

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: LUMARK

Report Number: P1068048

Luminaire Tested: **NAV-SA3D-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068048
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11596.3 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 160.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



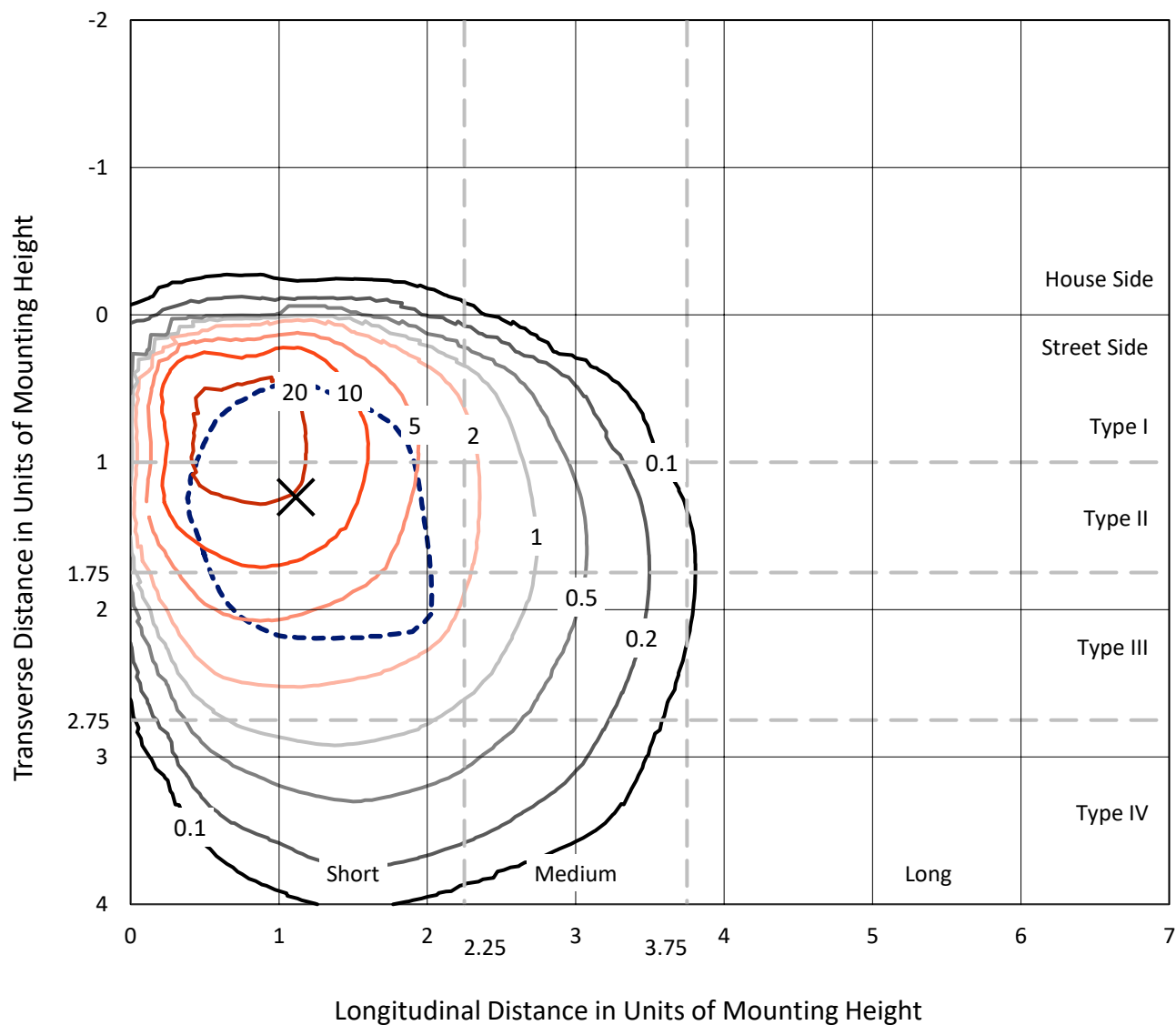
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

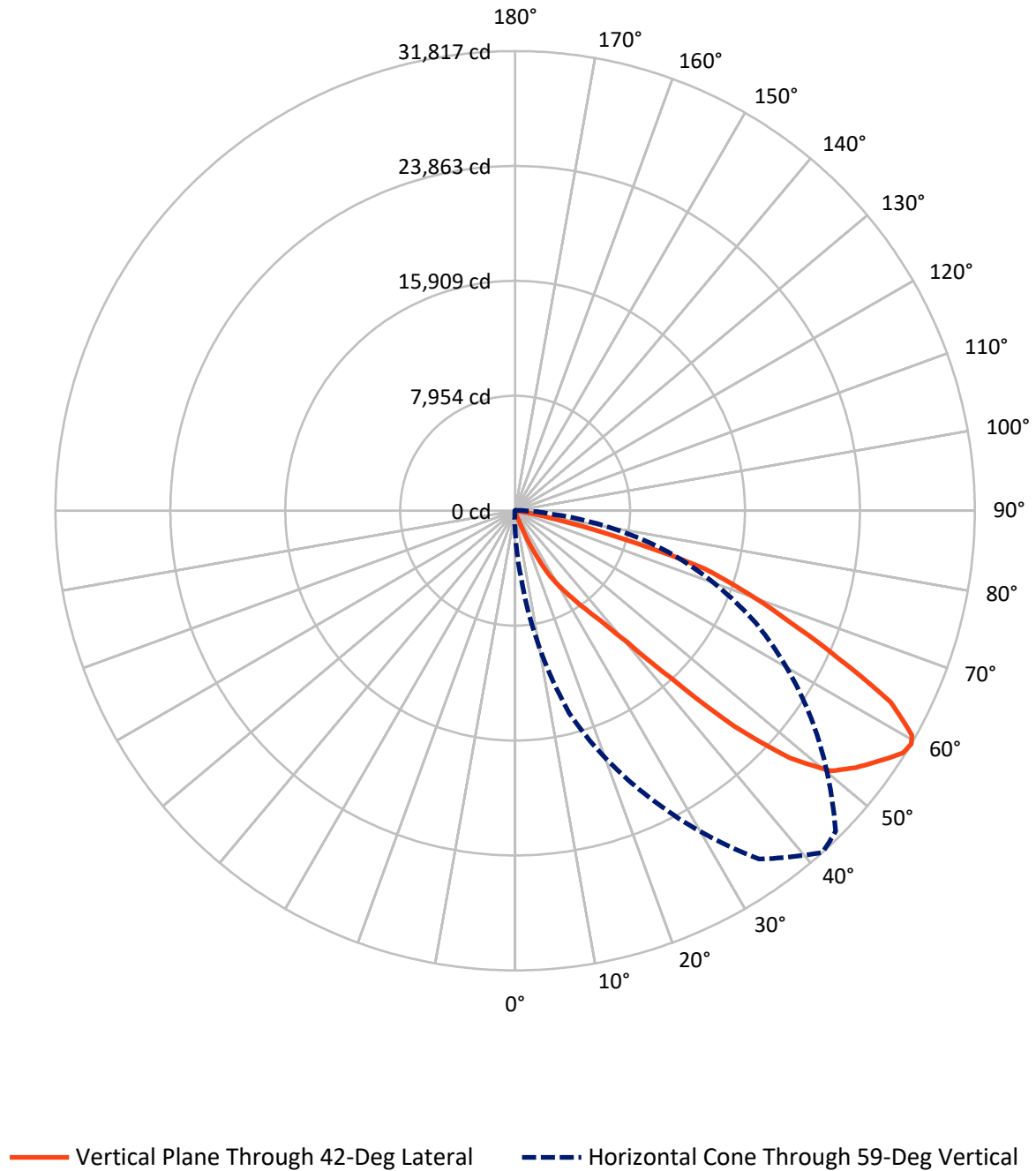


Based on 15 foot mounting height. Maximum calculated value = 34.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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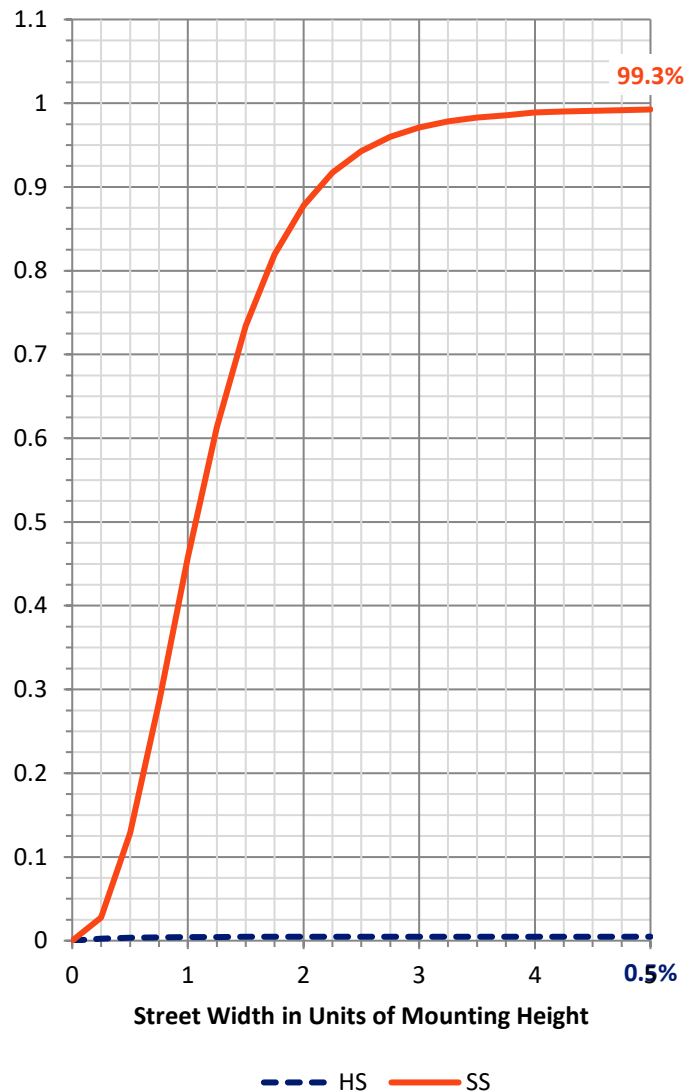
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.9	0.0	55.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	11540.4	0.0	11540.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	11596.3	0.0	11596.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.0
10°-20°	16.9	0.1
20°-30°	216.3	1.9
30°-40°	729.3	6.3
40°-50°	2202.7	19.0
50°-60°	3888.3	33.5
60°-70°	3423.7	29.5
70°-80°	1089.8	9.4
80°-90°	26.1	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°	11596.3	100.0
0°-180°	11596.3	100.0



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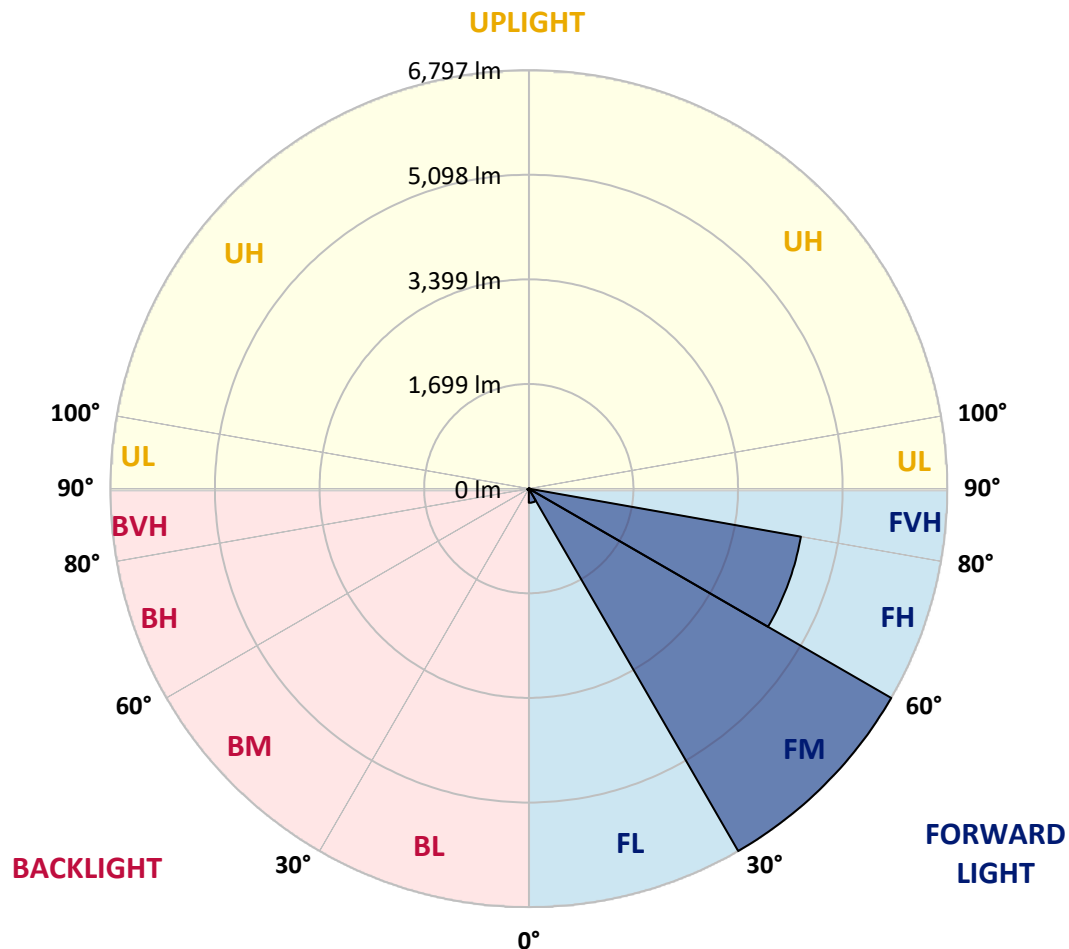
CATALOG NUMBER: NAV-SA3D-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.4	2.0			
FM	(30°-60°)	6797.4	58.6			
FH	(60°-80°)	4487.9	38.7			G2/5000
FVH	(80°-90°)	24.8	0.2			G1/100
BL	(0°-30°)	6.2	0.1	B0/110		
BM	(30°-60°)	22.8	0.2	B0/220		
BH	(60°-80°)	25.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	50.9	50.9	47.3	43.6	40.0	36.4	36.4	36.4	32.7	32.7	29.1
5°	58.2	58.2	54.5	50.9	50.9	47.3	47.3	43.6	40.0	40.0	36.4
7.5°	61.8	61.8	61.8	61.8	58.2	58.2	58.2	54.5	50.9	47.3	43.6
10°	65.4	69.1	72.7	72.7	72.7	72.7	72.7	69.1	61.8	58.2	50.9
12.5°	72.7	76.4	83.6	90.9	90.9	94.5	90.9	87.3	80.0	69.1	58.2
15°	80.0	87.3	98.2	112.7	127.3	130.9	130.9	120.0	105.4	83.6	69.1
17.5°	90.9	101.8	130.9	178.2	229.1	269.1	269.1	240.0	167.2	109.1	80.0
20°	98.2	120.0	210.9	429.0	654.4	821.7	789.0	698.1	374.5	170.9	87.3
22.5°	109.1	152.7	447.2	1127.1	1745.2	2050.6	1977.9	1501.6	839.9	305.4	105.4
25°	123.6	221.8	887.1	2112.4	3243.2	3574.0	3526.7	2803.2	1530.7	512.7	134.5
27.5°	152.7	327.2	1421.6	3203.2	4784.7	5068.3	5050.2	4104.8	2446.9	825.3	174.5
30°	192.7	476.3	2108.8	4352.1	5806.4	6093.6	6002.7	5057.4	3301.3	1261.6	225.4
32.5°	240.0	665.4	2730.5	5199.2	6748.1	7126.2	7017.1	5886.4	3988.5	1632.5	334.5
35°	312.7	850.8	3345.0	5948.2	7835.2	8315.1	8133.3	6740.8	4581.1	2050.6	403.6
37.5°	349.0	959.9	3908.5	6762.6	9056.8	9711.3	9573.1	7820.7	5184.7	2585.1	494.5
40°	352.7	1090.7	4493.9	7824.3	10783.9	11951.0	11703.7	9674.9	6308.2	3272.2	636.3
42.5°	363.6	1287.1	5253.8	9634.9	14176.1	15852.2	15572.2	13085.3	8856.9	4650.2	901.7
45°	414.5	1657.9	6802.6	13019.9	18833.6	21291.4	20967.8	17837.4	12416.3	7242.6	1538.0
47.5°	592.6	2494.2	9518.6	16673.9	23596.5	25556.2	25476.2	21582.3	15641.3	9900.3	2606.9
50°	952.6	3828.5	12609.0	19746.2	26628.8	28312.2	28112.2	23145.7	17481.0	11714.6	3341.3
52.5°	1272.5	5104.7	14550.6	20876.9	27534.1	29541.1	29297.5	23716.5	17964.6	12249.1	3544.9
55°	1352.5	5566.4	15128.7	21225.9	28134.0	30580.9	30228.2	24098.2	18026.4	11867.3	3206.8
57.5°	1312.5	5130.1	14754.2	21567.7	28970.2	31649.8	31180.8	24843.6	18233.7	11220.2	2668.7
59°	1243.5	4592.0	14521.5	21840.4	29432.0	31817.1	31377.2	25007.2	18371.8	10925.7	2341.5
60°	1163.5	4228.5	14339.7	22018.6	29402.9	31555.3	31100.8	24930.8	18426.4	10671.1	2185.1
62.5°	898.0	3374.0	14077.9	21891.3	27566.8	29166.6	28908.4	23062.0	17626.5	9856.7	1723.4
65°	698.1	2581.4	13118.1	19524.4	23458.3	24534.5	24454.6	19528.0	14834.2	8496.9	1243.5
67.5°	552.6	1883.4	11092.9	15812.2	18873.6	20404.2	20346.1	15852.2	11260.1	6493.6	894.4
70°	450.8	1341.6	7606.1	11921.9	15095.9	17022.9	16939.3	12758.1	8344.2	4119.4	650.8
72.5°	381.8	858.1	4613.9	8987.8	12598.1	13699.8	13456.2	10293.0	6068.2	2243.3	516.3
75°	323.6	527.2	2286.9	5602.8	7504.3	7497.1	7253.5	5450.1	3257.7	1098.0	410.8
77.5°	261.8	370.9	898.0	1538.0	2366.9	2930.5	2883.2	1930.6	974.4	320.0	254.5
80°	170.9	174.5	240.0	421.8	650.8	719.9	818.1	589.0	283.6	152.7	105.4
82.5°	76.4	83.6	109.1	138.2	138.2	127.3	112.7	83.6	61.8	50.9	25.5
85°	18.2	25.5	18.2	21.8	18.2	14.5	14.5	7.3	0.0	0.0	0.0
87.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	29.1	29.1	29.1	25.5	25.5	25.5	21.8	21.8	21.8	18.2	18.2
5°	36.4	32.7	29.1	29.1	25.5	25.5	21.8	18.2	18.2	18.2	14.5
7.5°	40.0	36.4	32.7	29.1	25.5	21.8	21.8	18.2	14.5	14.5	14.5
10°	47.3	43.6	36.4	29.1	25.5	21.8	18.2	18.2	14.5	10.9	10.9
12.5°	54.5	47.3	40.0	32.7	25.5	21.8	18.2	18.2	14.5	10.9	7.3
15°	61.8	54.5	43.6	32.7	25.5	21.8	18.2	18.2	10.9	7.3	3.6
17.5°	69.1	58.2	43.6	36.4	25.5	21.8	18.2	14.5	7.3	3.6	0.0
20°	72.7	61.8	47.3	36.4	25.5	21.8	18.2	10.9	3.6	0.0	0.0
22.5°	80.0	69.1	50.9	36.4	25.5	18.2	10.9	3.6	0.0	0.0	0.0
25°	94.5	72.7	50.9	36.4	25.5	18.2	7.3	0.0	0.0	0.0	0.0
27.5°	105.4	80.0	50.9	36.4	25.5	14.5	3.6	0.0	0.0	0.0	0.0
30°	123.6	87.3	54.5	36.4	25.5	10.9	3.6	0.0	0.0	0.0	0.0
32.5°	152.7	94.5	54.5	36.4	21.8	10.9	0.0	0.0	0.0	0.0	0.0
35°	185.4	109.1	54.5	36.4	21.8	10.9	0.0	0.0	0.0	0.0	0.0
37.5°	189.1	116.3	54.5	36.4	21.8	7.3	0.0	0.0	0.0	0.0	0.0
40°	196.3	109.1	58.2	36.4	21.8	7.3	0.0	0.0	0.0	0.0	0.0
42.5°	225.4	101.8	61.8	36.4	21.8	7.3	0.0	0.0	0.0	0.0	0.0
45°	334.5	105.4	61.8	40.0	21.8	10.9	0.0	0.0	0.0	0.0	0.0
47.5°	581.7	109.1	58.2	40.0	21.8	10.9	0.0	0.0	0.0	0.0	0.0
50°	745.3	127.3	58.2	43.6	25.5	7.3	0.0	0.0	0.0	0.0	0.0
52.5°	792.6	149.1	58.2	47.3	32.7	3.6	0.0	0.0	0.0	0.0	0.0
55°	770.8	174.5	61.8	50.9	40.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	712.6	189.1	65.4	54.5	43.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	650.8	200.0	76.4	58.2	43.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	599.9	210.9	80.0	61.8	43.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	483.6	225.4	87.3	72.7	36.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	421.8	236.3	90.9	80.0	32.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	385.4	243.6	98.2	83.6	29.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	356.3	240.0	105.4	80.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	323.6	229.1	127.3	72.7	21.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	290.9	207.2	138.2	65.4	14.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	210.9	174.5	127.3	58.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.9	94.5	90.9	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.2	21.8	18.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	18.2	18.2	18.2	18.2	21.8	21.8	29.1	36.4	43.6	47.3	47.3
5°	14.5	14.5	14.5	14.5	14.5	18.2	21.8	29.1	40.0	43.6	43.6
7.5°	10.9	10.9	10.9	10.9	10.9	10.9	18.2	25.5	36.4	40.0	43.6
10°	10.9	7.3	7.3	3.6	3.6	7.3	10.9	21.8	32.7	36.4	40.0
12.5°	7.3	3.6	3.6	0.0	0.0	3.6	7.3	18.2	29.1	32.7	36.4
15°	3.6	0.0	0.0	0.0	0.0	0.0	3.6	14.5	25.5	29.1	36.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.8	29.1	32.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2	25.5	29.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	14.5	21.8	25.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	14.5	18.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	10.9	14.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	10.9	14.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	7.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	50.9	50.9	47.3	43.6	43.6	43.6	47.3	50.9	50.9	50.9
5°	47.3	47.3	43.6	43.6	43.6	43.6	47.3	54.5	58.2	58.2
7.5°	47.3	47.3	43.6	43.6	43.6	43.6	47.3	54.5	58.2	61.8
10°	43.6	43.6	43.6	43.6	40.0	43.6	47.3	54.5	65.4	65.4
12.5°	43.6	43.6	43.6	43.6	40.0	43.6	50.9	58.2	69.1	72.7
15°	43.6	43.6	43.6	40.0	40.0	43.6	50.9	61.8	72.7	80.0
17.5°	40.0	43.6	43.6	40.0	40.0	43.6	50.9	61.8	80.0	90.9
20°	36.4	40.0	43.6	40.0	40.0	40.0	50.9	61.8	83.6	98.2
22.5°	32.7	36.4	40.0	40.0	36.4	40.0	50.9	65.4	90.9	109.1
25°	29.1	32.7	32.7	36.4	36.4	40.0	50.9	65.4	94.5	123.6
27.5°	21.8	25.5	29.1	32.7	32.7	40.0	50.9	69.1	101.8	152.7
30°	18.2	21.8	25.5	29.1	32.7	40.0	50.9	69.1	109.1	192.7
32.5°	18.2	21.8	25.5	29.1	32.7	36.4	50.9	72.7	120.0	240.0
35°	14.5	18.2	21.8	29.1	29.1	36.4	50.9	72.7	130.9	312.7
37.5°	14.5	18.2	21.8	29.1	29.1	36.4	50.9	72.7	160.0	349.0
40°	10.9	14.5	18.2	29.1	29.1	36.4	54.5	76.4	163.6	352.7
42.5°	10.9	14.5	18.2	25.5	29.1	36.4	54.5	76.4	152.7	363.6
45°	10.9	14.5	18.2	29.1	32.7	40.0	54.5	80.0	149.1	414.5
47.5°	10.9	14.5	18.2	29.1	36.4	40.0	54.5	80.0	152.7	592.6
50°	10.9	14.5	18.2	29.1	40.0	40.0	54.5	80.0	167.2	952.6
52.5°	7.3	10.9	14.5	25.5	32.7	43.6	58.2	76.4	178.2	1272.5
55°	7.3	7.3	10.9	21.8	29.1	47.3	61.8	76.4	207.2	1352.5
57.5°	7.3	7.3	10.9	18.2	25.5	50.9	65.4	76.4	240.0	1312.5
59°	7.3	7.3	7.3	18.2	21.8	50.9	65.4	80.0	243.6	1243.5
60°	7.3	7.3	7.3	14.5	21.8	50.9	69.1	83.6	247.2	1163.5
62.5°	3.6	3.6	3.6	14.5	18.2	50.9	76.4	101.8	254.5	898.0
65°	7.3	7.3	3.6	10.9	18.2	43.6	87.3	109.1	258.1	698.1
67.5°	7.3	7.3	7.3	14.5	18.2	43.6	90.9	112.7	258.1	552.6
70°	7.3	7.3	7.3	14.5	21.8	43.6	90.9	116.3	254.5	450.8
72.5°	7.3	7.3	7.3	14.5	21.8	40.0	83.6	120.0	243.6	381.8
75°	7.3	7.3	7.3	10.9	18.2	36.4	80.0	130.9	221.8	323.6
77.5°	7.3	7.3	7.3	7.3	14.5	29.1	72.7	145.4	196.3	261.8
80°	10.9	7.3	7.3	7.3	10.9	25.5	69.1	141.8	163.6	170.9
82.5°	10.9	7.3	7.3	3.6	7.3	18.2	54.5	109.1	83.6	76.4
85°	7.3	7.3	7.3	3.6	3.6	10.9	25.5	32.7	25.5	18.2
87.5°	7.3	7.3	7.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

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

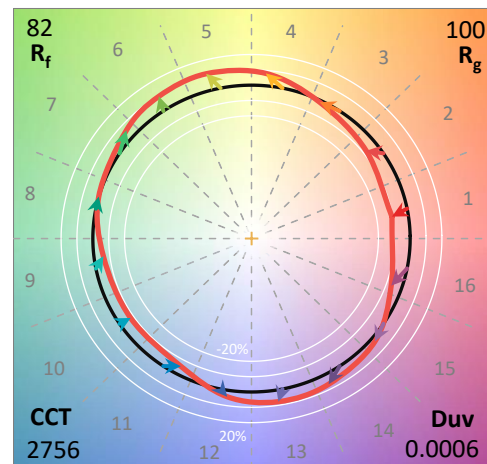
Test Information

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

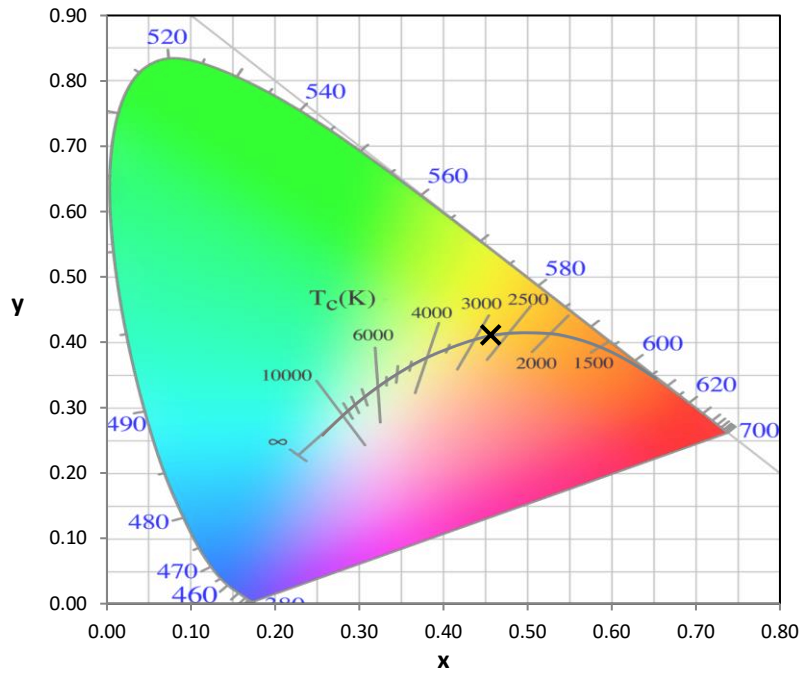
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

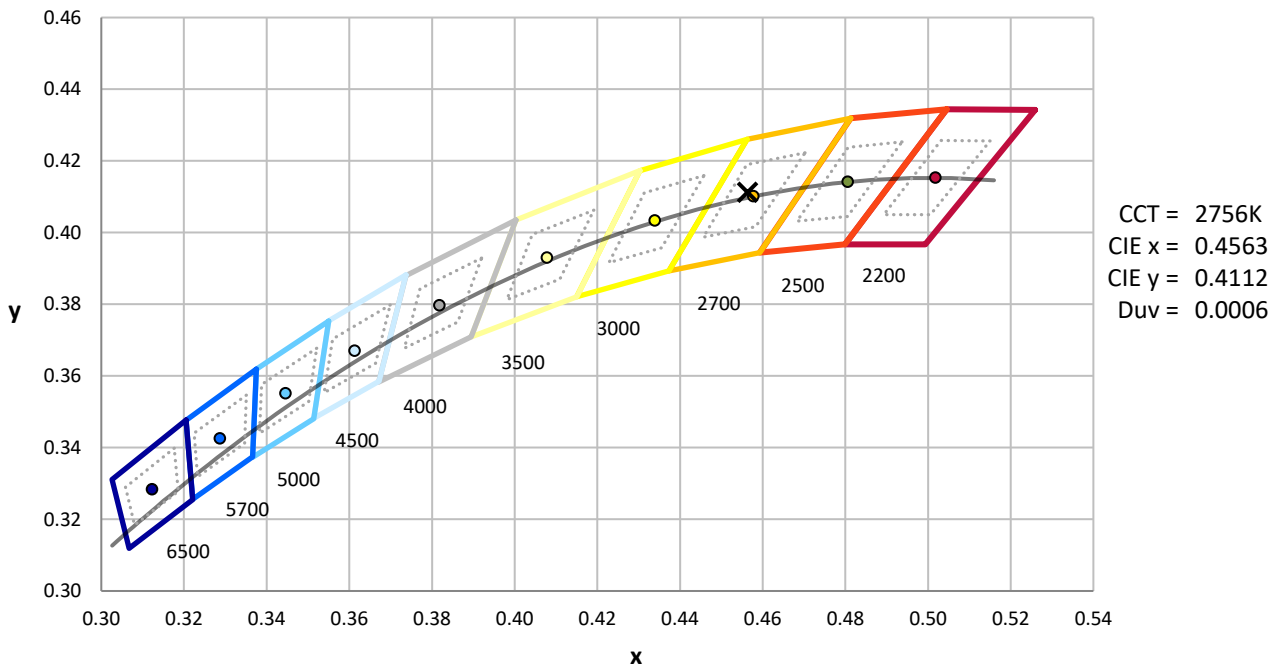
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



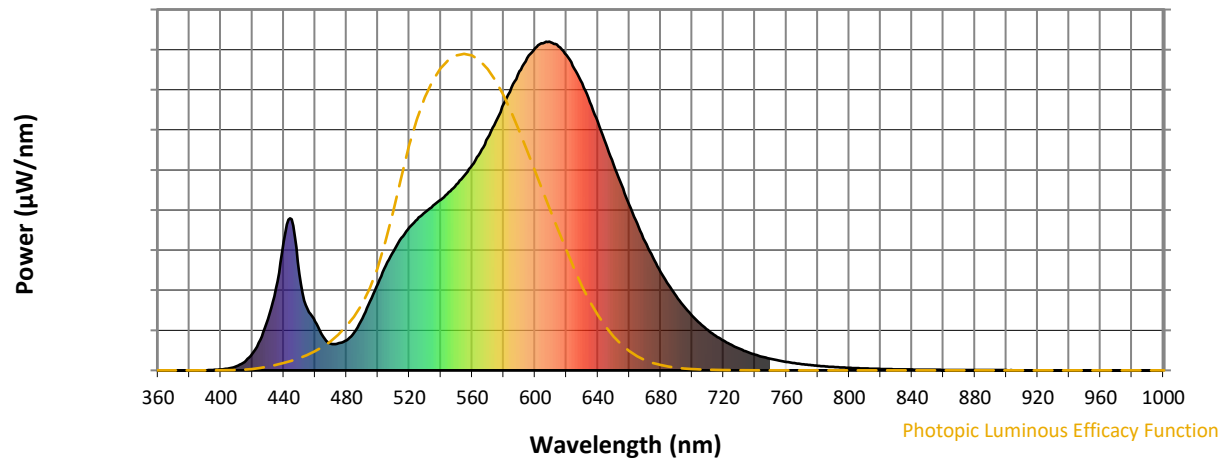
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

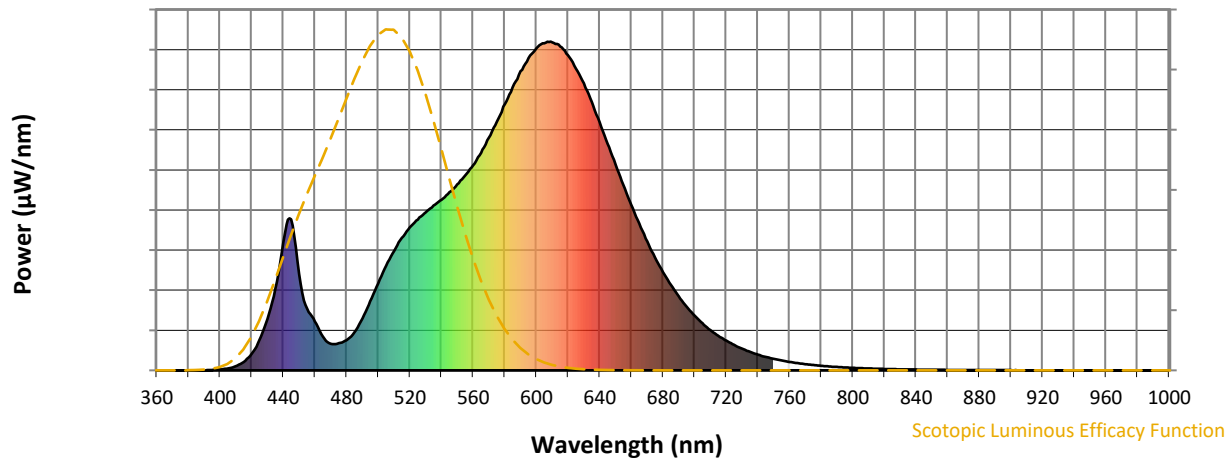


Photopic Lumens: NR

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



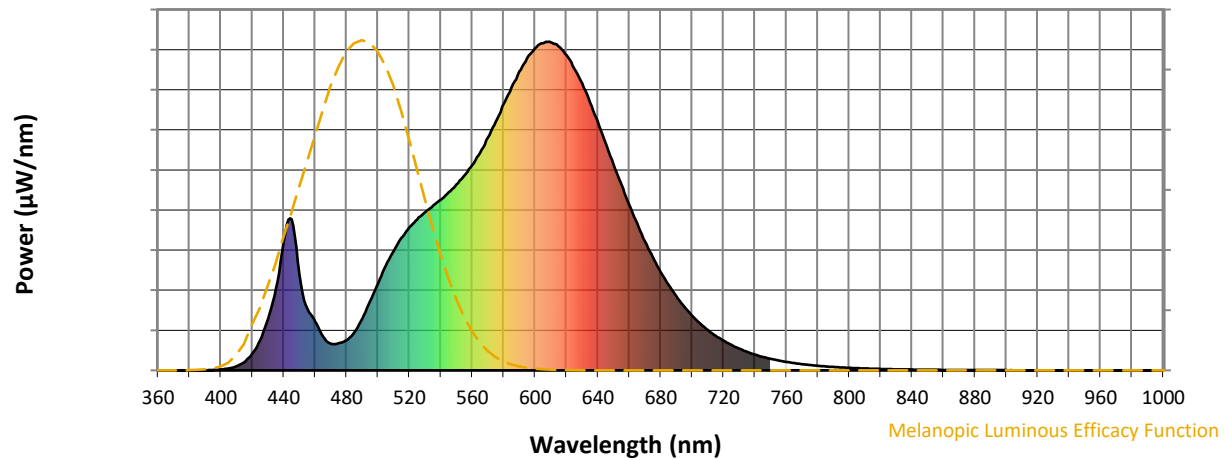
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power W [^] /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	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

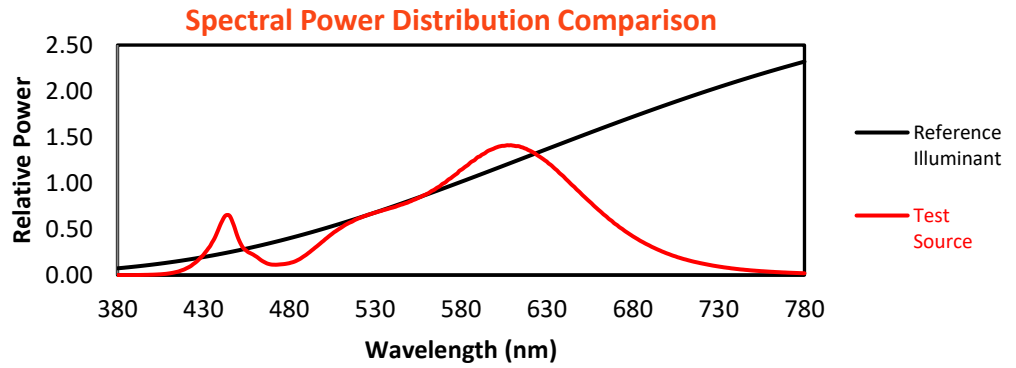
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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			

REPORT NUMBER: SP1-2407-184-8

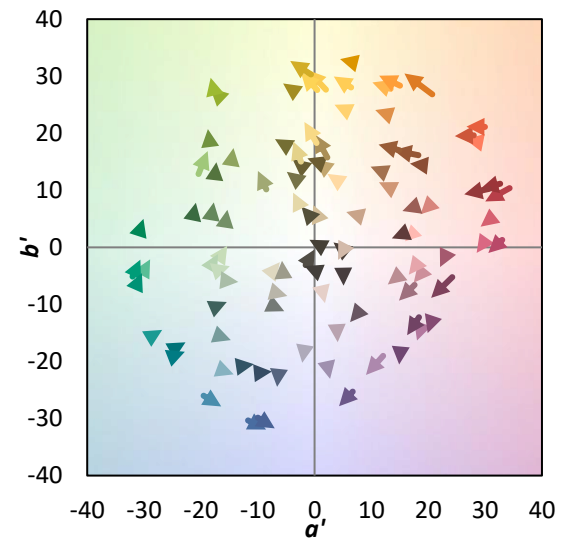
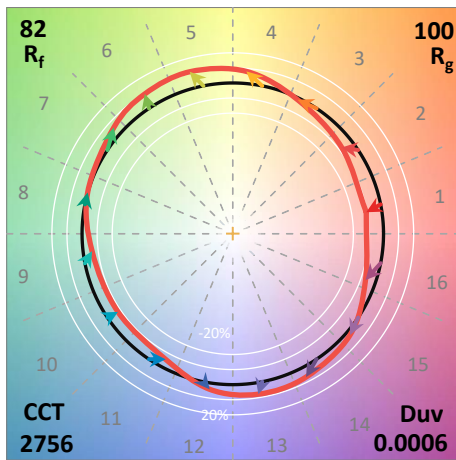
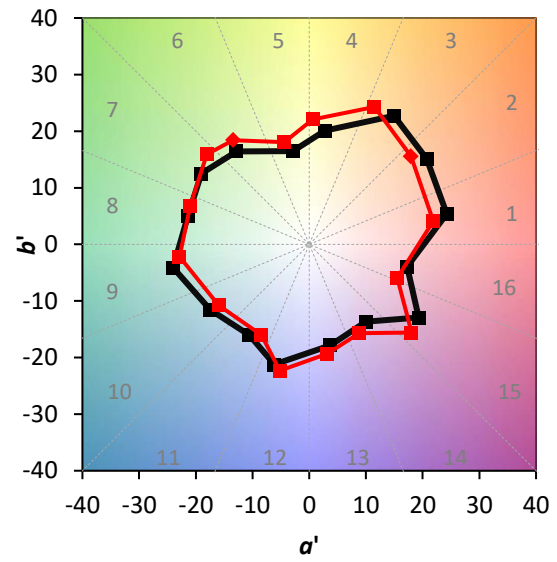
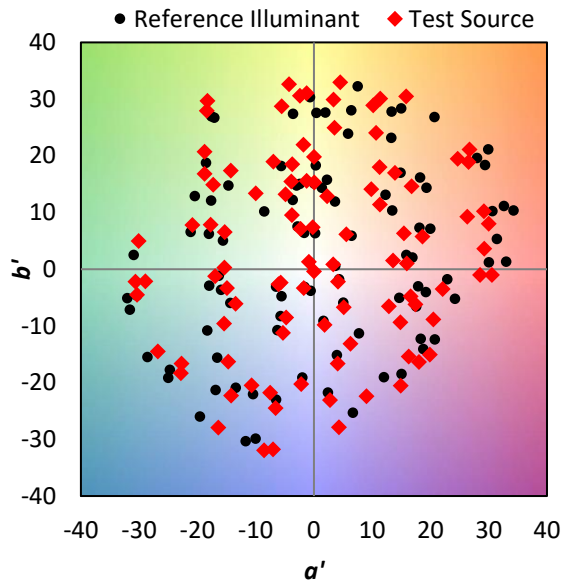
TM-30-18

Summary

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

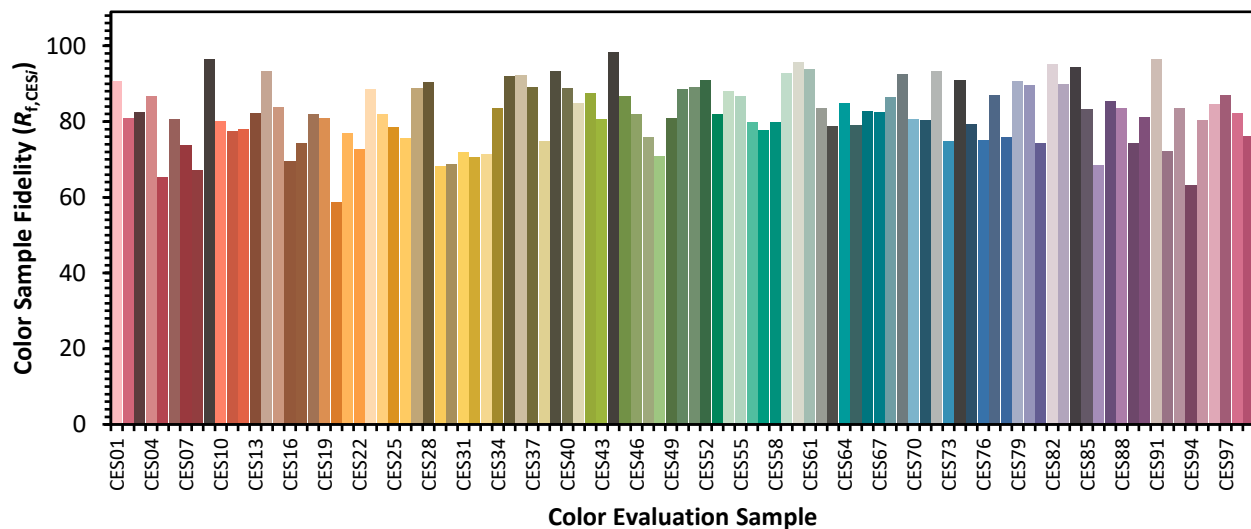


Color Vector Graphics

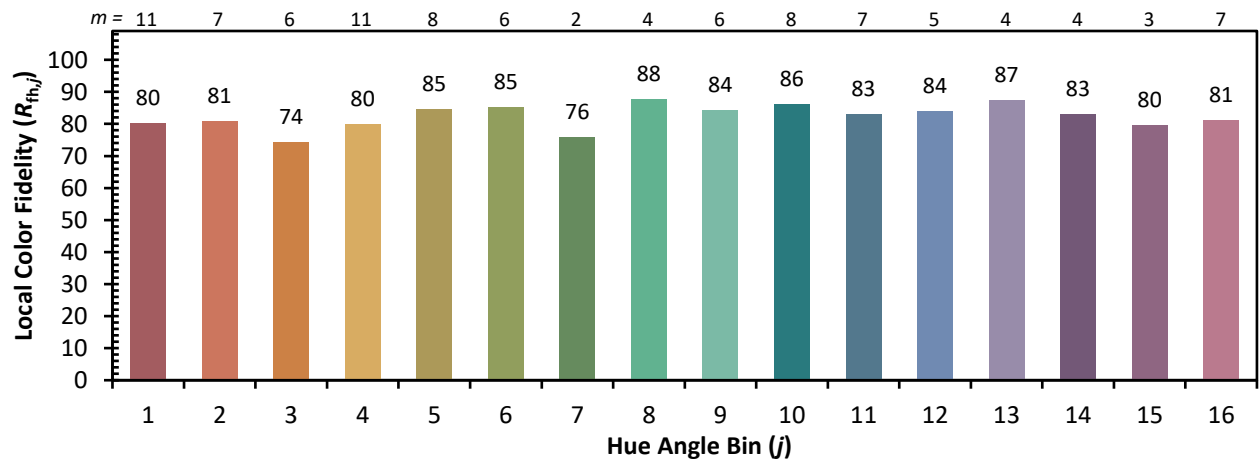
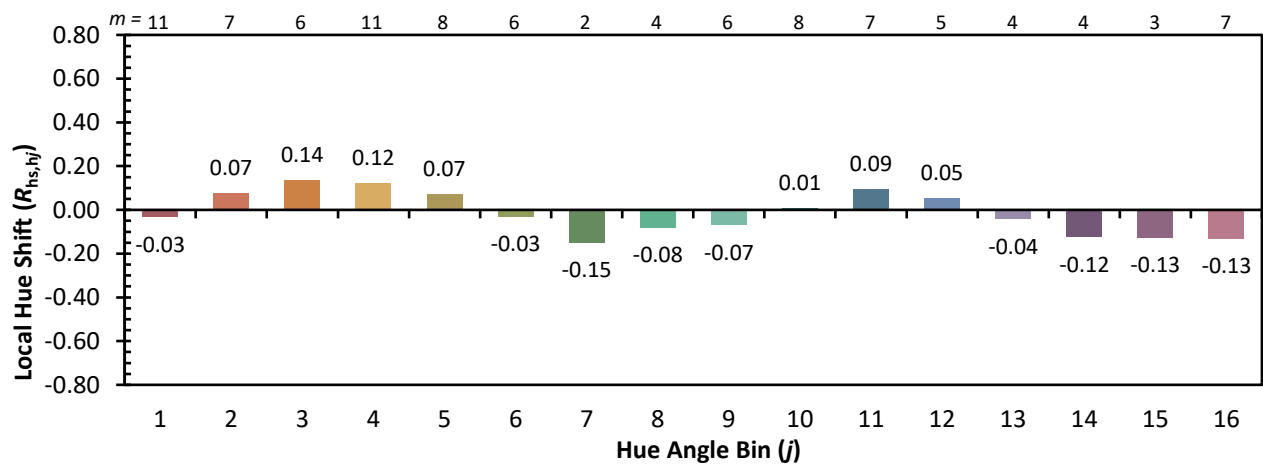
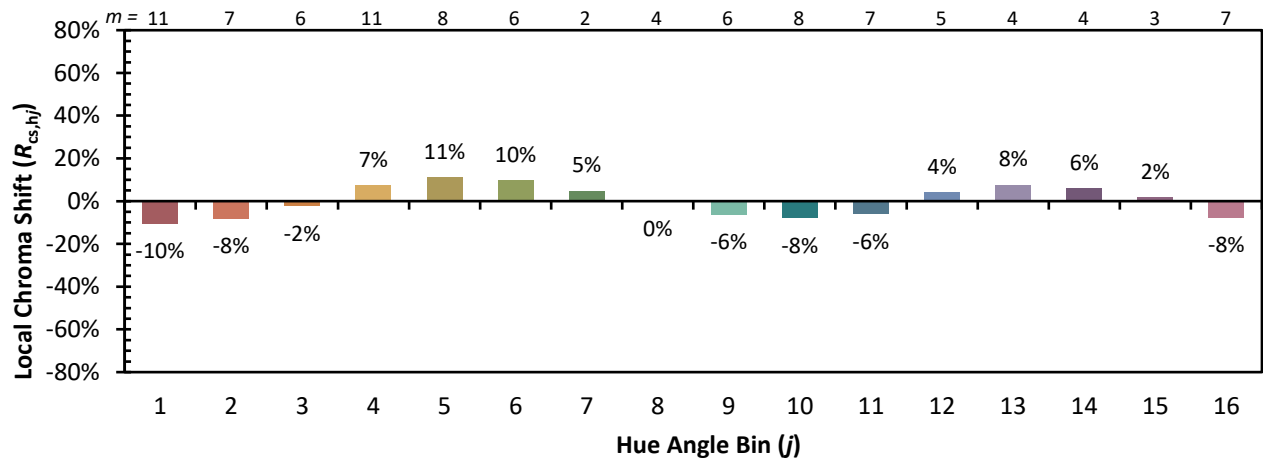


Individual Sample Fidelity Index ($R_{f,i}$)

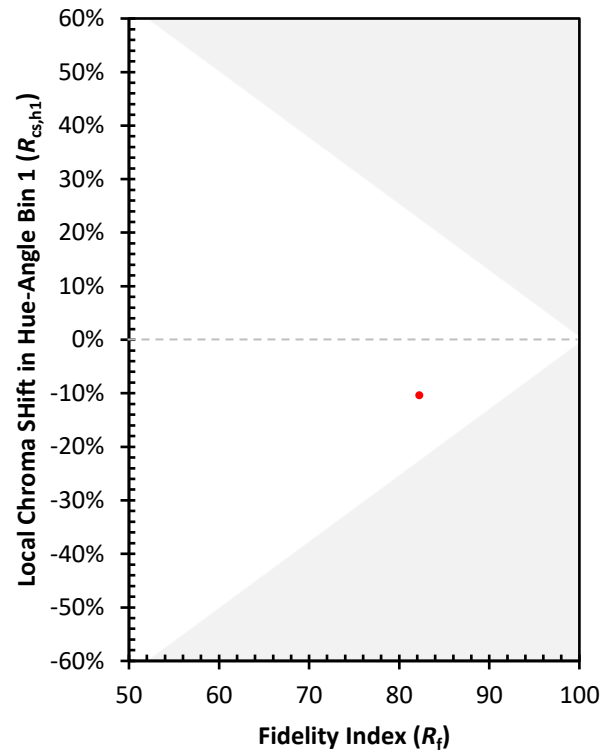
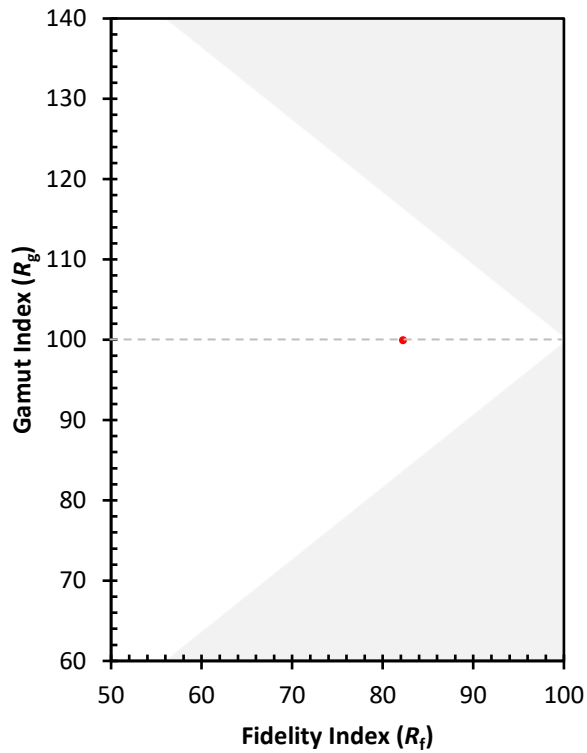
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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)