

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: P1065375

Luminaire Tested: **GLAN-SA7C-827-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065375
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30326.5 lumens
Efficiency: N/A
Efficacy: 91.9 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

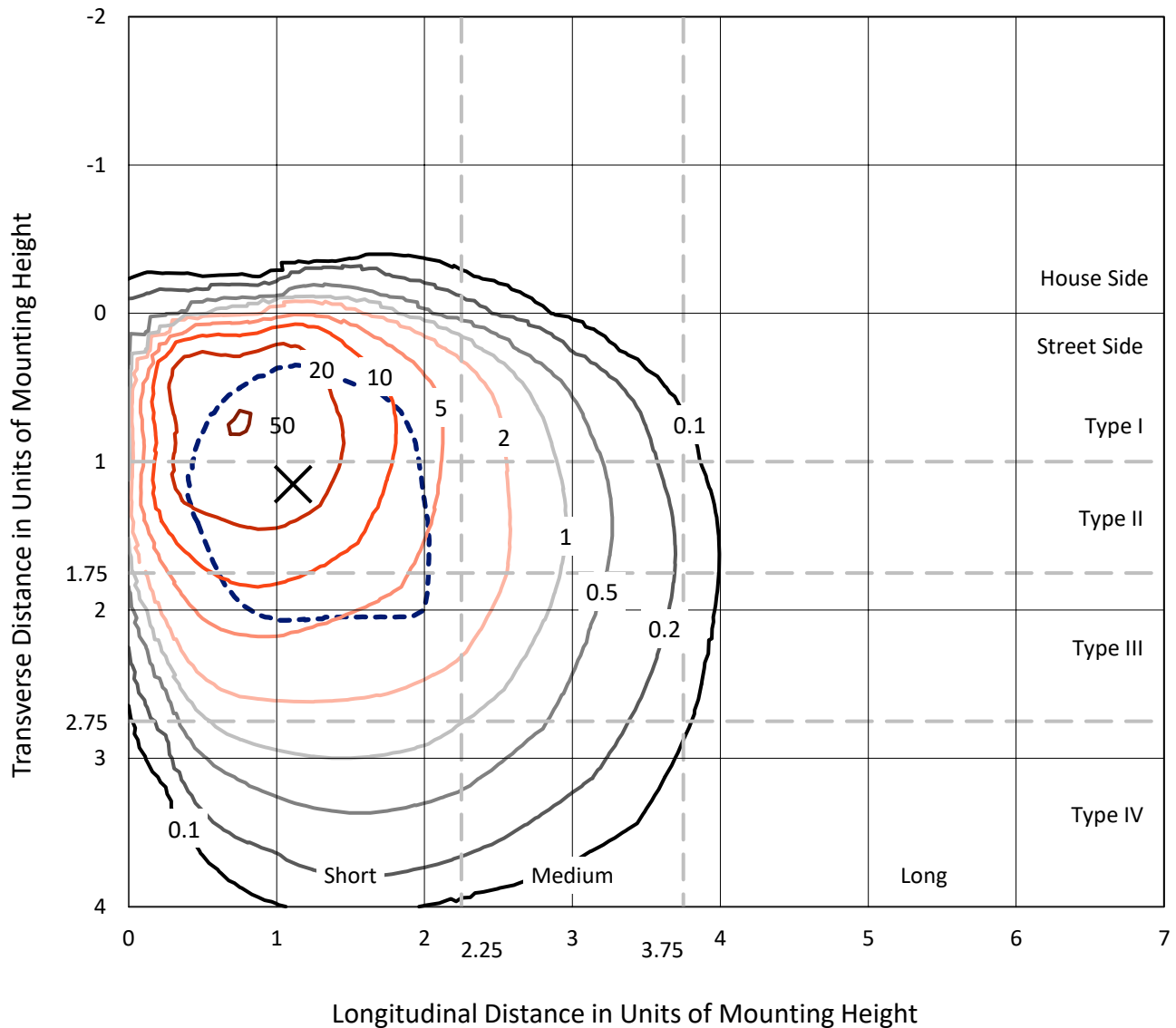
Input Watts (W): 330
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

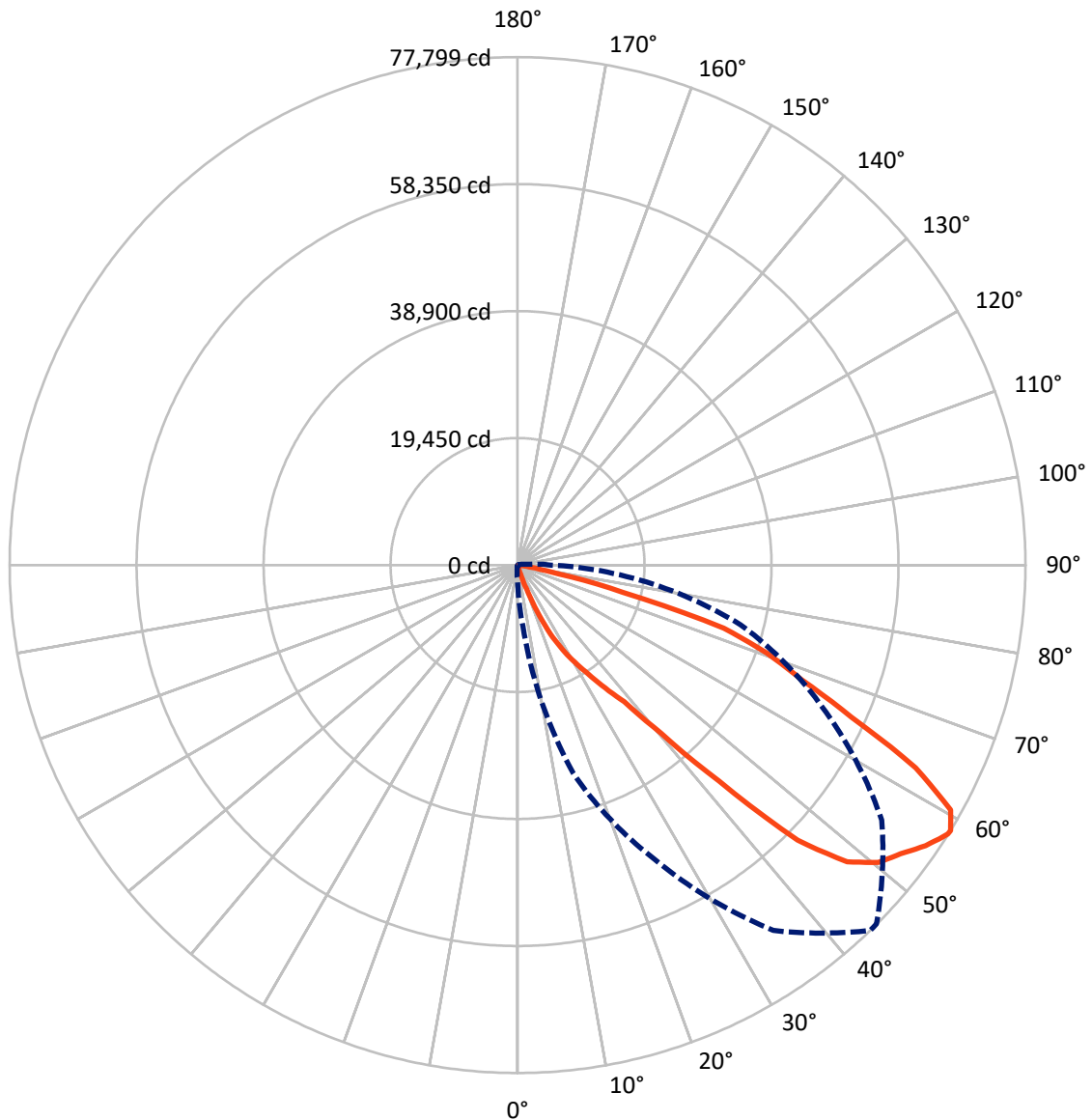
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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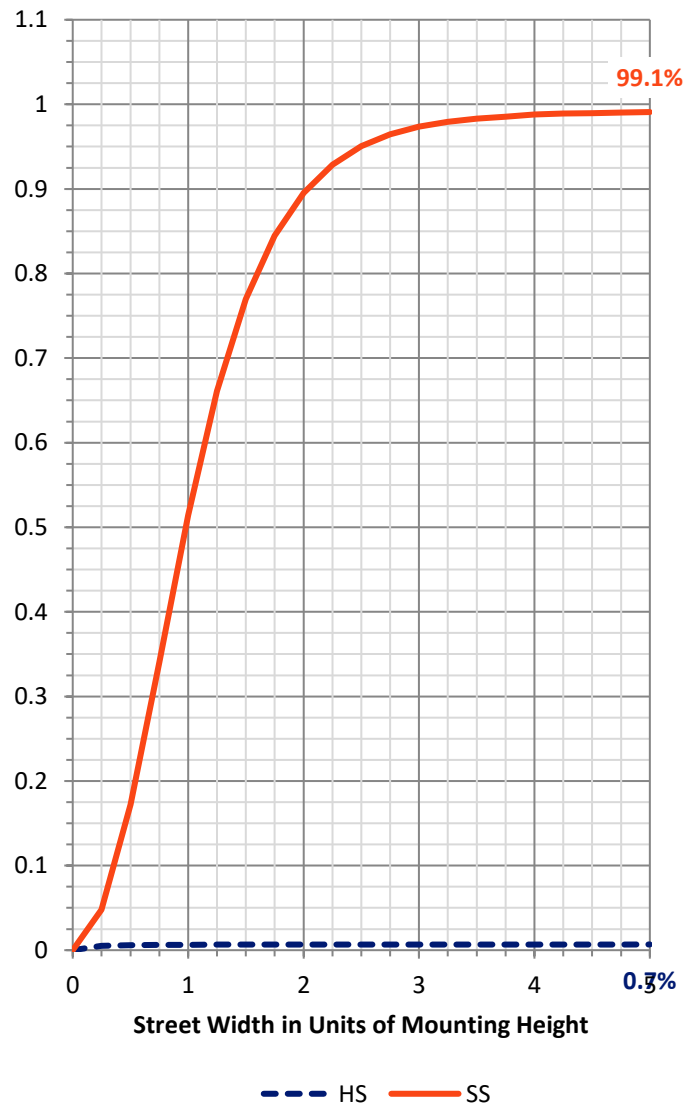
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	207.1	0.0	207.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	30119.5	0.0	30119.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	30326.5	0.0	30326.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.0
10°-20°	66.5	0.2
20°-30°	718.4	2.4
30°-40°	2124.7	7.0
40°-50°	6332.7	20.9
50°-60°	10048.4	33.1
60°-70°	8381.6	27.6
70°-80°	2585.0	8.5
80°-90°	57.4	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°	30326.5	100.0
0°-180°	30326.5	100.0



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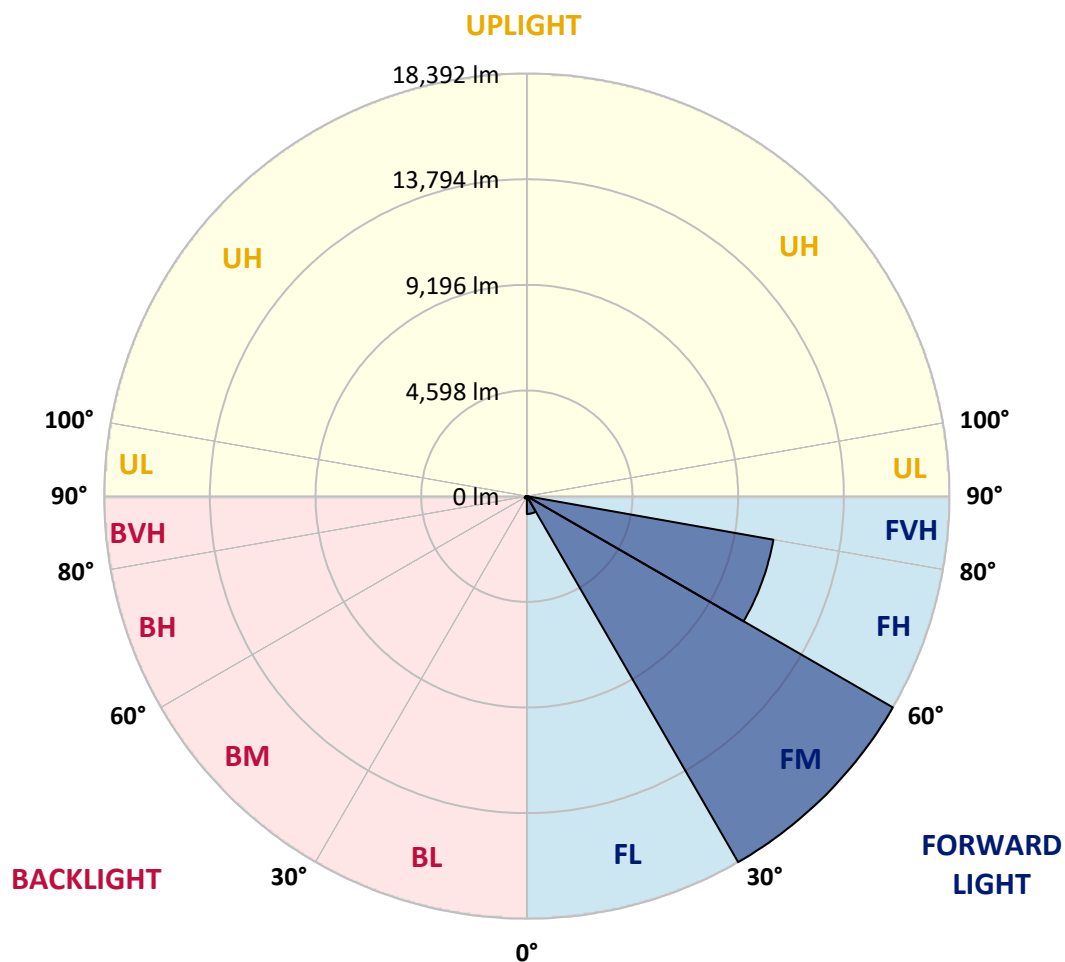
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.5	2.6			
FM	(30°-60°)	18392.4	60.6			
FH	(60°-80°)	10895.9	35.9			G4/12000
FVH	(80°-90°)	54.6	0.2			G1/100
BL	(0°-30°)	20.3	0.1	B0/110		
BM	(30°-60°)	113.3	0.4	B0/220		
BH	(60°-80°)	70.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	171.8	171.8	164.9	155.8	146.6	137.5	135.2	130.6	128.3	126.0
5°	178.7	178.7	176.4	169.5	160.4	153.5	153.5	146.6	142.0	137.5
7.5°	183.3	185.6	190.1	187.9	183.3	176.4	176.4	171.8	164.9	153.5
10°	190.1	197.0	206.2	210.8	213.1	213.1	210.8	208.5	197.0	181.0
12.5°	197.0	210.8	233.7	256.6	270.3	288.7	286.4	281.8	252.0	217.6
15°	210.8	231.4	279.5	345.9	449.0	513.2	538.4	515.5	416.9	293.2
17.5°	226.8	261.2	405.5	723.9	1186.7	1406.6	1539.5	1431.8	948.4	556.7
20°	242.8	318.4	753.7	1876.3	3079.0	3798.3	3997.6	3686.1	2366.5	1060.7
22.5°	270.3	446.7	1528.0	3878.5	6634.5	7713.5	7917.4	6920.8	4469.6	2093.9
25°	327.6	648.3	2634.6	6320.6	9901.3	11722.6	11637.8	10332.0	7250.7	3344.7
27.5°	410.1	943.9	3983.9	8980.4	13030.7	14636.6	14829.1	13214.0	9665.4	4918.6
30°	529.2	1308.1	5431.8	11110.9	15539.3	17275.8	17307.8	15637.8	11825.7	6300.0
32.5°	643.7	1651.7	6698.6	13170.5	18011.2	19914.9	20056.9	18002.0	13438.5	7738.7
35°	730.8	1876.3	7981.5	14980.3	20503.7	23126.8	23117.6	20677.8	15349.1	9023.9
37.5°	737.7	2100.8	9143.0	16831.3	23660.6	26597.5	26888.4	24198.9	17658.4	10613.8
40°	721.6	2352.8	10613.8	19717.9	29348.9	33855.1	34111.7	30721.1	22290.6	13335.4
42.5°	740.0	2790.3	13000.9	25048.8	38794.3	45266.2	45761.0	42196.3	30805.9	18888.6
45°	836.2	3612.8	18002.0	33967.4	52258.0	60147.9	59983.0	54849.0	40714.1	27342.0
47.5°	1154.6	5626.5	25415.4	42647.6	60862.7	67888.9	68031.0	61756.1	46496.4	33841.4
50°	1775.5	8609.3	31644.4	47236.3	64562.5	71611.7	71478.8	64228.0	48693.4	37041.8
52.5°	2309.2	10767.3	34769.2	48846.8	65036.7	73451.3	73442.1	64878.7	49034.7	37316.7
55°	2442.1	10929.9	34794.4	48933.9	66099.7	75859.0	76161.4	66480.0	49476.9	36116.2
57.5°	2389.4	9676.8	33341.9	49437.9	67992.0	77721.5	77737.6	68031.0	50599.4	35380.9
58°	2343.6	9479.8	33048.7	49724.3	68317.3	77799.4	77760.5	68102.0	51513.5	35353.4
60°	2087.0	8231.3	31905.5	50455.1	67833.9	76200.4	75836.1	66551.0	51378.3	35071.6
62.5°	1640.3	6421.4	30780.7	49609.7	62651.9	68459.4	68610.6	58920.0	46837.7	33429.0
65°	1305.8	4785.7	28434.8	43515.9	51591.4	56219.0	56782.6	47912.2	39094.4	28306.5
67.5°	1040.1	3459.3	23853.0	34645.5	40824.1	46920.2	47330.3	40226.1	30288.2	21688.1
70°	845.3	2339.0	16464.8	25337.5	33671.8	40526.3	40551.5	33417.5	22606.7	14210.5
72.5°	749.1	1619.7	9557.7	18478.5	27303.1	33023.5	32356.9	27117.5	17374.3	8416.8
75°	648.3	1074.4	4687.2	11296.5	16554.1	16666.4	16920.7	12579.4	8684.9	4002.2
77.5°	533.8	762.9	1846.5	3085.9	4964.4	6355.0	6591.0	4994.2	2888.8	985.1
80°	366.5	362.0	497.1	946.1	1420.4	1780.0	1660.9	1285.2	756.0	378.0
82.5°	158.1	171.8	224.5	270.3	219.9	213.1	203.9	130.6	100.8	77.9
85°	50.4	45.8	48.1	48.1	38.9	29.8	29.8	13.7	0.0	0.0
87.5°	25.2	20.6	20.6	18.3	11.5	4.6	2.3	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°
132.9	0°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
123.7	2.5°	121.4	121.4	116.8	112.3	110.0	105.4	103.1	100.8	98.5	96.2
132.9	5°	128.3	126.0	119.1	112.3	105.4	98.5	93.9	89.3	84.8	82.5
146.6	7.5°	139.7	135.2	121.4	110.0	100.8	91.6	87.1	80.2	75.6	68.7
162.7	10°	153.5	144.3	126.0	112.3	98.5	87.1	80.2	73.3	66.4	57.3
185.6	12.5°	171.8	155.8	132.9	110.0	93.9	80.2	73.3	64.1	57.3	50.4
215.3	15°	187.9	167.2	135.2	110.0	89.3	73.3	64.1	55.0	48.1	38.9
270.3	17.5°	210.8	176.4	132.9	103.1	82.5	64.1	55.0	48.1	36.7	22.9
400.9	20°	249.7	183.3	128.3	96.2	71.0	52.7	41.2	32.1	16.0	4.6
602.5	22.5°	311.6	201.6	123.7	87.1	61.9	41.2	27.5	11.5	0.0	0.0
916.4	25°	430.7	233.7	123.7	82.5	55.0	29.8	9.2	0.0	0.0	0.0
1301.2	27.5°	572.7	277.2	123.7	71.0	43.5	16.0	0.0	0.0	0.0	0.0
1773.2	30°	717.1	325.3	123.7	61.9	34.4	2.3	0.0	0.0	0.0	0.0
2183.2	32.5°	854.5	366.5	126.0	52.7	22.9	0.0	0.0	0.0	0.0	0.0
2751.4	35°	994.3	373.4	123.7	45.8	13.7	0.0	0.0	0.0	0.0	0.0
3447.8	37.5°	1172.9	359.7	116.8	41.2	6.9	0.0	0.0	0.0	0.0	0.0
4536.0	40°	1443.3	366.5	110.0	38.9	2.3	0.0	0.0	0.0	0.0	0.0
6476.4	42.5°	1942.7	396.3	100.8	38.9	0.0	0.0	0.0	0.0	0.0	0.0
10316.0	45°	3358.5	531.5	91.6	41.2	0.0	0.0	0.0	0.0	0.0	0.0
15486.6	47.5°	5555.5	955.3	89.3	41.2	0.0	0.0	0.0	0.0	0.0	0.0
18654.9	50°	7090.4	1202.7	93.9	43.5	0.0	0.0	0.0	0.0	0.0	0.0
19051.2	52.5°	7078.9	1340.2	98.5	45.8	9.2	0.0	0.0	0.0	0.0	0.0
17559.8	55°	6293.1	1365.4	105.4	50.4	29.8	0.0	0.0	0.0	0.0	0.0
15090.2	57.5°	5259.9	1246.3	121.4	61.9	55.0	0.0	0.0	0.0	0.0	0.0
14703.1	58°	5076.7	1191.3	126.0	64.1	59.6	0.0	0.0	0.0	0.0	0.0
12753.5	60°	4160.3	971.3	160.4	80.2	80.2	0.0	0.0	0.0	0.0	0.0
10455.7	62.5°	2872.8	847.6	183.3	103.1	82.5	0.0	0.0	0.0	0.0	0.0
7708.9	65°	2032.0	765.2	199.3	110.0	66.4	0.0	0.0	0.0	0.0	0.0
5477.6	67.5°	1518.9	705.6	219.9	112.3	34.4	0.0	0.0	0.0	0.0	0.0
3436.4	70°	1163.8	662.1	270.3	119.1	9.2	0.0	0.0	0.0	0.0	0.0
2048.1	72.5°	948.4	611.7	327.6	123.7	0.0	0.0	0.0	0.0	0.0	0.0
1227.9	75°	785.8	552.1	316.1	135.2	0.0	0.0	0.0	0.0	0.0	0.0
655.2	77.5°	522.3	428.4	288.7	135.2	0.0	0.0	0.0	0.0	0.0	0.0
233.7	80°	183.3	169.5	224.5	119.1	0.0	0.0	0.0	0.0	0.0	0.0
48.1	82.5°	27.5	22.9	32.1	41.2	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°
132.9	0°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
93.9	2.5°	93.9	93.9	91.6	93.9	93.9	98.5	110.0	126.0	144.3	151.2
80.2	5°	77.9	75.6	73.3	73.3	73.3	80.2	89.3	107.7	128.3	137.5
66.4	7.5°	64.1	61.9	59.6	57.3	57.3	61.9	73.3	93.9	114.5	123.7
55.0	10°	52.7	48.1	45.8	43.5	43.5	48.1	59.6	80.2	103.1	112.3
45.8	12.5°	43.5	36.7	32.1	29.8	27.5	34.4	45.8	64.1	89.3	100.8
34.4	15°	29.8	22.9	16.0	13.7	11.5	18.3	29.8	50.4	75.6	89.3
18.3	17.5°	16.0	6.9	2.3	0.0	0.0	4.6	13.7	36.7	61.9	73.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	45.8	57.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	27.5	38.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	20.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
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	6.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.3
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°
132.9	0°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
158.1	2.5°	162.7	160.4	155.8	151.2	151.2	151.2	158.1	164.9	171.8	171.8
142.0	5°	151.2	151.2	148.9	144.3	144.3	146.6	155.8	167.2	176.4	178.7
130.6	7.5°	139.7	144.3	139.7	137.5	139.7	142.0	151.2	164.9	178.7	183.3
121.4	10°	132.9	135.2	135.2	132.9	132.9	137.5	146.6	164.9	183.3	190.1
110.0	12.5°	123.7	128.3	126.0	126.0	126.0	130.6	142.0	162.7	187.9	197.0
98.5	15°	114.5	121.4	121.4	119.1	119.1	121.4	137.5	160.4	194.7	210.8
84.8	17.5°	105.4	112.3	114.5	110.0	110.0	114.5	130.6	160.4	199.3	226.8
68.7	20°	87.1	98.5	105.4	98.5	98.5	103.1	119.1	151.2	201.6	242.8
50.4	22.5°	68.7	80.2	89.3	87.1	87.1	89.3	110.0	144.3	203.9	270.3
29.8	25°	50.4	61.9	68.7	73.3	73.3	80.2	100.8	139.7	213.1	327.6
13.7	27.5°	29.8	43.5	52.7	57.3	59.6	68.7	93.9	135.2	229.1	410.1
0.0	30°	13.7	25.2	36.7	45.8	45.8	61.9	87.1	130.6	249.7	529.2
0.0	32.5°	0.0	11.5	18.3	32.1	34.4	50.4	80.2	126.0	279.5	643.7
0.0	35°	0.0	0.0	9.2	25.2	25.2	41.2	73.3	121.4	325.3	730.8
0.0	37.5°	0.0	0.0	0.0	18.3	20.6	36.7	71.0	119.1	334.5	737.7
0.0	40°	0.0	0.0	0.0	13.7	16.0	34.4	71.0	121.4	302.4	721.6
0.0	42.5°	0.0	0.0	0.0	9.2	11.5	34.4	71.0	126.0	272.6	740.0
0.0	45°	0.0	0.0	0.0	6.9	9.2	36.7	68.7	123.7	256.6	836.2
0.0	47.5°	0.0	0.0	0.0	9.2	13.7	36.7	66.4	121.4	258.9	1154.6
0.0	50°	0.0	0.0	0.0	11.5	16.0	36.7	68.7	116.8	284.1	1775.5
0.0	52.5°	0.0	0.0	0.0	9.2	13.7	41.2	75.6	114.5	309.3	2309.2
0.0	55°	0.0	0.0	0.0	2.3	6.9	52.7	82.5	114.5	348.2	2442.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	59.6	93.9	121.4	412.4	2389.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	59.6	96.2	121.4	416.9	2343.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	59.6	105.4	135.2	449.0	2087.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	50.4	126.0	169.5	467.3	1640.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	41.2	148.9	185.6	481.1	1305.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	38.9	153.5	187.9	488.0	1040.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	41.2	151.2	201.6	510.9	845.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	45.8	137.5	222.2	510.9	749.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	48.1	128.3	249.7	465.1	648.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	45.8	126.0	290.9	414.7	533.8
0.0	80°	4.6	6.9	6.9	4.6	4.6	38.9	123.7	295.5	352.8	366.5
2.3	82.5°	13.7	18.3	16.0	11.5	11.5	34.4	110.0	247.4	183.3	158.1
13.7	85°	25.2	29.8	29.8	25.2	25.2	32.1	68.7	89.3	61.9	50.4
25.2	87.5°	34.4	38.9	38.9	34.4	34.4	32.1	29.8	27.5	25.2	25.2
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

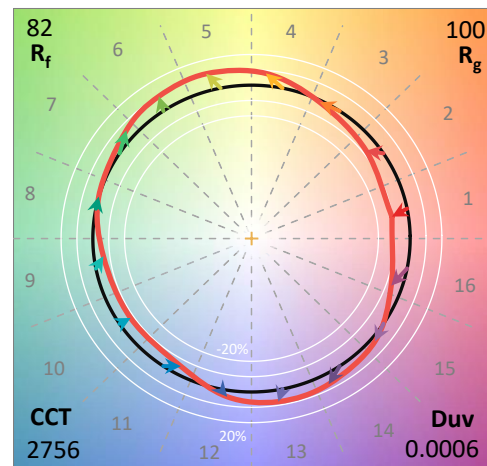
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

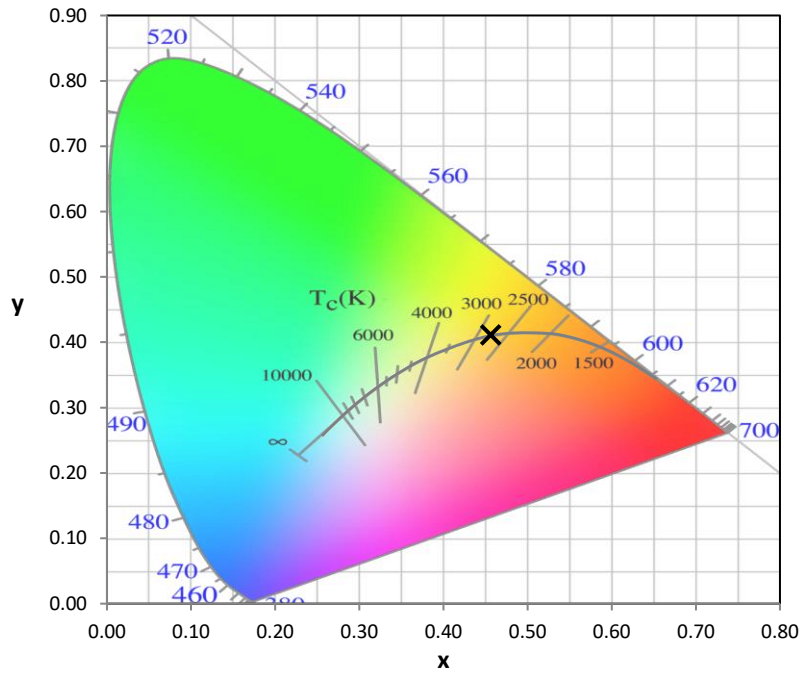
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

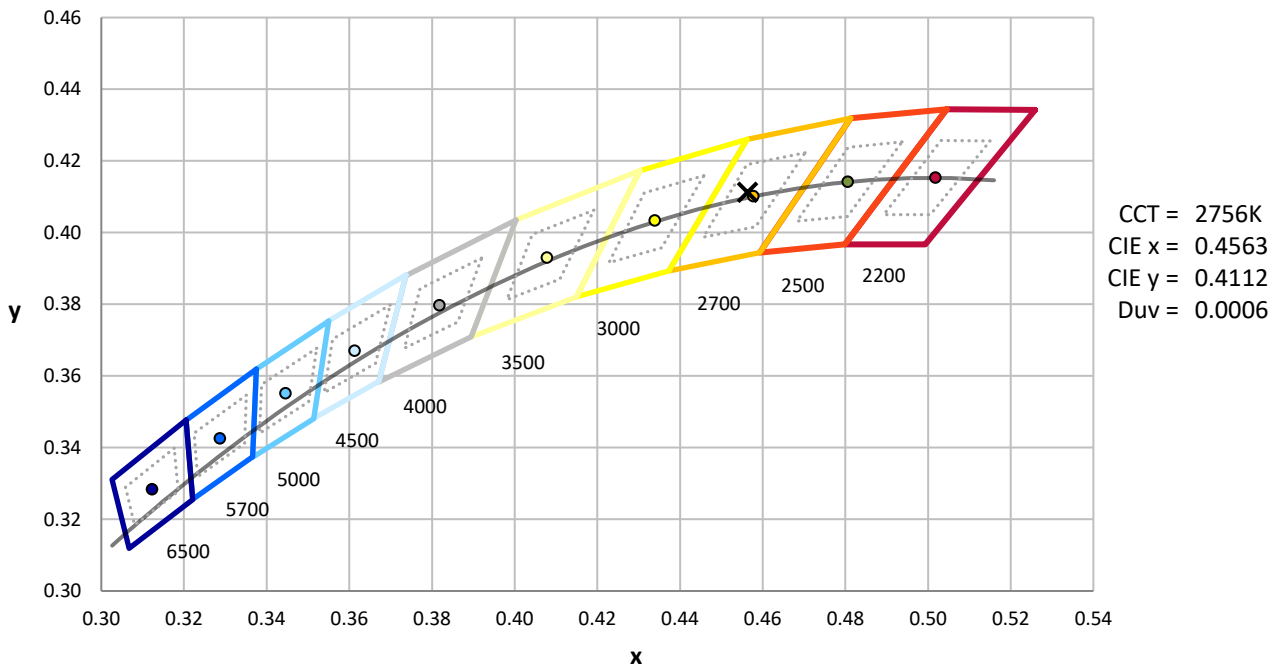
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



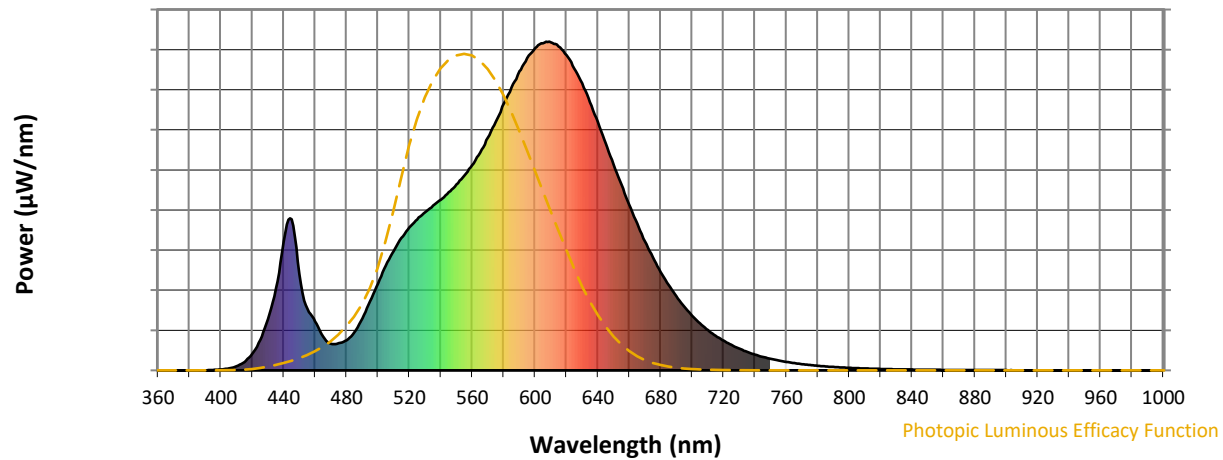
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

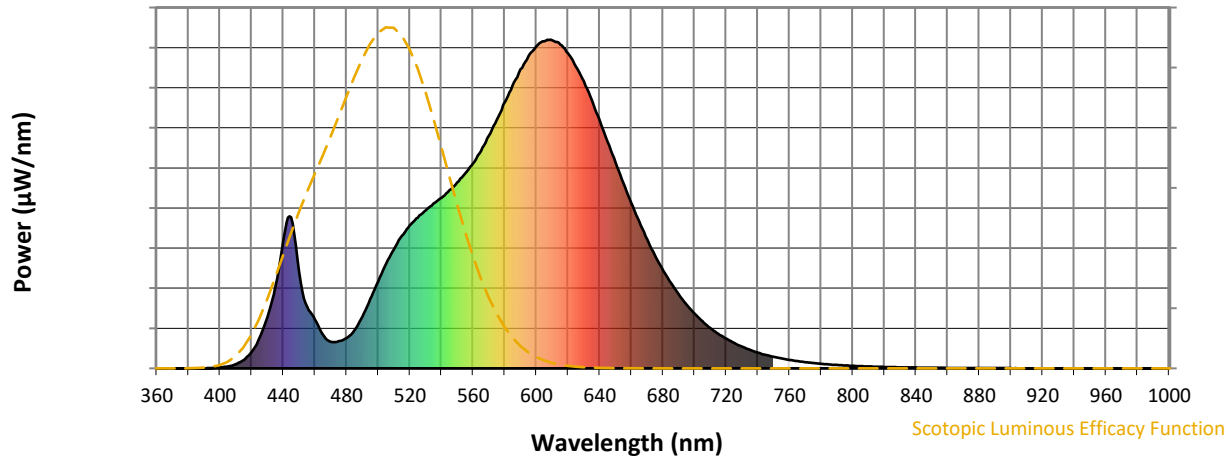


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



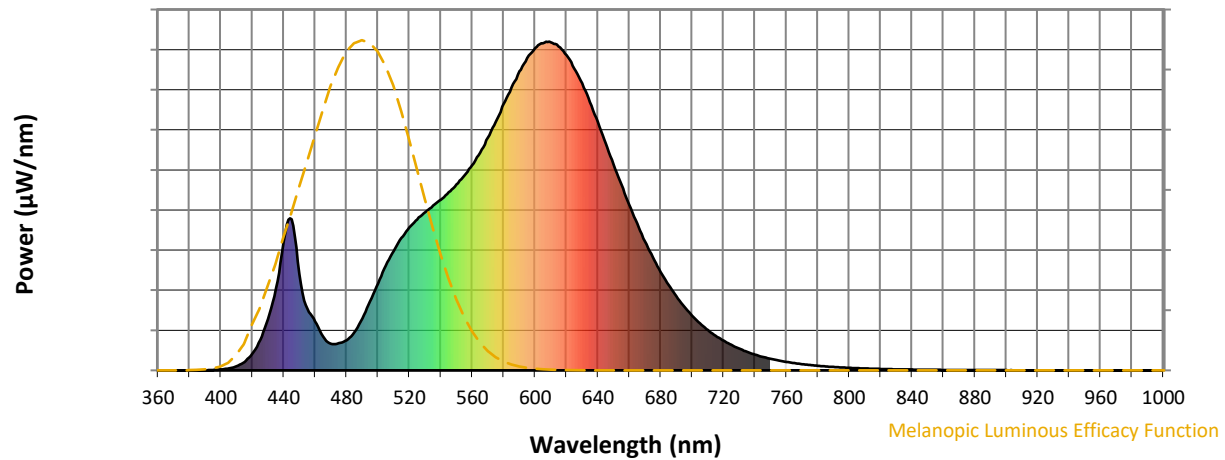
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

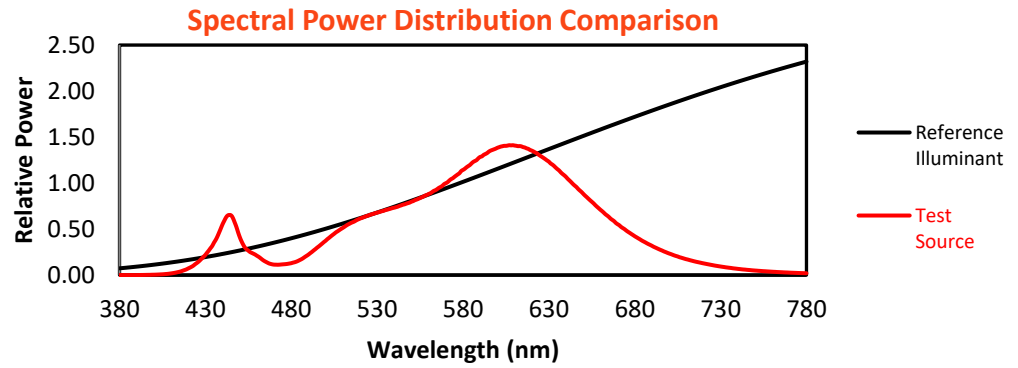
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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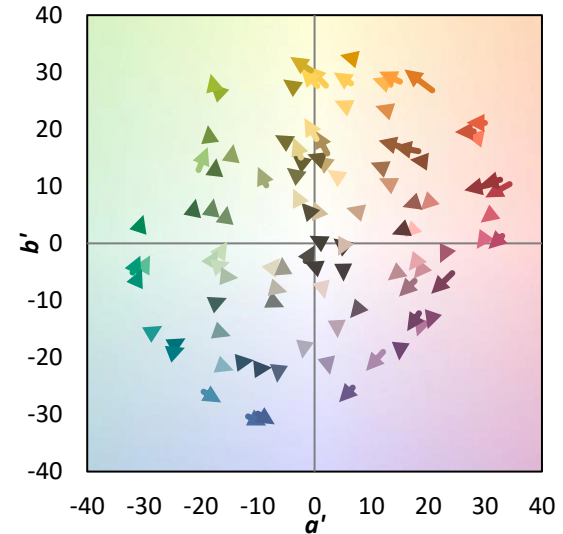
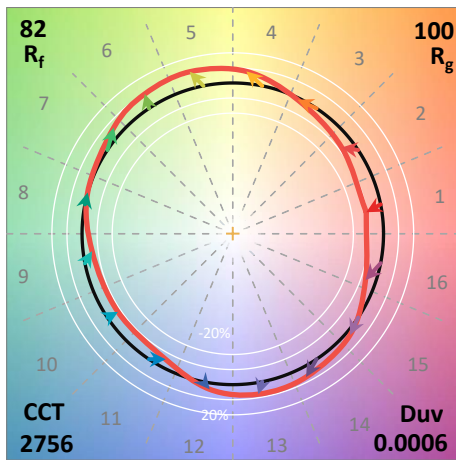
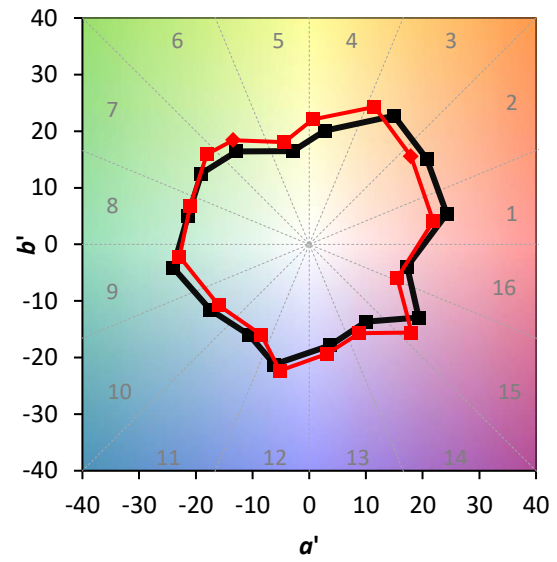
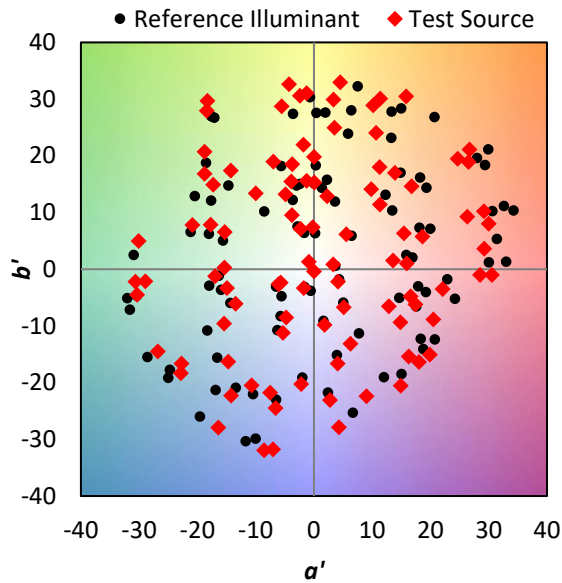
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

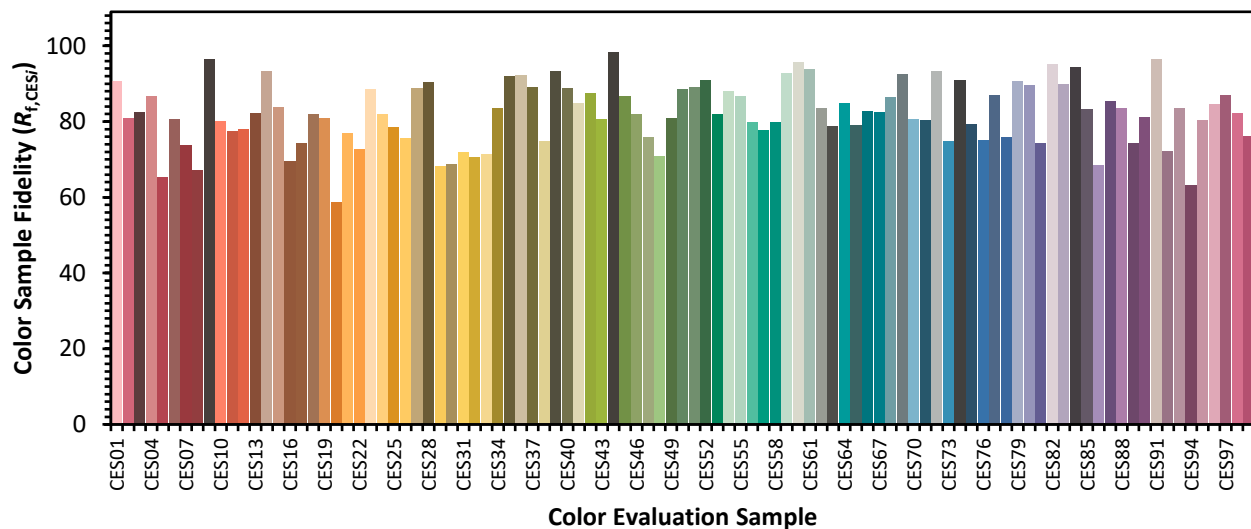


Color Vector Graphics

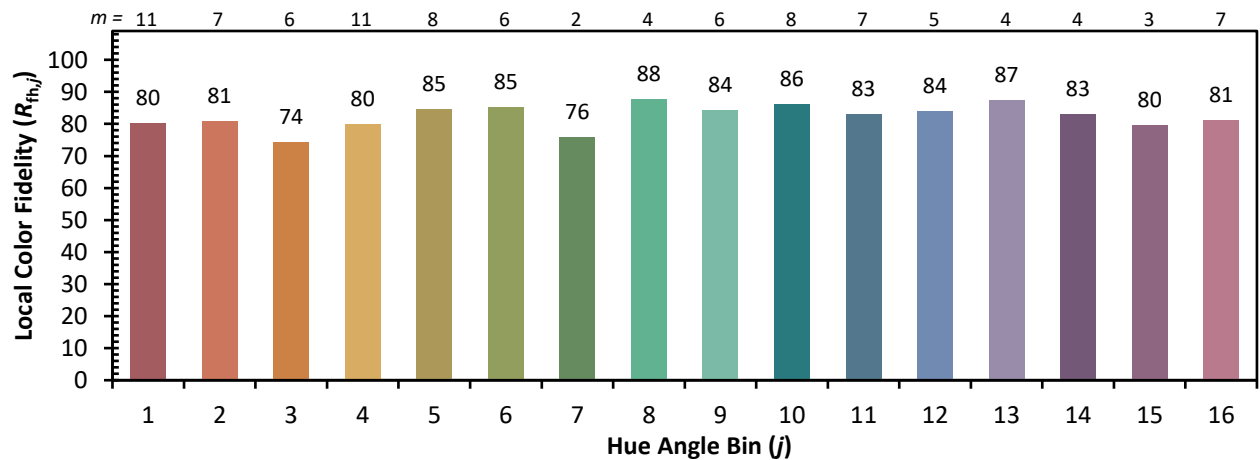
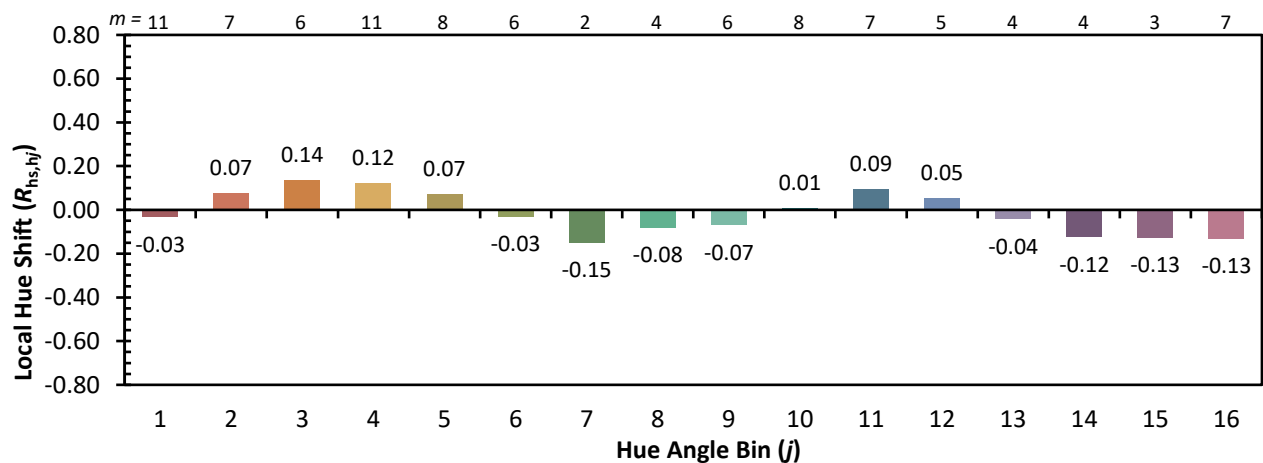
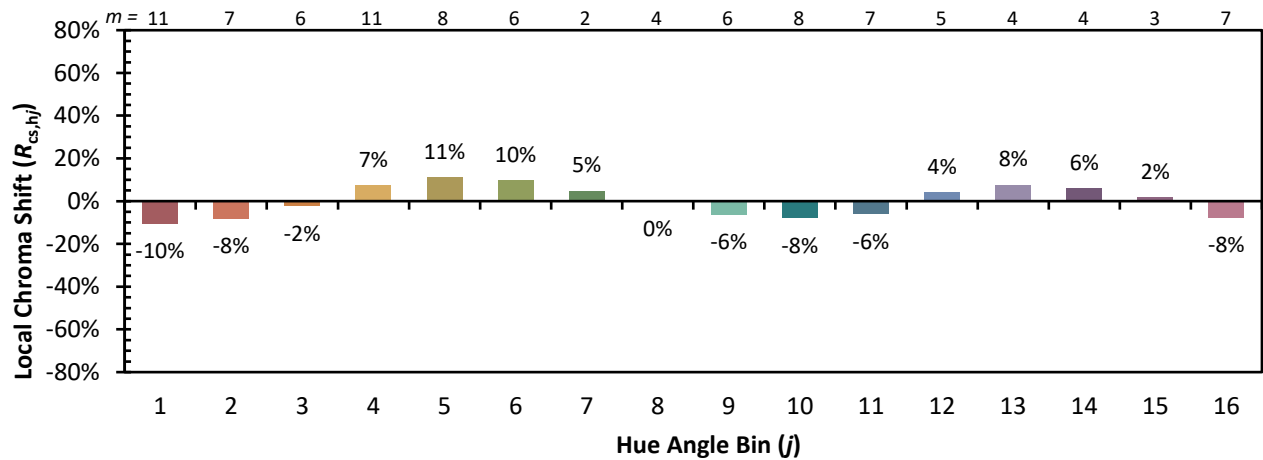


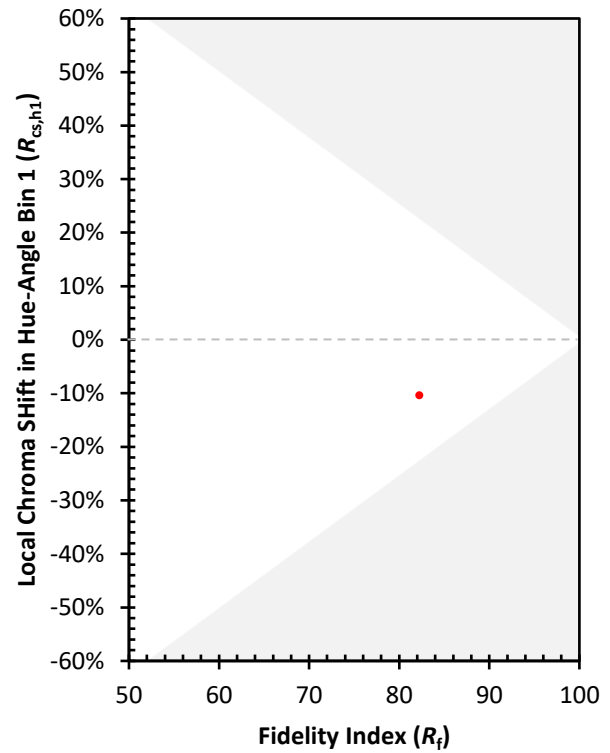
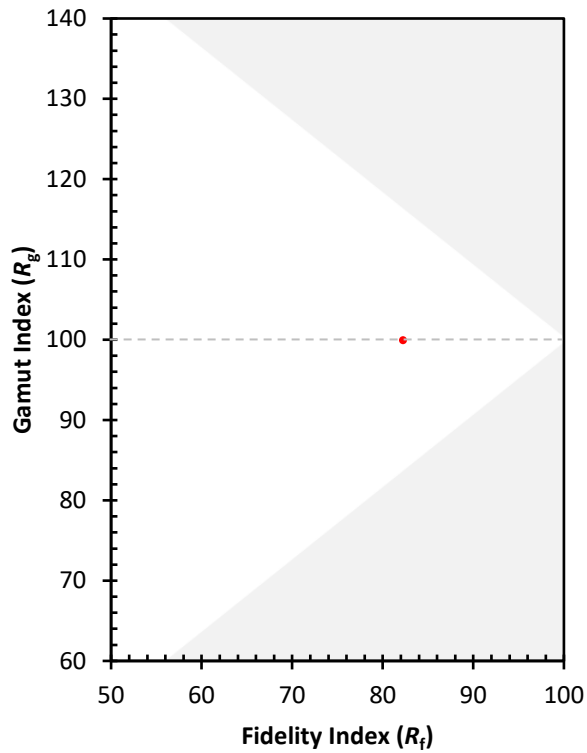
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)