

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: P856109

Luminaire Tested: **FFX-CLB-20-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856109
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

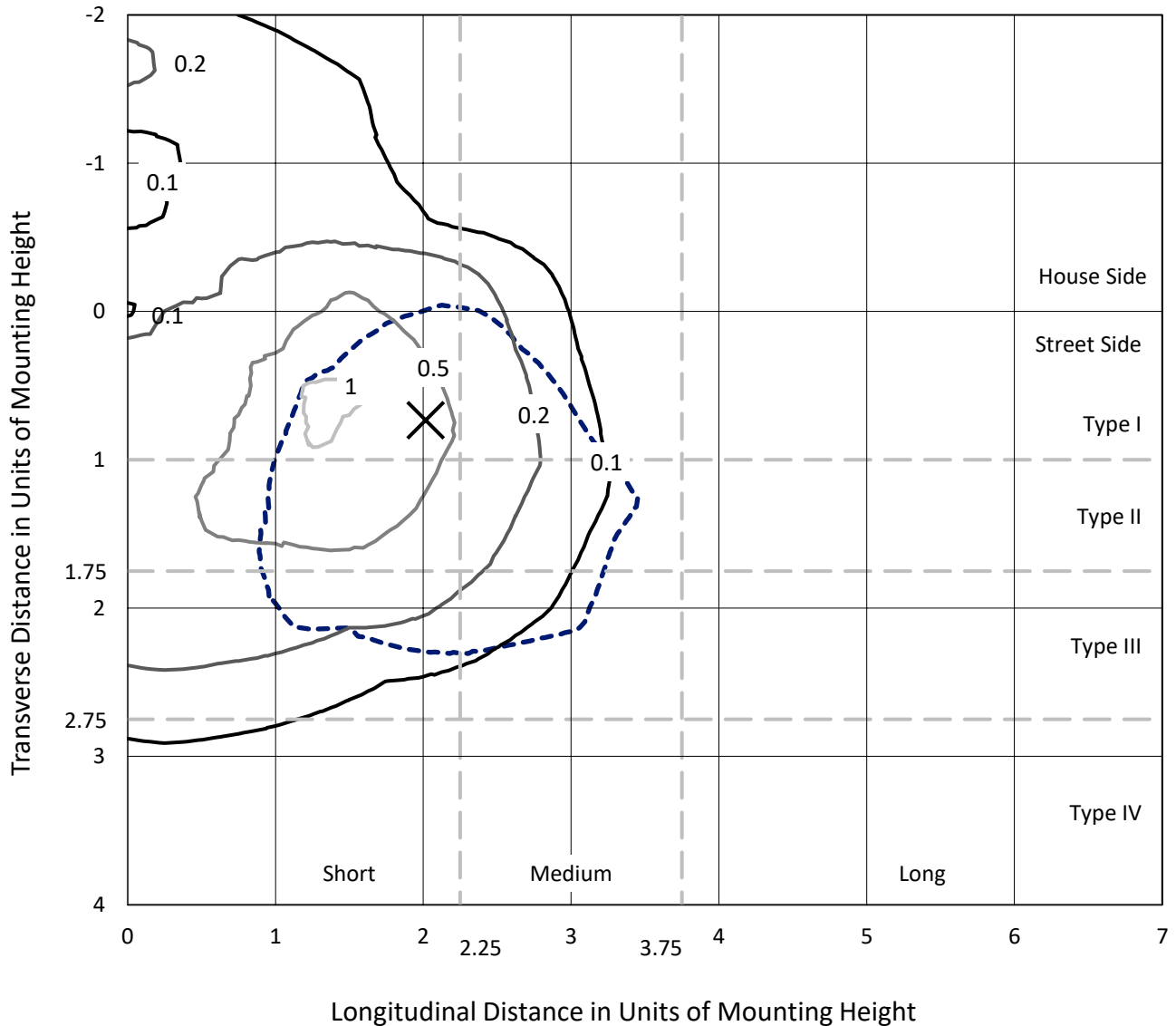
Lumens per Lamp: N/A
Luminaire Lumens: 2683.6 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 9.8%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

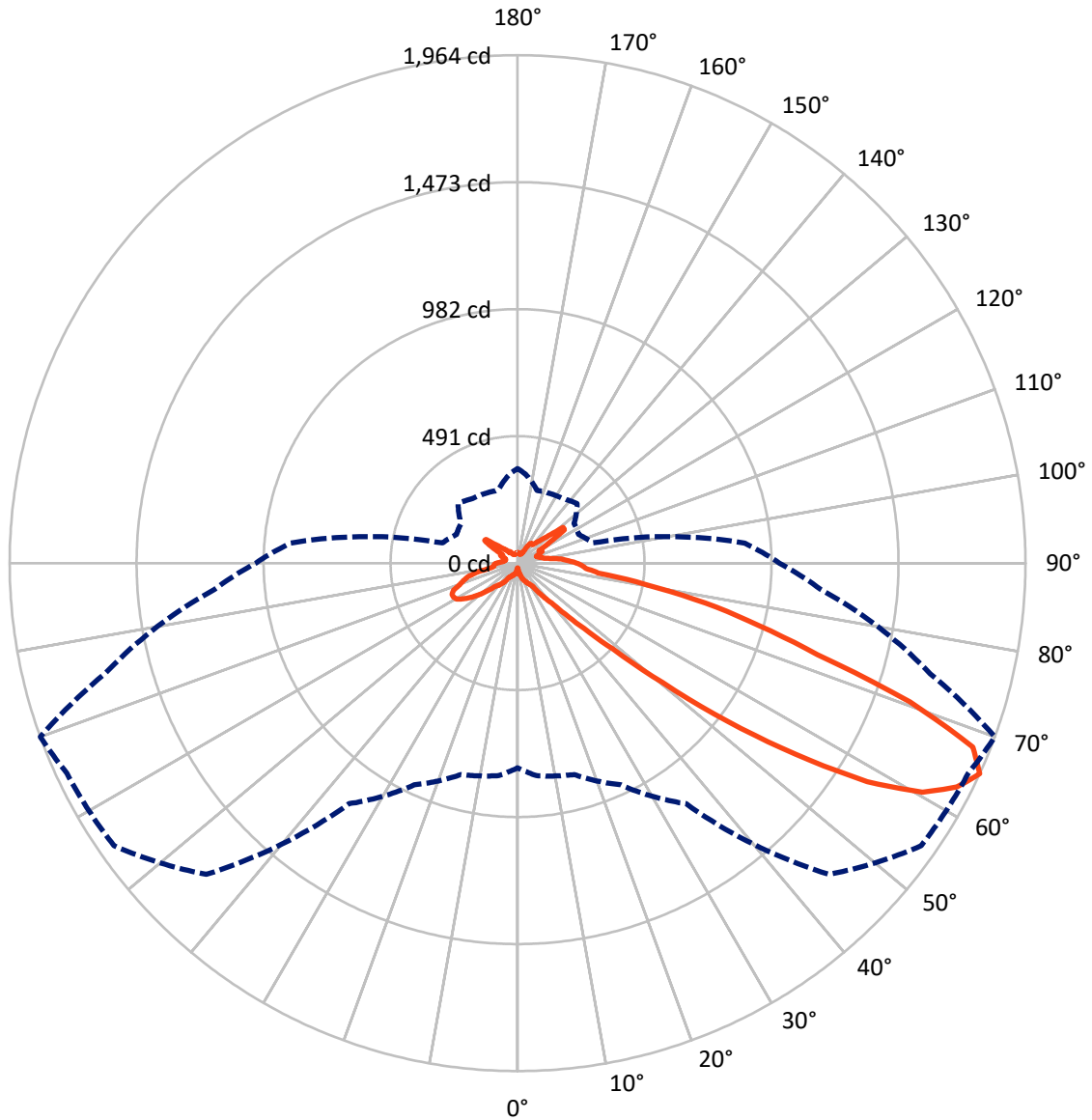
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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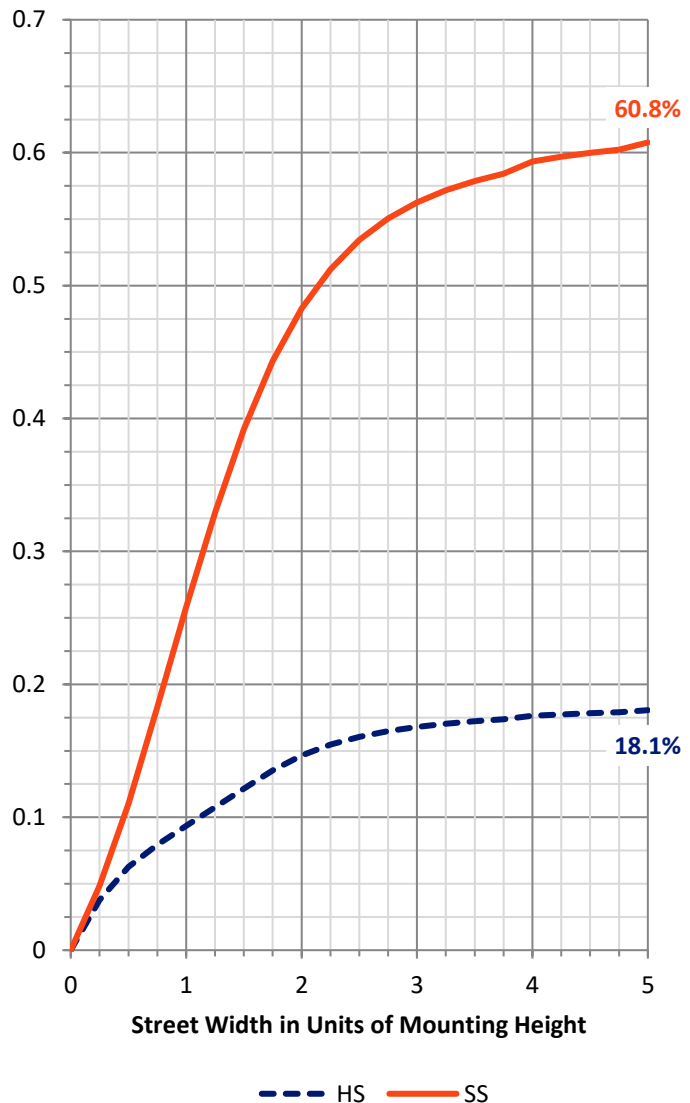
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.5	180.3	685.8
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	1685.7	312.1	1997.7
	% Fixture	62.8	11.6	74.4
Total	Lumens	2191.2	492.4	2683.6
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	14.1	0.5
20°-30°	29.8	1.1
30°-40°	60.8	2.3
40°-50°	154.5	5.8
50°-60°	496.6	18.5
60°-70°	810.5	30.2
70°-80°	461.4	17.2
80°-90°	160.6	6.0
90°-100°	99.9	3.7
100°-110°	63.6	2.4
110°-120°	70.0	2.6
120°-130°	118.4	4.4
130°-140°	69.8	2.6
140°-150°	37.6	1.4
150°-160°	19.0	0.7
160°-170°	10.4	0.4
170°-180°	3.7	0.1
0°-90°	2191.2	81.7
0°-180°	2683.6	100.0



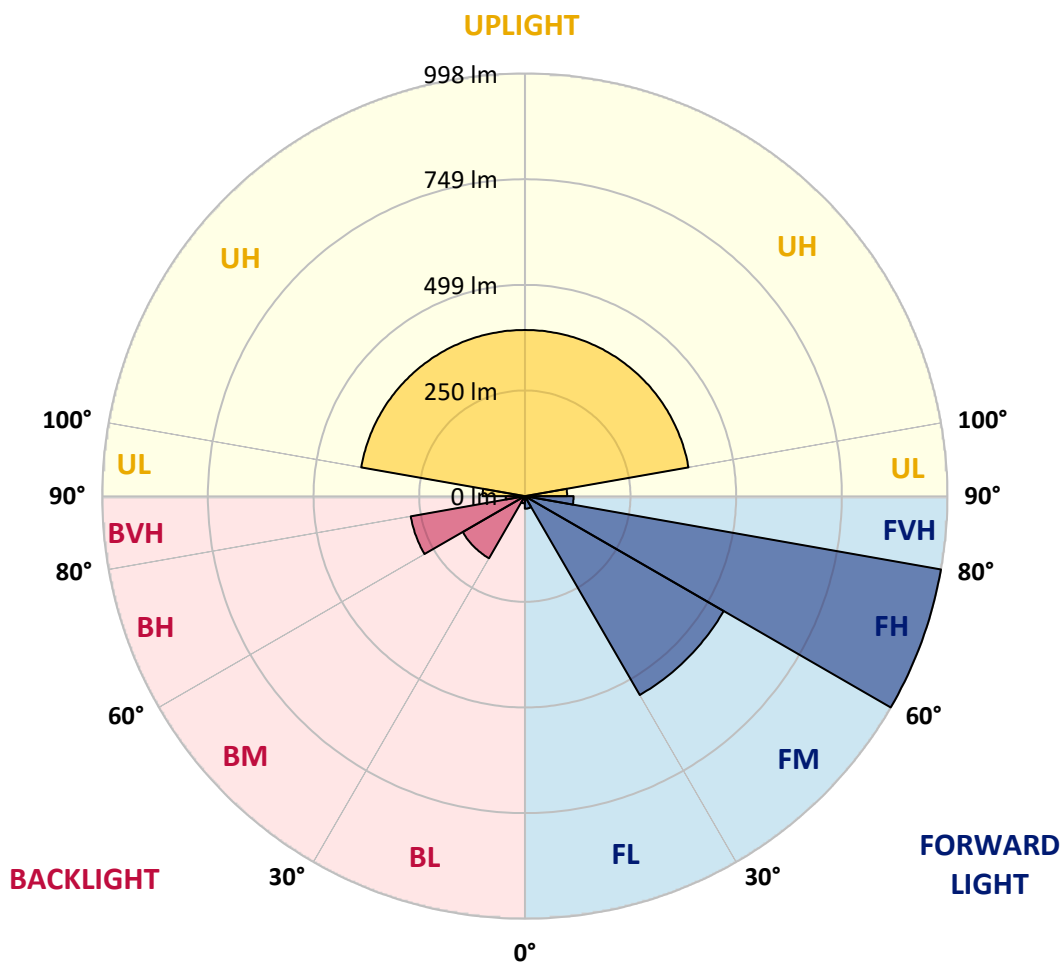
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	29.8	1.1			
FM (30°-60°)	542.5	20.2			
FH (60°-80°)	998.2	37.2			G1/1800
FVH (80°-90°)	115.1	4.3			G2/225
BL (0°-30°)	17.0	0.6	B0/110		
BM (30°-60°)	169.4	6.3	B0/220		
BH (60°-80°)	273.7	10.2	B1/500		G1/500
BVH (80°-90°)	45.4	1.7			G1/100
UL (90°-100°)	99.9	3.7		U3/500	
UH (100°-180°)	392.5	14.6		U3/500	

BUG Rating: B1-U3-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	21.3	21.3	21.8	21.8	21.8	21.3	21.0	20.5	20.5	20.5	20.2
5°	27.7	27.4	27.7	28.5	28.8	27.9	27.4	26.5	26.5	26.3	26.3
7.5°	37.3	37.1	36.5	35.7	36.0	36.8	37.9	35.7	35.1	33.7	33.2
10°	46.7	46.2	46.7	45.4	44.0	42.0	43.1	42.6	41.5	40.1	39.0
12.5°	57.0	57.2	58.4	57.2	55.0	52.0	51.4	50.1	48.9	48.7	47.0
15°	67.5	67.8	68.9	68.6	66.4	62.2	60.6	59.2	58.6	57.0	53.4
17.5°	73.0	73.3	73.6	73.8	72.5	69.1	66.6	64.2	63.3	62.8	58.4
20°	75.8	75.2	75.8	76.9	78.0	75.2	72.7	71.3	70.5	68.6	62.8
22.5°	80.2	79.6	79.4	80.2	83.5	81.6	79.1	77.7	76.9	74.4	65.5
25°	84.9	84.3	85.2	84.6	88.8	87.9	85.5	84.1	83.0	79.9	69.7
27.5°	90.2	89.6	90.4	89.9	93.2	93.7	92.1	91.0	89.3	84.9	72.7
30°	94.6	94.0	94.9	94.6	97.9	99.8	99.0	98.7	96.2	91.0	78.0
32.5°	98.2	97.9	99.8	100.7	101.5	105.9	105.4	107.9	105.1	98.7	85.7
35°	106.5	107.3	112.6	118.1	118.9	127.8	128.9	138.0	135.2	126.9	111.2
37.5°	164.5	161.5	156.2	151.0	149.1	166.2	168.7	177.8	170.9	155.4	130.0
40°	175.3	170.3	164.3	160.1	160.7	191.4	186.1	220.7	201.0	177.8	158.7
42.5°	166.5	164.8	186.1	196.1	188.9	233.7	224.8	290.6	268.2	211.3	191.6
45°	208.8	205.5	212.9	222.9	225.1	307.5	301.4	370.3	361.2	264.1	245.8
47.5°	238.9	235.9	245.8	279.6	308.6	397.7	430.9	530.1	498.0	375.3	333.0
50°	329.4	328.8	359.5	399.6	450.5	578.5	666.7	778.2	726.5	531.2	456.6
52.5°	418.7	419.8	457.4	528.5	581.3	807.5	932.8	1010.8	1017.7	692.7	591.8
55°	486.2	493.1	538.4	657.6	737.5	1011.3	1173.9	1234.5	1303.6	936.1	732.6
57.5°	617.8	628.3	671.4	788.1	899.9	1265.2	1484.7	1491.4	1594.5	1206.0	883.5
60°	732.8	757.4	772.7	878.6	1030.9	1507.7	1715.7	1702.4	1799.2	1429.7	1036.8
62.5°	768.5	796.7	811.1	923.9	1134.6	1643.8	1823.5	1840.1	1906.7	1586.8	1130.5
65°	791.7	824.9	846.5	946.3	1135.8	1701.8	1905.4	1923.1	1964.3	1652.6	1177.2
67.5°	779.8	822.2	849.8	938.6	1076.0	1657.0	1889.1	1855.0	1898.7	1597.6	1125.0
70°	680.8	725.1	753.0	819.1	899.6	1393.2	1628.5	1571.6	1610.0	1333.5	925.0
72.5°	554.7	576.6	593.7	630.0	678.1	1027.6	1237.5	1190.2	1213.2	1003.3	693.3
75°	455.7	462.4	483.7	504.4	512.4	751.6	980.3	937.2	964.0	763.8	551.7
77.5°	331.0	334.9	365.3	368.6	366.7	515.7	772.7	734.8	743.3	567.7	411.8
80°	192.2	199.7	239.5	237.5	234.2	317.7	544.0	528.7	502.2	385.5	285.1
82.5°	135.5	143.0	161.2	165.4	163.2	228.1	353.1	343.2	314.4	268.2	197.2
85°	142.7	143.5	144.4	146.3	142.7	203.5	270.5	265.5	265.8	221.8	162.6
87.5°	140.8	144.1	145.5	146.3	142.7	193.3	251.4	245.0	248.1	210.7	157.9
90°	123.6	129.7	130.3	131.6	129.7	172.6	225.7	219.6	223.4	190.0	143.8
92.5°	100.9	104.3	108.1	113.4	111.2	147.7	191.9	187.5	192.2	164.5	126.4
95°	95.7	99.3	101.8	105.4	102.0	134.7	173.4	164.5	168.4	144.1	109.0
97.5°	79.1	82.1	84.3	85.7	83.2	106.2	133.0	126.9	126.7	111.4	87.1
100°	67.5	69.4	71.3	72.7	70.5	87.9	105.4	103.1	103.7	92.1	74.9
102.5°	64.2	65.3	68.3	68.6	66.1	80.2	94.9	94.0	95.1	85.2	70.2
105°	62.8	63.6	66.1	65.3	63.1	74.9	87.4	87.9	87.9	79.4	65.8
107.5°	58.6	60.0	62.8	61.4	60.3	69.1	80.5	78.5	79.1	73.8	62.5
110°	58.1	59.2	61.9	60.8	60.0	67.5	77.4	76.9	77.7	73.0	64.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	72.2	71.1	73.3	71.1	72.5	78.8	89.3	88.2	90.7	89.0	80.2
115°	89.0	89.6	91.8	87.4	88.8	95.1	100.9	102.9	105.1	102.6	93.5
117.5°	82.4	87.1	84.3	83.8	82.7	87.7	86.8	91.8	94.0	92.1	88.5
120°	88.2	94.0	86.0	81.9	80.2	92.6	98.7	98.4	96.8	92.9	85.5
122.5°	131.9	132.7	133.3	145.7	141.3	153.5	157.1	152.4	152.4	157.4	142.1
125°	205.7	206.6	206.0	211.6	208.5	220.1	224.8	224.6	221.8	219.3	204.4
127.5°	208.0	208.0	206.0	203.0	205.7	217.1	217.4	227.9	224.3	217.6	203.8
130°	145.2	146.3	153.2	155.4	159.3	161.8	159.0	168.1	169.8	168.7	159.3
132.5°	120.3	122.2	129.7	132.5	135.0	135.2	134.1	141.3	143.0	143.0	138.8
135°	104.0	106.2	107.0	105.6	109.2	112.0	114.2	120.0	119.5	118.4	114.8
137.5°	90.7	91.5	89.0	86.0	87.9	96.0	100.4	106.5	106.2	104.3	98.2
140°	76.6	76.9	75.5	74.1	76.0	83.0	87.1	93.7	92.9	91.5	84.3
142.5°	58.1	58.9	62.5	65.3	70.0	84.3	82.1	87.9	92.1	95.4	78.8
145°	61.1	60.0	59.5	62.5	68.6	89.3	83.0	90.4	92.4	94.6	75.5
147.5°	70.5	71.1	70.2	68.3	76.6	83.2	79.6	86.3	87.4	86.8	79.1
150°	55.3	56.1	56.4	55.6	65.8	65.5	61.9	66.9	67.5	67.5	62.2
152.5°	45.1	45.4	44.8	44.2	50.9	49.8	48.1	49.8	49.5	49.2	48.1
155°	42.9	42.9	42.3	42.6	47.0	45.9	44.8	45.9	45.4	44.5	43.4
157.5°	39.5	39.8	39.8	40.7	43.4	41.5	40.4	40.9	40.4	39.8	39.8
160°	37.3	37.3	37.6	38.7	40.4	38.4	37.6	37.9	37.6	37.1	37.3
162.5°	36.5	36.5	36.8	37.3	37.6	36.5	35.7	35.7	35.7	35.7	36.5
165°	36.0	36.0	36.0	36.2	36.2	35.4	35.1	35.4	35.7	36.0	37.1
167.5°	37.1	37.1	37.1	37.1	36.8	36.2	36.0	36.2	36.5	36.8	37.6
170°	38.7	38.4	38.4	38.2	37.9	37.3	37.1	36.8	36.8	37.1	37.3
172.5°	39.8	39.8	39.5	39.5	39.3	38.7	38.2	37.9	37.9	37.9	37.9
175°	41.2	41.2	41.2	41.2	40.9	40.4	40.1	39.5	39.5	39.5	39.5
177.5°	42.9	42.9	42.9	42.9	42.3	41.8	41.2	40.7	40.7	40.7	40.4
180°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	19.9	19.6	18.8	18.5	18.3	17.7	17.1	16.9	16.6	16.6	16.9
5°	26.5	26.3	26.3	25.4	24.6	23.2	22.7	22.7	23.0	23.2	23.8
7.5°	33.5	34.0	34.6	33.2	30.7	27.4	25.4	26.0	27.4	28.5	28.5
10°	38.7	38.7	40.7	39.0	34.8	30.7	27.9	27.4	27.7	27.9	28.2
12.5°	46.2	46.2	45.1	40.7	36.5	32.4	30.1	29.6	29.6	28.5	28.2
15°	51.7	50.1	46.2	42.0	38.4	34.3	31.8	31.0	30.1	29.3	29.0
17.5°	55.0	52.0	46.7	42.9	39.3	36.0	33.5	31.8	31.0	31.2	31.2
20°	58.9	55.6	50.9	46.7	42.3	37.9	34.8	32.4	31.5	31.8	31.5
22.5°	61.9	58.6	53.9	49.2	44.5	39.8	36.2	33.2	32.1	32.4	32.4
25°	65.5	62.8	57.8	52.3	46.5	42.0	38.4	34.8	33.2	32.9	32.9
27.5°	69.1	67.2	61.9	55.3	49.2	44.0	40.4	36.2	34.3	33.5	33.5
30°	73.8	71.6	66.4	58.4	51.7	46.7	42.9	38.4	35.7	34.3	34.0
32.5°	81.3	78.8	72.5	63.9	54.5	49.5	45.4	40.4	36.8	35.1	34.8
35°	105.6	101.8	91.8	81.9	66.6	55.3	48.4	42.0	37.9	35.7	35.4
37.5°	120.8	111.4	98.2	91.5	74.9	67.8	58.4	48.1	39.5	36.8	36.2
40°	145.5	132.5	115.9	102.9	73.0	74.1	68.3	60.0	47.0	38.7	37.9
42.5°	166.2	149.9	124.7	107.9	73.3	77.4	73.0	66.1	56.4	45.9	44.2
45°	204.9	183.9	144.9	115.9	75.2	82.4	76.9	69.7	61.1	53.9	53.1
47.5°	276.8	248.3	181.1	129.1	87.9	95.7	85.7	76.3	68.6	60.3	58.9
50°	378.9	344.8	222.9	139.7	109.8	126.1	108.1	92.4	83.5	77.4	76.6
52.5°	496.4	460.7	253.6	159.0	136.3	163.7	143.0	124.7	113.1	113.1	114.8
55°	633.0	597.3	278.2	185.8	169.0	205.2	182.8	167.9	162.3	185.8	192.2
57.5°	768.5	723.2	294.8	213.2	207.1	253.9	227.0	214.3	224.6	294.2	315.8
60°	892.1	817.2	307.8	239.2	239.8	292.6	272.7	271.8	287.6	376.6	404.0
62.5°	963.5	861.4	307.0	254.1	258.8	316.6	300.0	304.5	313.3	390.5	411.2
65°	1012.4	882.4	300.6	260.8	266.9	325.2	304.5	297.0	291.2	345.7	365.6
67.5°	978.7	833.2	286.2	251.1	261.9	312.8	285.4	264.1	252.8	280.4	294.0
70°	819.7	694.9	253.3	225.9	235.9	263.5	237.3	216.3	204.4	219.3	225.7
72.5°	620.8	528.7	228.4	211.3	206.9	217.9	193.0	169.5	162.3	172.0	173.4
75°	494.5	413.7	210.2	191.1	173.7	184.5	154.0	125.5	121.4	121.4	119.2
77.5°	370.8	306.7	179.2	148.8	128.0	145.7	114.8	87.4	81.9	80.7	77.7
80°	248.6	208.8	120.6	98.7	92.1	108.1	81.6	64.2	64.4	64.2	60.6
82.5°	173.7	161.2	97.9	86.0	78.8	85.2	73.8	61.7	61.1	61.7	57.8
85°	154.0	147.7	94.9	88.8	81.3	82.1	70.8	58.4	58.6	59.7	56.4
87.5°	147.9	140.8	95.1	85.7	79.4	76.0	64.2	53.9	55.6	56.7	53.9
90°	133.3	126.1	87.4	77.4	70.8	66.1	56.7	51.2	53.4	54.5	52.0
92.5°	115.6	108.1	72.7	68.3	66.6	66.6	59.5	54.5	55.9	56.4	54.2
95°	99.6	92.4	64.7	60.0	58.6	58.9	53.1	48.9	49.8	49.5	47.8
97.5°	80.5	76.0	56.4	53.4	52.0	51.4	47.6	44.5	46.2	47.3	45.9
100°	71.1	68.9	54.5	52.3	50.3	50.1	46.7	44.8	46.2	47.8	46.7
102.5°	66.4	64.7	52.0	48.9	47.6	47.0	44.8	42.6	44.0	45.6	44.8
105°	62.5	60.0	49.8	47.0	45.1	44.8	42.6	39.8	40.7	42.9	42.3
107.5°	59.2	57.5	49.5	46.5	44.0	44.0	41.5	39.3	39.5	40.4	40.4
110°	61.9	60.0	51.4	49.2	45.9	44.8	44.2	42.6	41.2	40.7	40.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	76.6	73.0	64.4	61.9	56.4	52.5	48.9	45.6	43.4	42.6	42.0
115°	90.4	86.3	76.0	69.7	62.2	56.4	51.4	47.8	44.5	43.4	44.5
117.5°	93.2	82.1	66.4	61.1	56.7	53.1	50.3	47.6	45.1	45.9	45.1
120°	92.4	78.8	66.9	74.4	66.9	58.6	52.0	52.0	51.2	47.0	47.8
122.5°	142.1	132.7	118.4	113.9	92.9	84.9	72.5	61.9	51.7	45.9	43.1
125°	194.7	185.6	163.4	146.6	125.5	103.4	79.4	61.1	47.8	42.3	43.1
127.5°	195.8	187.5	166.5	138.0	110.3	88.5	66.1	54.2	46.7	43.1	42.6
130°	152.7	144.6	126.7	104.8	87.4	73.0	59.5	48.9	42.3	39.5	38.7
132.5°	132.2	125.0	108.4	88.5	75.8	64.4	53.1	42.6	38.2	36.2	36.5
135°	111.2	102.6	86.8	76.0	68.0	57.8	47.6	39.0	36.8	36.2	36.0
137.5°	94.3	88.2	77.2	68.9	61.1	52.0	41.8	36.5	35.7	36.2	35.7
140°	80.2	75.2	69.1	61.9	52.5	44.0	37.3	34.8	36.2	36.5	36.2
142.5°	69.1	64.2	57.8	48.1	43.7	39.8	38.2	36.2	36.2	36.0	35.7
145°	57.8	51.2	48.1	49.5	46.7	42.9	39.8	36.0	34.6	34.6	34.8
147.5°	66.4	59.5	55.6	52.5	47.3	41.8	37.1	33.5	32.9	34.0	33.7
150°	57.2	50.9	48.1	44.0	40.7	36.5	33.5	32.1	32.4	33.7	33.7
152.5°	45.6	41.2	39.5	38.4	36.8	34.3	32.6	32.1	32.6	33.2	33.2
155°	42.9	40.4	38.4	37.6	35.7	33.7	32.4	32.1	32.6	33.2	33.7
157.5°	40.1	39.3	36.8	36.0	34.3	33.5	32.6	32.6	32.9	33.5	34.0
160°	38.2	37.9	35.7	35.4	34.3	33.7	33.7	34.0	34.3	34.3	34.3
162.5°	37.1	37.1	36.2	35.7	35.4	35.1	36.0	36.2	36.0	36.0	36.0
165°	37.3	37.6	36.8	36.2	36.0	36.5	37.9	37.9	37.3	37.1	36.8
167.5°	37.6	37.9	37.3	37.1	37.1	37.6	38.2	37.9	37.6	37.3	37.1
170°	37.3	37.6	37.6	37.9	37.9	37.9	38.4	38.4	37.9	37.6	37.6
172.5°	37.9	38.2	38.4	38.7	39.0	38.7	39.0	39.0	39.0	39.0	39.3
175°	39.5	39.5	39.8	39.8	39.5	39.8	39.8	39.8	40.1	40.7	40.7
177.5°	40.4	40.4	40.1	40.1	39.8	40.1	40.1	40.1	40.1	40.4	40.1
180°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9

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

Streetworks

Report Number: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

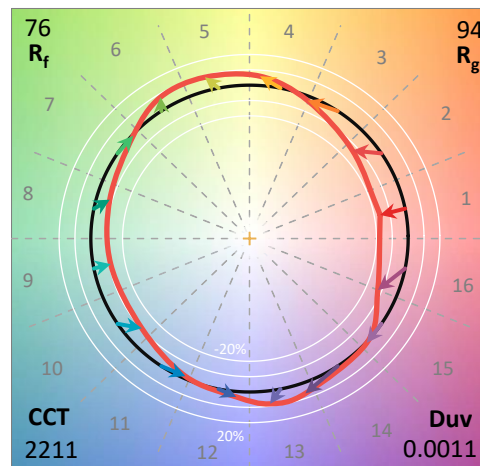
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

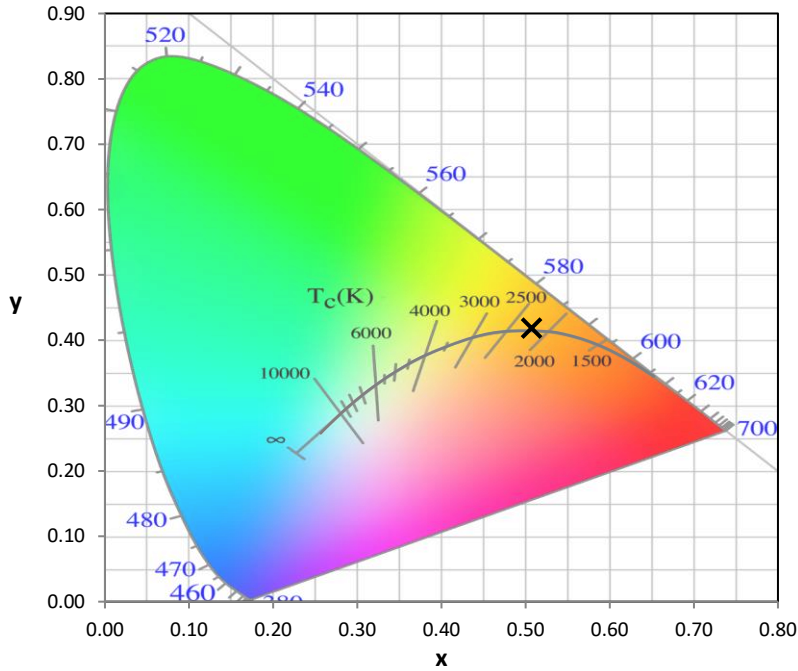
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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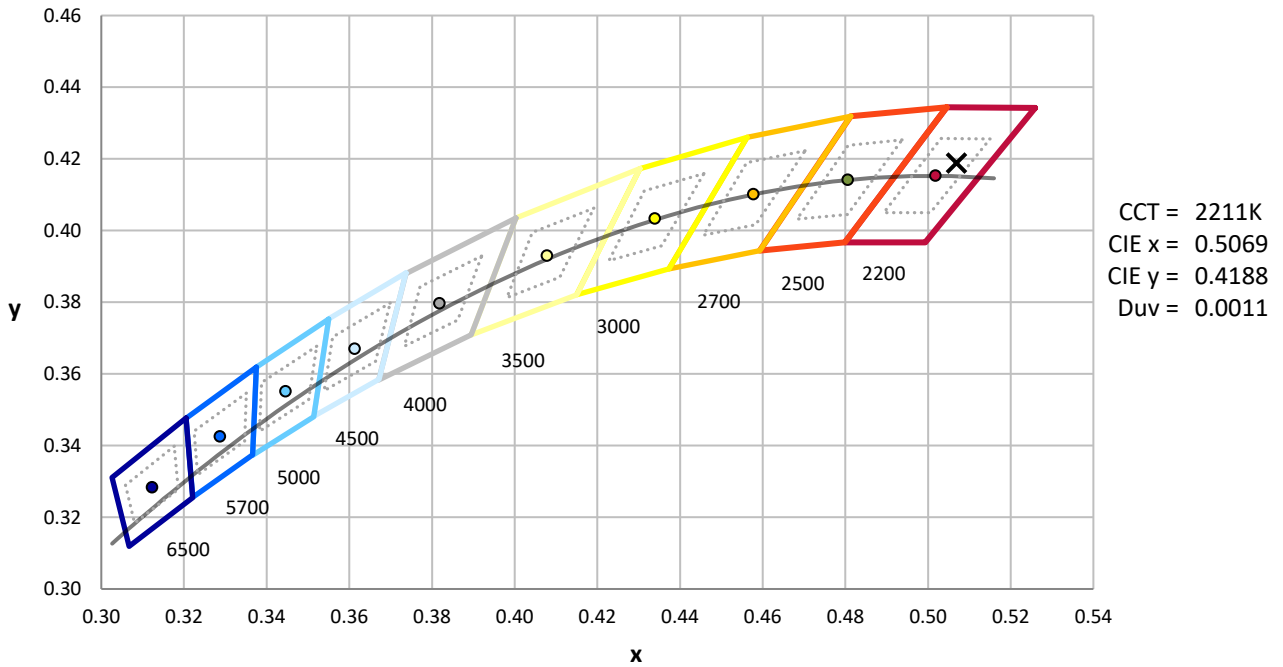
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

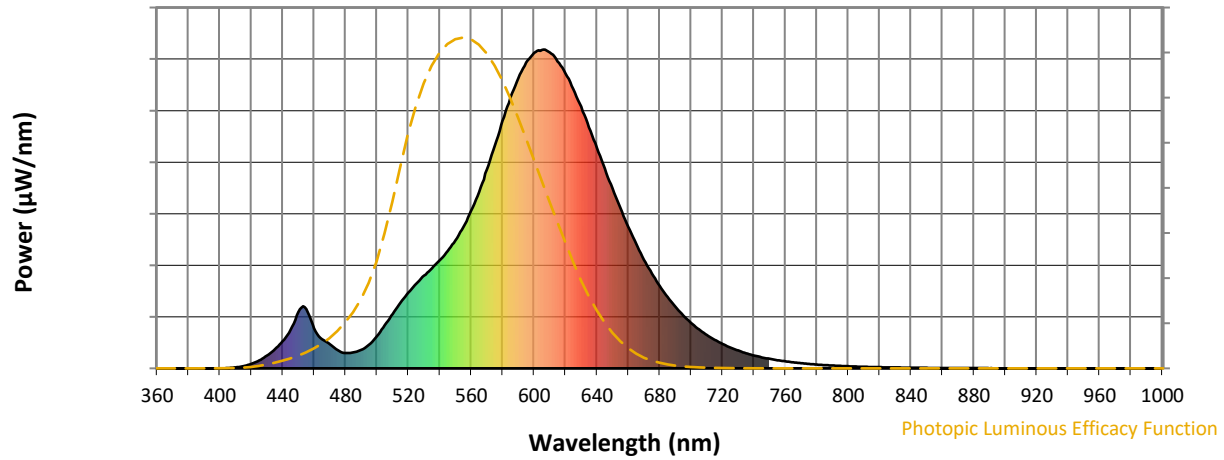


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

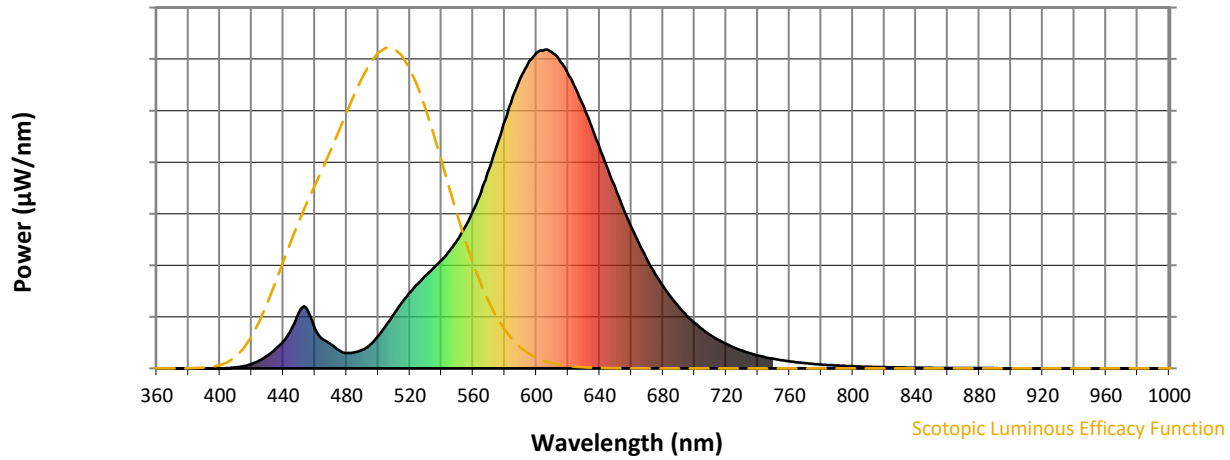


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



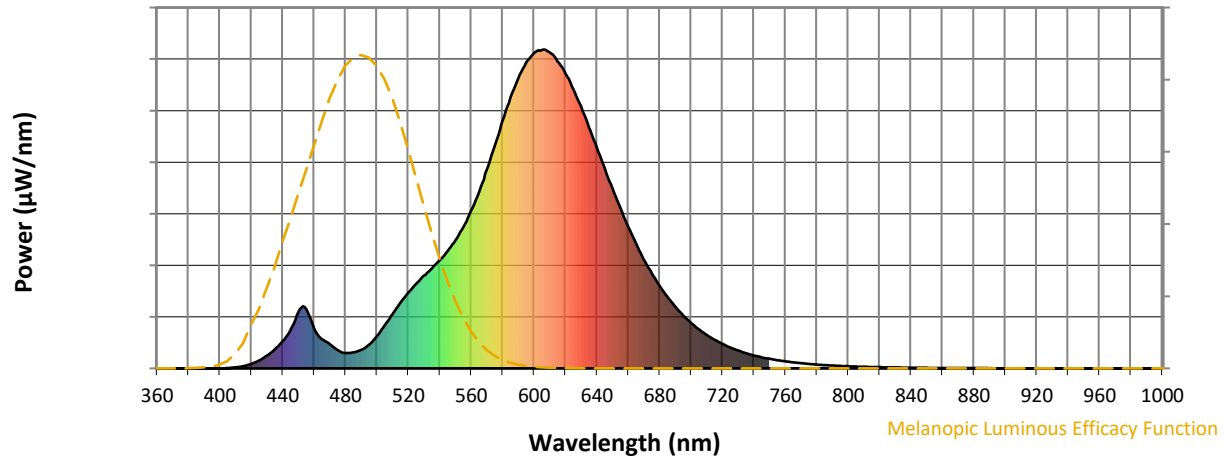
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

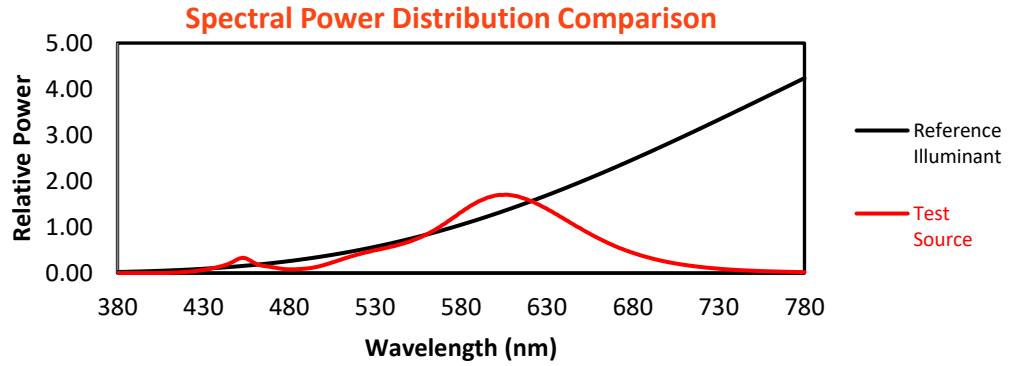
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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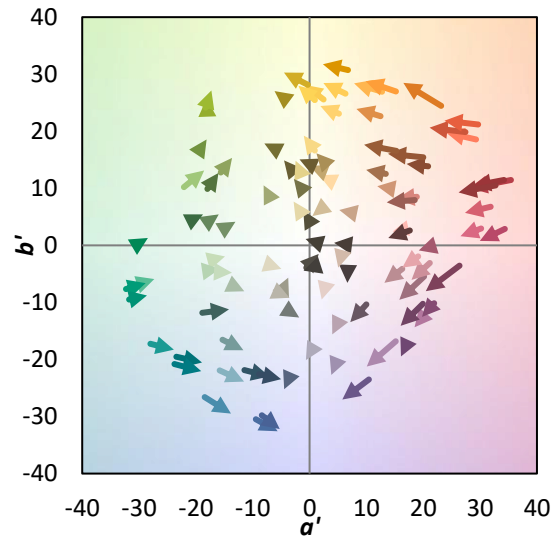
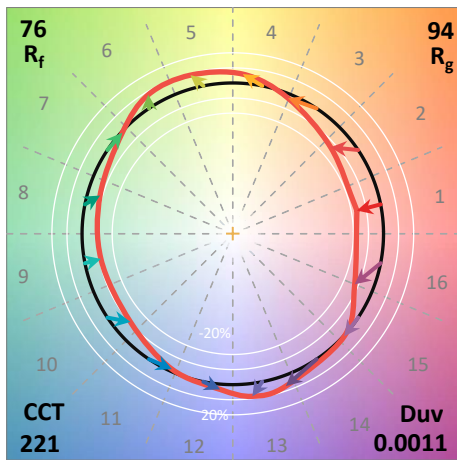
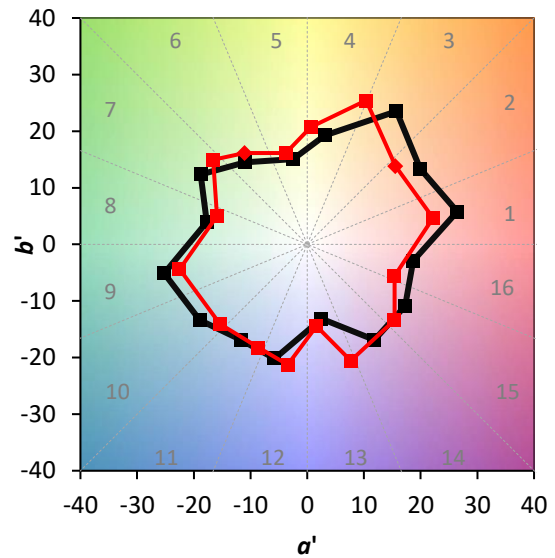
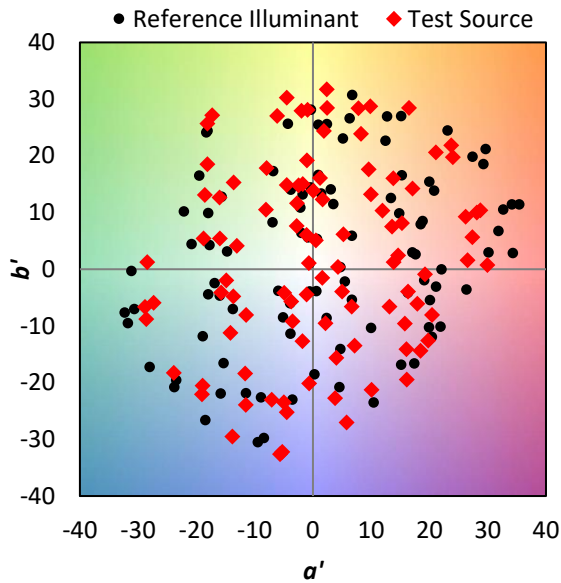
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

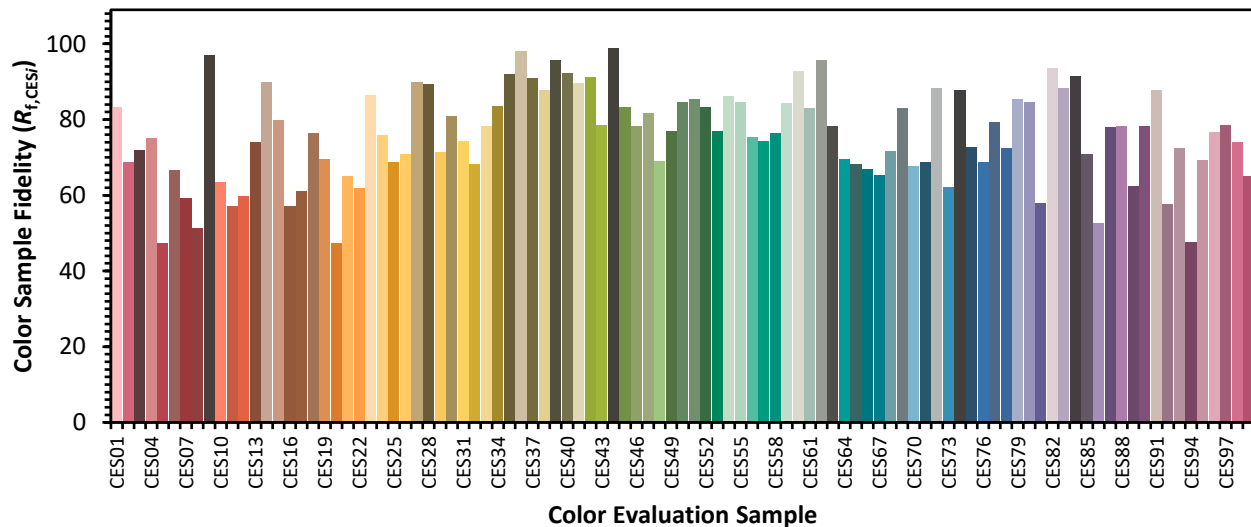


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TM-30-18

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

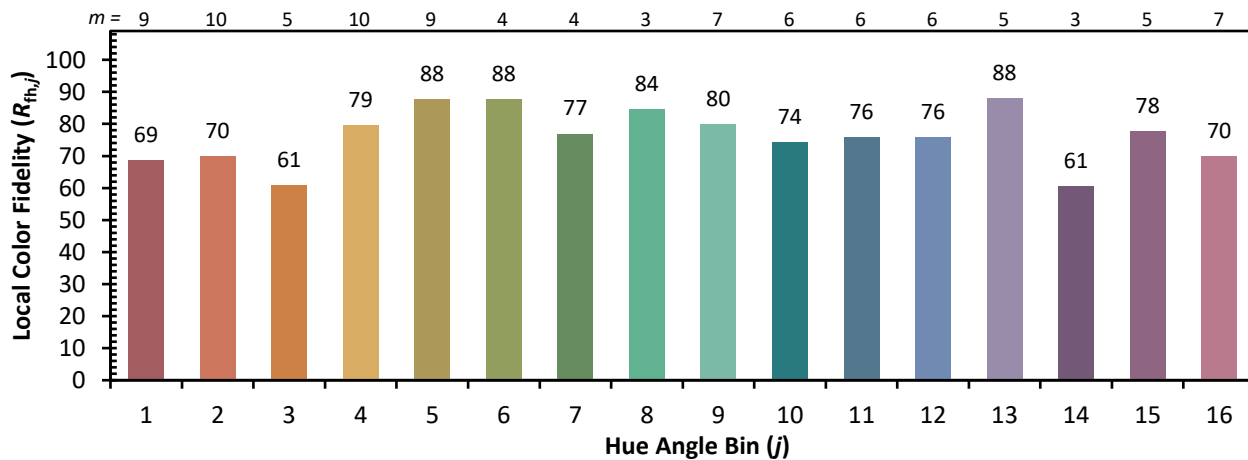
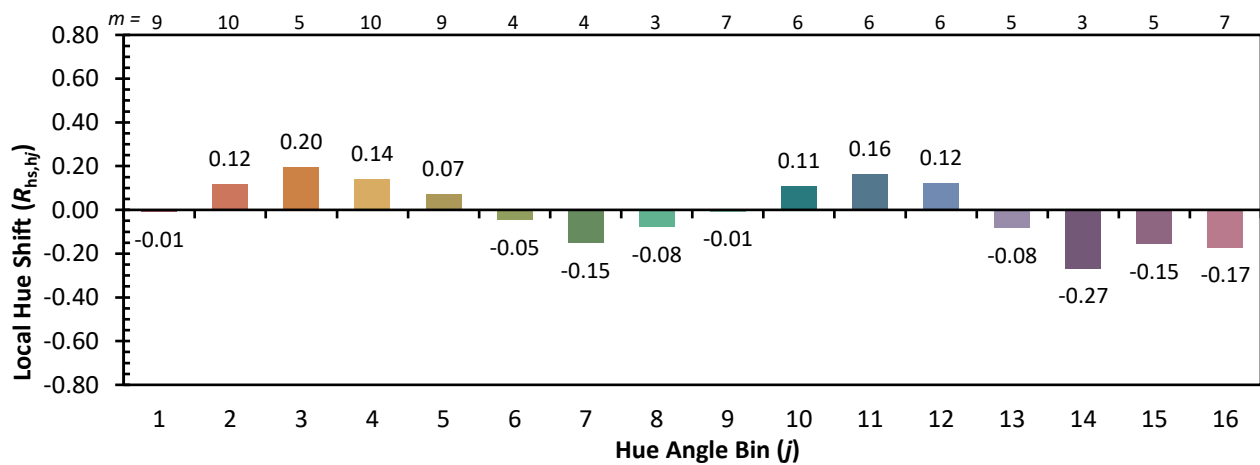
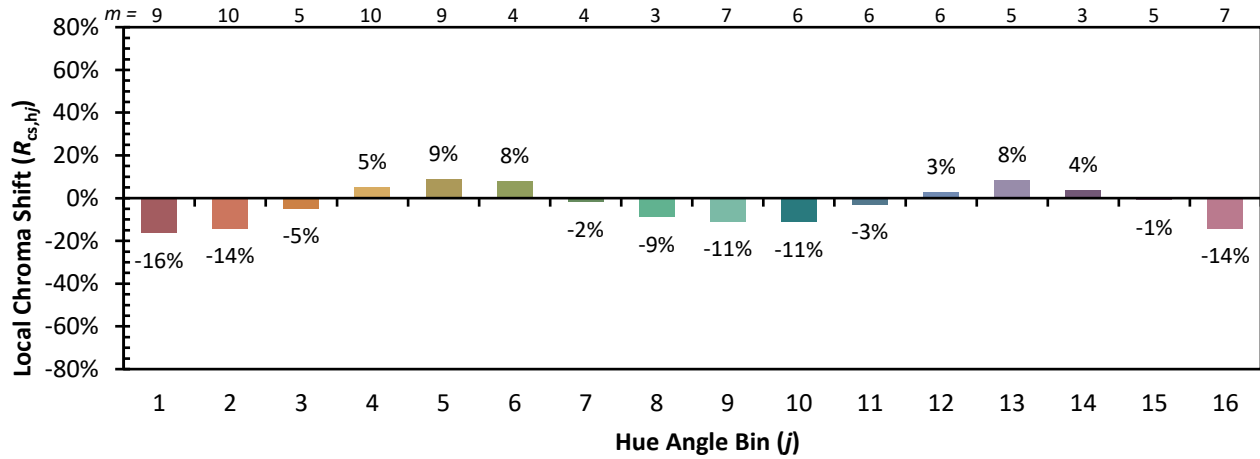
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



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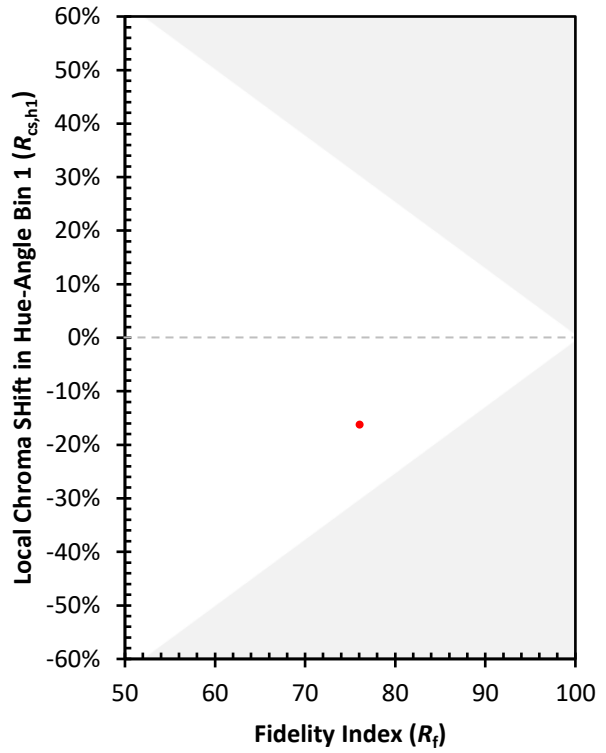
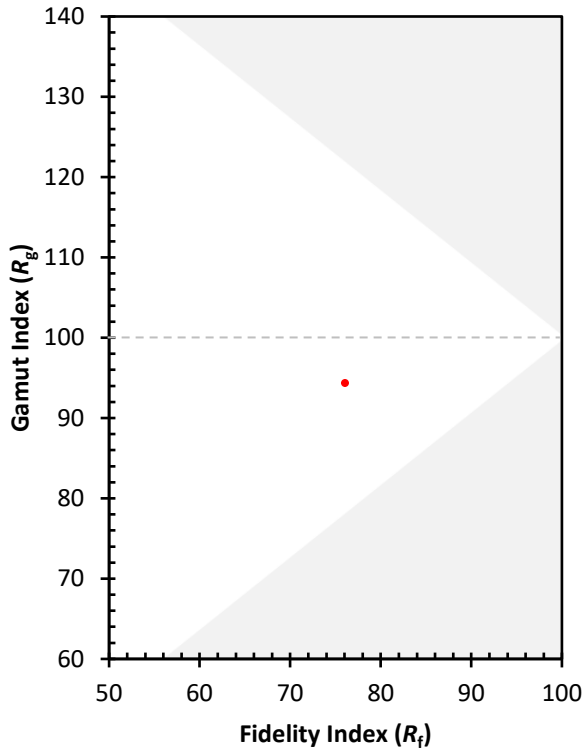
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)