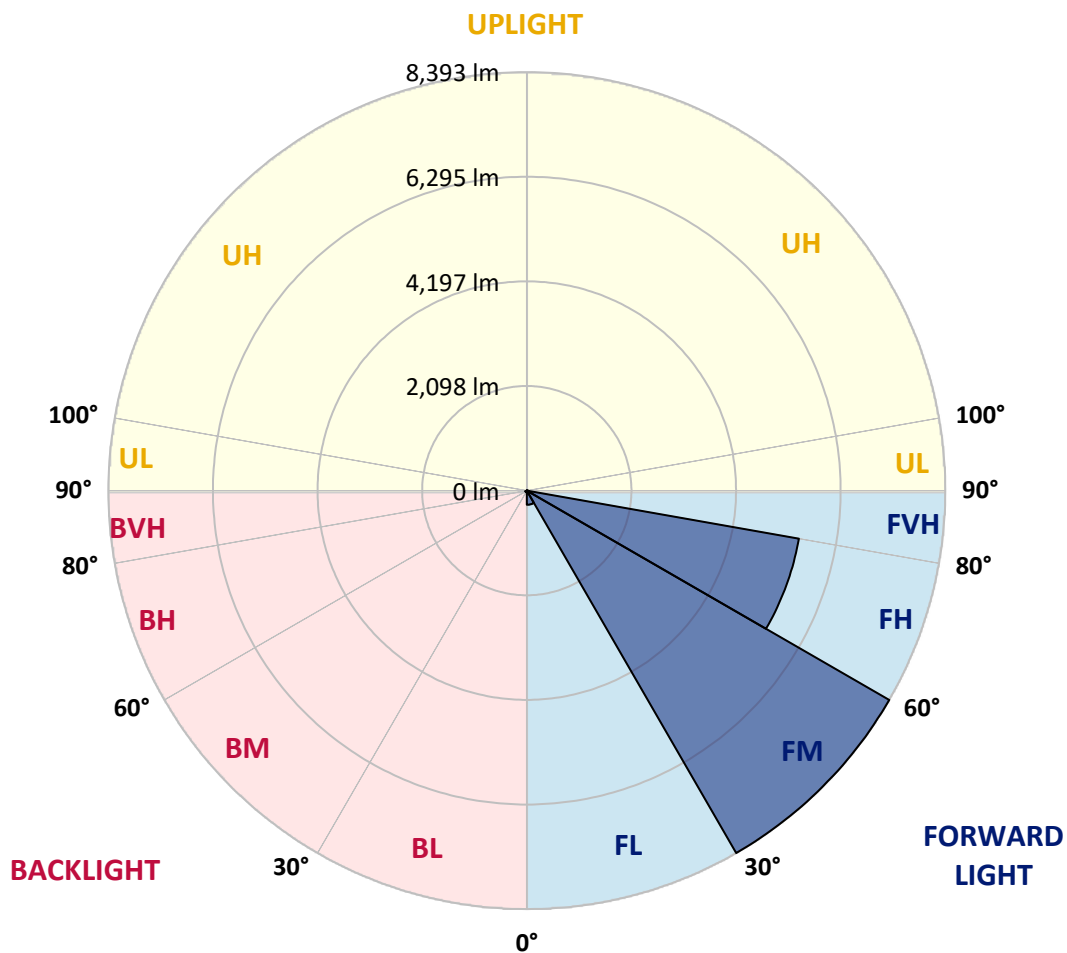
CATALOG NUMBER: NAV-SA3C-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.5	2.0			
FM	(30°-60°)	8393.4	58.6			
FH	(60°-80°)	5541.6	38.7			G3/7500
FVH	(80°-90°)	30.6	0.2			G1/100
BL	(0°-30°)	7.7	0.1	B0/110		
BM	(30°-60°)	28.2	0.2	B0/220		
BH	(60°-80°)	31.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
2.5°	62.9	62.9	58.4	53.9	49.4	44.9	44.9	44.9	40.4	40.4	35.9
5°	71.8	71.8	67.3	62.9	62.9	58.4	58.4	53.9	49.4	49.4	44.9
7.5°	76.3	76.3	76.3	76.3	71.8	71.8	71.8	67.3	62.9	58.4	53.9
10°	80.8	85.3	89.8	89.8	89.8	89.8	89.8	85.3	76.3	71.8	62.9
12.5°	89.8	94.3	103.3	112.2	112.2	116.7	112.2	107.7	98.8	85.3	71.8
15°	98.8	107.7	121.2	139.2	157.1	161.6	161.6	148.2	130.2	103.3	85.3
17.5°	112.2	125.7	161.6	220.0	282.8	332.2	332.2	296.3	206.5	134.7	98.8
20°	121.2	148.2	260.4	529.8	808.1	1014.6	974.2	862.0	462.4	211.0	107.7
22.5°	134.7	188.6	552.2	1391.7	2155.0	2532.1	2442.3	1854.2	1037.1	377.1	130.2
25°	152.6	273.9	1095.4	2608.4	4004.6	4413.2	4354.8	3461.4	1890.1	633.0	166.1
27.5°	188.6	404.1	1755.4	3955.3	5908.2	6258.4	6235.9	5068.6	3021.4	1019.1	215.5
30°	237.9	588.1	2603.9	5373.9	7169.7	7524.4	7412.2	6244.9	4076.5	1557.9	278.3
32.5°	296.3	821.6	3371.6	6420.0	8332.5	8799.4	8664.7	7268.5	4925.0	2015.8	413.0
35°	386.1	1050.5	4130.3	7344.8	9674.9	10267.5	10043.0	8323.5	5656.8	2532.1	498.3
37.5°	431.0	1185.2	4826.2	8350.5	11183.4	11991.5	11820.9	9656.9	6402.0	3192.0	610.6
40°	435.5	1346.9	5549.0	9661.4	13315.9	14757.0	14451.7	11946.6	7789.3	4040.6	785.7
42.5°	449.0	1589.3	6487.3	11897.2	17504.6	19574.2	19228.5	16157.7	10936.4	5742.1	1113.4
45°	511.8	2047.2	8399.9	16076.9	23255.6	26290.5	25891.0	22025.5	15331.7	8943.1	1899.1
47.5°	731.8	3079.8	11753.5	20588.9	29136.9	31556.7	31457.9	26649.7	19313.8	12224.9	3219.0
50°	1176.2	4727.4	15569.6	24382.5	32881.1	34959.8	34712.8	28580.2	21585.5	14465.2	4125.9
52.5°	1571.3	6303.3	17967.0	25778.7	33999.0	36477.2	36176.4	29285.0	22182.6	15125.1	4377.3
55°	1670.1	6873.4	18680.8	26209.7	34739.8	37761.2	37325.7	29756.4	22259.0	14653.7	3959.7
57.5°	1620.7	6334.7	18218.4	26631.7	35772.4	39081.1	38502.0	30676.8	22514.9	13854.6	3295.3
59°	1535.4	5670.2	17931.1	26968.4	36342.5	39287.6	38744.4	30878.8	22685.5	13491.0	2891.2
60°	1436.6	5221.3	17706.6	27188.4	36306.6	38964.4	38403.2	30784.5	22752.8	13176.7	2698.2
62.5°	1108.9	4166.3	17383.4	27031.3	34039.4	36014.8	35696.0	28476.9	21765.1	12171.0	2128.0
65°	862.0	3187.5	16198.1	24108.6	28966.3	30295.2	30196.4	24113.1	18317.2	10492.0	1535.4
67.5°	682.4	2325.6	13697.5	19524.8	23305.0	25195.1	25123.3	19574.2	13904.0	8018.3	1104.4
70°	556.7	1656.6	9392.0	14721.1	18640.4	21019.9	20916.6	15753.7	10303.4	5086.6	803.6
72.5°	471.4	1059.5	5697.2	11098.1	15556.1	16916.4	16615.6	12709.8	7493.0	2770.0	637.5
75°	399.6	651.0	2823.9	6918.3	9266.3	9257.4	8956.6	6729.8	4022.6	1355.8	507.3
77.5°	323.2	457.9	1108.9	1899.1	2922.7	3618.5	3560.2	2383.9	1203.2	395.1	314.3
80°	211.0	215.5	296.3	520.8	803.6	888.9	1010.1	727.3	350.2	188.6	130.2
82.5°	94.3	103.3	134.7	170.6	170.6	157.1	139.2	103.3	76.3	62.9	31.4
85°	22.4	31.4	22.4	26.9	22.4	18.0	18.0	9.0	0.0	0.0	0.0
87.5°	4.5	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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
2.5°	35.9	35.9	35.9	31.4	31.4	31.4	26.9	26.9	26.9	22.4	22.4
5°	44.9	40.4	35.9	35.9	31.4	31.4	26.9	22.4	22.4	22.4	18.0
7.5°	49.4	44.9	40.4	35.9	31.4	26.9	26.9	22.4	18.0	18.0	18.0
10°	58.4	53.9	44.9	35.9	31.4	26.9	22.4	22.4	18.0	13.5	13.5
12.5°	67.3	58.4	49.4	40.4	31.4	26.9	22.4	22.4	18.0	13.5	9.0
15°	76.3	67.3	53.9	40.4	31.4	26.9	22.4	22.4	13.5	9.0	4.5
17.5°	85.3	71.8	53.9	44.9	31.4	26.9	22.4	18.0	9.0	4.5	0.0
20°	89.8	76.3	58.4	44.9	31.4	26.9	22.4	13.5	4.5	0.0	0.0
22.5°	98.8	85.3	62.9	44.9	31.4	22.4	13.5	4.5	0.0	0.0	0.0
25°	116.7	89.8	62.9	44.9	31.4	22.4	9.0	0.0	0.0	0.0	0.0
27.5°	130.2	98.8	62.9	44.9	31.4	18.0	4.5	0.0	0.0	0.0	0.0
30°	152.6	107.7	67.3	44.9	31.4	13.5	4.5	0.0	0.0	0.0	0.0
32.5°	188.6	116.7	67.3	44.9	26.9	13.5	0.0	0.0	0.0	0.0	0.0
35°	229.0	134.7	67.3	44.9	26.9	13.5	0.0	0.0	0.0	0.0	0.0
37.5°	233.5	143.7	67.3	44.9	26.9	9.0	0.0	0.0	0.0	0.0	0.0
40°	242.4	134.7	71.8	44.9	26.9	9.0	0.0	0.0	0.0	0.0	0.0
42.5°	278.3	125.7	76.3	44.9	26.9	9.0	0.0	0.0	0.0	0.0	0.0
45°	413.0	130.2	76.3	49.4	26.9	13.5	0.0	0.0	0.0	0.0	0.0
47.5°	718.3	134.7	71.8	49.4	26.9	13.5	0.0	0.0	0.0	0.0	0.0
50°	920.3	157.1	71.8	53.9	31.4	9.0	0.0	0.0	0.0	0.0	0.0
52.5°	978.7	184.1	71.8	58.4	40.4	4.5	0.0	0.0	0.0	0.0	0.0
55°	951.8	215.5	76.3	62.9	49.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	879.9	233.5	80.8	67.3	53.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	803.6	246.9	94.3	71.8	53.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	740.8	260.4	98.8	76.3	53.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	597.1	278.3	107.7	89.8	44.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	520.8	291.8	112.2	98.8	40.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	475.9	300.8	121.2	103.3	35.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	440.0	296.3	130.2	98.8	31.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	399.6	282.8	157.1	89.8	26.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	359.2	255.9	170.6	80.8	18.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	260.4	215.5	157.1	71.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.2	116.7	112.2	53.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	26.9	22.4	13.5	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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
2.5°	22.4	22.4	22.4	22.4	26.9	26.9	35.9	44.9	53.9	58.4	58.4
5°	18.0	18.0	18.0	18.0	18.0	22.4	26.9	35.9	49.4	53.9	53.9
7.5°	13.5	13.5	13.5	13.5	13.5	13.5	22.4	31.4	44.9	49.4	53.9
10°	13.5	9.0	9.0	4.5	4.5	9.0	13.5	26.9	40.4	44.9	49.4
12.5°	9.0	4.5	4.5	0.0	0.0	4.5	9.0	22.4	35.9	40.4	44.9
15°	4.5	0.0	0.0	0.0	0.0	0.0	4.5	18.0	31.4	35.9	44.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	26.9	35.9	40.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.4	31.4	35.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	18.0	26.9	31.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	18.0	22.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	13.5	18.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	13.5	18.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	13.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	13.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	9.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
2.5°	62.9	62.9	58.4	53.9	53.9	53.9	58.4	62.9	62.9	62.9
5°	58.4	58.4	53.9	53.9	53.9	53.9	58.4	67.3	71.8	71.8
7.5°	58.4	58.4	53.9	53.9	53.9	53.9	58.4	67.3	71.8	76.3
10°	53.9	53.9	53.9	53.9	49.4	53.9	58.4	67.3	80.8	80.8
12.5°	53.9	53.9	53.9	53.9	49.4	53.9	62.9	71.8	85.3	89.8
15°	53.9	53.9	53.9	49.4	49.4	53.9	62.9	76.3	89.8	98.8
17.5°	49.4	53.9	53.9	49.4	49.4	53.9	62.9	76.3	98.8	112.2
20°	44.9	49.4	53.9	49.4	49.4	49.4	62.9	76.3	103.3	121.2
22.5°	40.4	44.9	49.4	49.4	44.9	49.4	62.9	80.8	112.2	134.7
25°	35.9	40.4	40.4	44.9	44.9	49.4	62.9	80.8	116.7	152.6
27.5°	26.9	31.4	35.9	40.4	40.4	49.4	62.9	85.3	125.7	188.6
30°	22.4	26.9	31.4	35.9	40.4	49.4	62.9	85.3	134.7	237.9
32.5°	22.4	26.9	31.4	35.9	40.4	44.9	62.9	89.8	148.2	296.3
35°	18.0	22.4	26.9	35.9	35.9	44.9	62.9	89.8	161.6	386.1
37.5°	18.0	22.4	26.9	35.9	35.9	44.9	62.9	89.8	197.5	431.0
40°	13.5	18.0	22.4	35.9	35.9	44.9	67.3	94.3	202.0	435.5
42.5°	13.5	18.0	22.4	31.4	35.9	44.9	67.3	94.3	188.6	449.0
45°	13.5	18.0	22.4	35.9	40.4	49.4	67.3	98.8	184.1	511.8
47.5°	13.5	18.0	22.4	35.9	44.9	49.4	67.3	98.8	188.6	731.8
50°	13.5	18.0	22.4	35.9	49.4	49.4	67.3	98.8	206.5	1176.2
52.5°	9.0	13.5	18.0	31.4	40.4	53.9	71.8	94.3	220.0	1571.3
55°	9.0	9.0	13.5	26.9	35.9	58.4	76.3	94.3	255.9	1670.1
57.5°	9.0	9.0	13.5	22.4	31.4	62.9	80.8	94.3	296.3	1620.7
59°	9.0	9.0	9.0	22.4	26.9	62.9	80.8	98.8	300.8	1535.4
60°	9.0	9.0	9.0	18.0	26.9	62.9	85.3	103.3	305.3	1436.6
62.5°	4.5	4.5	4.5	18.0	22.4	62.9	94.3	125.7	314.3	1108.9
65°	9.0	9.0	4.5	13.5	22.4	53.9	107.7	134.7	318.8	862.0
67.5°	9.0	9.0	9.0	18.0	22.4	53.9	112.2	139.2	318.8	682.4
70°	9.0	9.0	9.0	18.0	26.9	53.9	112.2	143.7	314.3	556.7
72.5°	9.0	9.0	9.0	18.0	26.9	49.4	103.3	148.2	300.8	471.4
75°	9.0	9.0	9.0	13.5	22.4	44.9	98.8	161.6	273.9	399.6
77.5°	9.0	9.0	9.0	9.0	18.0	35.9	89.8	179.6	242.4	323.2
80°	13.5	9.0	9.0	9.0	13.5	31.4	85.3	175.1	202.0	211.0
82.5°	13.5	9.0	9.0	4.5	9.0	22.4	67.3	134.7	103.3	94.3
85°	9.0	9.0	9.0	4.5	4.5	13.5	31.4	40.4	31.4	22.4
87.5°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

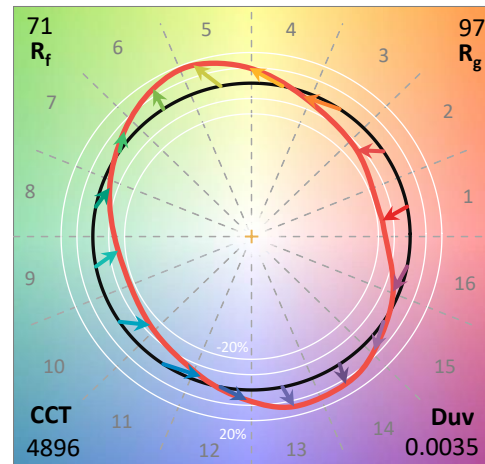
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

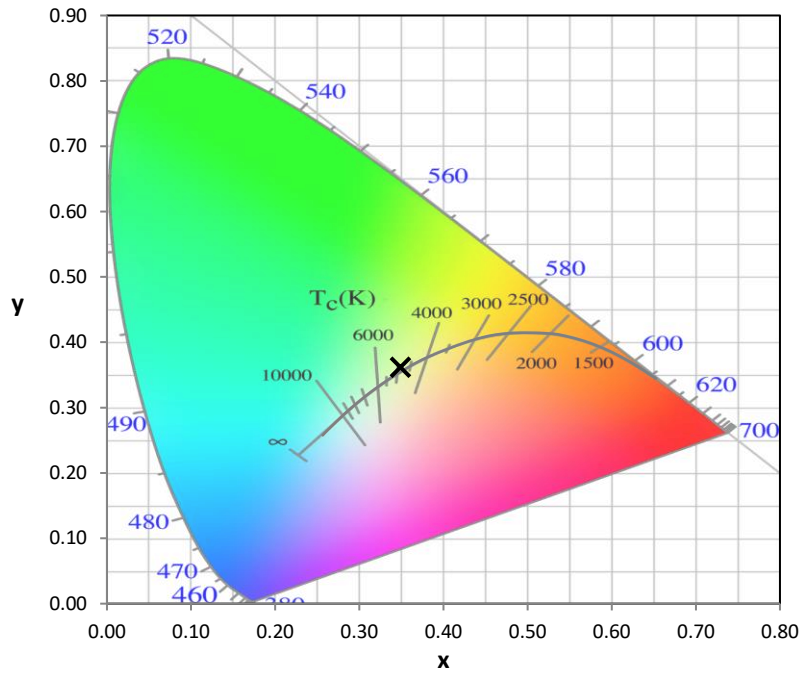
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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



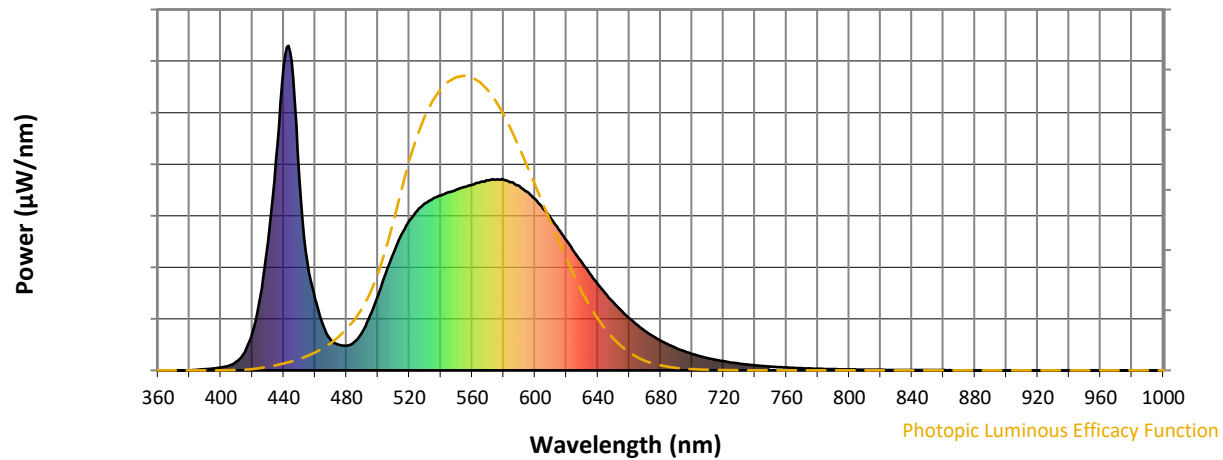
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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 W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



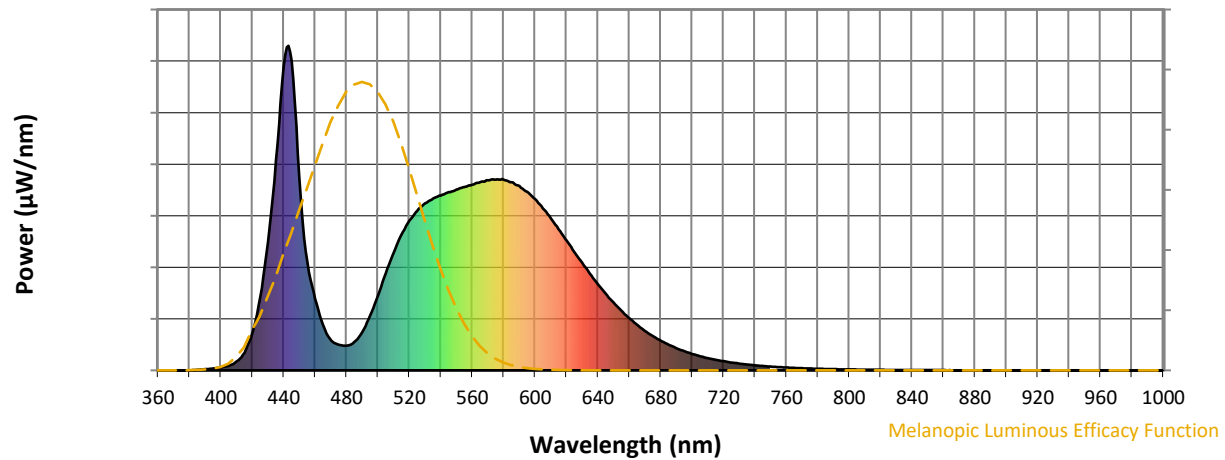
Scotopic Lumens: NR

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

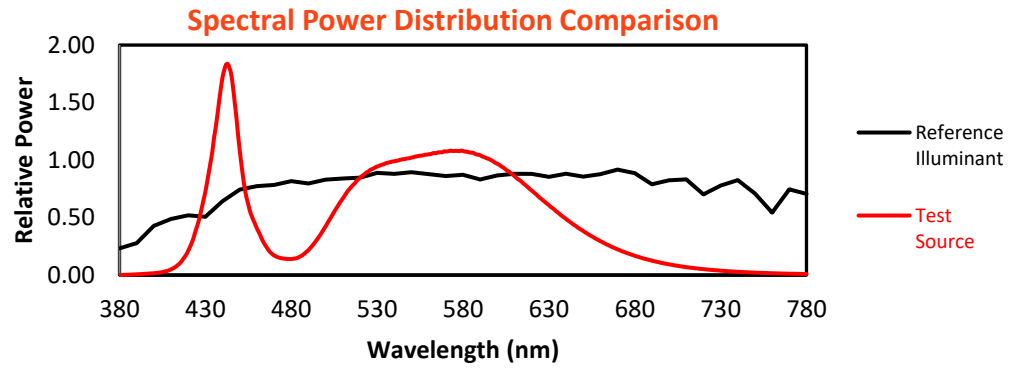
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	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			

REPORT NUMBER: SP1-2407-184-6

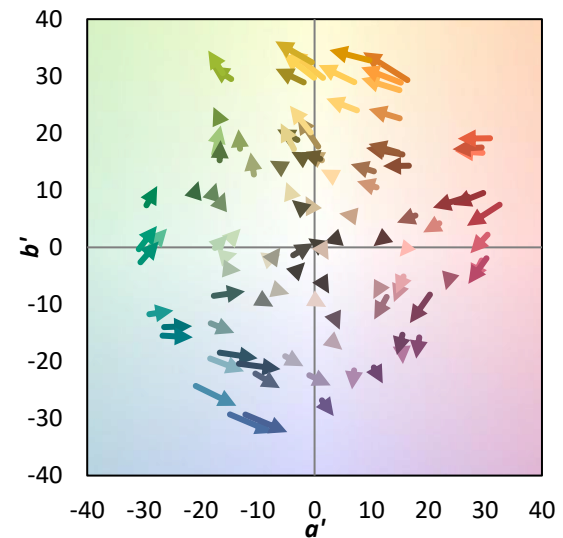
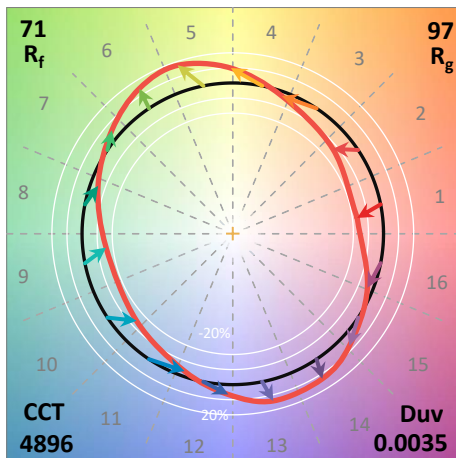
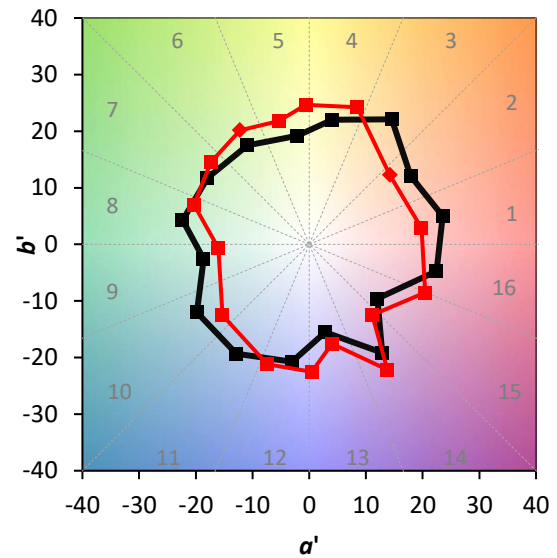
TM-30-18

Summary

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



Color Vector Graphics

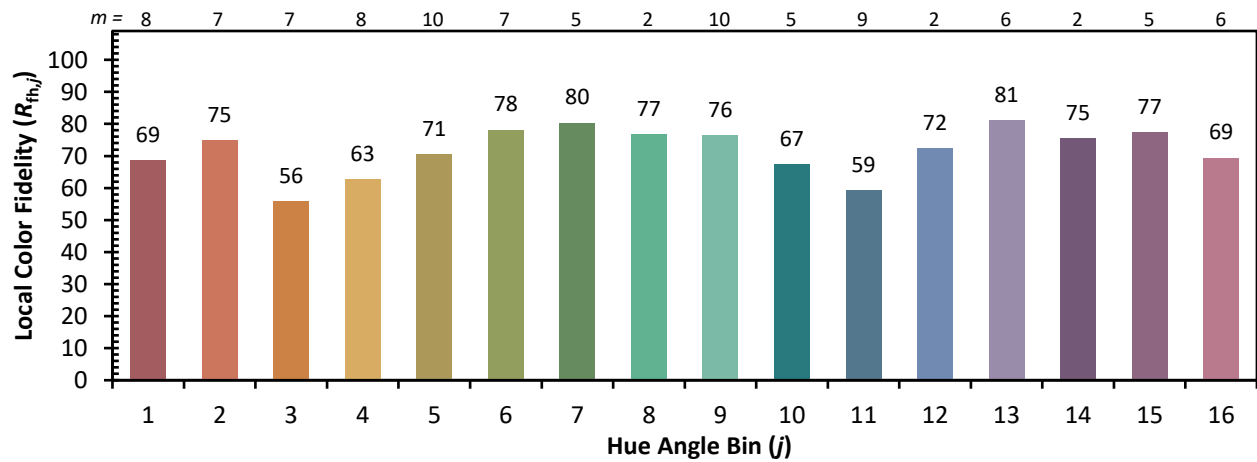
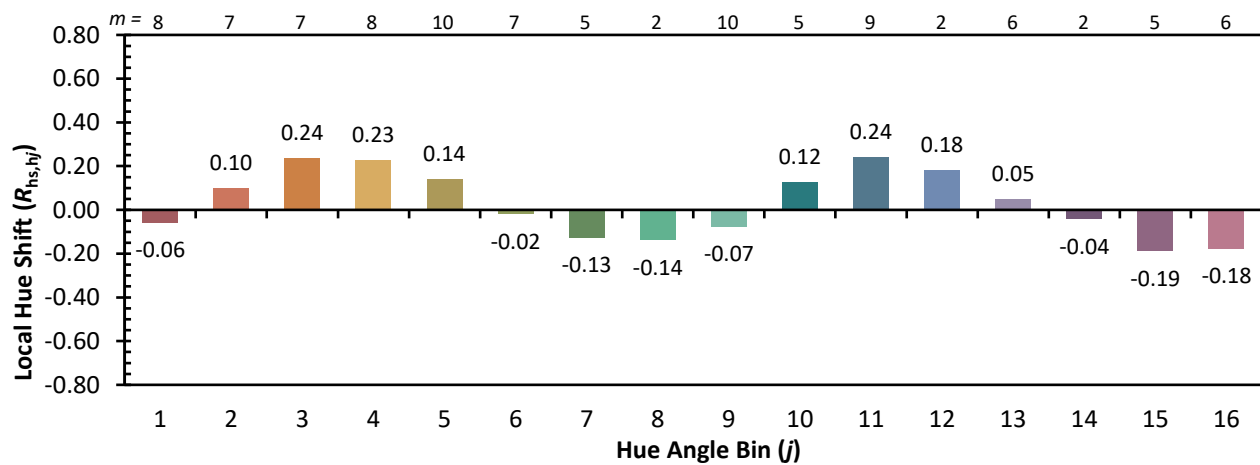
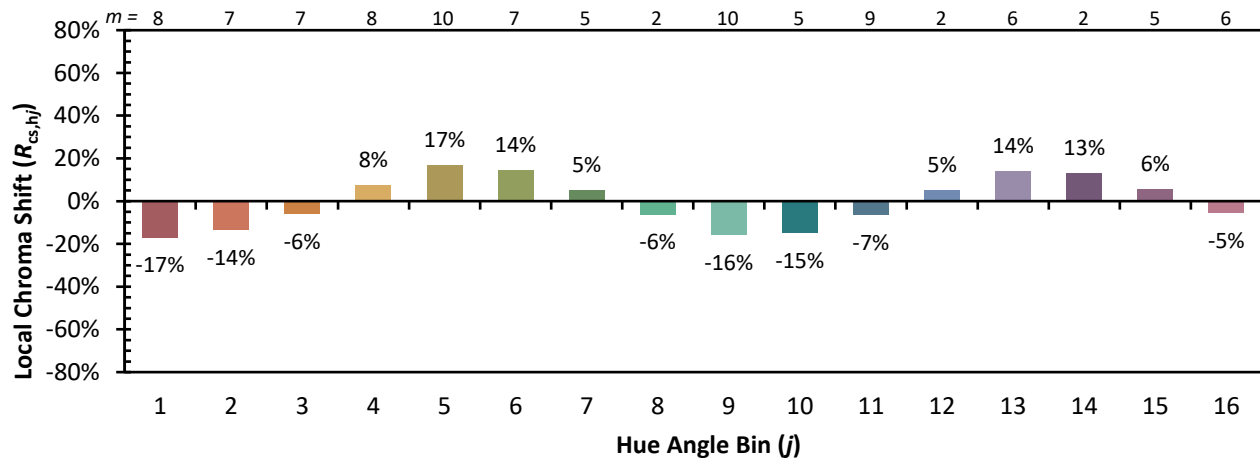


Individual Sample Fidelity Index ($R_{f,i}$)

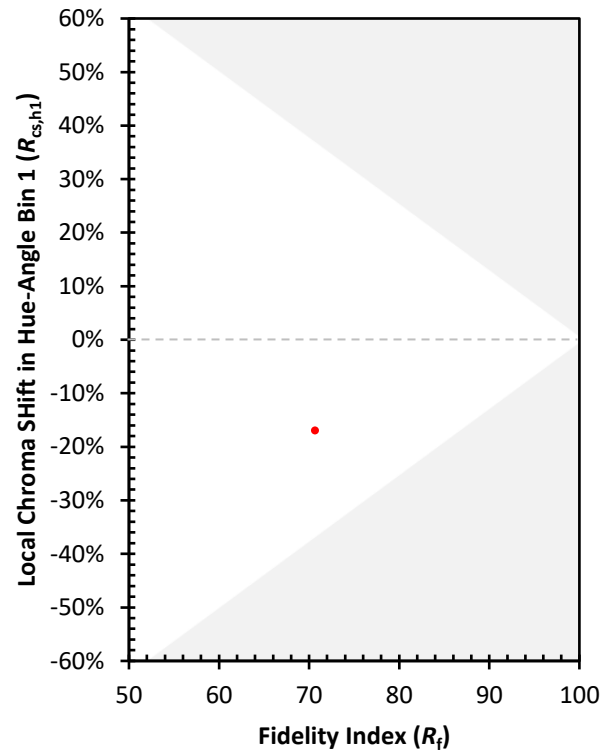
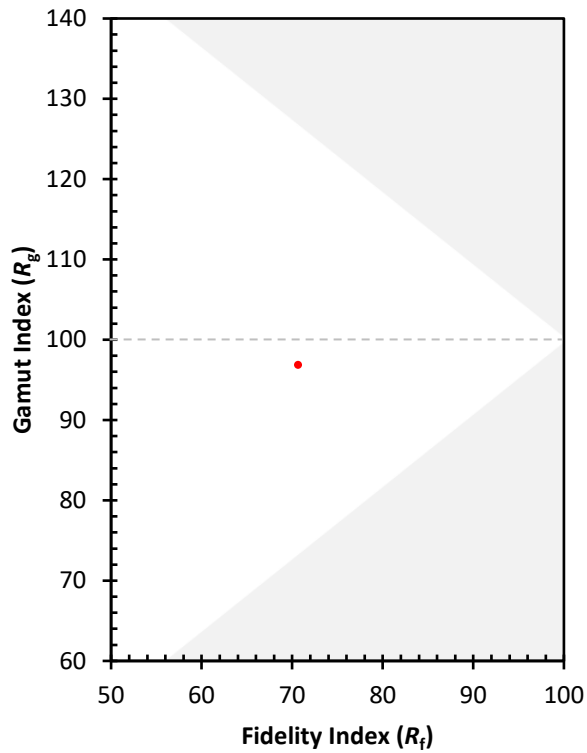
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)