

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: McGRAW-EDISON

Report Number: P1049594

Luminaire Tested: **GALN-SA7B-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049594
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27660.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

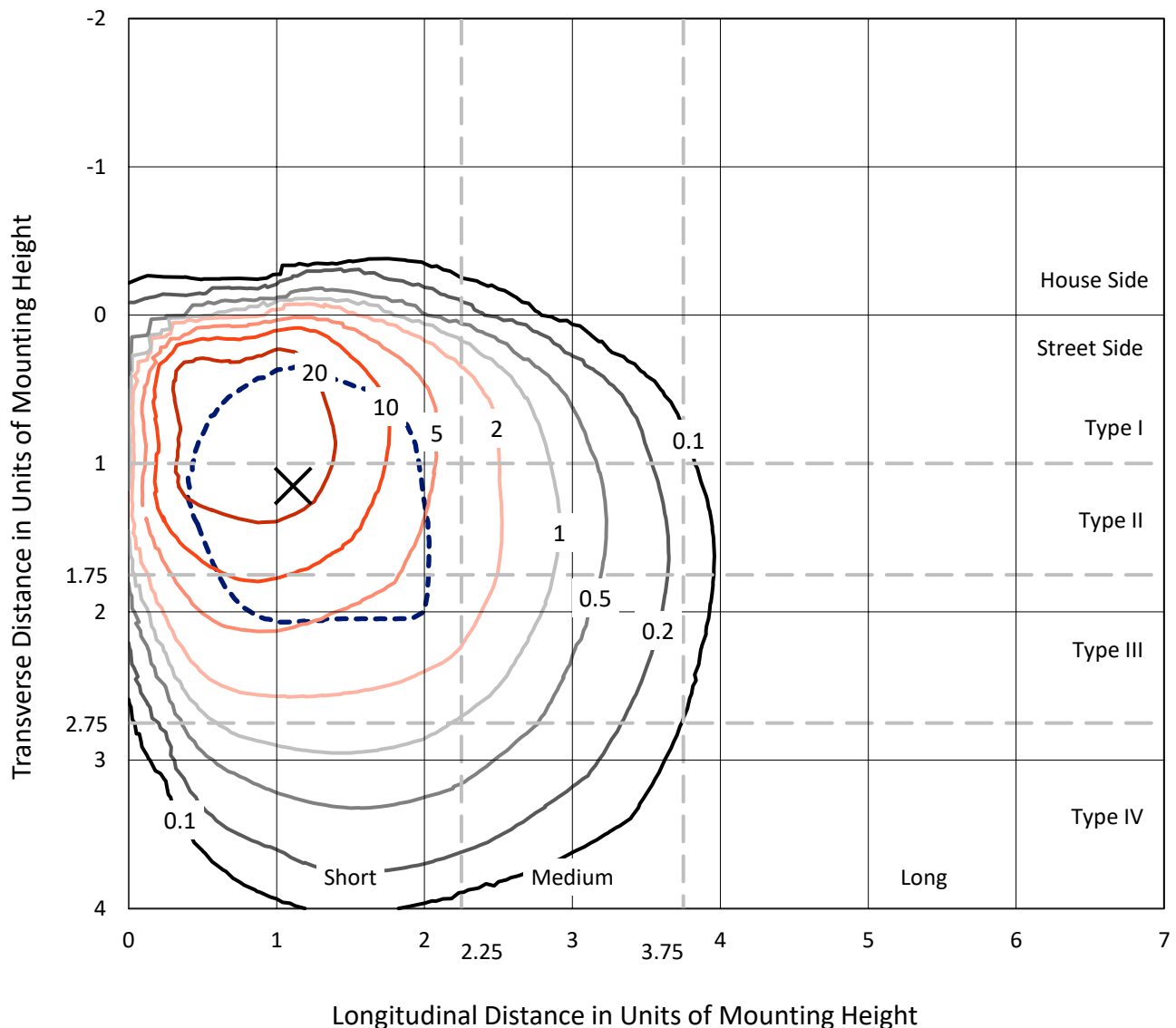
Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

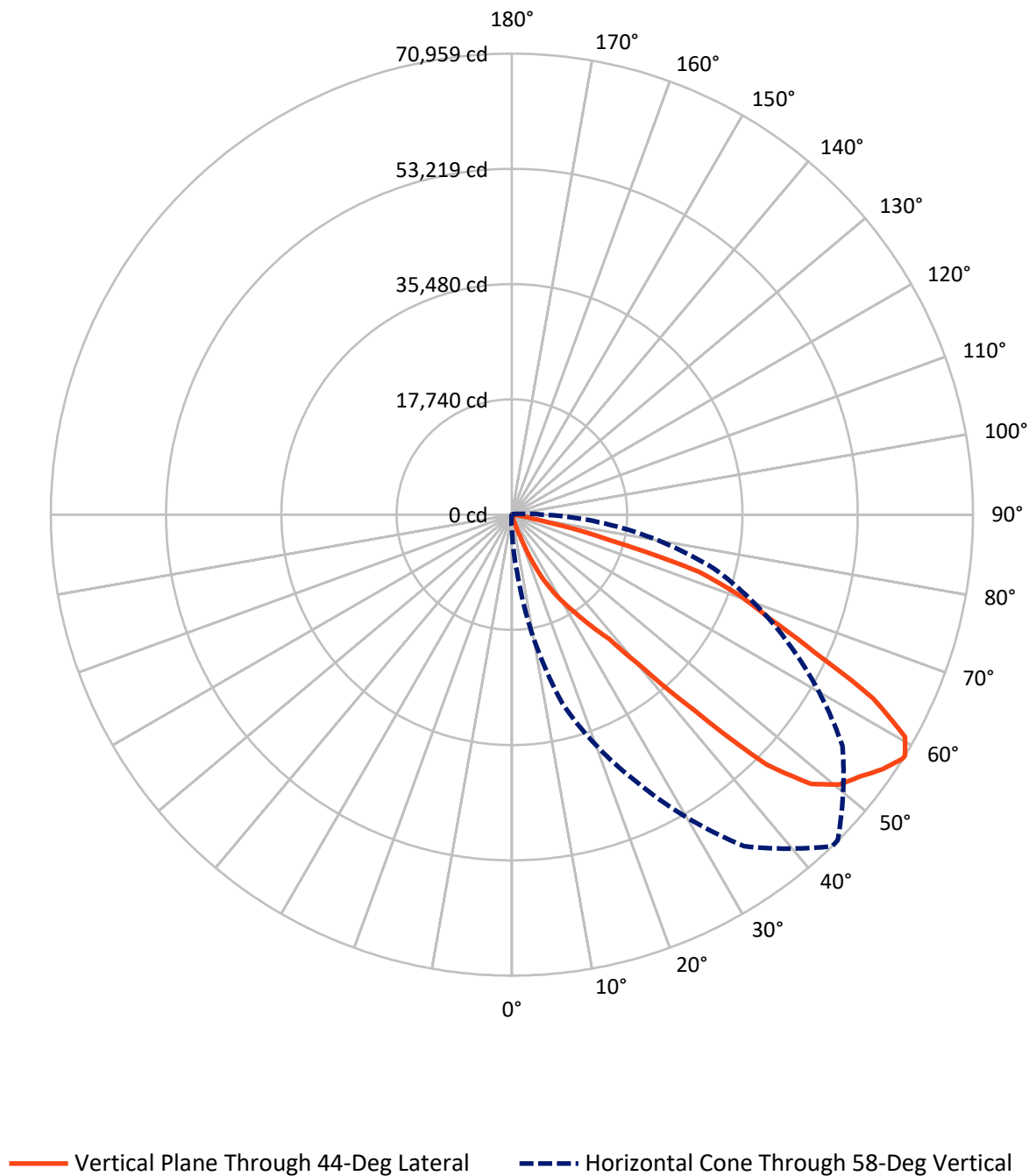


Based on 20 foot mounting height. Maximum calculated value = 48.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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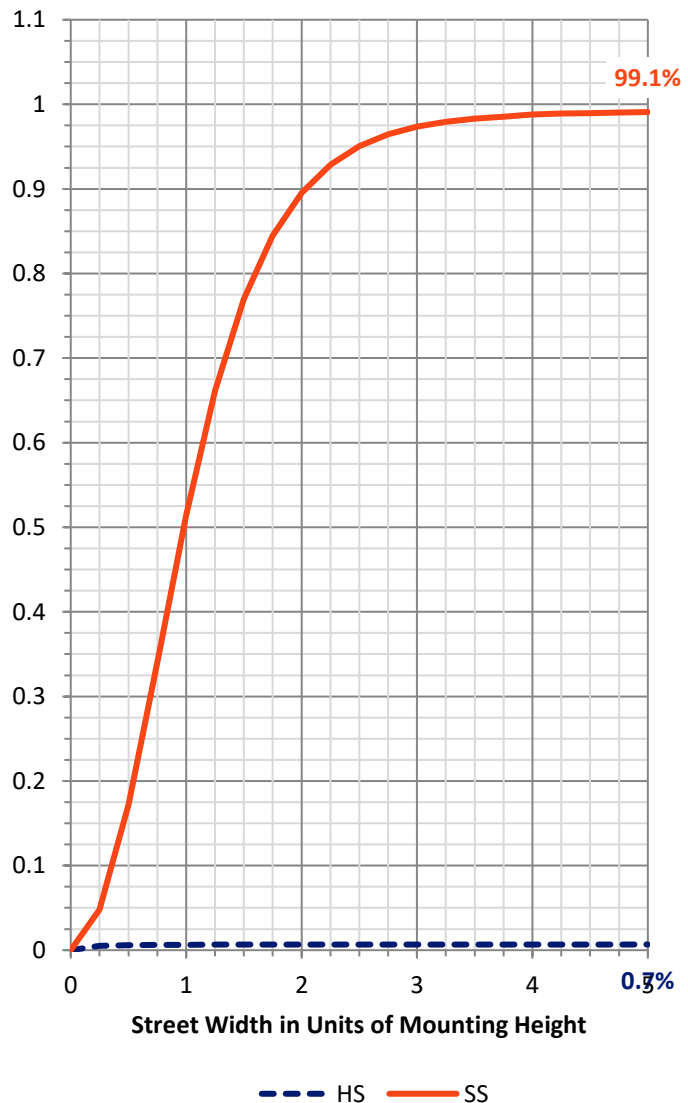
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.9	0.0	188.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27471.3	0.0	27471.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	27660.2	0.0	27660.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.0
10°-20°	60.7	0.2
20°-30°	655.3	2.4
30°-40°	1937.9	7.0
40°-50°	5775.9	20.9
50°-60°	9164.9	33.1
60°-70°	7644.7	27.6
70°-80°	2357.7	8.5
80°-90°	52.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27660.2	100.0
0°-180°	27660.2	100.0



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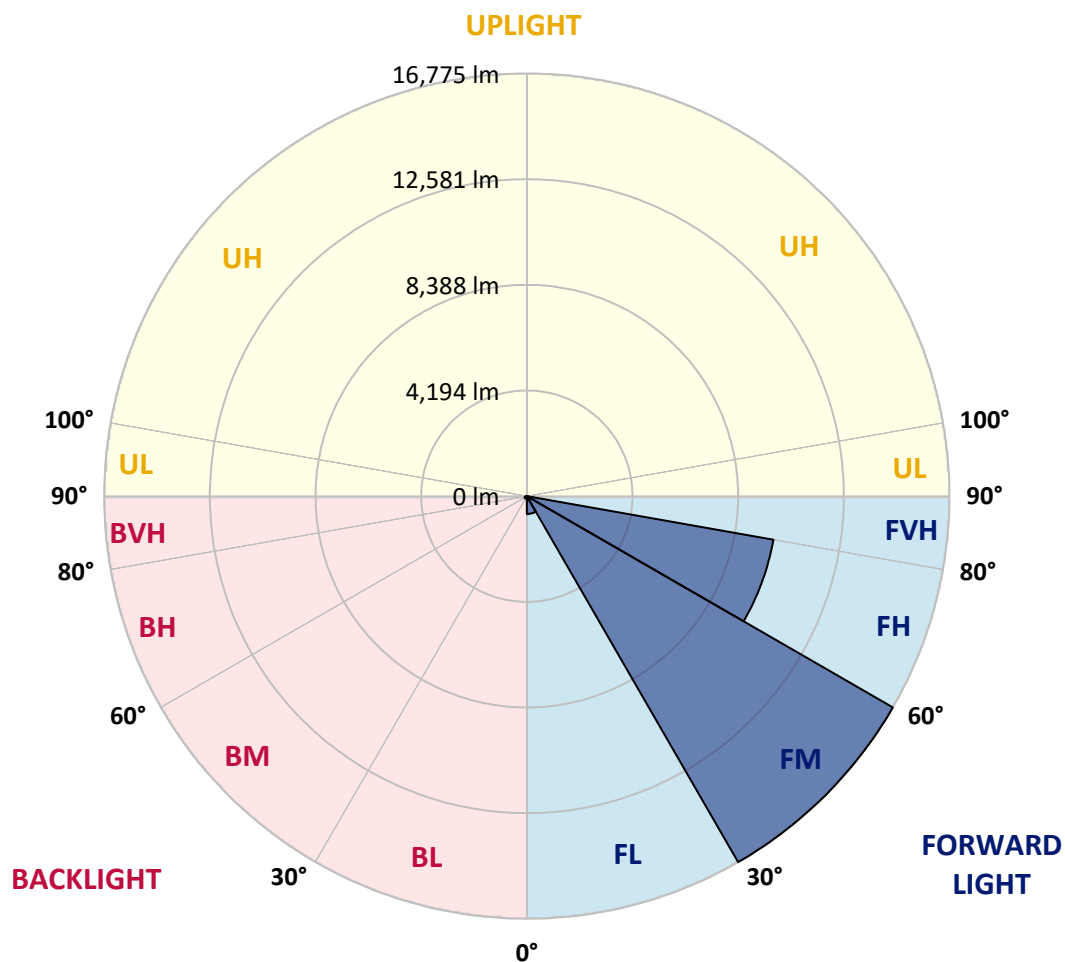
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.3	2.6			
FM	(30°-60°)	16775.3	60.6			
FH	(60°-80°)	9937.9	35.9			G4/12000
FVH	(80°-90°)	49.8	0.2			G1/100
BL	(0°-30°)	18.5	0.1	B0/110		
BM	(30°-60°)	103.4	0.4	B0/220		
BH	(60°-80°)	64.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
2.5°	156.7	156.7	150.4	142.1	133.7	125.4	123.3	119.1	117.0	114.9
5°	163.0	163.0	160.9	154.6	146.3	140.0	140.0	133.7	129.5	125.4
7.5°	167.2	169.2	173.4	171.3	167.2	160.9	160.9	156.7	150.4	140.0
10°	173.4	179.7	188.1	192.2	194.3	194.3	192.2	190.1	179.7	165.1
12.5°	179.7	192.2	213.1	234.0	246.6	263.3	261.2	257.0	229.8	198.5
15°	192.2	211.0	254.9	315.5	409.5	468.0	491.0	470.1	380.3	267.5
17.5°	206.9	238.2	369.8	660.3	1082.4	1282.9	1404.1	1305.9	865.1	507.7
20°	221.5	290.4	687.4	1711.3	2808.3	3464.4	3646.2	3362.0	2158.4	967.4
22.5°	246.6	407.5	1393.7	3537.5	6051.2	7035.3	7221.3	6312.4	4076.6	1909.8
25°	298.8	591.3	2402.9	5764.9	9030.8	10691.9	10614.6	9423.6	6613.2	3050.7
27.5°	374.0	860.9	3633.6	8190.8	11885.0	13349.8	13525.3	12052.2	8815.6	4486.1
30°	482.7	1193.1	4954.2	10134.0	14173.0	15756.9	15786.1	14262.9	10786.0	5746.1
32.5°	587.1	1506.5	6109.7	12012.5	16427.6	18164.0	18293.5	16419.2	12257.0	7058.3
35°	666.5	1711.3	7279.8	13663.2	18701.0	21093.4	21085.1	18859.8	13999.6	8230.5
37.5°	672.8	1916.1	8339.2	15351.5	21580.3	24259.0	24524.4	22071.3	16105.8	9680.6
40°	658.2	2145.9	9680.6	17984.3	26768.5	30878.5	31112.6	28020.1	20330.8	12162.9
42.5°	674.9	2545.0	11857.9	22846.5	35383.5	41286.3	41737.6	38486.4	28097.4	17227.9
45°	762.7	3295.1	16419.2	30980.9	47663.4	54859.6	54709.2	50026.6	37134.5	24938.1
47.5°	1053.1	5131.8	23180.8	38898.0	55511.6	61920.0	62049.6	56326.5	42408.4	30866.0
50°	1619.4	7852.3	28862.2	43083.3	58886.1	65315.5	65194.3	58581.0	44412.2	33785.0
52.5°	2106.2	9820.6	31712.2	44552.2	59318.6	66993.3	66985.0	59174.4	44723.5	34035.8
55°	2227.4	9969.0	31735.2	44631.6	60288.1	69189.4	69465.2	60635.0	45126.8	32940.9
57.5°	2179.3	8826.0	30410.5	45091.3	62014.1	70888.1	70902.8	62049.6	46150.6	32270.1
58°	2137.6	8646.3	30143.0	45352.5	62310.8	70959.2	70923.7	62114.4	46984.3	32245.1
60°	1903.5	7507.5	29100.4	46019.0	61869.9	69500.7	69168.5	60699.8	46861.1	31988.1
62.5°	1496.1	5856.8	28074.4	45248.0	57143.5	62440.3	62578.2	53739.7	42719.7	30489.9
65°	1191.0	4365.0	25934.8	39689.9	47055.4	51276.2	51790.2	43699.7	35657.2	25817.8
67.5°	948.6	3155.1	21755.8	31599.4	37234.8	42794.9	43168.9	36689.4	27625.2	19781.2
70°	771.0	2133.4	15017.2	23109.8	30711.4	36963.1	36986.1	30479.4	20619.1	12961.1
72.5°	683.3	1477.3	8717.4	16853.9	24902.6	30120.0	29512.0	24733.3	15846.7	7676.8
75°	591.3	980.0	4275.1	10303.3	15098.7	15201.1	15433.0	11473.4	7921.3	3650.3
77.5°	486.9	695.8	1684.1	2814.5	4527.9	5796.3	6011.5	4555.1	2634.9	898.5
80°	334.3	330.1	453.4	863.0	1295.5	1623.5	1514.9	1172.2	689.5	344.8
82.5°	144.2	156.7	204.8	246.6	200.6	194.3	186.0	119.1	91.9	71.0
85°	46.0	41.8	43.9	43.9	35.5	27.2	27.2	12.5	0.0	0.0
87.5°	23.0	18.8	18.8	16.7	10.4	4.2	2.1	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
121.2	0°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
112.8	2.5°	110.7	110.7	106.6	102.4	100.3	96.1	94.0	91.9	89.8	87.8
121.2	5°	117.0	114.9	108.7	102.4	96.1	89.8	85.7	81.5	77.3	75.2
133.7	7.5°	127.5	123.3	110.7	100.3	91.9	83.6	79.4	73.1	69.0	62.7
148.4	10°	140.0	131.6	114.9	102.4	89.8	79.4	73.1	66.9	60.6	52.2
169.2	12.5°	156.7	142.1	121.2	100.3	85.7	73.1	66.9	58.5	52.2	46.0
196.4	15°	171.3	152.5	123.3	100.3	81.5	66.9	58.5	50.1	43.9	35.5
246.6	17.5°	192.2	160.9	121.2	94.0	75.2	58.5	50.1	43.9	33.4	20.9
365.7	20°	227.8	167.2	117.0	87.8	64.8	48.1	37.6	29.3	14.6	4.2
549.5	22.5°	284.2	183.9	112.8	79.4	56.4	37.6	25.1	10.4	0.0	0.0
835.8	25°	392.8	213.1	112.8	75.2	50.1	27.2	8.4	0.0	0.0	0.0
1186.8	27.5°	522.4	252.8	112.8	64.8	39.7	14.6	0.0	0.0	0.0	0.0
1617.3	30°	654.0	296.7	112.8	56.4	31.3	2.1	0.0	0.0	0.0	0.0
1991.3	32.5°	779.4	334.3	114.9	48.1	20.9	0.0	0.0	0.0	0.0	0.0
2509.5	35°	906.8	340.6	112.8	41.8	12.5	0.0	0.0	0.0	0.0	0.0
3144.7	37.5°	1069.8	328.1	106.6	37.6	6.3	0.0	0.0	0.0	0.0	0.0
4137.2	40°	1316.4	334.3	100.3	35.5	2.1	0.0	0.0	0.0	0.0	0.0
5907.0	42.5°	1771.9	361.5	91.9	35.5	0.0	0.0	0.0	0.0	0.0	0.0
9409.0	45°	3063.2	484.8	83.6	37.6	0.0	0.0	0.0	0.0	0.0	0.0
14125.0	47.5°	5067.0	871.3	81.5	37.6	0.0	0.0	0.0	0.0	0.0	0.0
17014.7	50°	6467.0	1097.0	85.7	39.7	0.0	0.0	0.0	0.0	0.0	0.0
17376.2	52.5°	6456.5	1222.4	89.8	41.8	8.4	0.0	0.0	0.0	0.0	0.0
16016.0	55°	5739.8	1245.3	96.1	46.0	27.2	0.0	0.0	0.0	0.0	0.0
13763.5	57.5°	4797.5	1136.7	110.7	56.4	50.1	0.0	0.0	0.0	0.0	0.0
13410.4	58°	4630.3	1086.5	114.9	58.5	54.3	0.0	0.0	0.0	0.0	0.0
11632.2	60°	3794.5	885.9	146.3	73.1	73.1	0.0	0.0	0.0	0.0	0.0
9536.4	62.5°	2620.2	773.1	167.2	94.0	75.2	0.0	0.0	0.0	0.0	0.0
7031.1	65°	1853.4	697.9	181.8	100.3	60.6	0.0	0.0	0.0	0.0	0.0
4996.0	67.5°	1385.3	643.6	200.6	102.4	31.3	0.0	0.0	0.0	0.0	0.0
3134.2	70°	1061.5	603.9	246.6	108.7	8.4	0.0	0.0	0.0	0.0	0.0
1868.0	72.5°	865.1	557.9	298.8	112.8	0.0	0.0	0.0	0.0	0.0	0.0
1120.0	75°	716.7	503.6	288.4	123.3	0.0	0.0	0.0	0.0	0.0	0.0
597.6	77.5°	476.4	390.7	263.3	123.3	0.0	0.0	0.0	0.0	0.0	0.0
213.1	80°	167.2	154.6	204.8	108.7	0.0	0.0	0.0	0.0	0.0	0.0
43.9	82.5°	25.1	20.9	29.3	37.6	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



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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
121.2	0°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
85.7	2.5°	85.7	85.7	83.6	85.7	85.7	89.8	100.3	114.9	131.6	137.9
73.1	5°	71.0	69.0	66.9	66.9	66.9	73.1	81.5	98.2	117.0	125.4
60.6	7.5°	58.5	56.4	54.3	52.2	52.2	56.4	66.9	85.7	104.5	112.8
50.1	10°	48.1	43.9	41.8	39.7	39.7	43.9	54.3	73.1	94.0	102.4
41.8	12.5°	39.7	33.4	29.3	27.2	25.1	31.3	41.8	58.5	81.5	91.9
31.3	15°	27.2	20.9	14.6	12.5	10.4	16.7	27.2	46.0	69.0	81.5
16.7	17.5°	14.6	6.3	2.1	0.0	0.0	4.2	12.5	33.4	56.4	66.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	41.8	52.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	25.1	35.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	18.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	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	6.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	16.7
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
121.2	0°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
144.2	2.5°	148.4	146.3	142.1	137.9	137.9	137.9	144.2	150.4	156.7	156.7
129.5	5°	137.9	137.9	135.8	131.6	131.6	133.7	142.1	152.5	160.9	163.0
119.1	7.5°	127.5	131.6	127.5	125.4	127.5	129.5	137.9	150.4	163.0	167.2
110.7	10°	121.2	123.3	123.3	121.2	121.2	125.4	133.7	150.4	167.2	173.4
100.3	12.5°	112.8	117.0	114.9	114.9	114.9	119.1	129.5	148.4	171.3	179.7
89.8	15°	104.5	110.7	110.7	108.7	108.7	110.7	125.4	146.3	177.6	192.2
77.3	17.5°	96.1	102.4	104.5	100.3	100.3	104.5	119.1	146.3	181.8	206.9
62.7	20°	79.4	89.8	96.1	89.8	89.8	94.0	108.7	137.9	183.9	221.5
46.0	22.5°	62.7	73.1	81.5	79.4	79.4	81.5	100.3	131.6	186.0	246.6
27.2	25°	46.0	56.4	62.7	66.9	66.9	73.1	91.9	127.5	194.3	298.8
12.5	27.5°	27.2	39.7	48.1	52.2	54.3	62.7	85.7	123.3	208.9	374.0
0.0	30°	12.5	23.0	33.4	41.8	41.8	56.4	79.4	119.1	227.8	482.7
0.0	32.5°	0.0	10.4	16.7	29.3	31.3	46.0	73.1	114.9	254.9	587.1
0.0	35°	0.0	0.0	8.4	23.0	23.0	37.6	66.9	110.7	296.7	666.5
0.0	37.5°	0.0	0.0	0.0	16.7	18.8	33.4	64.8	108.7	305.1	672.8
0.0	40°	0.0	0.0	0.0	12.5	14.6	31.3	64.8	110.7	275.8	658.2
0.0	42.5°	0.0	0.0	0.0	8.4	10.4	31.3	64.8	114.9	248.6	674.9
0.0	45°	0.0	0.0	0.0	6.3	8.4	33.4	62.7	112.8	234.0	762.7
0.0	47.5°	0.0	0.0	0.0	8.4	12.5	33.4	60.6	110.7	236.1	1053.1
0.0	50°	0.0	0.0	0.0	10.4	14.6	33.4	62.7	106.6	259.1	1619.4
0.0	52.5°	0.0	0.0	0.0	8.4	12.5	37.6	69.0	104.5	282.1	2106.2
0.0	55°	0.0	0.0	0.0	2.1	6.3	48.1	75.2	104.5	317.6	2227.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	54.3	85.7	110.7	376.1	2179.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	54.3	87.8	110.7	380.3	2137.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	54.3	96.1	123.3	409.5	1903.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	46.0	114.9	154.6	426.3	1496.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	37.6	135.8	169.2	438.8	1191.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	35.5	140.0	171.3	445.1	948.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	37.6	137.9	183.9	466.0	771.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	41.8	125.4	202.7	466.0	683.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	43.9	117.0	227.8	424.2	591.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	41.8	114.9	265.4	378.2	486.9
0.0	80°	4.2	6.3	6.3	4.2	4.2	35.5	112.8	269.5	321.8	334.3
2.1	82.5°	12.5	16.7	14.6	10.4	10.4	31.3	100.3	225.7	167.2	144.2
12.5	85°	23.0	27.2	27.2	23.0	23.0	29.3	62.7	81.5	56.4	46.0
23.0	87.5°	31.3	35.5	35.5	31.3	31.3	29.3	27.2	25.1	23.0	23.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

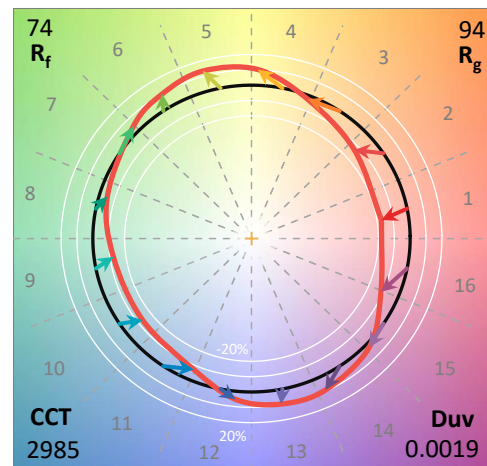
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

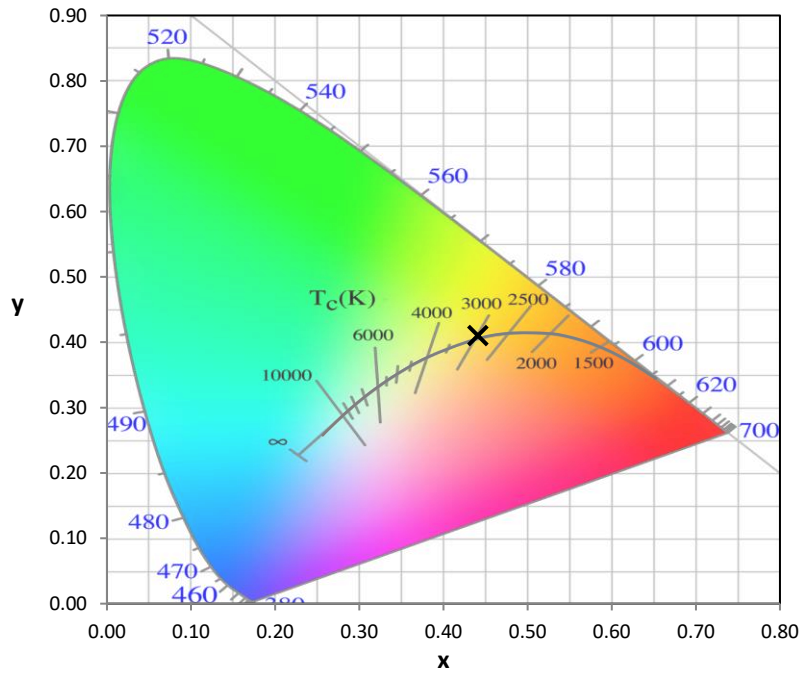
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

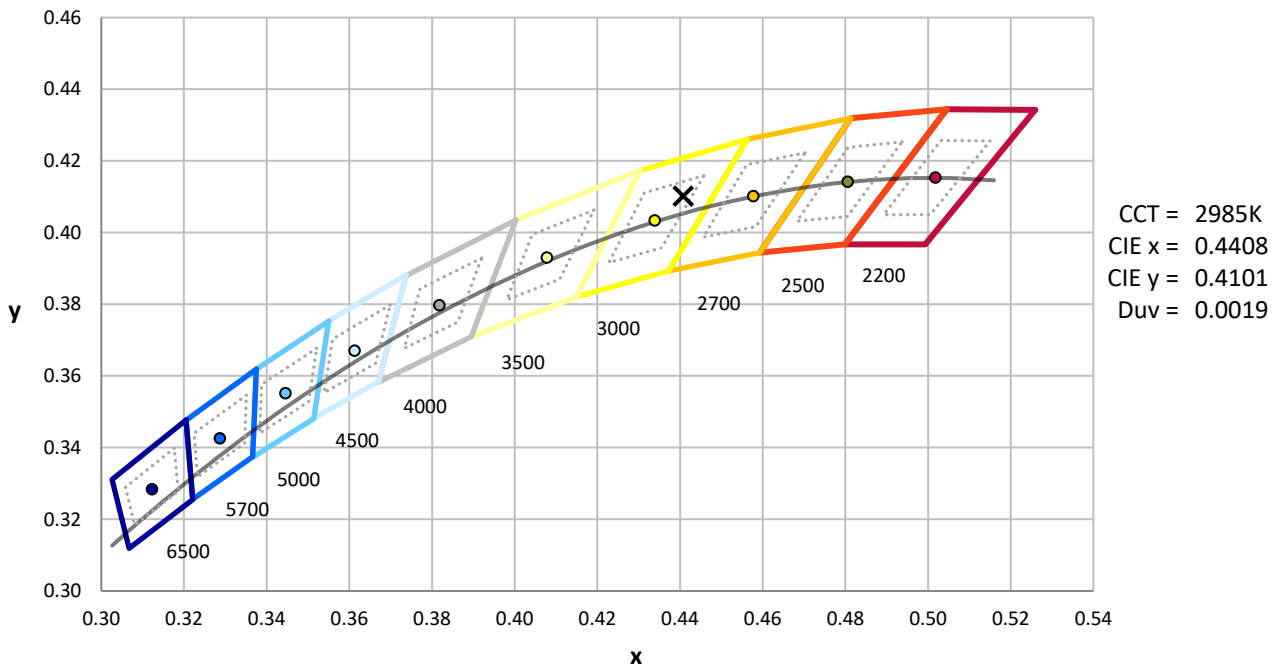
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



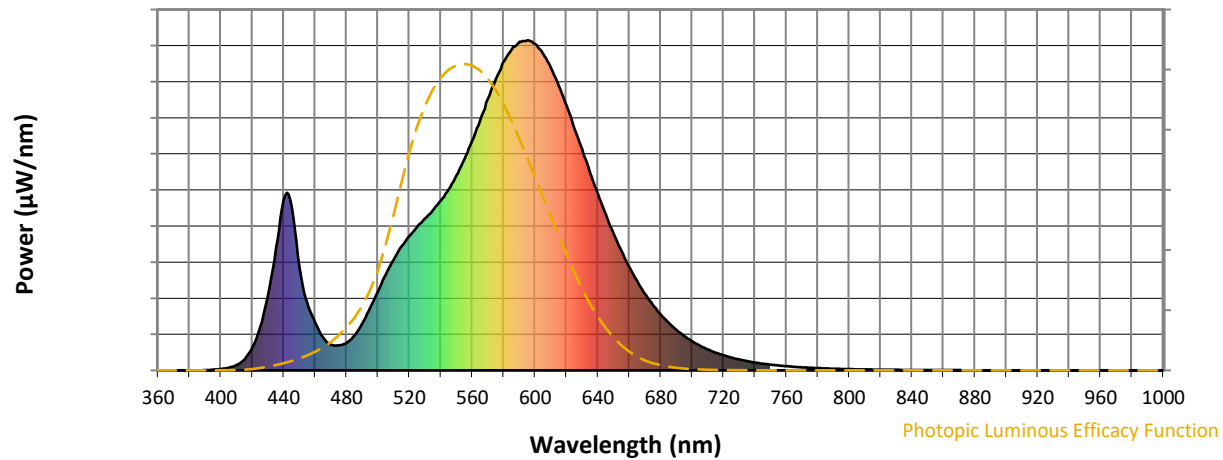
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

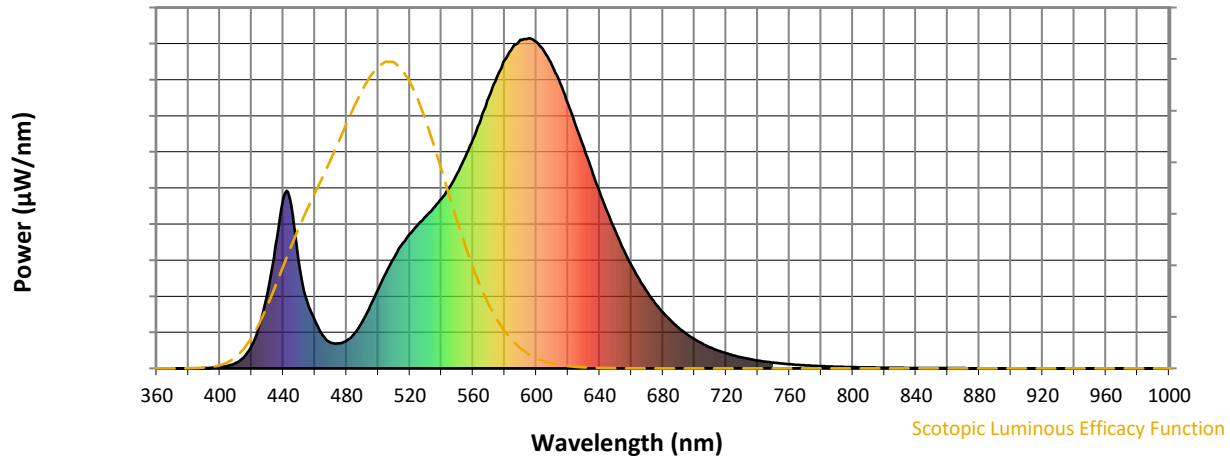


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



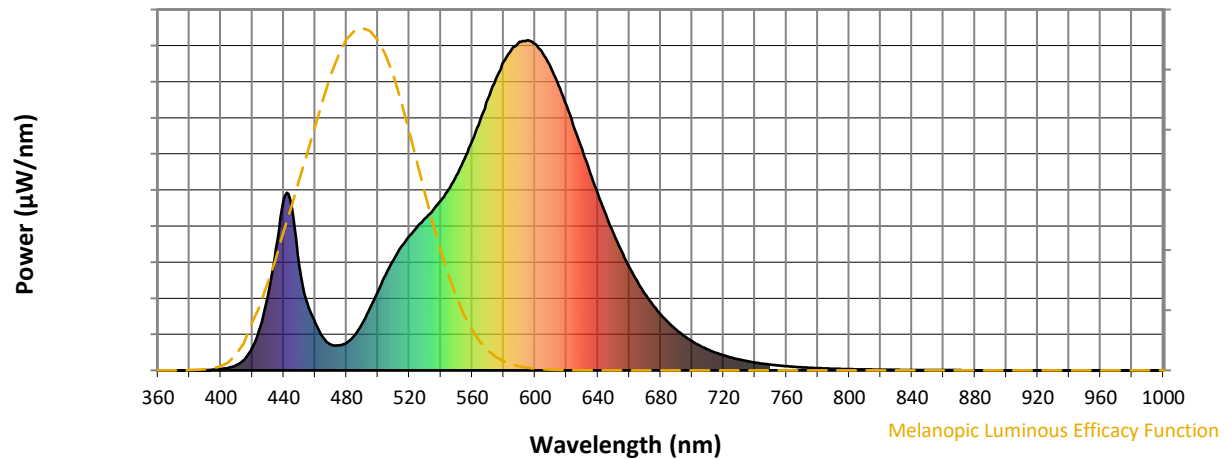
Scotopic Lumens: NR

S/P: 1.19

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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

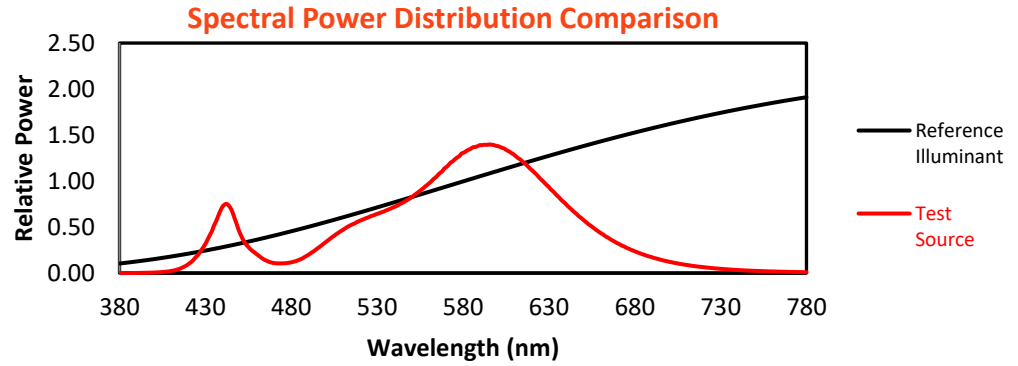
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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			

REPORT NUMBER: SP1-2407-184-4

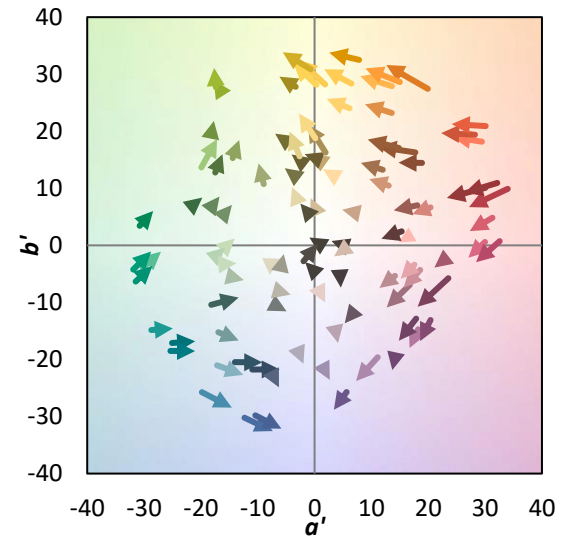
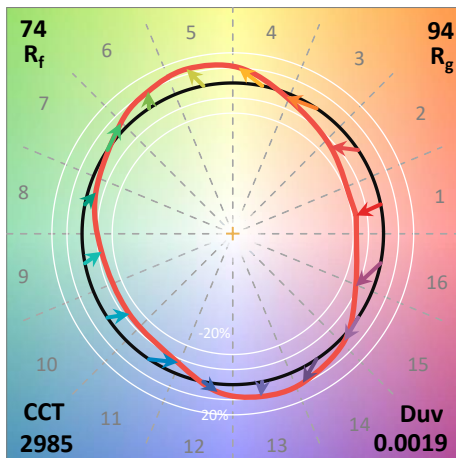
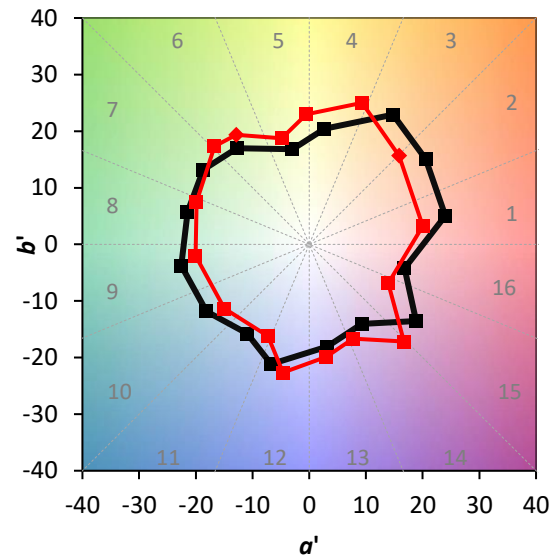
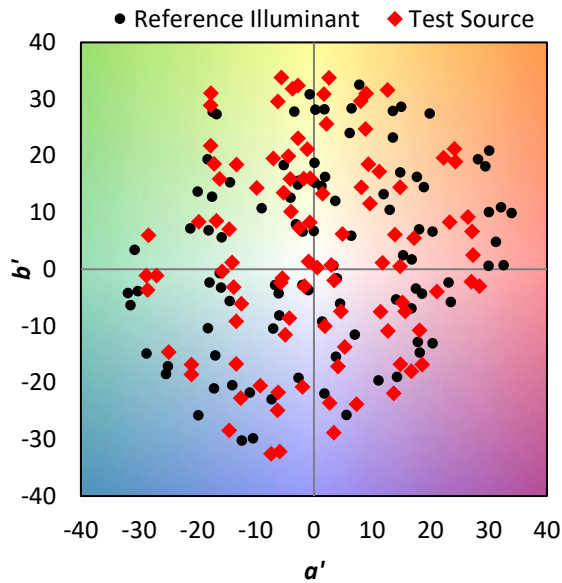
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

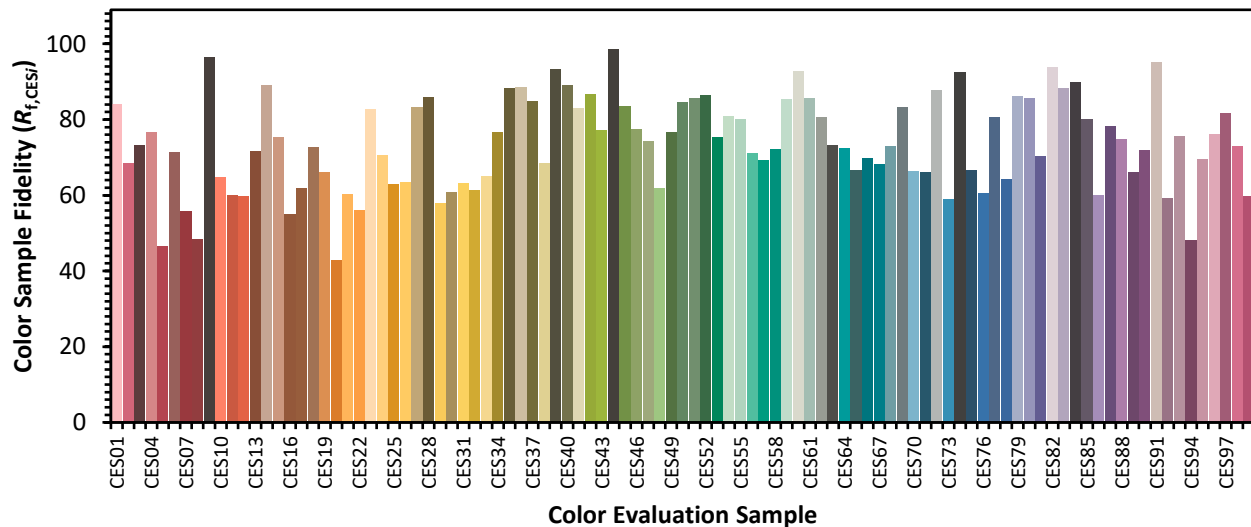


Color Vector Graphics

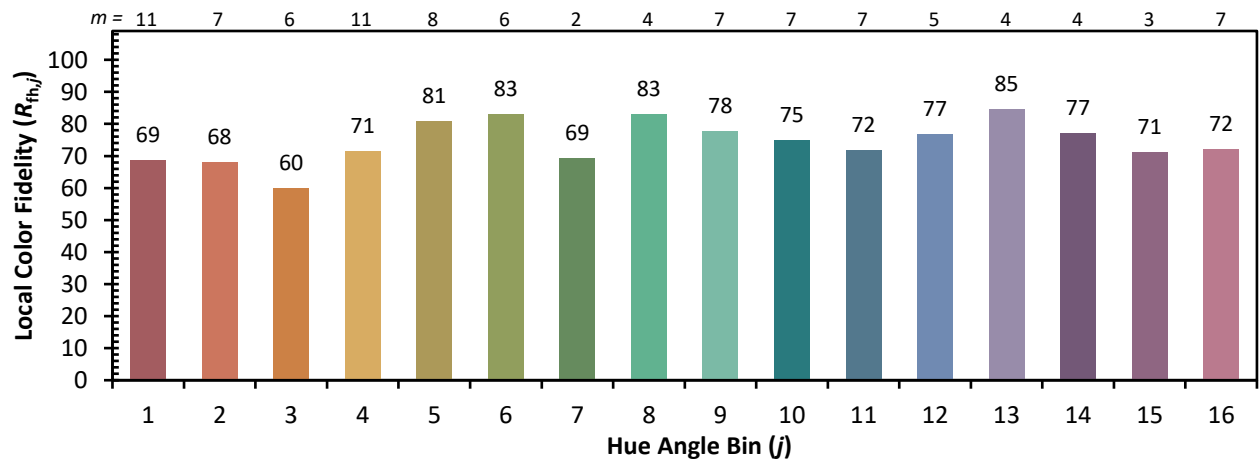
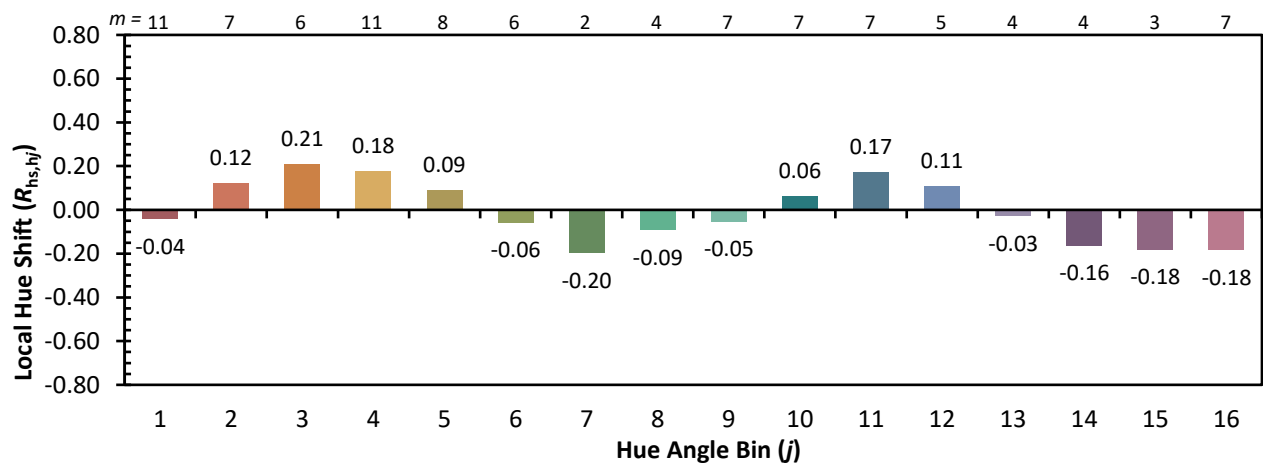
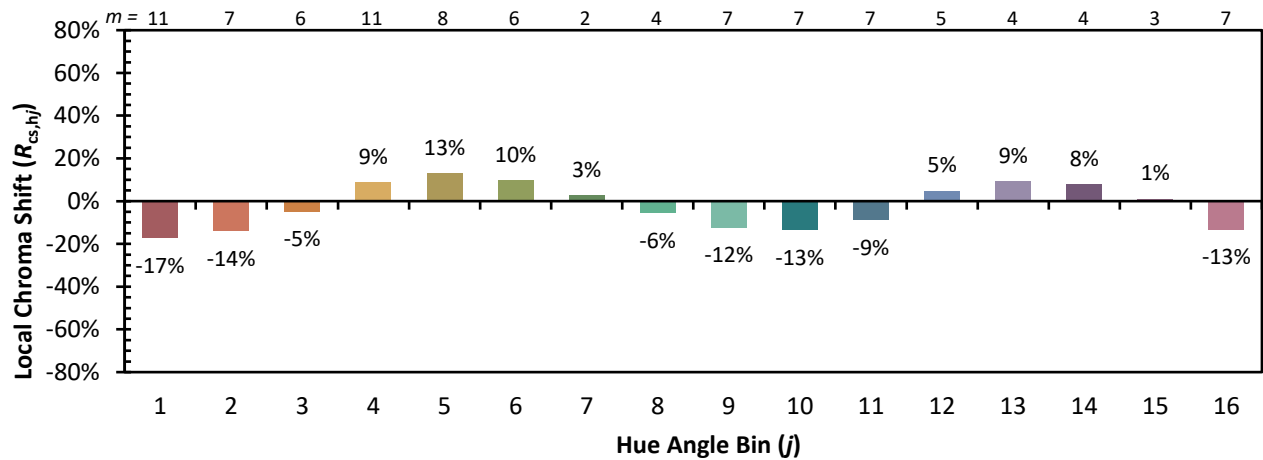


Individual Sample Fidelity Index ($R_{f,i}$)

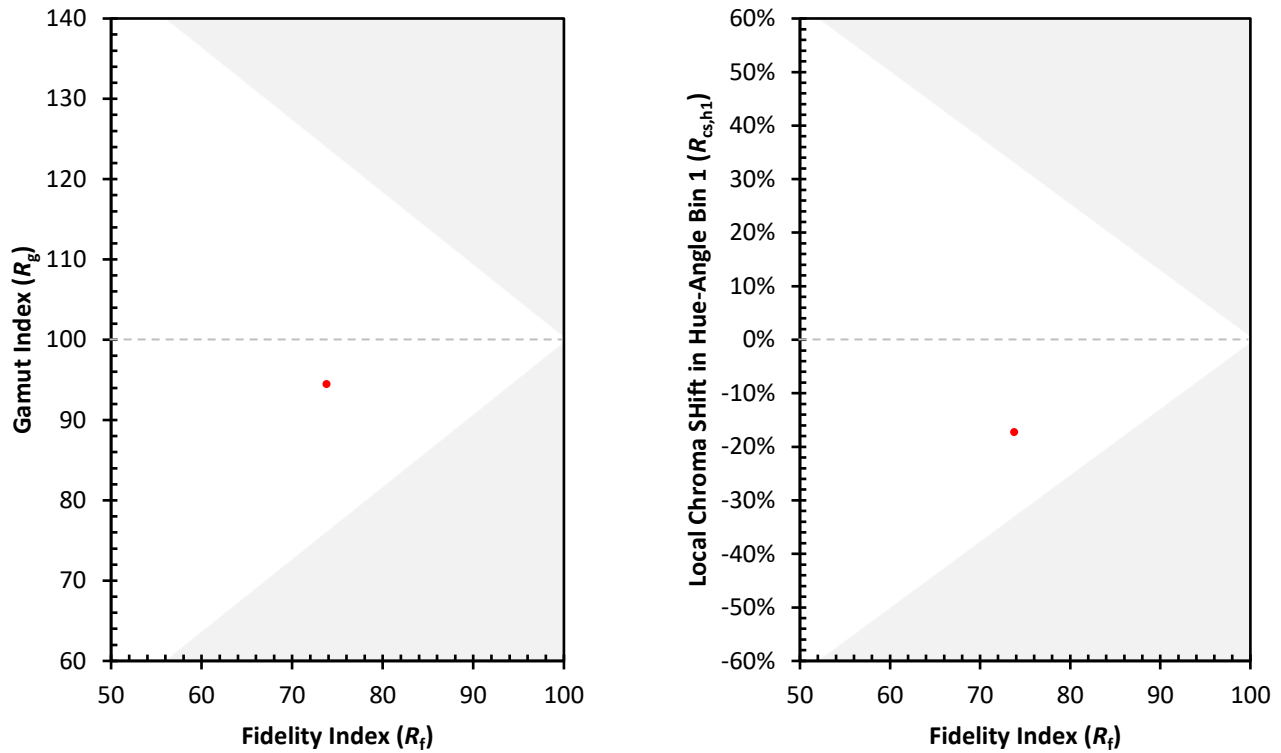
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)