

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: P1066743

Luminaire Tested: **NVN-SA1C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066743
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA1C-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4520.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.1
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



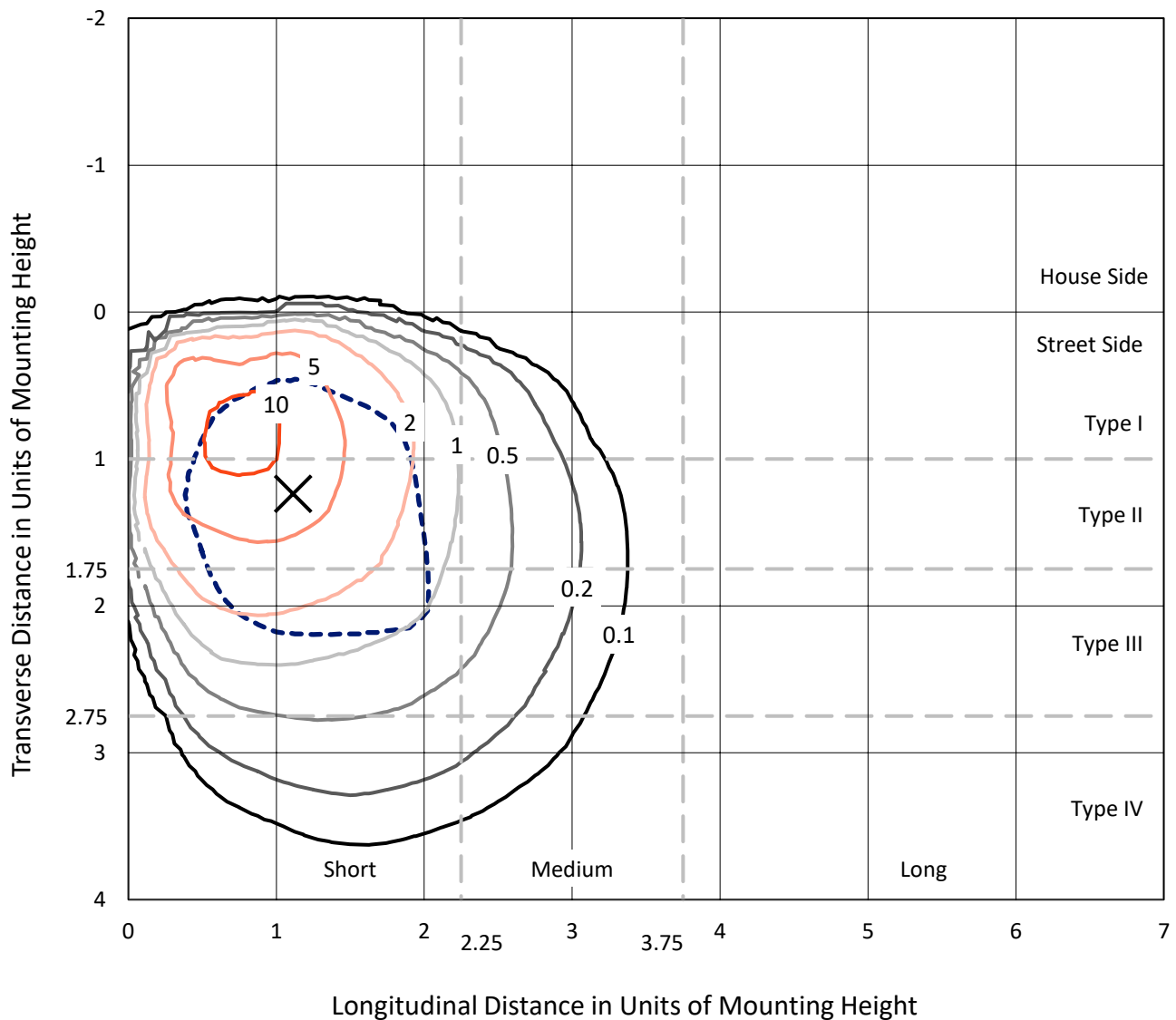
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

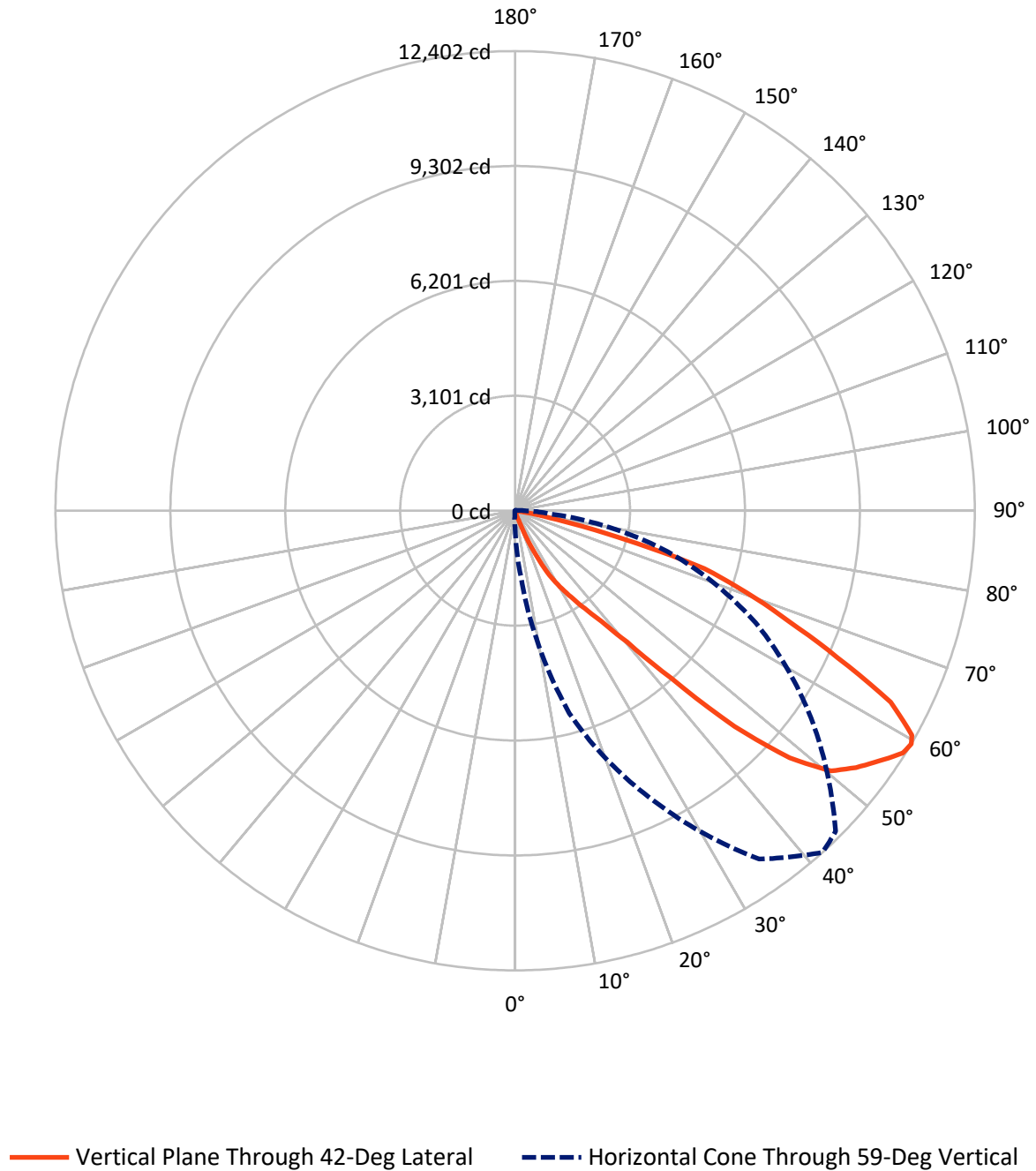


Based on 15 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21.8	0.0	21.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	4498.5	0.0	4498.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	4520.3	0.0	4520.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	6.6	0.1
20°-30°	84.3	1.9
30°-40°	284.3	6.3
40°-50°	858.6	19.0
50°-60°	1515.7	33.5
60°-70°	1334.6	29.5
70°-80°	424.8	9.4
80°-90°	10.2	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°	4520.3	100.0
0°-180°	4520.3	100.0



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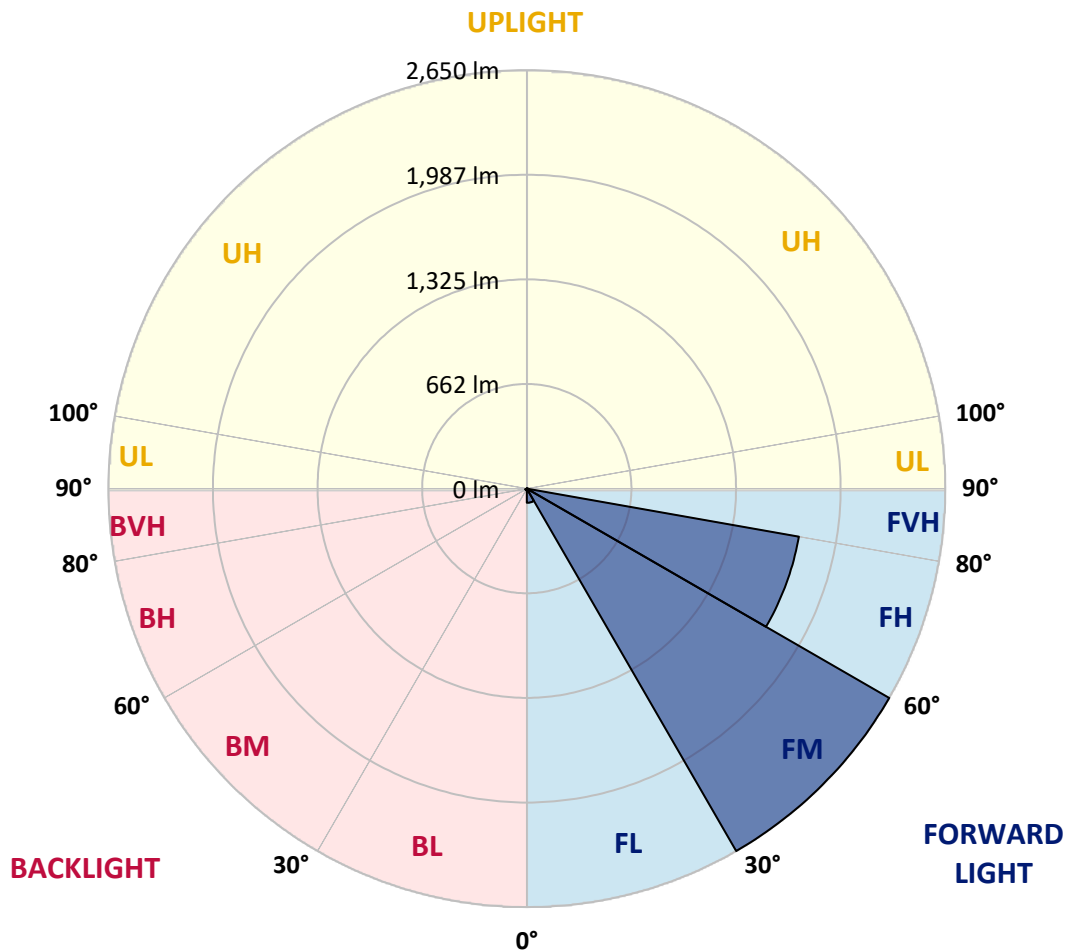
CATALOG NUMBER: NVN-SA1C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.8	2.0			
FM	(30°-60°)	2649.6	58.6			
FH	(60°-80°)	1749.4	38.7			G1/1800
FVH	(80°-90°)	9.7	0.2			G0/10
BL	(0°-30°)	2.4	0.1	B0/110		
BM	(30°-60°)	8.9	0.2	B0/220		
BH	(60°-80°)	10.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	19.8	19.8	18.4	17.0	15.6	14.2	14.2	14.2	12.8	12.8	11.3
5°	22.7	22.7	21.3	19.8	19.8	18.4	18.4	17.0	15.6	15.6	14.2
7.5°	24.1	24.1	24.1	24.1	22.7	22.7	22.7	21.3	19.8	18.4	17.0
10°	25.5	26.9	28.3	28.3	28.3	28.3	28.3	26.9	24.1	22.7	19.8
12.5°	28.3	29.8	32.6	35.4	35.4	36.8	35.4	34.0	31.2	26.9	22.7
15°	31.2	34.0	38.3	43.9	49.6	51.0	51.0	46.8	41.1	32.6	26.9
17.5°	35.4	39.7	51.0	69.4	89.3	104.9	104.9	93.5	65.2	42.5	31.2
20°	38.3	46.8	82.2	167.2	255.1	320.3	307.5	272.1	146.0	66.6	34.0
22.5°	42.5	59.5	174.3	439.3	680.3	799.3	771.0	585.3	327.4	119.0	41.1
25°	48.2	86.5	345.8	823.4	1264.2	1393.2	1374.7	1092.7	596.7	199.8	52.4
27.5°	59.5	127.6	554.1	1248.6	1865.1	1975.7	1968.6	1600.1	953.8	321.7	68.0
30°	75.1	185.7	822.0	1696.5	2263.4	2375.3	2339.9	1971.4	1286.9	491.8	87.9
32.5°	93.5	259.4	1064.4	2026.7	2630.4	2777.8	2735.3	2294.5	1554.7	636.3	130.4
35°	121.9	331.6	1303.9	2318.6	3054.2	3241.3	3170.4	2627.6	1785.7	799.3	157.3
37.5°	136.1	374.2	1523.5	2636.1	3530.4	3785.5	3731.6	3048.5	2021.0	1007.7	192.7
40°	137.5	425.2	1751.7	3049.9	4203.6	4658.5	4562.1	3771.3	2458.9	1275.5	248.0
42.5°	141.7	501.7	2047.9	3755.7	5525.9	6179.2	6070.1	5100.7	3452.4	1812.7	351.5
45°	161.6	646.3	2651.7	5075.2	7341.4	8299.4	8173.3	6953.1	4839.9	2823.2	599.5
47.5°	231.0	972.2	3710.4	6499.5	9198.0	9961.9	9930.7	8412.8	6097.0	3859.2	1016.2
50°	371.3	1492.4	4915.0	7697.1	10380.0	11036.2	10958.2	9022.3	6814.2	4566.4	1302.5
52.5°	496.0	1989.8	5671.9	8137.9	10732.9	11515.2	11420.2	9244.8	7002.7	4774.7	1381.8
55°	527.2	2169.8	5897.2	8273.9	10966.7	11920.5	11783.1	9393.6	7026.8	4625.9	1250.0
57.5°	511.6	1999.7	5751.2	8407.2	11292.7	12337.2	12154.4	9684.1	7107.5	4373.7	1040.3
59°	484.7	1790.0	5660.5	8513.5	11472.7	12402.4	12230.9	9747.9	7161.4	4258.9	912.7
60°	453.5	1648.3	5589.7	8582.9	11461.3	12300.4	12123.2	9718.1	7182.7	4159.6	851.8
62.5°	350.1	1315.2	5487.6	8533.3	10745.6	11369.2	11268.6	8989.7	6870.9	3842.2	671.8
65°	272.1	1006.3	5113.5	7610.7	9144.1	9563.6	9532.5	7612.1	5782.4	3312.1	484.7
67.5°	215.4	734.1	4324.0	6163.6	7357.0	7953.6	7931.0	6179.2	4389.2	2531.2	348.6
70°	175.7	523.0	2964.9	4647.2	5884.4	6635.6	6603.0	4973.2	3252.6	1605.8	253.7
72.5°	148.8	334.5	1798.5	3503.5	4910.8	5340.2	5245.3	4012.3	2365.4	874.4	201.3
75°	126.1	205.5	891.5	2184.0	2925.2	2922.4	2827.4	2124.5	1269.9	428.0	160.1
77.5°	102.0	144.6	350.1	599.5	922.6	1142.3	1123.9	752.6	379.8	124.7	99.2
80°	66.6	68.0	93.5	164.4	253.7	280.6	318.9	229.6	110.5	59.5	41.1
82.5°	29.8	32.6	42.5	53.9	53.9	49.6	43.9	32.6	24.1	19.8	9.9
85°	7.1	9.9	7.1	8.5	7.1	5.7	5.7	2.8	0.0	0.0	0.0
87.5°	1.4	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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	11.3	11.3	11.3	9.9	9.9	9.9	8.5	8.5	8.5	7.1	7.1
5°	14.2	12.8	11.3	11.3	9.9	9.9	8.5	7.1	7.1	7.1	5.7
7.5°	15.6	14.2	12.8	11.3	9.9	8.5	8.5	7.1	5.7	5.7	5.7
10°	18.4	17.0	14.2	11.3	9.9	8.5	7.1	7.1	5.7	4.3	4.3
12.5°	21.3	18.4	15.6	12.8	9.9	8.5	7.1	7.1	5.7	4.3	2.8
15°	24.1	21.3	17.0	12.8	9.9	8.5	7.1	7.1	4.3	2.8	1.4
17.5°	26.9	22.7	17.0	14.2	9.9	8.5	7.1	5.7	2.8	1.4	0.0
20°	28.3	24.1	18.4	14.2	9.9	8.5	7.1	4.3	1.4	0.0	0.0
22.5°	31.2	26.9	19.8	14.2	9.9	7.1	4.3	1.4	0.0	0.0	0.0
25°	36.8	28.3	19.8	14.2	9.9	7.1	2.8	0.0	0.0	0.0	0.0
27.5°	41.1	31.2	19.8	14.2	9.9	5.7	1.4	0.0	0.0	0.0	0.0
30°	48.2	34.0	21.3	14.2	9.9	4.3	1.4	0.0	0.0	0.0	0.0
32.5°	59.5	36.8	21.3	14.2	8.5	4.3	0.0	0.0	0.0	0.0	0.0
35°	72.3	42.5	21.3	14.2	8.5	4.3	0.0	0.0	0.0	0.0	0.0
37.5°	73.7	45.4	21.3	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
40°	76.5	42.5	22.7	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	87.9	39.7	24.1	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
45°	130.4	41.1	24.1	15.6	8.5	4.3	0.0	0.0	0.0	0.0	0.0
47.5°	226.8	42.5	22.7	15.6	8.5	4.3	0.0	0.0	0.0	0.0	0.0
50°	290.5	49.6	22.7	17.0	9.9	2.8	0.0	0.0	0.0	0.0	0.0
52.5°	309.0	58.1	22.7	18.4	12.8	1.4	0.0	0.0	0.0	0.0	0.0
55°	300.5	68.0	24.1	19.8	15.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	277.8	73.7	25.5	21.3	17.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	253.7	77.9	29.8	22.7	17.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	233.8	82.2	31.2	24.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	188.5	87.9	34.0	28.3	14.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	164.4	92.1	35.4	31.2	12.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	150.2	95.0	38.3	32.6	11.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	138.9	93.5	41.1	31.2	9.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	126.1	89.3	49.6	28.3	8.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	113.4	80.8	53.9	25.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	82.2	68.0	49.6	22.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.4	36.8	35.4	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	8.5	7.1	4.3	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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	7.1	7.1	7.1	7.1	8.5	8.5	11.3	14.2	17.0	18.4	18.4
5°	5.7	5.7	5.7	5.7	5.7	7.1	8.5	11.3	15.6	17.0	17.0
7.5°	4.3	4.3	4.3	4.3	4.3	4.3	7.1	9.9	14.2	15.6	17.0
10°	4.3	2.8	2.8	1.4	1.4	2.8	4.3	8.5	12.8	14.2	15.6
12.5°	2.8	1.4	1.4	0.0	0.0	1.4	2.8	7.1	11.3	12.8	14.2
15°	1.4	0.0	0.0	0.0	0.0	0.0	1.4	5.7	9.9	11.3	14.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5	11.3	12.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.1	9.9	11.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.7	8.5	9.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	5.7	7.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.3	5.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.3	5.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	19.8	19.8	18.4	17.0	17.0	17.0	18.4	19.8	19.8	19.8
5°	18.4	18.4	17.0	17.0	17.0	17.0	18.4	21.3	22.7	22.7
7.5°	18.4	18.4	17.0	17.0	17.0	17.0	18.4	21.3	22.7	24.1
10°	17.0	17.0	17.0	17.0	15.6	17.0	18.4	21.3	25.5	25.5
12.5°	17.0	17.0	17.0	17.0	15.6	17.0	19.8	22.7	26.9	28.3
15°	17.0	17.0	17.0	15.6	15.6	17.0	19.8	24.1	28.3	31.2
17.5°	15.6	17.0	17.0	15.6	15.6	17.0	19.8	24.1	31.2	35.4
20°	14.2	15.6	17.0	15.6	15.6	15.6	19.8	24.1	32.6	38.3
22.5°	12.8	14.2	15.6	15.6	14.2	15.6	19.8	25.5	35.4	42.5
25°	11.3	12.8	12.8	14.2	14.2	15.6	19.8	25.5	36.8	48.2
27.5°	8.5	9.9	11.3	12.8	12.8	15.6	19.8	26.9	39.7	59.5
30°	7.1	8.5	9.9	11.3	12.8	15.6	19.8	26.9	42.5	75.1
32.5°	7.1	8.5	9.9	11.3	12.8	14.2	19.8	28.3	46.8	93.5
35°	5.7	7.1	8.5	11.3	11.3	14.2	19.8	28.3	51.0	121.9
37.5°	5.7	7.1	8.5	11.3	11.3	14.2	19.8	28.3	62.4	136.1
40°	4.3	5.7	7.1	11.3	11.3	14.2	21.3	29.8	63.8	137.5
42.5°	4.3	5.7	7.1	9.9	11.3	14.2	21.3	29.8	59.5	141.7
45°	4.3	5.7	7.1	11.3	12.8	15.6	21.3	31.2	58.1	161.6
47.5°	4.3	5.7	7.1	11.3	14.2	15.6	21.3	31.2	59.5	231.0
50°	4.3	5.7	7.1	11.3	15.6	15.6	21.3	31.2	65.2	371.3
52.5°	2.8	4.3	5.7	9.9	12.8	17.0	22.7	29.8	69.4	496.0
55°	2.8	2.8	4.3	8.5	11.3	18.4	24.1	29.8	80.8	527.2
57.5°	2.8	2.8	4.3	7.1	9.9	19.8	25.5	29.8	93.5	511.6
59°	2.8	2.8	2.8	7.1	8.5	19.8	25.5	31.2	95.0	484.7
60°	2.8	2.8	2.8	5.7	8.5	19.8	26.9	32.6	96.4	453.5
62.5°	1.4	1.4	1.4	5.7	7.1	19.8	29.8	39.7	99.2	350.1
65°	2.8	2.8	1.4	4.3	7.1	17.0	34.0	42.5	100.6	272.1
67.5°	2.8	2.8	2.8	5.7	7.1	17.0	35.4	43.9	100.6	215.4
70°	2.8	2.8	2.8	5.7	8.5	17.0	35.4	45.4	99.2	175.7
72.5°	2.8	2.8	2.8	5.7	8.5	15.6	32.6	46.8	95.0	148.8
75°	2.8	2.8	2.8	4.3	7.1	14.2	31.2	51.0	86.5	126.1
77.5°	2.8	2.8	2.8	2.8	5.7	11.3	28.3	56.7	76.5	102.0
80°	4.3	2.8	2.8	2.8	4.3	9.9	26.9	55.3	63.8	66.6
82.5°	4.3	2.8	2.8	1.4	2.8	7.1	21.3	42.5	32.6	29.8
85°	2.8	2.8	2.8	1.4	1.4	4.3	9.9	12.8	9.9	7.1
87.5°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

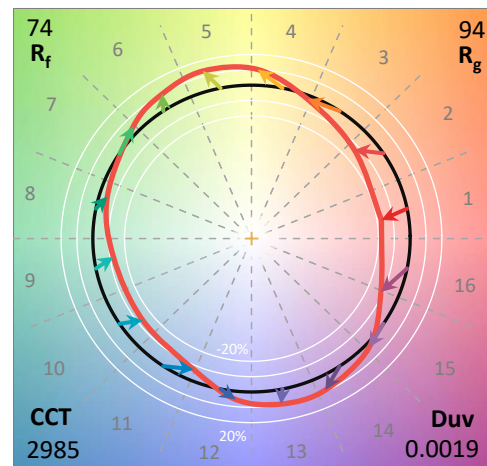
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

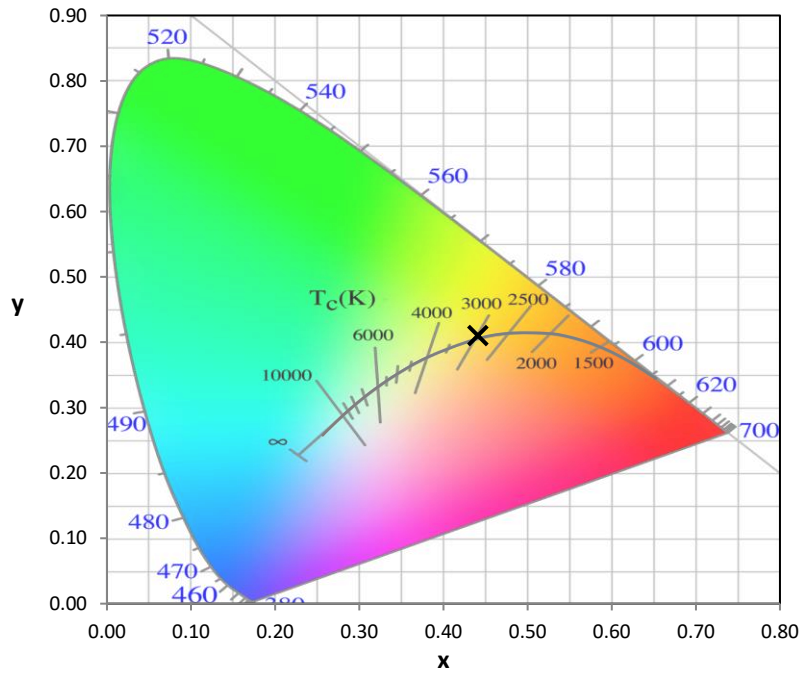
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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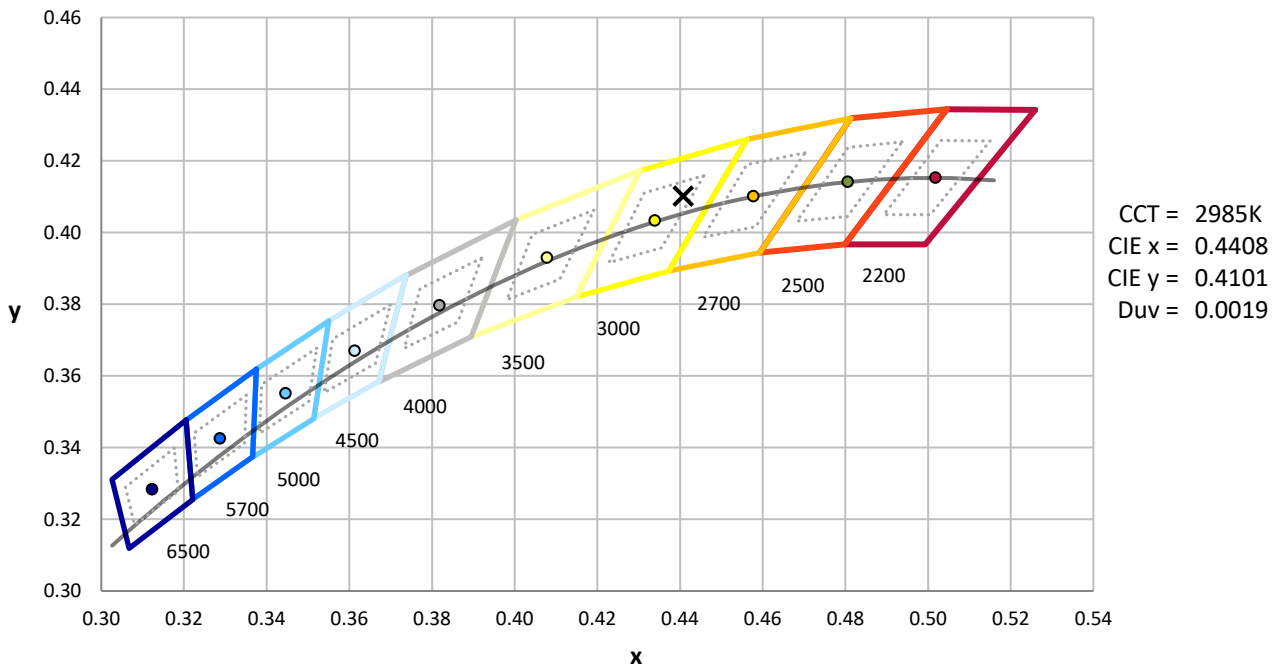
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

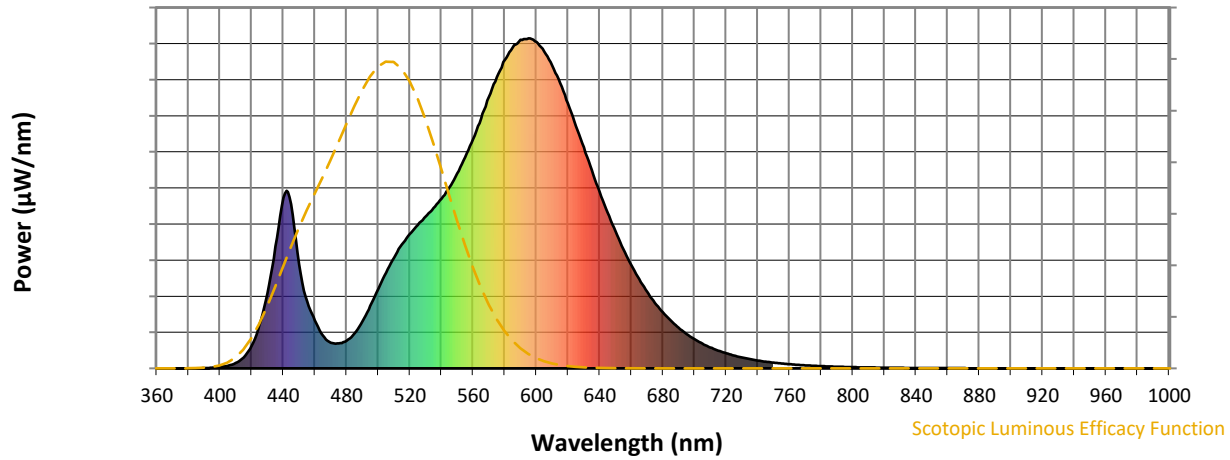


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



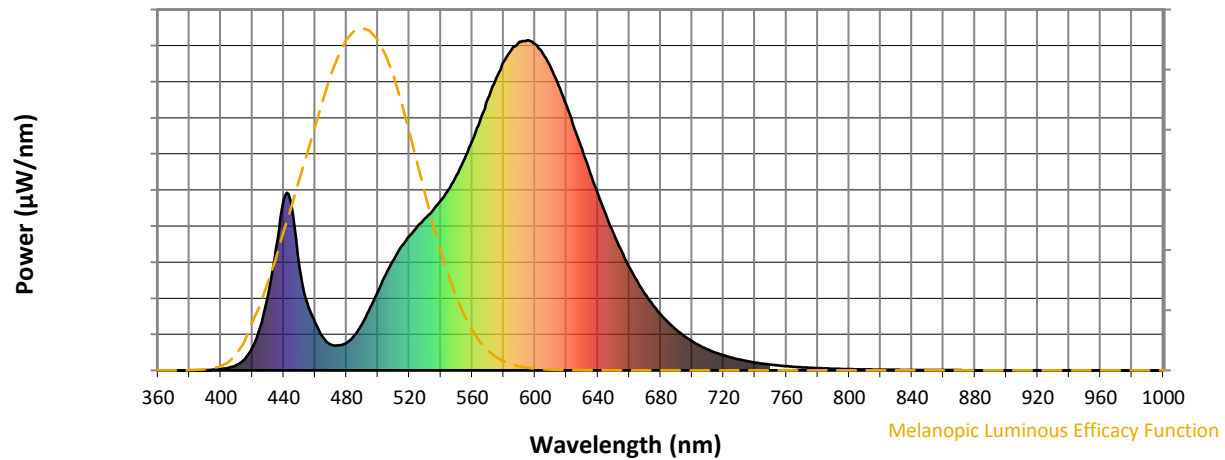
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

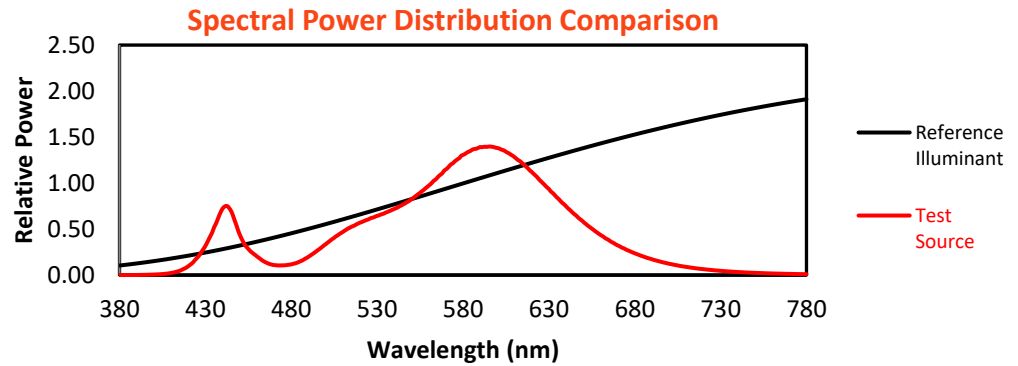
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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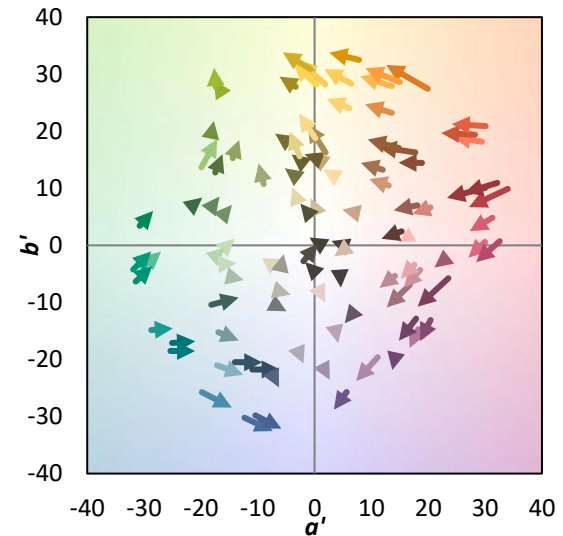
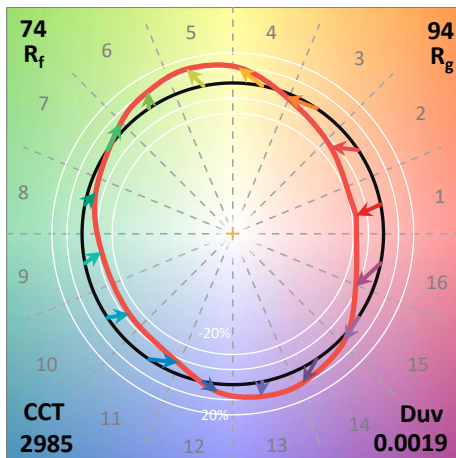
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $\text{CIE } R_a = 70.8$
 $R_g = -43.2$

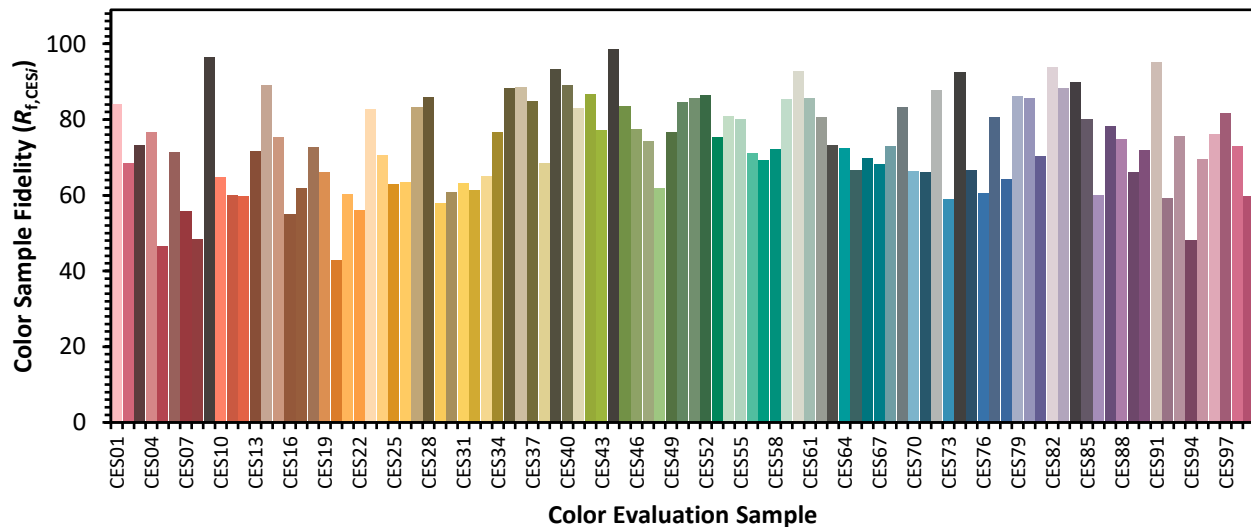


Color Vector Graphics

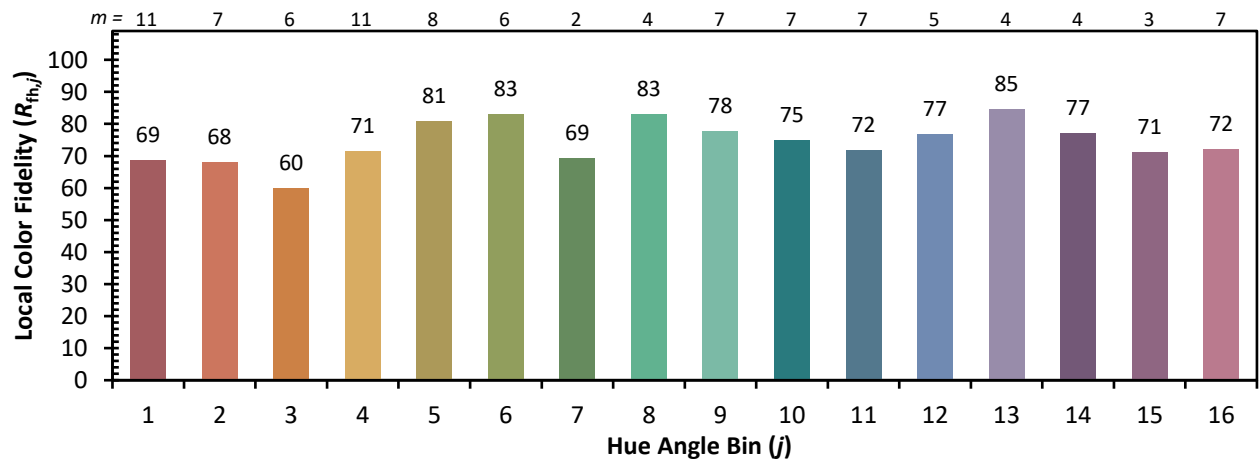
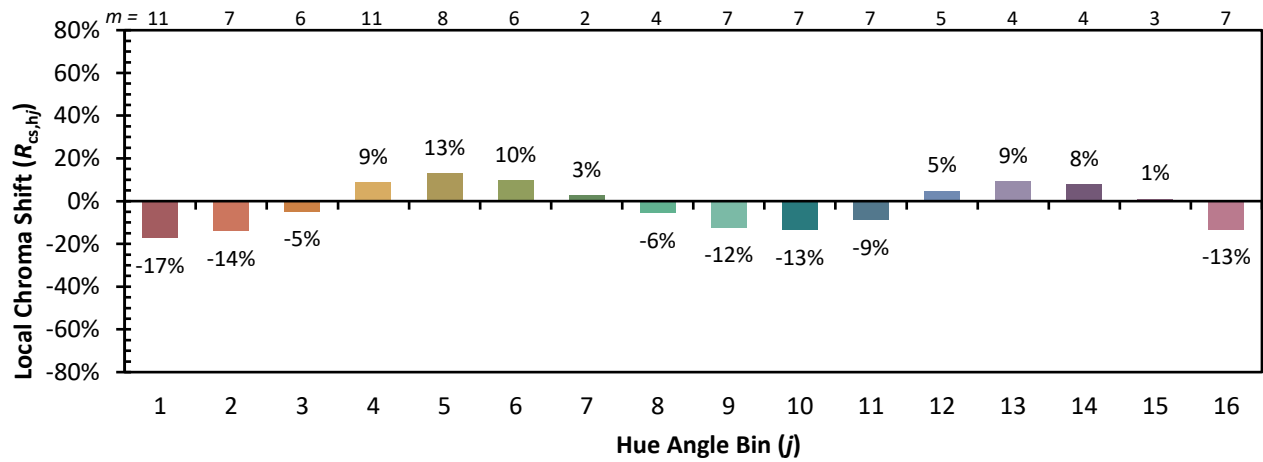


Individual Sample Fidelity Index ($R_{f,i}$)

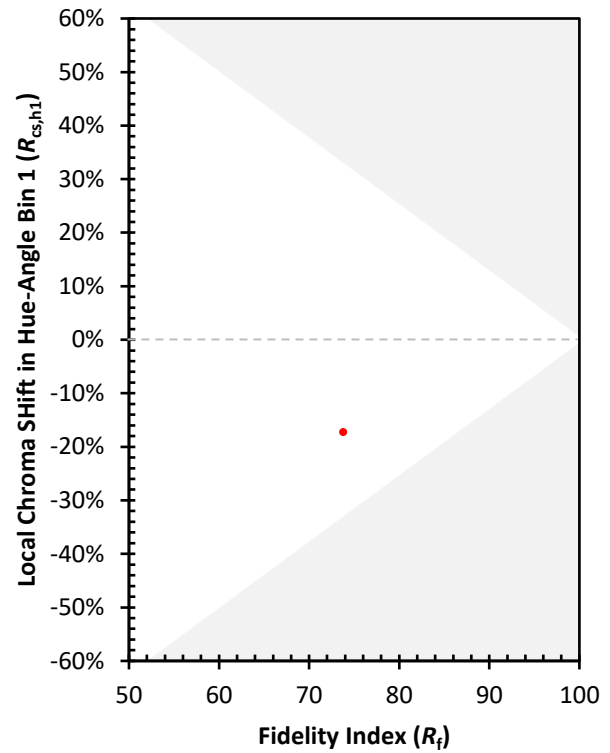
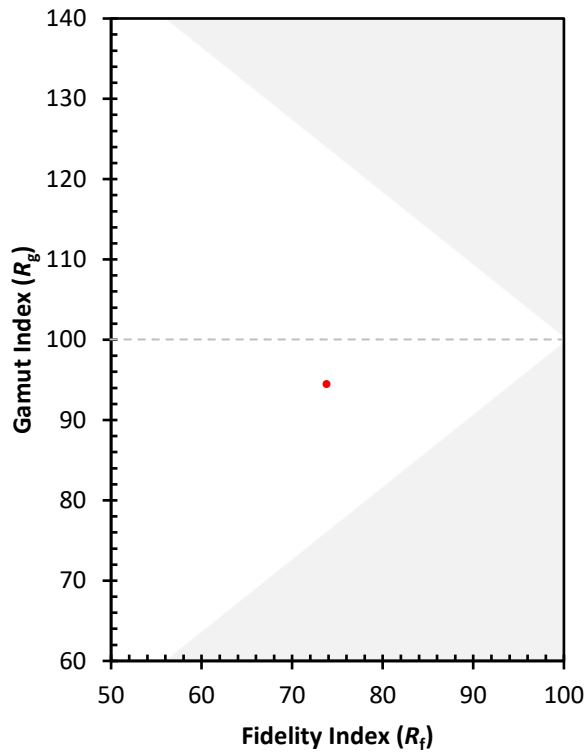
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)