

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: P1306578

Luminaire Tested: **FFX-CLB-30-AMB-U-VM9-T4-HSS**

Issue Date: 02/04/2026

Test Information

Test Method: LM-79-08
Report Number: P1306578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/04/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-AMB-U-VM9-T4-HSS
Description: FAIRFAX AMBER ULA 9 INCH LENS WITH TYPE IV DISTRIBUTION AND HOUSE
SIDE SHIELD
Light Source: (4) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 702.1 lumens
Efficiency: N/A
Efficacy: 24.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.38' x H: 2.12')
IES Classification: Type IV - Short
BUG Rating: B0 - U3 - G1

Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



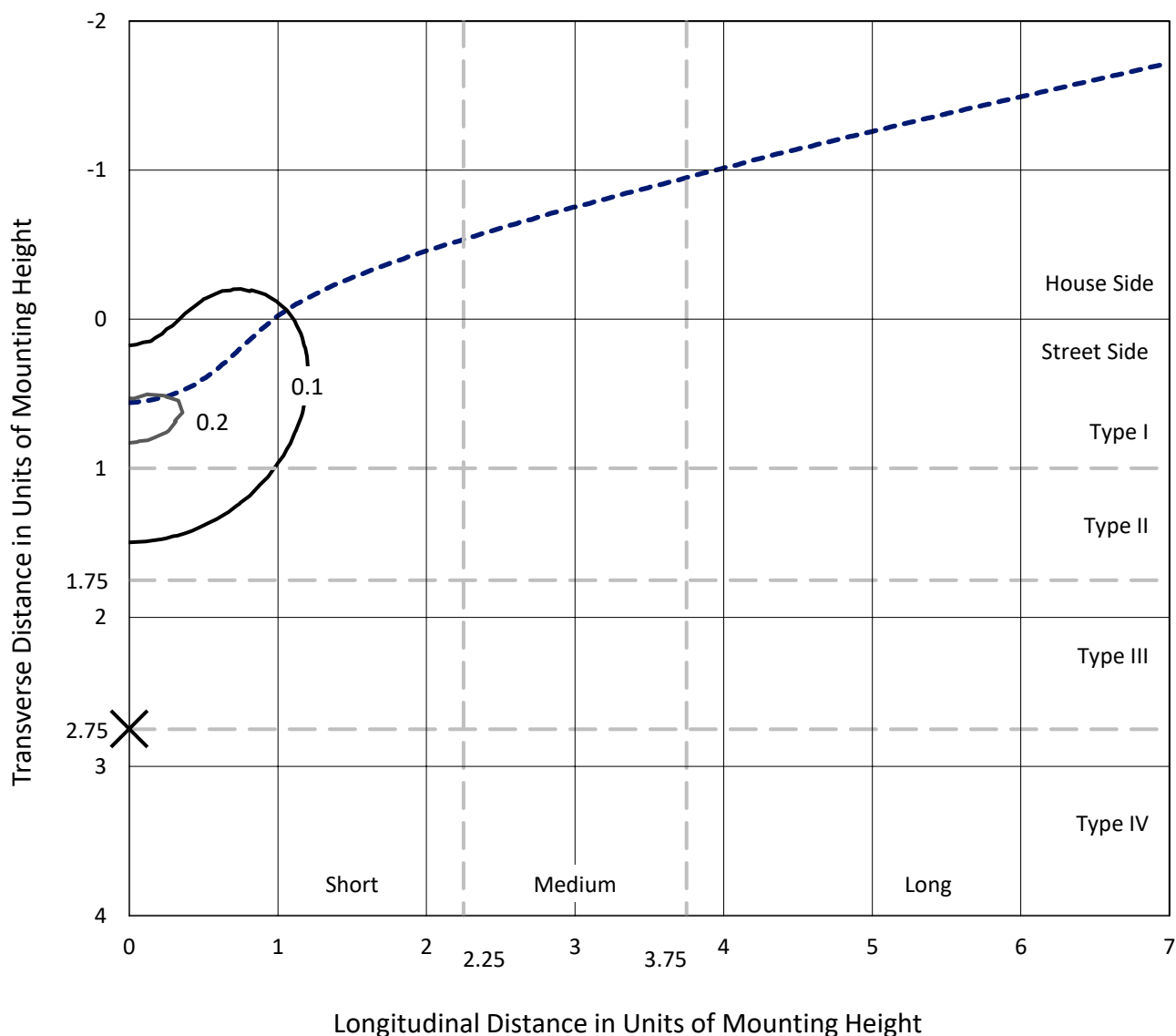
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

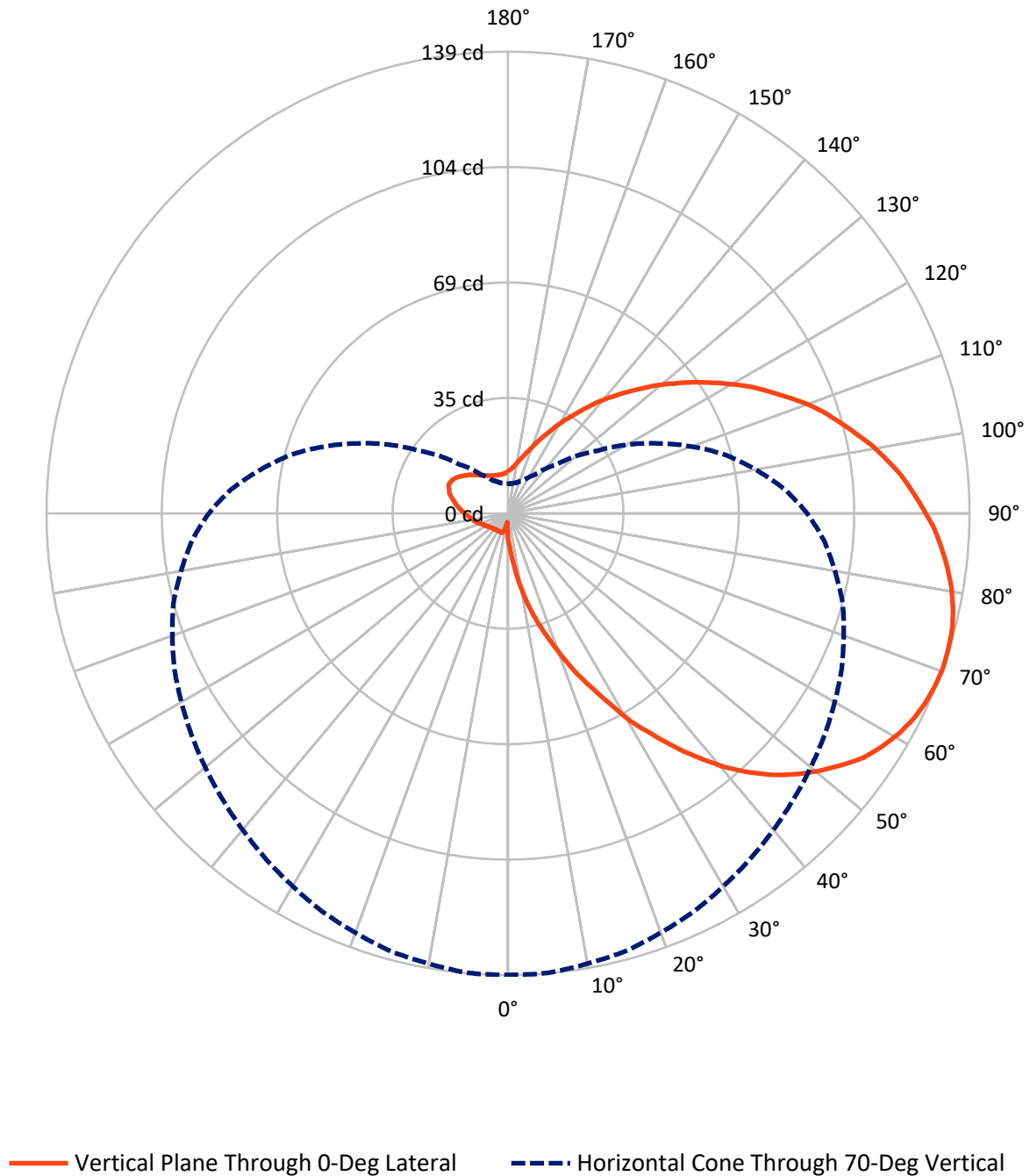


Based on 15 foot mounting height. Maximum calculated value = 0.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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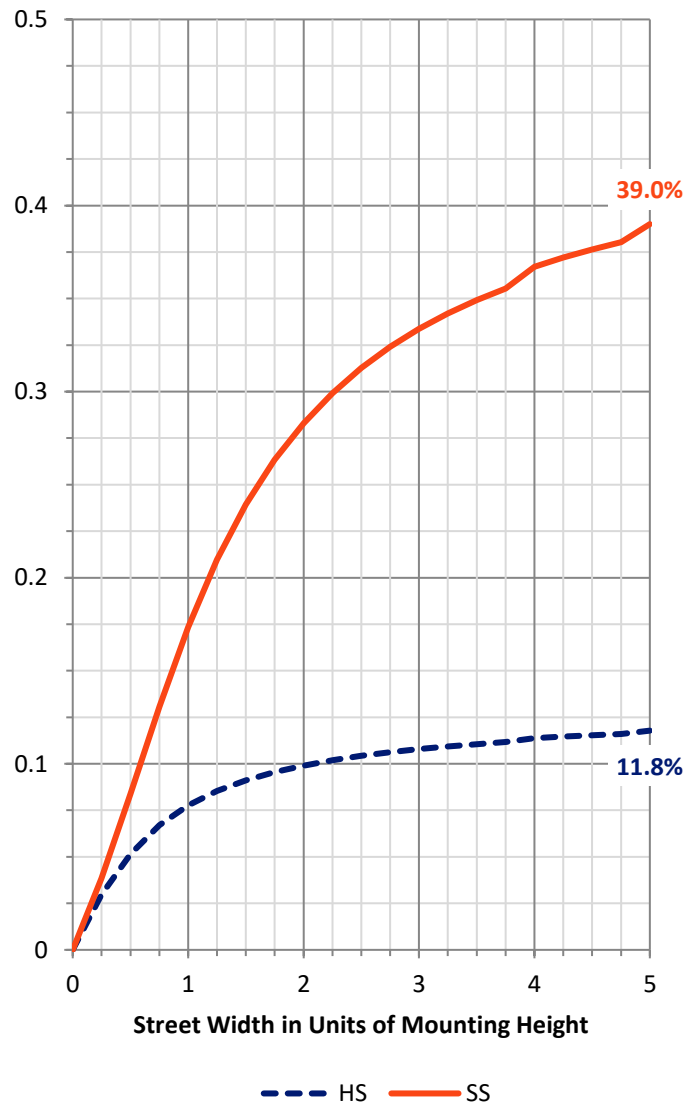
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.2	89.6	179.8
	% Fixture	12.9	12.8	25.6
Street Side	Lumens	312.8	209.5	522.3
	% Fixture	44.5	29.8	74.4
Total	Lumens	403.0	299.1	702.1
	% Fixture	57.4	42.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.1
10°-20°	6.1	0.9
20°-30°	15.9	2.3
30°-40°	31.0	4.4
40°-50°	48.3	6.9
50°-60°	63.8	9.1
60°-70°	75.0	10.7
70°-80°	80.9	11.5
80°-90°	80.9	11.5
90°-100°	75.8	10.8
100°-110°	67.0	9.5
110°-120°	55.2	7.9
120°-130°	41.5	5.9
130°-140°	28.0	4.0
140°-150°	16.9	2.4
150°-160°	9.1	1.3
160°-170°	4.3	0.6
170°-180°	1.2	0.2
0°-90°	403.0	57.4
0°-180°	702.1	100.0



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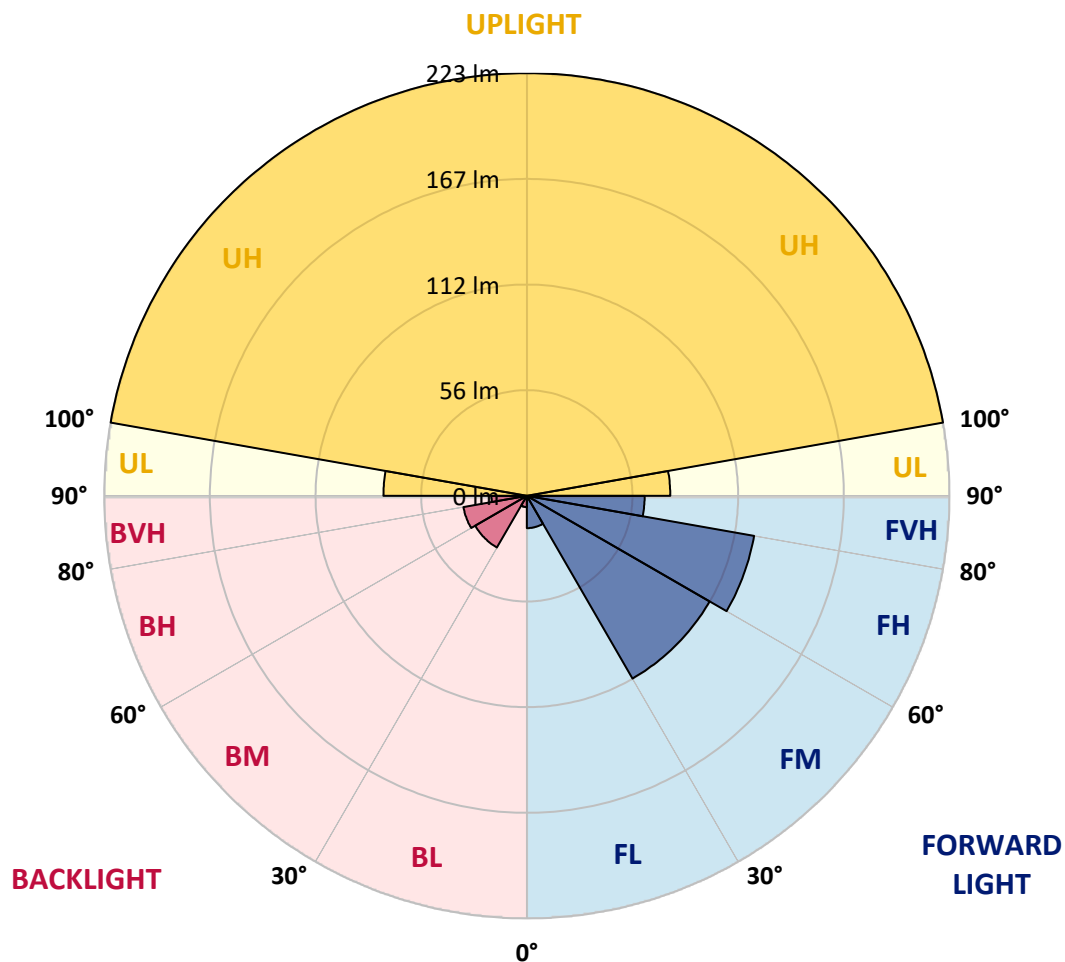
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17.1	2.4			
FM	(30°-60°)	111.5	15.9			
FH	(60°-80°)	121.9	17.4			G0/660
FVH	(80°-90°)	62.2	8.9			G1/100
BL	(0°-30°)	6.0	0.8	B0/110		
BM	(30°-60°)	31.5	4.5	B0/220		
BH	(60°-80°)	34.0	4.8	B0/110		G0/110
BVH	(80°-90°)	18.7	2.7			G1/100
UL	(90°-100°)	75.8	10.8		U3/500	
UH	(100°-180°)	223.3	31.8		U3/500	

BUG Rating: B0-U3-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
2.5°	10.1	10.2	10.4	10.1	10.2	9.9	9.6	9.3	8.8	8.2	8.0
5°	13.9	14.3	14.0	14.1	13.8	13.1	12.3	11.4	10.5	9.5	9.0
7.5°	18.8	18.9	19.0	18.5	17.8	16.9	15.9	14.6	13.7	12.3	11.6
10°	23.9	24.4	23.9	23.1	22.3	21.2	20.1	18.5	17.3	15.3	14.8
12.5°	29.4	29.6	28.9	28.1	27.2	25.8	24.7	22.9	21.3	19.2	18.2
15°	34.4	34.8	34.4	33.4	32.3	30.9	29.4	27.6	25.3	22.9	21.8
17.5°	39.6	39.8	39.6	38.6	37.4	36.0	33.9	31.9	29.2	26.5	25.1
20°	45.3	45.5	45.2	44.4	42.7	40.9	38.8	36.3	33.4	30.1	28.6
22.5°	51.7	51.4	51.2	49.9	48.5	46.5	44.2	41.3	38.1	34.4	32.3
25°	57.7	58.5	57.6	56.4	54.6	52.4	49.7	46.8	42.8	39.0	36.7
27.5°	64.3	65.1	64.6	63.1	61.1	58.5	55.8	52.2	48.2	43.6	41.0
30°	72.4	72.1	71.4	69.7	67.4	65.0	61.8	58.2	53.7	48.5	45.4
32.5°	78.9	79.3	78.5	76.9	74.4	71.3	67.8	63.7	58.9	53.2	50.1
35°	86.2	86.5	85.3	83.7	80.9	77.8	73.9	69.5	64.4	58.3	54.5
37.5°	93.2	93.5	92.0	90.5	87.2	83.9	79.7	75.1	69.6	62.8	59.0
40°	100.2	99.9	98.8	96.7	93.3	89.7	85.1	80.4	74.4	67.3	63.3
42.5°	106.4	106.2	105.1	102.3	99.0	95.1	90.2	84.9	79.0	71.3	67.0
45°	112.1	111.9	110.3	107.8	104.3	99.9	95.2	89.6	83.2	75.4	70.7
47.5°	117.1	117.2	115.7	112.6	108.8	104.3	99.1	93.4	86.9	78.7	74.1
50°	121.5	121.6	120.0	117.0	112.7	108.1	102.9	97.1	90.1	81.8	77.0
52.5°	125.6	125.9	124.1	120.6	116.3	111.5	106.1	100.1	93.2	84.6	79.5
55°	129.6	129.3	127.3	124.0	119.3	114.2	108.7	102.7	95.8	87.1	81.8
57.5°	132.4	132.1	130.1	126.4	121.6	116.5	111.0	105.0	97.8	89.1	83.8
60°	134.7	134.5	132.4	128.4	123.6	118.3	112.8	106.7	99.8	90.9	85.6
62.5°	136.5	136.3	134.1	130.0	125.0	119.6	114.0	108.2	101.3	92.4	87.0
65°	137.7	137.5	135.2	131.1	126.0	120.6	115.1	109.2	102.4	93.6	88.2
67.5°	138.4	138.3	136.0	131.7	126.6	121.2	115.8	110.1	103.3	94.6	89.0
70°	138.7	138.6	136.2	132.0	126.8	121.4	116.1	110.6	104.1	95.4	89.9
72.5°	138.4	138.4	135.9	131.7	126.5	121.1	115.9	110.7	104.4	95.8	90.3
75°	137.9	137.7	135.3	131.1	125.9	120.6	115.6	110.5	104.5	96.0	90.6
77.5°	136.7	136.5	134.2	130.1	124.9	119.7	114.9	110.0	104.2	95.9	90.5
80°	135.1	134.9	132.6	128.5	123.5	118.4	113.7	109.1	103.5	95.4	90.1
82.5°	133.0	133.1	130.6	126.5	121.7	117.0	112.3	107.9	102.6	94.8	89.4
85°	130.6	130.5	128.3	124.3	119.6	115.0	110.6	106.5	101.5	93.7	88.5
87.5°	128.1	127.8	125.6	121.8	117.2	112.7	108.5	104.8	100.0	92.5	87.3
90°	124.9	125.0	122.7	118.8	114.4	110.3	106.4	102.8	98.3	91.0	86.0
92.5°	121.8	121.7	119.5	115.7	111.6	107.5	104.1	100.8	96.4	89.3	84.5
95°	118.7	118.4	116.3	112.5	108.5	104.9	101.5	98.5	94.4	87.5	82.8
97.5°	115.0	114.7	112.6	109.2	105.3	101.8	98.9	96.2	92.1	85.5	81.0
100°	111.3	111.2	109.0	105.6	101.8	98.6	95.9	93.4	89.6	83.4	79.1
102.5°	107.1	107.3	105.0	101.7	98.3	95.2	93.1	90.6	87.1	81.1	77.0
105°	103.1	103.0	101.2	97.9	94.6	91.7	89.9	87.7	84.4	78.7	74.8
107.5°	99.2	98.8	97.1	94.1	90.9	88.3	86.5	84.7	81.7	76.2	72.4
110°	94.9	94.6	92.9	89.8	87.0	84.7	82.9	81.4	78.5	73.5	70.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.1	90.0	88.4	85.7	82.8	81.0	79.4	78.0	75.3	70.4	67.2
115°	85.7	85.8	84.1	81.7	79.3	77.2	75.8	74.7	72.0	67.6	64.5
117.5°	81.4	81.2	79.9	77.7	75.3	73.4	72.1	71.1	68.7	64.5	61.6
120°	76.6	76.4	75.3	73.3	71.3	69.4	68.4	67.1	64.9	61.1	58.5
122.5°	72.1	72.3	71.1	69.3	67.6	65.9	64.6	63.6	61.4	57.7	55.5
125°	67.8	67.7	66.8	65.1	63.4	61.9	60.9	59.7	57.5	54.2	52.2
127.5°	63.3	63.5	62.6	61.0	59.7	58.2	57.4	56.1	54.0	51.1	49.0
130°	59.3	59.3	58.6	57.1	55.8	54.7	53.6	52.2	50.4	47.4	45.7
132.5°	55.0	55.0	54.4	53.5	52.1	51.0	49.8	48.7	46.8	44.3	42.8
135°	51.1	51.1	50.5	49.6	48.4	47.4	46.3	45.1	43.4	40.9	39.5
137.5°	47.3	47.5	47.1	46.0	45.1	43.9	43.0	41.9	40.0	37.8	36.5
140°	43.8	43.7	43.3	42.5	41.5	40.5	39.5	38.4	36.8	34.7	33.7
142.5°	40.0	40.2	39.8	39.2	38.2	37.4	36.5	35.2	33.8	32.0	31.0
145°	36.5	36.6	36.3	35.9	35.1	34.3	33.3	32.2	30.9	29.3	28.4
147.5°	33.5	33.5	33.2	32.7	32.1	31.4	30.5	29.5	28.3	26.9	26.0
150°	30.5	30.5	30.3	29.8	29.2	28.6	27.8	26.8	25.8	24.4	23.7
152.5°	27.6	27.6	27.5	27.1	26.7	25.9	25.4	24.4	23.6	22.5	21.8
155°	25.2	25.2	25.1	24.6	24.2	23.7	23.1	22.3	21.4	20.4	20.0
157.5°	22.9	22.9	22.7	22.4	22.1	21.7	21.1	20.5	19.6	18.9	18.4
160°	20.7	20.8	20.7	20.4	20.1	19.7	19.2	18.7	18.1	17.3	17.0
162.5°	19.0	19.1	19.0	18.7	18.5	18.1	17.8	17.2	16.8	16.2	15.8
165°	17.5	17.5	17.4	17.2	17.0	16.8	16.4	16.0	15.7	15.2	14.9
167.5°	16.2	16.2	16.2	16.0	15.8	15.6	15.3	15.0	14.6	14.3	14.0
170°	15.1	15.2	15.1	15.0	14.8	14.6	14.4	14.2	13.9	13.6	13.5
172.5°	14.2	14.3	14.2	14.0	14.0	13.8	13.6	13.4	13.3	13.0	12.9
175°	13.4	13.4	13.4	13.4	13.2	13.1	13.0	12.9	12.8	12.6	12.6
177.5°	13.0	12.9	13.0	12.8	12.8	12.6	12.6	12.5	12.5	12.4	12.4
180°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
2.5°	7.7	7.1	6.5	6.0	5.5	5.3	4.9	4.5	4.4	4.4
5°	8.4	7.4	6.6	5.7	5.0	4.5	3.7	3.1	2.8	2.7
7.5°	10.9	9.6	8.3	7.2	6.2	5.2	4.3	3.6	3.3	3.3
10°	13.8	12.1	10.5	8.9	7.4	6.1	5.1	4.5	4.2	4.1
12.5°	17.0	15.0	12.9	10.8	8.9	7.5	6.4	5.6	5.2	5.2
15°	20.4	17.7	15.1	12.6	10.4	8.6	7.2	6.3	5.9	5.8
17.5°	23.6	20.3	17.3	14.2	11.6	9.5	7.8	6.7	6.1	6.1
20°	26.9	23.1	19.2	15.7	12.5	9.9	8.0	6.7	6.1	6.0
22.5°	30.3	25.9	21.5	17.2	13.4	10.5	8.2	6.8	6.1	6.0
25°	34.2	29.1	23.8	18.7	14.4	10.9	8.5	6.9	6.1	6.0
27.5°	38.1	32.3	26.2	20.3	15.4	11.5	8.7	7.0	6.2	6.1
30°	42.3	35.6	28.6	21.9	16.2	11.8	8.8	7.0	6.2	6.1
32.5°	46.5	39.1	31.0	23.4	16.9	12.2	9.0	7.0	6.2	6.0
35°	50.7	42.2	33.4	24.9	17.7	12.5	9.0	7.1	6.3	6.1
37.5°	54.9	45.6	35.6	26.2	18.4	12.8	9.2	7.1	6.3	6.2
40°	58.7	48.7	37.8	27.4	18.8	12.9	9.2	7.1	6.3	6.2
42.5°	62.4	51.5	39.7	28.4	19.3	13.0	9.2	7.2	6.3	6.2
45°	65.8	54.2	41.5	29.3	19.6	13.2	9.3	7.3	6.5	6.4
47.5°	68.6	56.5	43.0	30.0	20.0	13.3	9.4	7.4	6.6	6.5
50°	71.4	58.6	44.3	30.7	20.1	13.2	9.4	7.5	6.7	6.6
52.5°	73.6	60.5	45.5	31.3	20.3	13.3	9.5	7.6	6.9	6.8
55°	76.0	62.2	46.5	31.6	20.4	13.5	9.6	7.8	7.1	7.1
57.5°	77.7	63.5	47.3	32.0	20.5	13.4	9.7	8.0	7.3	7.2
60°	79.3	64.7	48.0	32.2	20.5	13.5	9.9	8.2	7.6	7.5
62.5°	80.7	65.7	48.6	32.5	20.6	13.6	10.2	8.5	7.9	7.8
65°	81.8	66.5	49.1	32.5	20.6	13.8	10.4	8.8	8.2	8.1
67.5°	82.6	67.1	49.4	32.7	20.7	13.9	10.6	9.0	8.6	8.4
70°	83.4	67.7	49.7	32.8	20.8	14.2	10.9	9.5	8.9	8.9
72.5°	83.7	68.0	49.8	32.9	21.0	14.4	11.3	9.8	9.3	9.3
75°	84.0	68.1	49.9	33.0	21.1	14.7	11.6	10.3	9.8	9.8
77.5°	83.9	68.2	49.9	33.1	21.3	15.0	12.0	10.7	10.3	10.3
80°	83.5	67.9	49.7	33.0	21.5	15.4	12.4	11.2	10.8	10.7
82.5°	83.0	67.4	49.6	33.2	21.8	15.8	13.0	11.7	11.3	11.2
85°	82.2	66.9	49.3	33.2	22.0	16.2	13.4	12.3	11.8	11.7
87.5°	81.1	66.2	49.0	33.2	22.4	16.7	14.0	12.8	12.4	12.3
90°	79.9	65.3	48.6	33.2	22.7	17.1	14.5	13.4	13.0	12.9
92.5°	78.6	64.4	48.3	33.4	23.1	17.7	15.1	14.0	13.6	13.6
95°	77.2	63.5	47.9	33.6	23.7	18.4	15.9	14.7	14.3	14.3
97.5°	75.6	62.6	47.5	33.7	24.3	19.1	16.6	15.5	15.0	15.0
100°	73.8	61.3	47.1	34.0	24.7	19.8	17.3	16.3	15.7	15.8
102.5°	72.0	60.2	46.6	34.2	25.4	20.5	18.1	17.0	16.6	16.4
105°	70.1	59.0	46.2	34.5	26.0	21.3	18.8	17.7	17.3	17.3
107.5°	68.1	57.6	45.7	34.7	26.7	22.1	19.7	18.6	18.1	18.0
110°	65.8	56.0	45.1	34.7	27.2	22.7	20.2	19.2	18.7	18.7

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CATALOG NUMBER: FFX-CLB-30-AMB-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	63.4	54.4	44.3	34.7	27.5	23.1	20.8	19.6	19.2	19.1
115°	61.0	52.9	43.6	34.7	27.9	23.7	21.3	20.2	19.7	19.6
117.5°	58.4	51.0	42.6	34.4	28.1	23.9	21.6	20.3	19.8	19.8
120°	55.5	48.8	41.2	33.8	27.9	23.9	21.4	20.2	19.7	19.6
122.5°	52.8	46.8	39.9	33.2	27.6	23.7	21.3	20.0	19.5	19.4
125°	49.8	44.4	38.2	32.1	27.0	23.3	20.9	19.5	19.0	18.9
127.5°	46.9	42.0	36.5	31.0	26.3	22.8	20.4	19.0	18.4	18.3
130°	43.8	39.5	34.6	29.6	25.4	22.0	19.7	18.4	17.8	17.7
132.5°	40.8	37.0	32.8	28.3	24.3	21.2	19.1	17.8	17.2	17.0
135°	37.9	34.5	30.7	26.7	23.2	20.4	18.3	17.0	16.4	16.5
137.5°	35.1	32.1	28.8	25.4	22.1	19.5	17.6	16.5	15.9	15.8
140°	32.5	29.6	26.8	23.7	20.9	18.5	16.8	15.7	15.2	15.2
142.5°	30.0	27.4	24.9	22.2	19.8	17.7	16.1	15.1	14.7	14.6
145°	27.4	25.3	23.0	20.7	18.6	16.8	15.4	14.5	14.2	14.0
147.5°	25.2	23.3	21.4	19.4	17.6	16.0	14.8	14.0	13.7	13.6
150°	23.1	21.4	19.7	18.1	16.5	15.2	14.2	13.6	13.3	13.2
152.5°	21.1	19.8	18.3	16.9	15.6	14.5	13.6	13.1	12.8	12.8
155°	19.4	18.2	17.0	15.8	14.8	13.9	13.2	12.7	12.5	12.5
157.5°	17.9	17.0	16.0	15.1	14.1	13.4	12.8	12.5	12.3	12.3
160°	16.6	15.9	15.0	14.3	13.5	12.9	12.5	12.2	12.0	12.1
162.5°	15.6	14.9	14.3	13.6	13.1	12.7	12.3	12.1	11.9	12.0
165°	14.7	14.2	13.6	13.2	12.7	12.4	12.2	12.0	11.9	11.9
167.5°	13.9	13.5	13.1	12.8	12.4	12.2	12.0	11.9	11.8	11.9
170°	13.4	13.1	12.8	12.5	12.2	12.0	11.9	11.9	11.9	11.8
172.5°	12.9	12.6	12.5	12.3	12.1	12.0	11.9	11.9	11.9	11.9
175°	12.5	12.4	12.2	12.1	12.0	12.0	11.9	12.0	11.9	12.0
177.5°	12.4	12.3	12.2	12.2	12.1	12.1	12.1	12.2	12.2	12.2
180°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-6

Test Date: 03/28/2025

Luminaire Tested: FFX-CLB-AMB-U-FR-T5

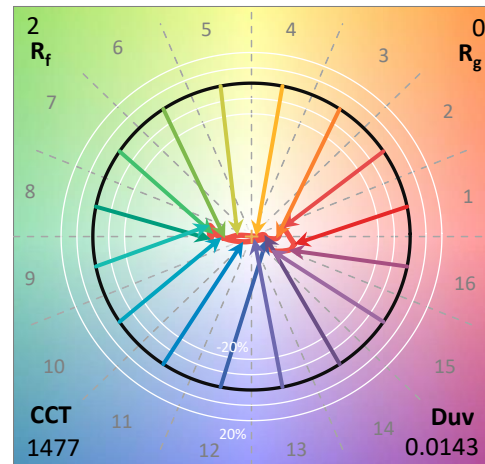
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-332-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 03/31/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-AMB-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR AMBER T5

Spectral Parameters

CCT (K):	1477	CRI (Ra):	-16.4		
CIE u':	0.3612	R1:	-26.9	R9:	-362.0
CIE v':	0.5457	R2:	55.7	R10:	34.1
Duv:	0.0143	R3:	19.5	R11:	-85.9
CIE x:	0.5980	R4:	-61.2	R12:	-0.3
CIE y:	0.4014	R5:	-34.3	R13:	-8.9
CIE z:	0.0006	R6:	47.8	R14:	48.3
Peak Wavelength (nm):	599	R7:	-4.8	R15:	-60.0
Dominant Wavelength (nm):	594	R8:	-127.3		
Purity:	99.99006				
Rf:	1.7				
Rg:	0.1				



Test Conditions

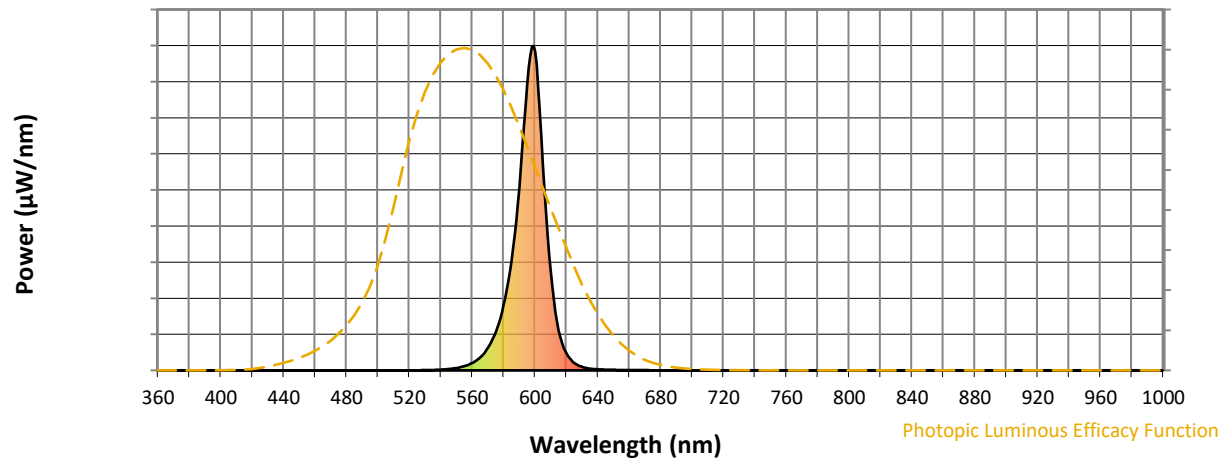
Stabilization Time: 152M
 Operation Time: 3H 32M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-6

Photopic Flux vs. Wavelength

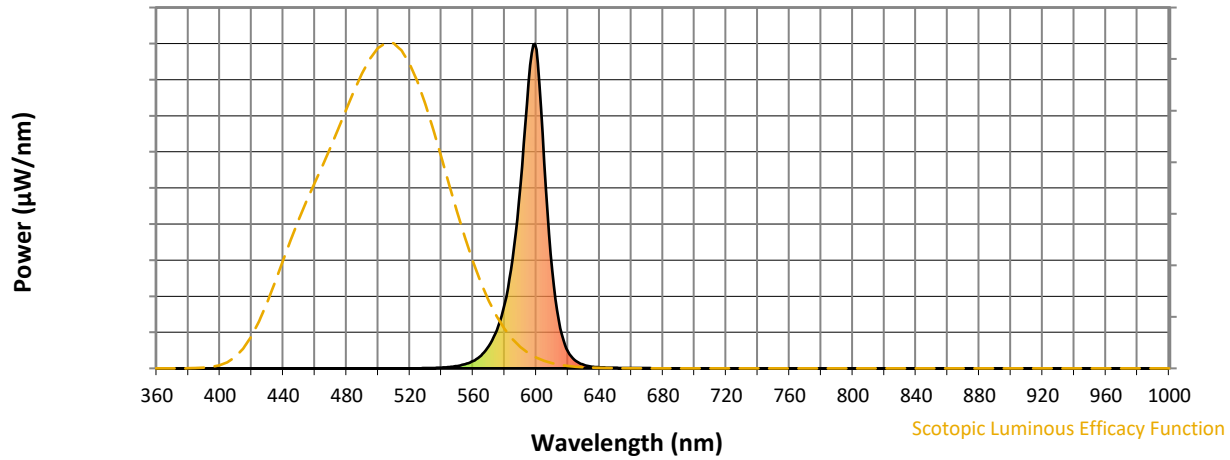


Photopic Lumens: NR

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Scotopic Flux vs. Wavelength



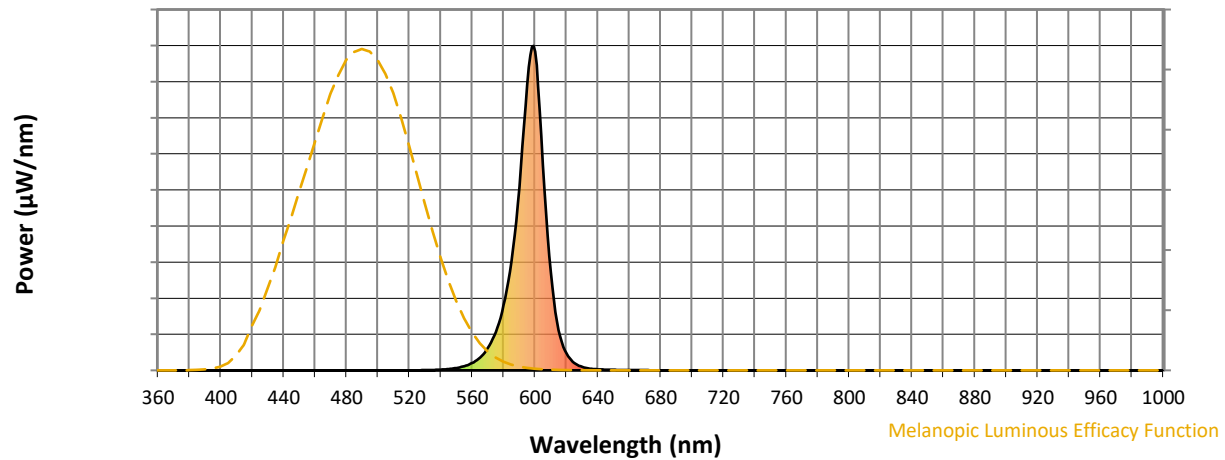
Scotopic Lumens: NR

S/P: 0.21

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.11

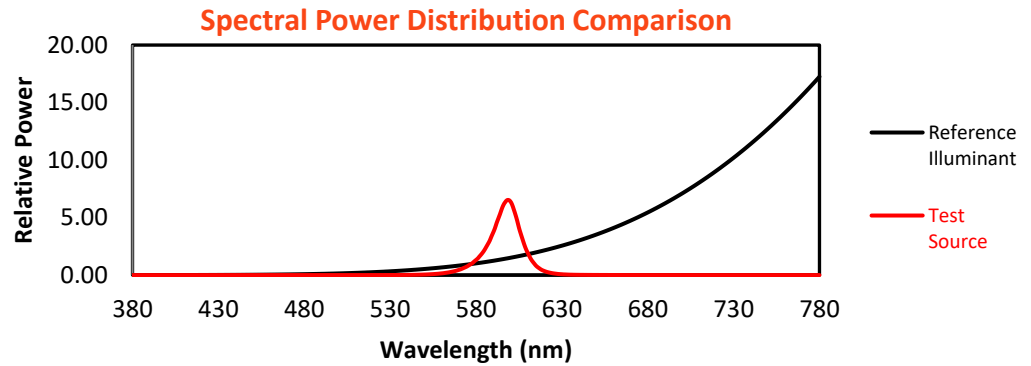
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

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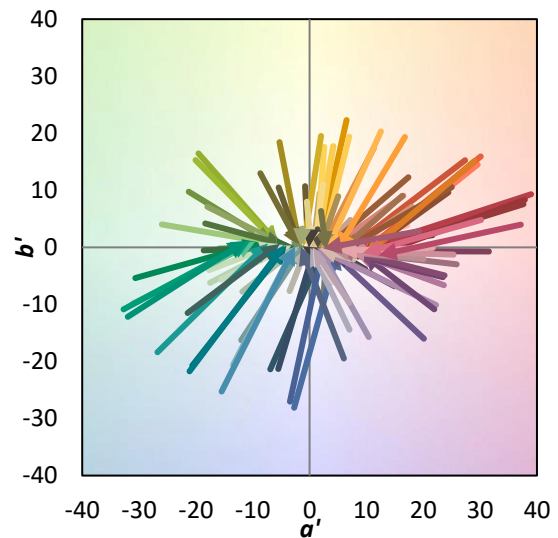
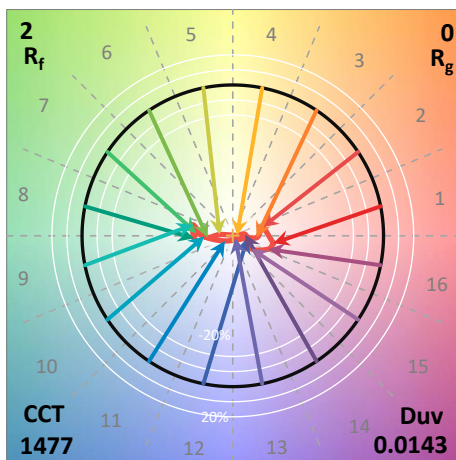
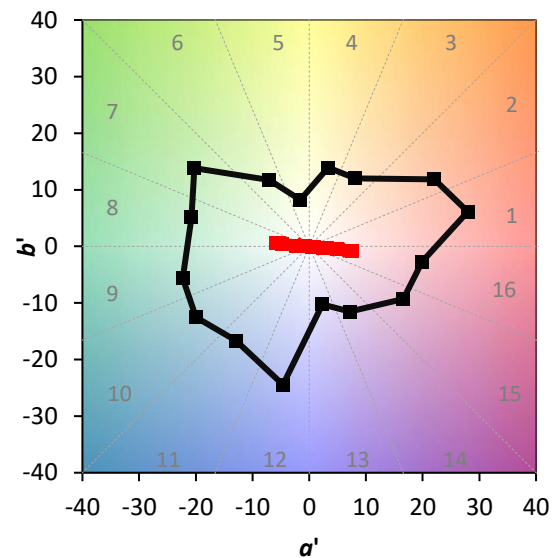
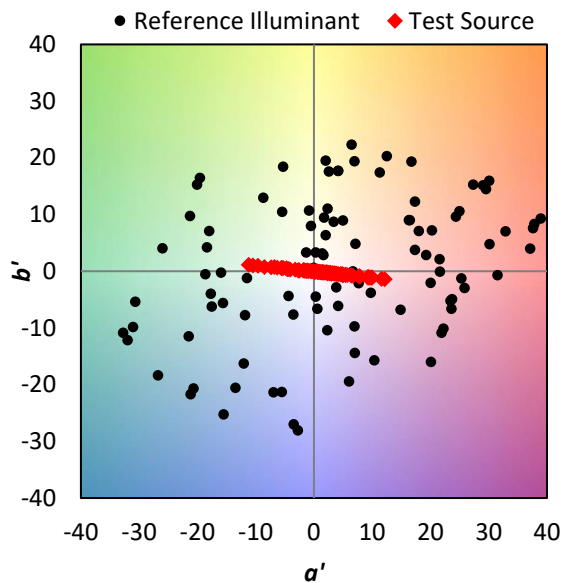
TM-30-18

Summary

$R_f = 1.7$
 $R_g = 0.1$
 $CIE R_a = -16.4$
 $R_g = -362.0$

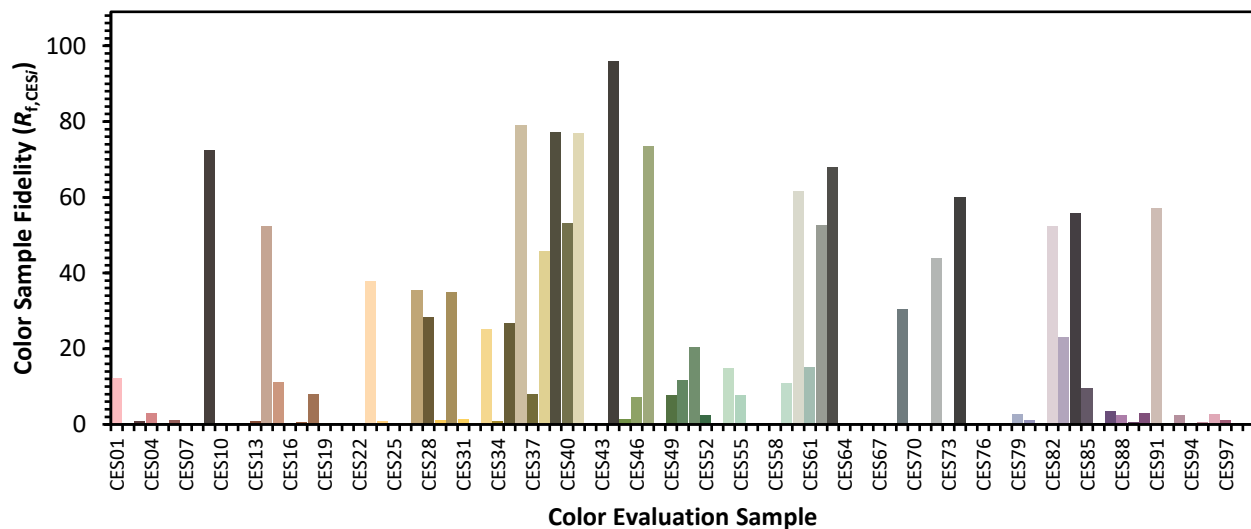


Color Vector Graphics

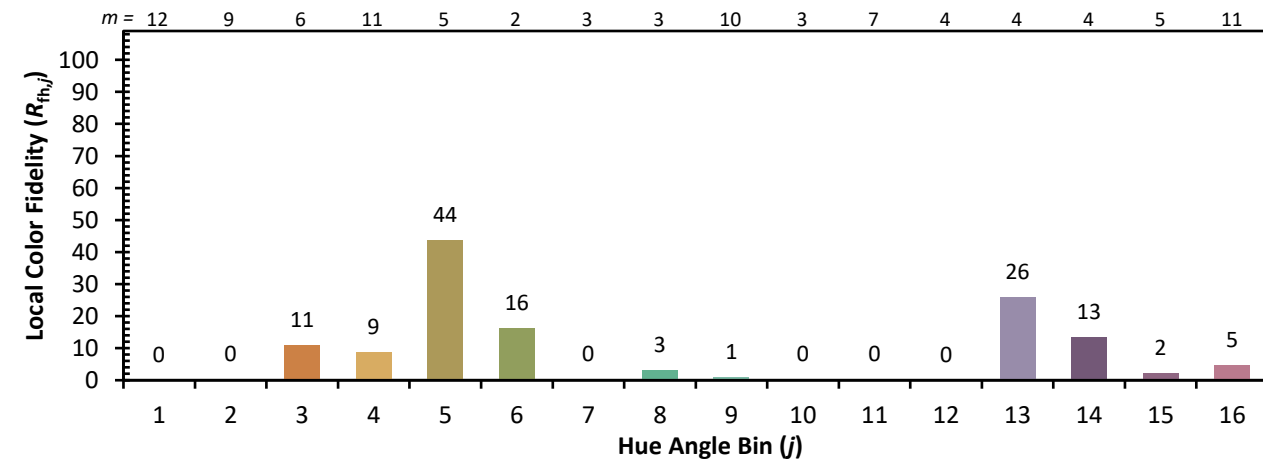
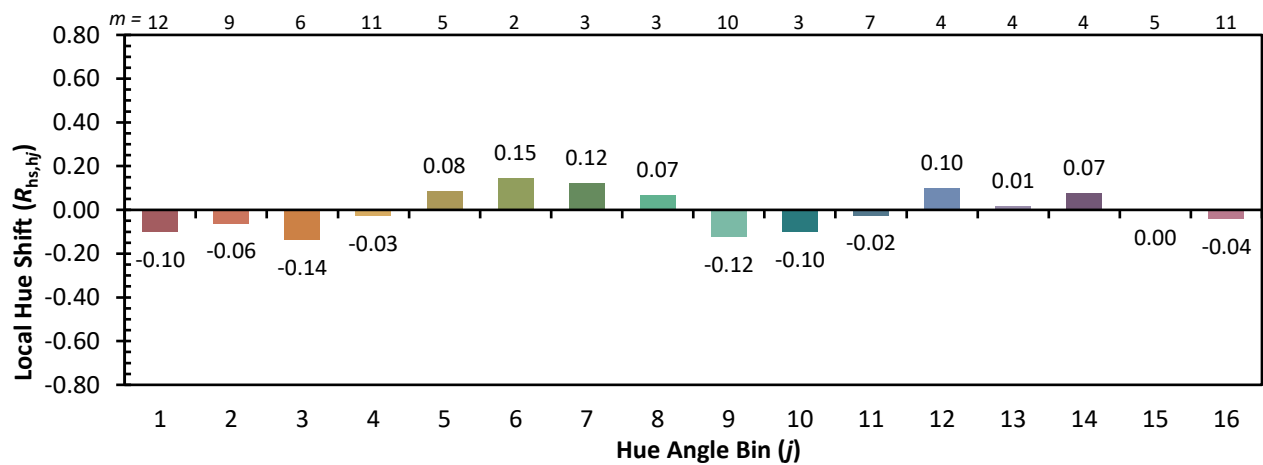
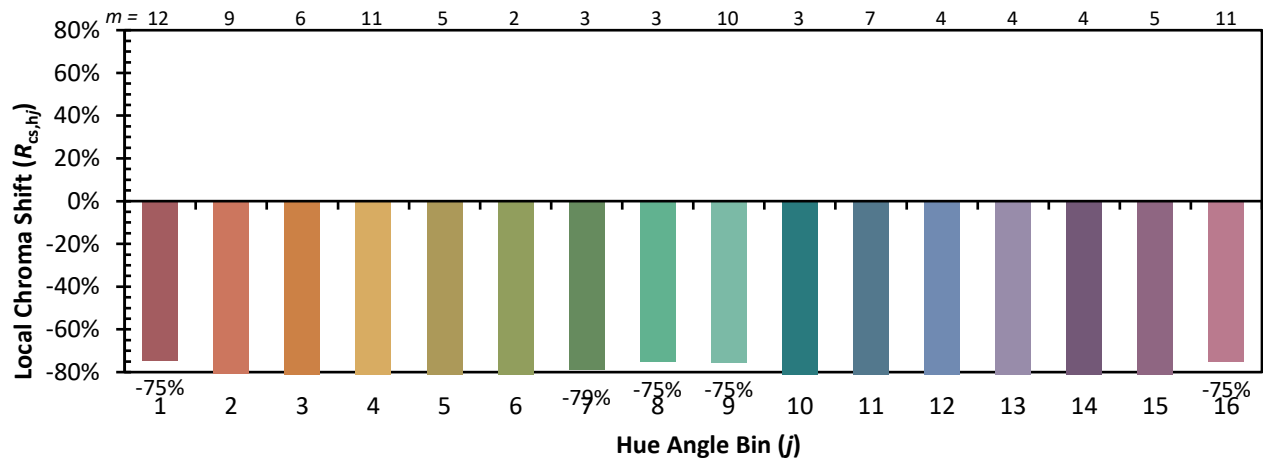


Individual Sample Fidelity Index ($R_{f,i}$)

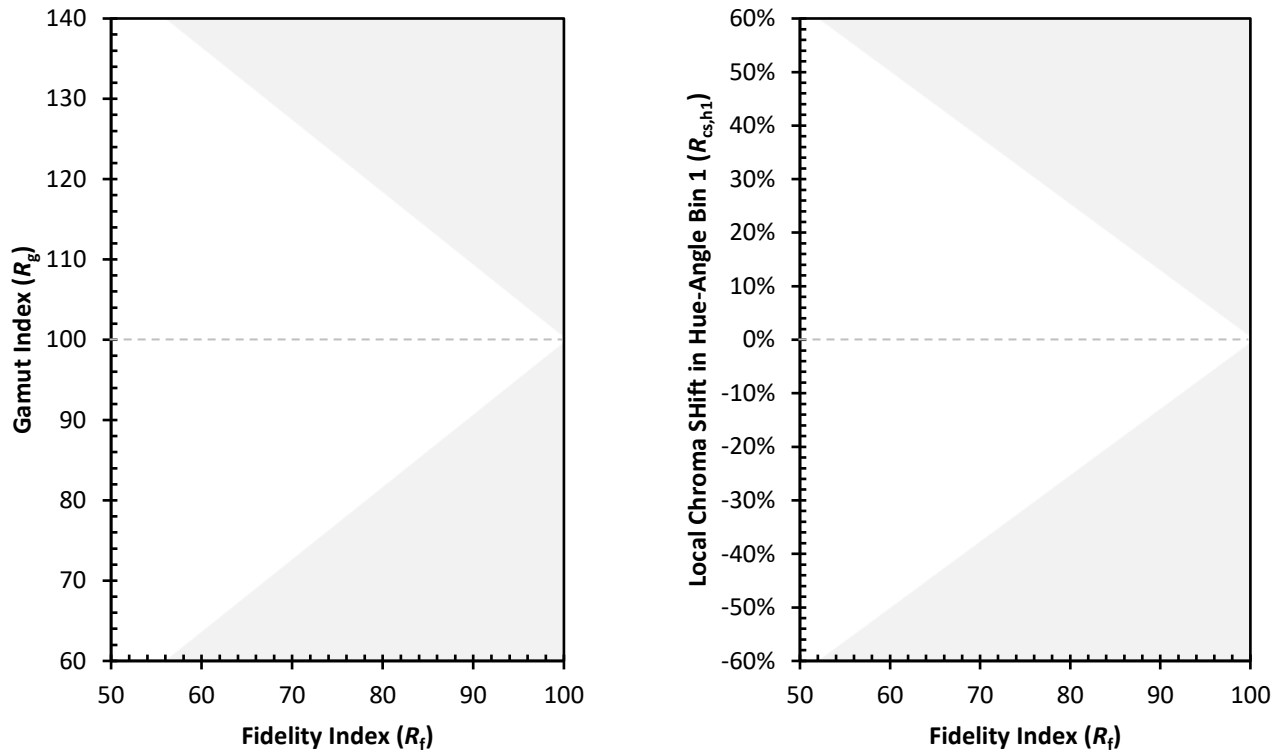
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 = 39	CES33 = 25	CES58 = 0	CES83 = 23
CES09 = 30	CES34 = 1	CES59 = 11	CES84 = 56
CES10 = 88	CES35 = 27	CES60 = 62	CES85 = 10
CES11 = 70	CES36 = 79	CES61 = 15	CES86 = 0
CES12 = 76	CES37 = 8	CES62 = 53	CES87 = 4
CES13 = 48	CES38 = 46	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 77	CES64 = 0	CES89 = 0
CES15 = 75	CES40 = 53	CES65 = 0	CES90 = 3
CES16 = 50	CES41 = 77	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 96	CES69 = 30	CES94 = 0
CES20 = 72	CES45 = 2	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 7	CES71 = 0	CES96 = 3
CES22 = 87	CES47 = 73	CES72 = 44	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 8	CES74 = 60	CES99 = 0
CES25 = 79	CES50 = 12	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)