

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: P1068107

Luminaire Tested: **NAV-SA6C-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068107
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6C-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25105.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 279.1
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

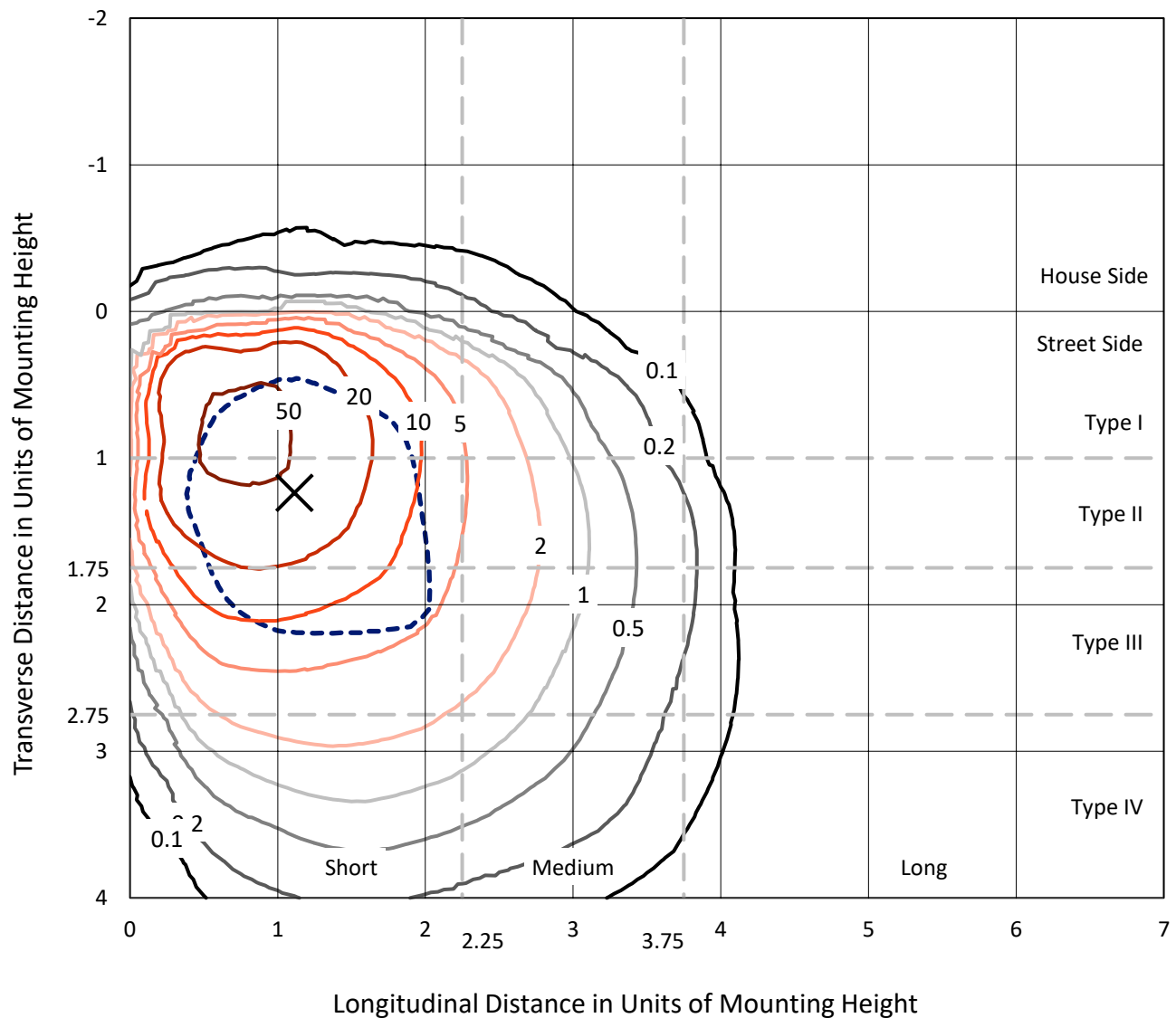


REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

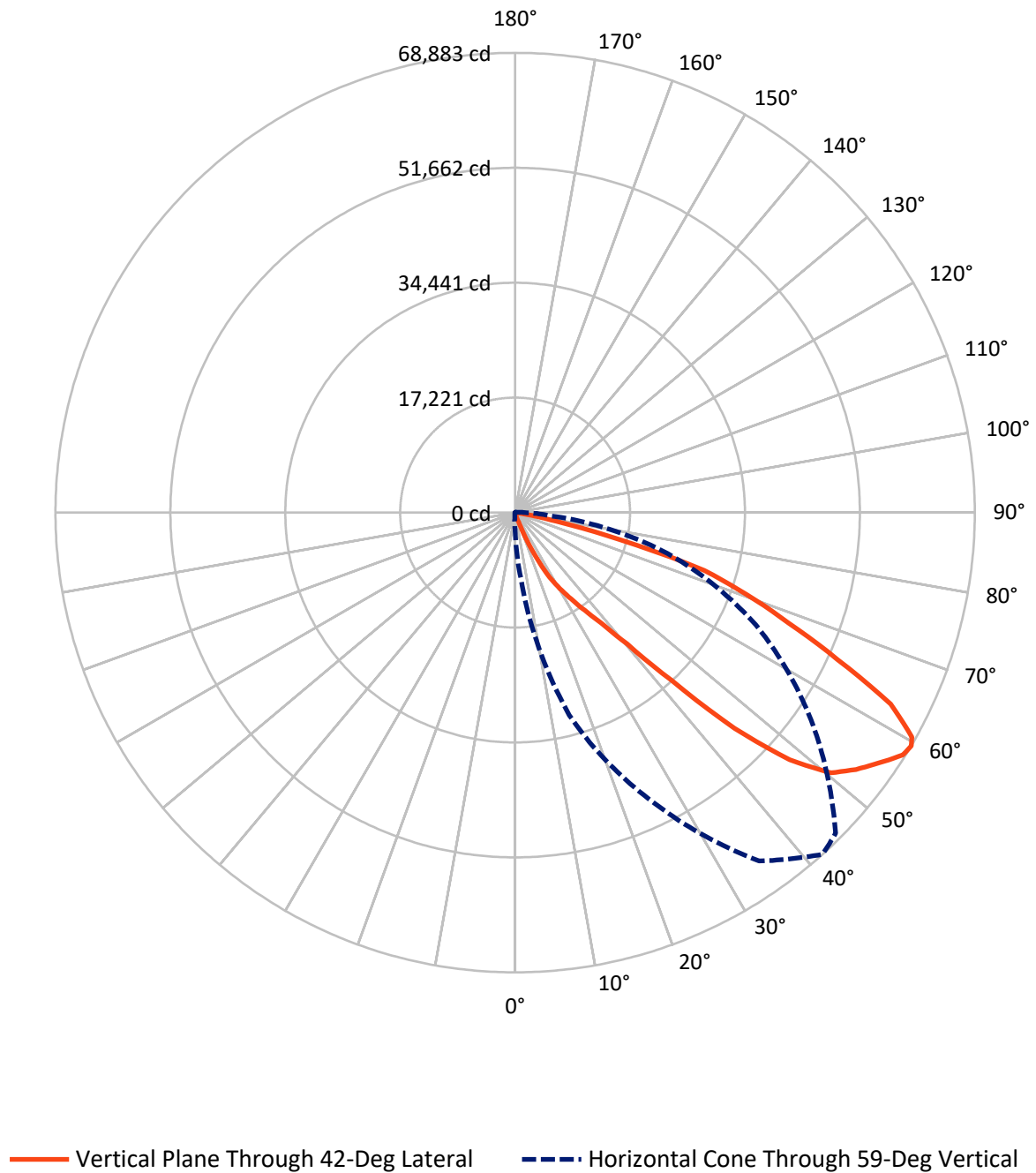


Based on 15 foot mounting height. Maximum calculated value = 74.6 fc
 Type III - Short - N/A

REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1068107

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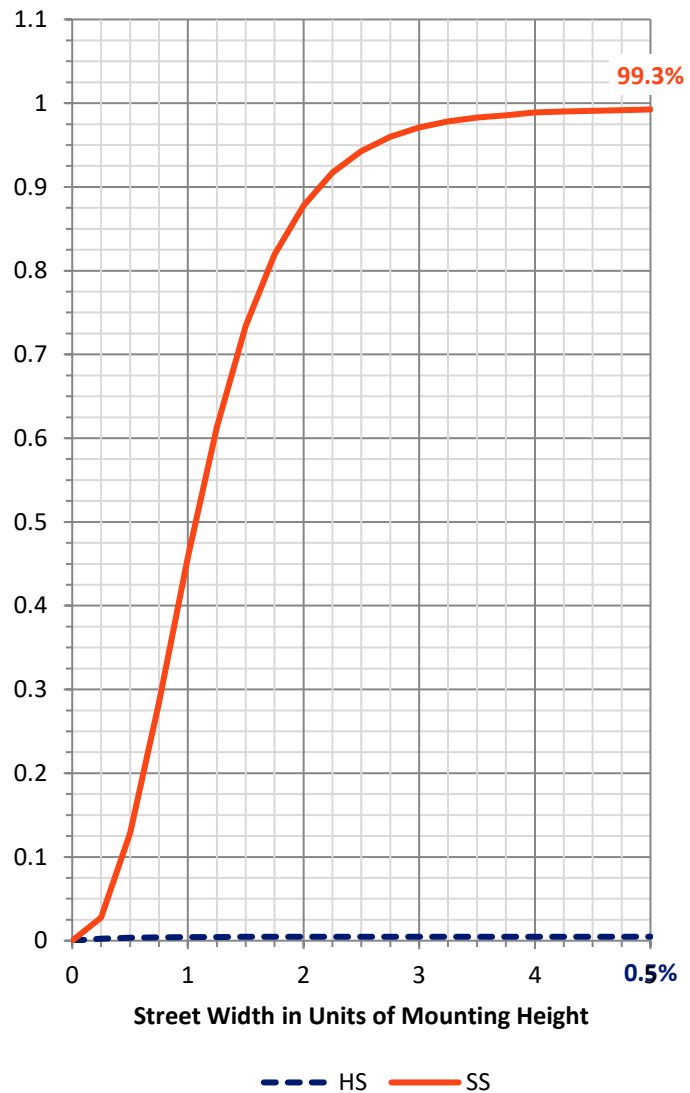
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	121.0	0.0	121.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	24984.5	0.0	24984.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	25105.5	0.0	25105.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.0
10°-20°	36.6	0.1
20°-30°	468.3	1.9
30°-40°	1578.8	6.3
40°-50°	4768.7	19.0
50°-60°	8417.9	33.5
60°-70°	7412.1	29.5
70°-80°	2359.3	9.4
80°-90°	56.4	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°	25105.5	100.0
0°-180°	25105.5	100.0



REPORT NUMBER: P1068107

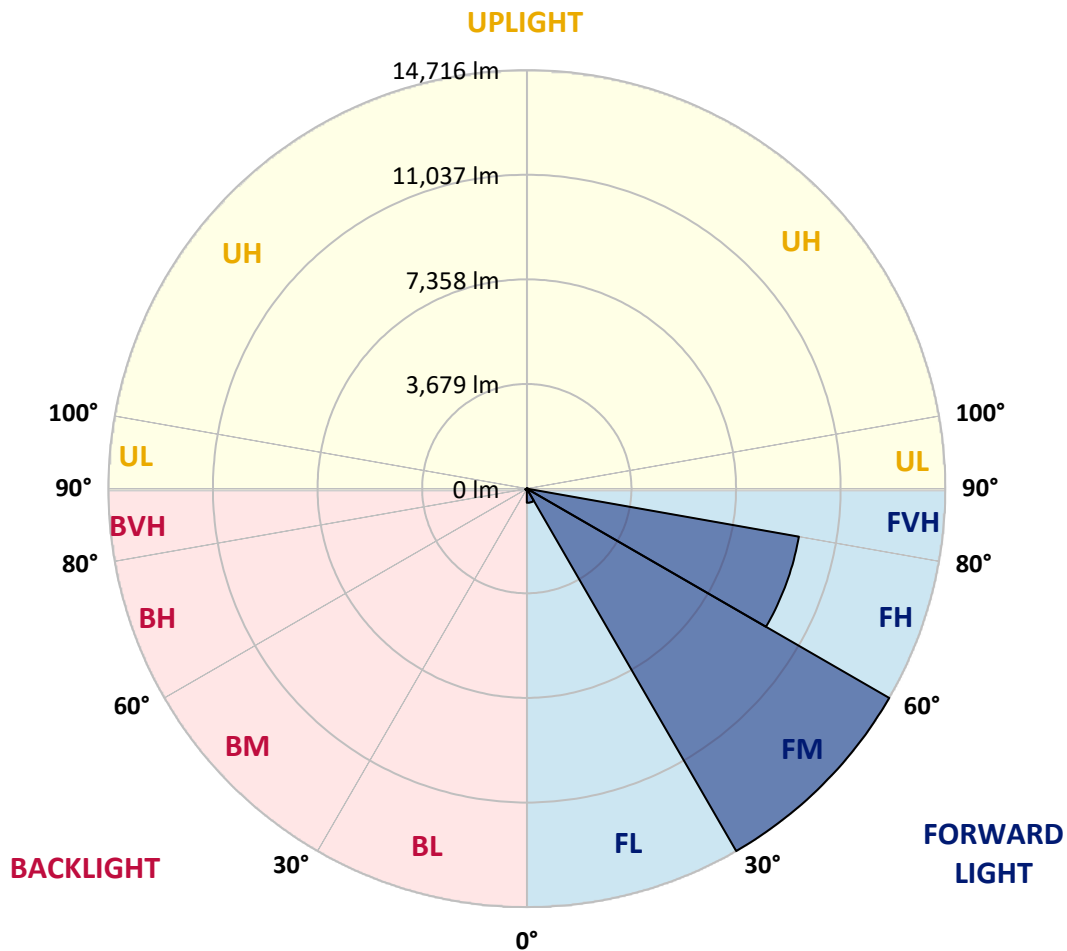
CATALOG NUMBER: NAV-SA6C-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.8	2.0			
FM	(30°-60°)	14716.0	58.6			
FH	(60°-80°)	9716.1	38.7			G4/12000
FVH	(80°-90°)	53.7	0.2			G1/100
BL	(0°-30°)	13.5	0.1	B0/110		
BM	(30°-60°)	49.4	0.2	B0/220		
BH	(60°-80°)	55.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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



REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	110.2	110.2	102.3	94.5	86.6	78.7	78.7	78.7	70.8	70.8	63.0
5°	125.9	125.9	118.1	110.2	110.2	102.3	102.3	94.5	86.6	86.6	78.7
7.5°	133.8	133.8	133.8	133.8	125.9	125.9	125.9	118.1	110.2	102.3	94.5
10°	141.7	149.6	157.4	157.4	157.4	157.4	157.4	149.6	133.8	125.9	110.2
12.5°	157.4	165.3	181.0	196.8	196.8	204.7	196.8	188.9	173.2	149.6	125.9
15°	173.2	188.9	212.5	244.0	275.5	283.4	283.4	259.8	228.3	181.0	149.6
17.5°	196.8	220.4	283.4	385.7	495.9	582.5	582.5	519.5	362.1	236.1	173.2
20°	212.5	259.8	456.5	928.8	1416.9	1778.9	1708.1	1511.3	810.8	370.0	188.9
22.5°	236.1	330.6	968.2	2440.1	3778.3	4439.5	4282.0	3250.9	1818.3	661.2	228.3
25°	267.6	480.2	1920.6	4573.3	7021.3	7737.6	7635.3	6068.9	3313.9	1109.9	291.2
27.5°	330.6	708.4	3077.7	6934.7	10358.8	10972.7	10933.4	8886.8	5297.5	1786.8	377.8
30°	417.2	1031.2	4565.4	9422.1	12570.6	13192.5	12995.7	10949.1	7147.2	2731.4	488.0
32.5°	519.5	1440.5	5911.4	11256.1	14609.3	15428.0	15191.8	12743.8	8634.9	3534.3	724.2
35°	676.9	1841.9	7241.7	12877.6	16962.9	18001.9	17608.3	14593.6	9918.0	4439.5	873.7
37.5°	755.7	2078.1	8461.8	14640.8	19607.7	21024.5	20725.4	16931.4	11224.6	5596.6	1070.5
40°	763.5	2361.4	9729.1	16939.3	23346.6	25873.3	25338.0	20945.8	13656.9	7084.3	1377.5
42.5°	787.1	2786.5	11374.2	20859.2	30690.6	34319.3	33713.2	28329.2	19174.7	10067.5	1952.1
45°	897.3	3589.4	14727.4	28187.5	40773.9	46094.9	45394.4	38617.1	26880.8	15679.8	3329.6
47.5°	1283.0	5399.8	20607.3	36098.3	51085.4	55328.1	55154.9	46724.7	33862.8	21433.8	5643.8
50°	2062.3	8288.6	27298.0	42749.6	57650.2	61294.6	60861.7	50109.4	37845.7	25361.7	7233.8
52.5°	2755.0	11051.5	31501.4	45197.6	59610.1	63955.2	63427.8	51345.2	38892.6	26518.8	7674.6
55°	2928.2	12051.1	32752.9	45953.3	60908.9	66206.4	65442.8	52171.7	39026.4	25692.3	6942.6
57.5°	2841.6	11106.6	31942.2	46693.2	62719.3	68520.6	67505.2	53785.3	39475.1	24291.2	5777.6
59°	2692.0	9941.6	31438.4	47283.5	63719.0	68882.7	67930.2	54139.5	39774.2	23653.6	5069.2
60°	2518.8	9154.4	31044.8	47669.2	63656.0	68315.9	67332.0	53974.2	39892.3	23102.6	4730.7
62.5°	1944.2	7304.7	30478.1	47393.7	59681.0	63144.4	62585.5	49928.3	38160.6	21339.4	3731.0
65°	1511.3	5588.7	28400.0	42269.4	50786.3	53116.2	52943.1	42277.3	32115.3	18395.5	2692.0
67.5°	1196.5	4077.4	24015.7	34232.7	40860.5	44174.3	44048.4	34319.3	24377.7	14058.3	1936.4
70°	976.1	2904.5	16467.0	25810.3	32682.1	36853.9	36672.9	27620.8	18064.9	8918.3	1409.0
72.5°	826.5	1857.7	9988.8	19458.1	27274.4	29659.4	29132.1	22283.9	13137.4	4856.7	1117.7
75°	700.6	1141.4	4951.1	12129.8	16246.6	16230.8	15703.5	11799.2	7052.8	2377.2	889.5
77.5°	566.7	802.9	1944.2	3329.6	5124.3	6344.4	6242.0	4179.7	2109.5	692.7	551.0
80°	370.0	377.8	519.5	913.1	1409.0	1558.5	1771.1	1275.2	614.0	330.6	228.3
82.5°	165.3	181.0	236.1	299.1	299.1	275.5	244.0	181.0	133.8	110.2	55.1
85°	39.4	55.1	39.4	47.2	39.4	31.5	31.5	15.7	0.0	0.0	0.0
87.5°	7.9	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

REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	63.0	63.0	63.0	55.1	55.1	55.1	47.2	47.2	47.2	39.4	39.4
5°	78.7	70.8	63.0	63.0	55.1	55.1	47.2	39.4	39.4	39.4	31.5
7.5°	86.6	78.7	70.8	63.0	55.1	47.2	47.2	39.4	31.5	31.5	31.5
10°	102.3	94.5	78.7	63.0	55.1	47.2	39.4	39.4	31.5	23.6	23.6
12.5°	118.1	102.3	86.6	70.8	55.1	47.2	39.4	39.4	31.5	23.6	15.7
15°	133.8	118.1	94.5	70.8	55.1	47.2	39.4	39.4	23.6	15.7	7.9
17.5°	149.6	125.9	94.5	78.7	55.1	47.2	39.4	31.5	15.7	7.9	0.0
20°	157.4	133.8	102.3	78.7	55.1	47.2	39.4	23.6	7.9	0.0	0.0
22.5°	173.2	149.6	110.2	78.7	55.1	39.4	23.6	7.9	0.0	0.0	0.0
25°	204.7	157.4	110.2	78.7	55.1	39.4	15.7	0.0	0.0	0.0	0.0
27.5°	228.3	173.2	110.2	78.7	55.1	31.5	7.9	0.0	0.0	0.0	0.0
30°	267.6	188.9	118.1	78.7	55.1	23.6	7.9	0.0	0.0	0.0	0.0
32.5°	330.6	204.7	118.1	78.7	47.2	23.6	0.0	0.0	0.0	0.0	0.0
35°	401.4	236.1	118.1	78.7	47.2	23.6	0.0	0.0	0.0	0.0	0.0
37.5°	409.3	251.9	118.1	78.7	47.2	15.7	0.0	0.0	0.0	0.0	0.0
40°	425.1	236.1	125.9	78.7	47.2	15.7	0.0	0.0	0.0	0.0	0.0
42.5°	488.0	220.4	133.8	78.7	47.2	15.7	0.0	0.0	0.0	0.0	0.0
45°	724.2	228.3	133.8	86.6	47.2	23.6	0.0	0.0	0.0	0.0	0.0
47.5°	1259.4	236.1	125.9	86.6	47.2	23.6	0.0	0.0	0.0	0.0	0.0
50°	1613.6	275.5	125.9	94.5	55.1	15.7	0.0	0.0	0.0	0.0	0.0
52.5°	1716.0	322.7	125.9	102.3	70.8	7.9	0.0	0.0	0.0	0.0	0.0
55°	1668.7	377.8	133.8	110.2	86.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1542.8	409.3	141.7	118.1	94.5	0.0	0.0	0.0	0.0	0.0	0.0
59°	1409.0	432.9	165.3	125.9	94.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1298.8	456.5	173.2	133.8	94.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1046.9	488.0	188.9	157.4	78.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	913.1	511.6	196.8	173.2	70.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	834.4	527.4	212.5	181.0	63.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	771.4	519.5	228.3	173.2	55.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	700.6	495.9	275.5	157.4	47.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	629.7	448.7	299.1	141.7	31.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	456.5	377.8	275.5	125.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	196.8	204.7	196.8	94.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.4	47.2	39.4	23.6	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	0.0



REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	39.4	39.4	39.4	39.4	47.2	47.2	63.0	78.7	94.5	102.3	102.3
5°	31.5	31.5	31.5	31.5	31.5	39.4	47.2	63.0	86.6	94.5	94.5
7.5°	23.6	23.6	23.6	23.6	23.6	23.6	39.4	55.1	78.7	86.6	94.5
10°	23.6	15.7	15.7	7.9	7.9	15.7	23.6	47.2	70.8	78.7	86.6
12.5°	15.7	7.9	7.9	0.0	0.0	7.9	15.7	39.4	63.0	70.8	78.7
15°	7.9	0.0	0.0	0.0	0.0	0.0	7.9	31.5	55.1	63.0	78.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	47.2	63.0	70.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	39.4	55.1	63.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	31.5	47.2	55.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	31.5	39.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	23.6	31.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	23.6	31.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7	23.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7	23.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7	15.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1068107

CATALOG NUMBER: NAV-SA6C-835-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	110.2	110.2	102.3	94.5	94.5	94.5	102.3	110.2	110.2	110.2
5°	102.3	102.3	94.5	94.5	94.5	94.5	102.3	118.1	125.9	125.9
7.5°	102.3	102.3	94.5	94.5	94.5	94.5	102.3	118.1	125.9	133.8
10°	94.5	94.5	94.5	94.5	86.6	94.5	102.3	118.1	141.7	141.7
12.5°	94.5	94.5	94.5	94.5	86.6	94.5	110.2	125.9	149.6	157.4
15°	94.5	94.5	94.5	86.6	86.6	94.5	110.2	133.8	157.4	173.2
17.5°	86.6	94.5	94.5	86.6	86.6	94.5	110.2	133.8	173.2	196.8
20°	78.7	86.6	94.5	86.6	86.6	86.6	110.2	133.8	181.0	212.5
22.5°	70.8	78.7	86.6	86.6	78.7	86.6	110.2	141.7	196.8	236.1
25°	63.0	70.8	70.8	78.7	78.7	86.6	110.2	141.7	204.7	267.6
27.5°	47.2	55.1	63.0	70.8	70.8	86.6	110.2	149.6	220.4	330.6
30°	39.4	47.2	55.1	63.0	70.8	86.6	110.2	149.6	236.1	417.2
32.5°	39.4	47.2	55.1	63.0	70.8	78.7	110.2	157.4	259.8	519.5
35°	31.5	39.4	47.2	63.0	63.0	78.7	110.2	157.4	283.4	676.9
37.5°	31.5	39.4	47.2	63.0	63.0	78.7	110.2	157.4	346.3	755.7
40°	23.6	31.5	39.4	63.0	63.0	78.7	118.1	165.3	354.2	763.5
42.5°	23.6	31.5	39.4	55.1	63.0	78.7	118.1	165.3	330.6	787.1
45°	23.6	31.5	39.4	63.0	70.8	86.6	118.1	173.2	322.7	897.3
47.5°	23.6	31.5	39.4	63.0	78.7	86.6	118.1	173.2	330.6	1283.0
50°	23.6	31.5	39.4	63.0	86.6	86.6	118.1	173.2	362.1	2062.3
52.5°	15.7	23.6	31.5	55.1	70.8	94.5	125.9	165.3	385.7	2755.0
55°	15.7	15.7	23.6	47.2	63.0	102.3	133.8	165.3	448.7	2928.2
57.5°	15.7	15.7	23.6	39.4	55.1	110.2	141.7	165.3	519.5	2841.6
59°	15.7	15.7	15.7	31.5	47.2	110.2	141.7	173.2	527.4	2692.0
60°	15.7	15.7	15.7	31.5	47.2	110.2	149.6	181.0	535.3	2518.8
62.5°	7.9	7.9	7.9	31.5	39.4	110.2	165.3	220.4	551.0	1944.2
65°	15.7	15.7	7.9	23.6	39.4	94.5	188.9	236.1	558.9	1511.3
67.5°	15.7	15.7	15.7	31.5	39.4	94.5	196.8	244.0	558.9	1196.5
70°	15.7	15.7	15.7	31.5	47.2	94.5	196.8	251.9	551.0	976.1
72.5°	15.7	15.7	15.7	31.5	47.2	86.6	181.0	259.8	527.4	826.5
75°	15.7	15.7	15.7	23.6	39.4	78.7	173.2	283.4	480.2	700.6
77.5°	15.7	15.7	15.7	15.7	31.5	63.0	157.4	314.9	425.1	566.7
80°	23.6	15.7	15.7	15.7	23.6	55.1	149.6	307.0	354.2	370.0
82.5°	23.6	15.7	15.7	7.9	15.7	39.4	118.1	236.1	181.0	165.3
85°	15.7	15.7	15.7	7.9	7.9	23.6	55.1	70.8	55.1	39.4
87.5°	15.7	15.7	15.7	7.9	7.9	7.9	7.9	7.9	7.9	7.9
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

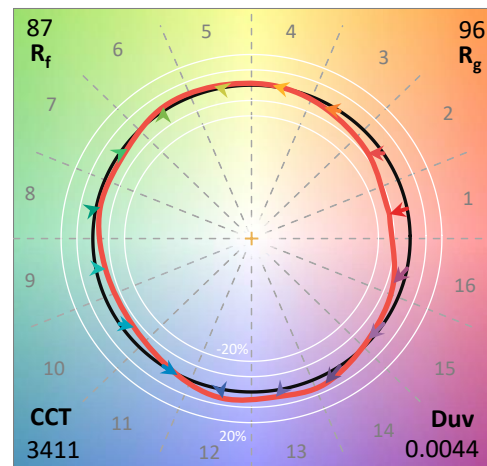
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

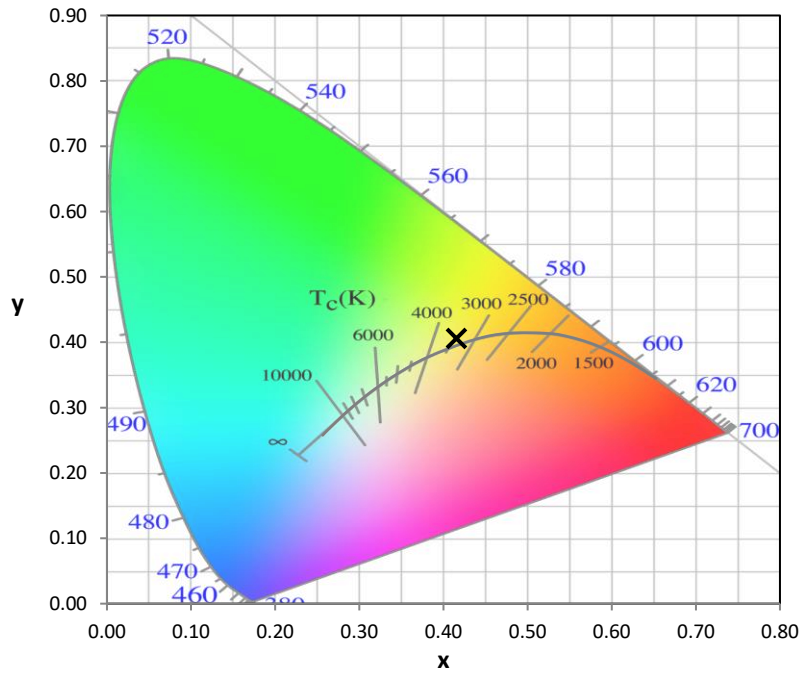
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

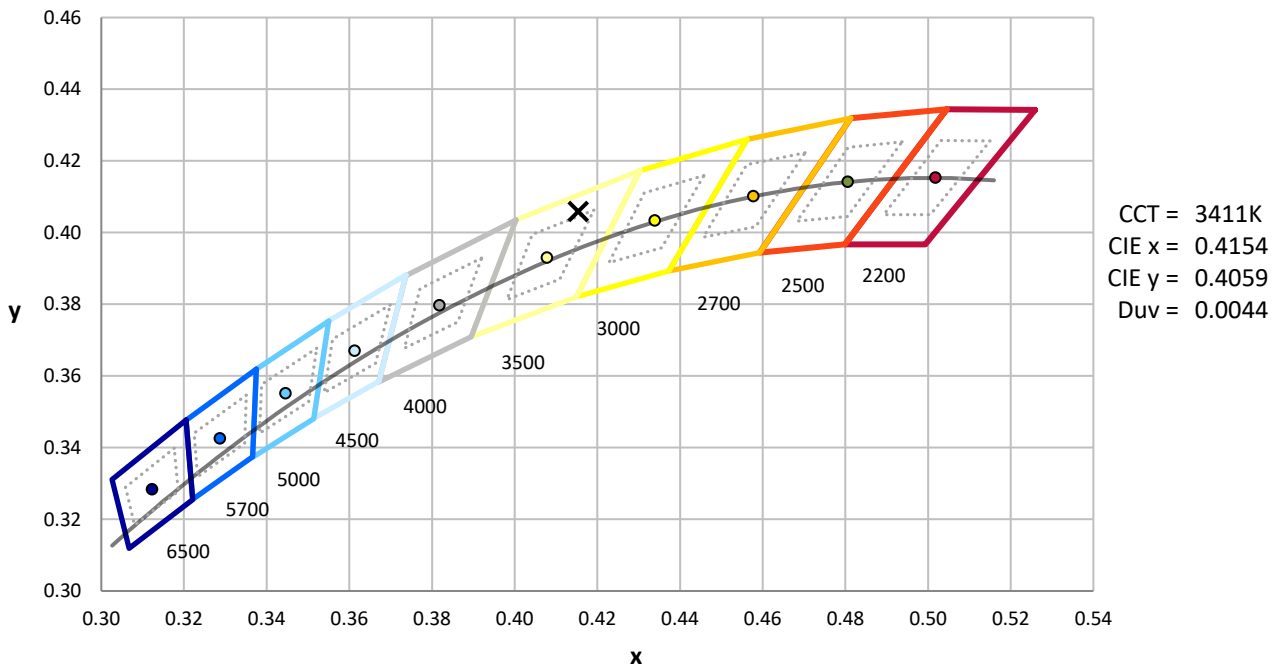
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



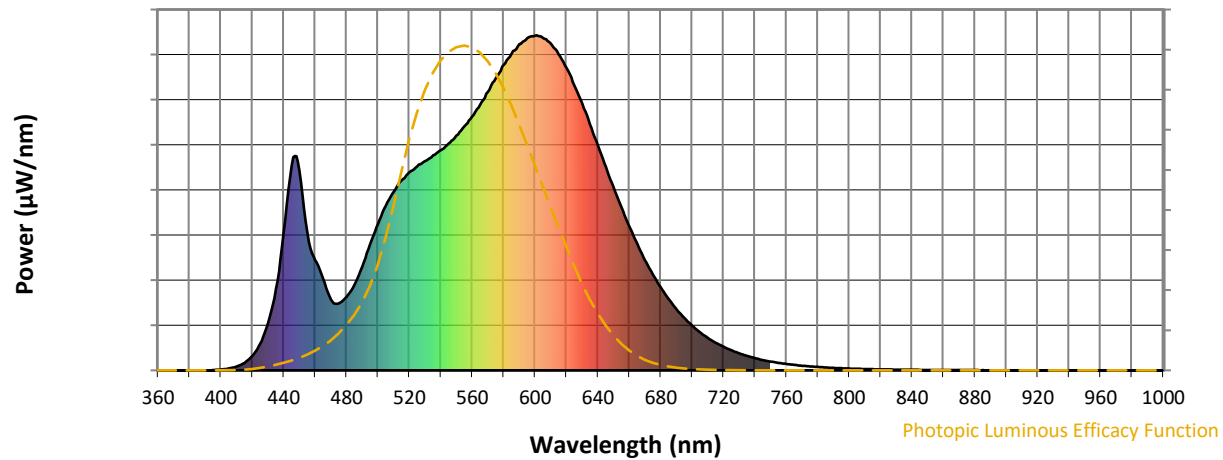
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

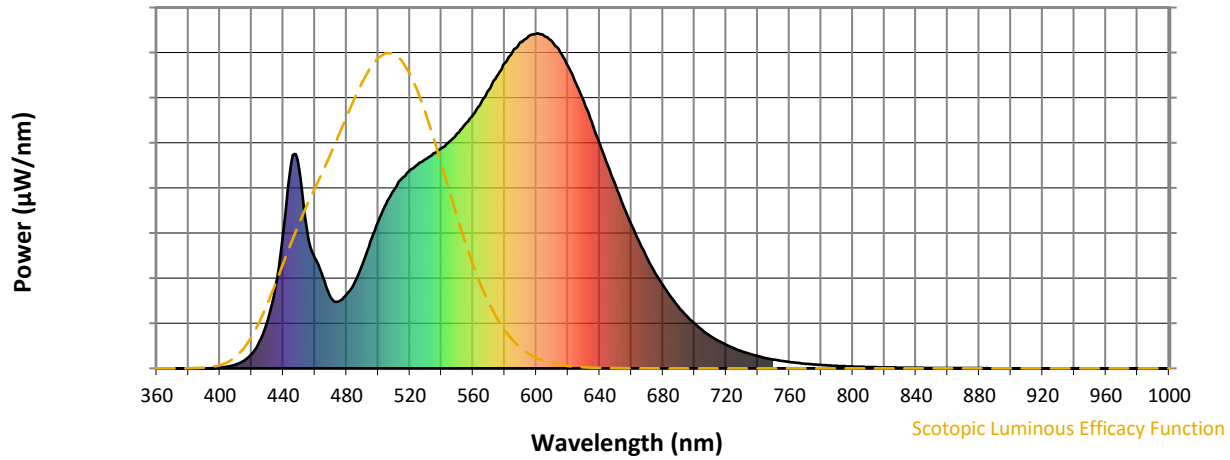


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



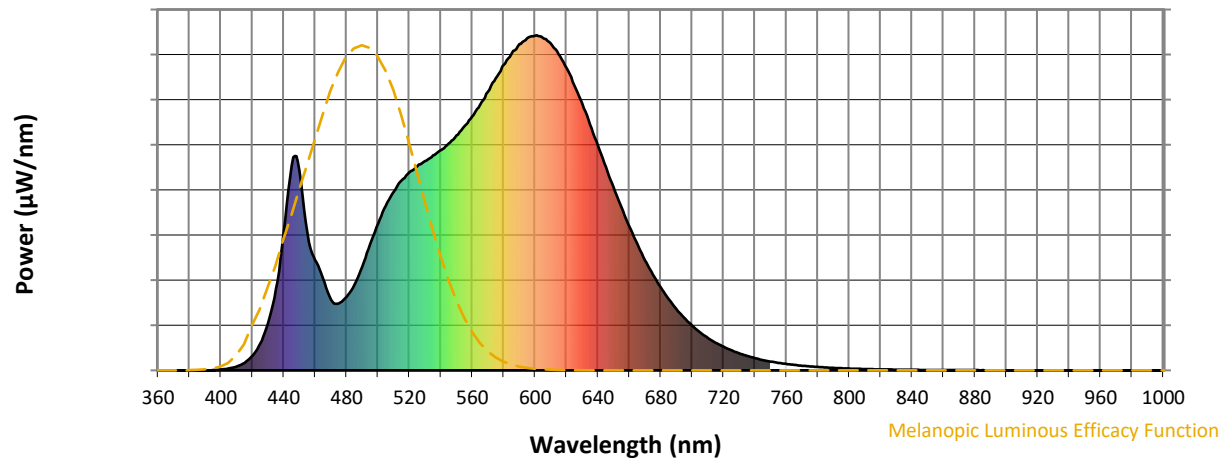
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

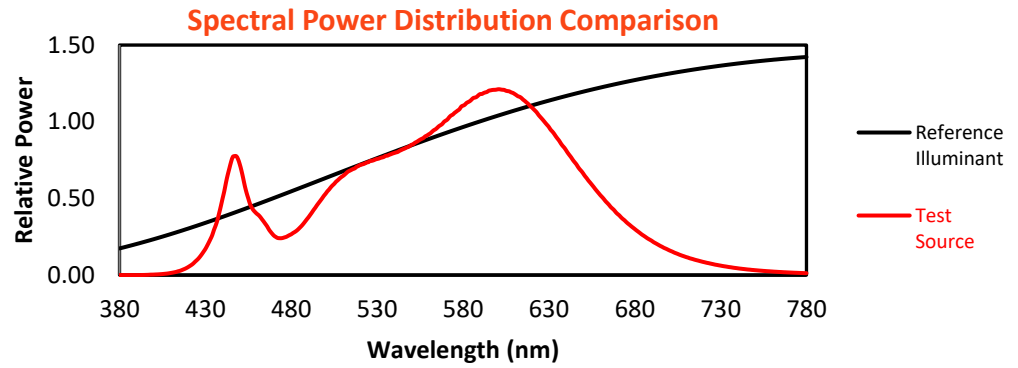
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

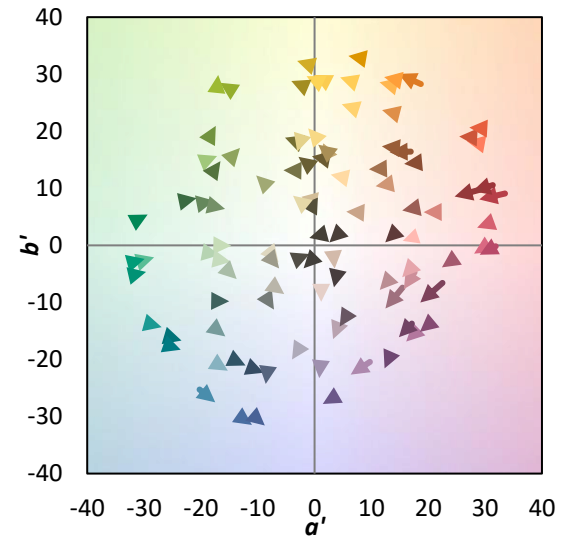
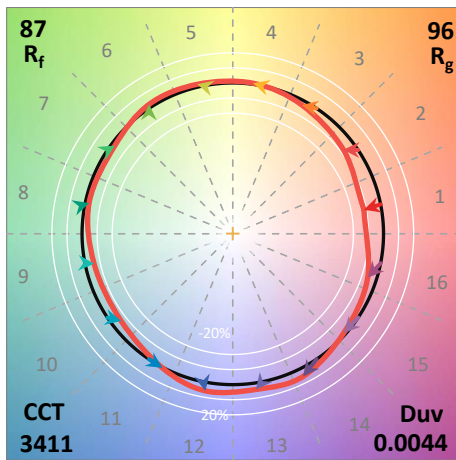
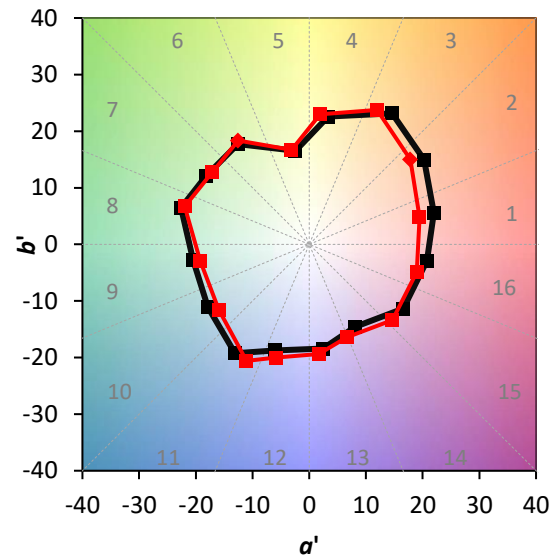
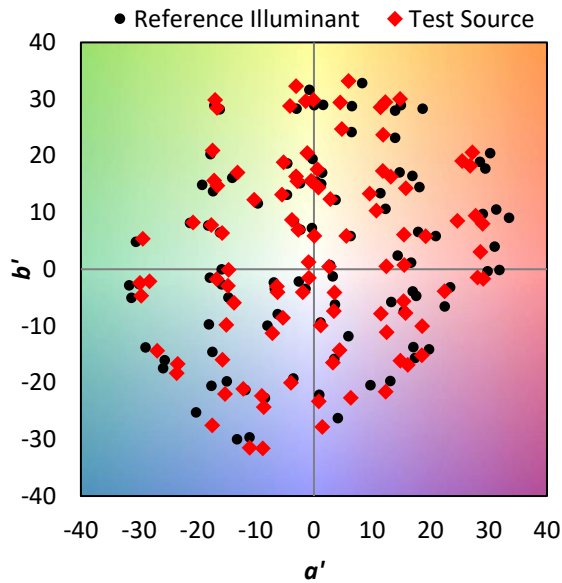
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

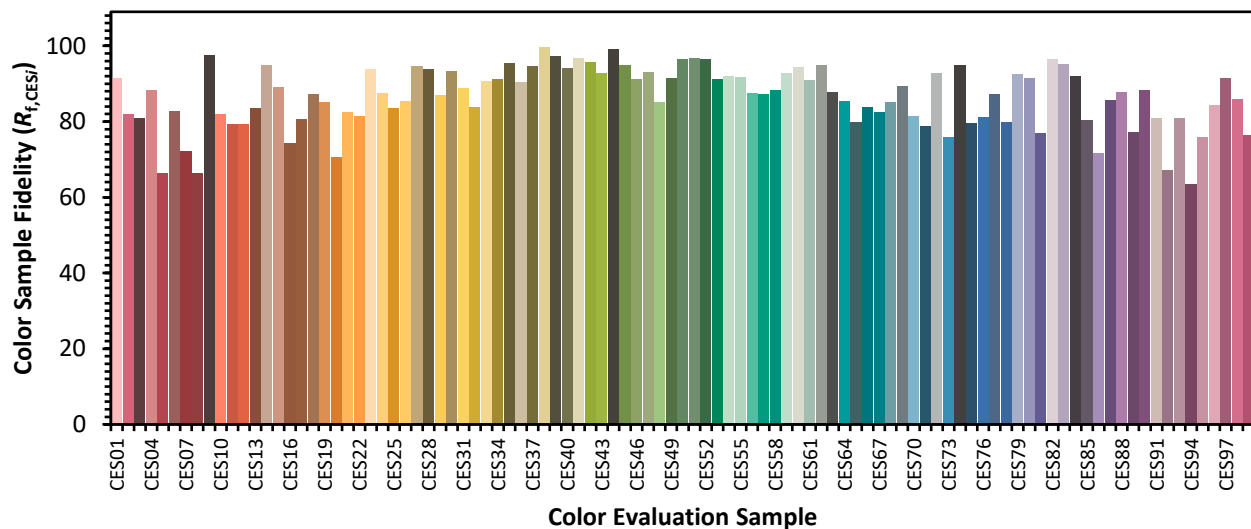


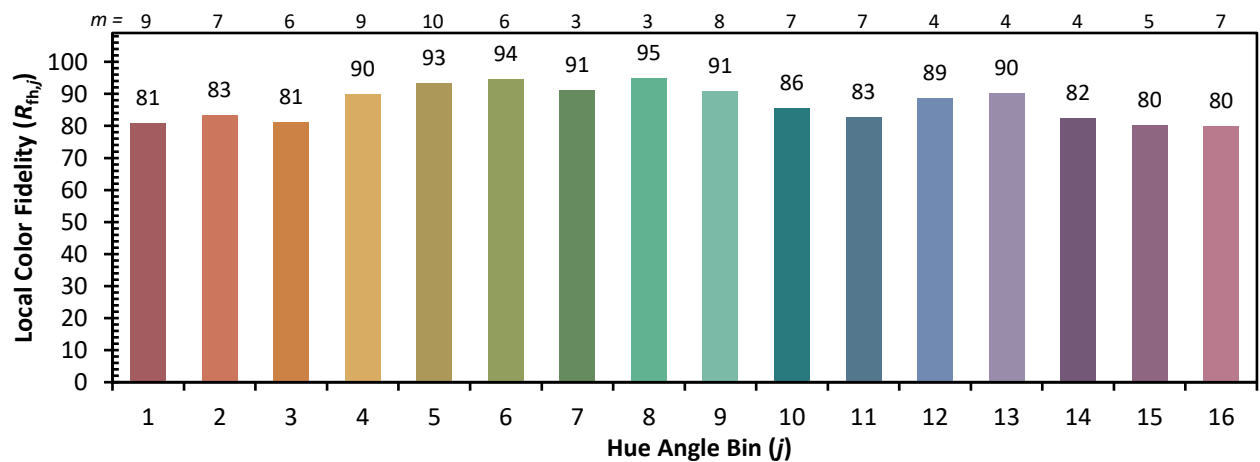
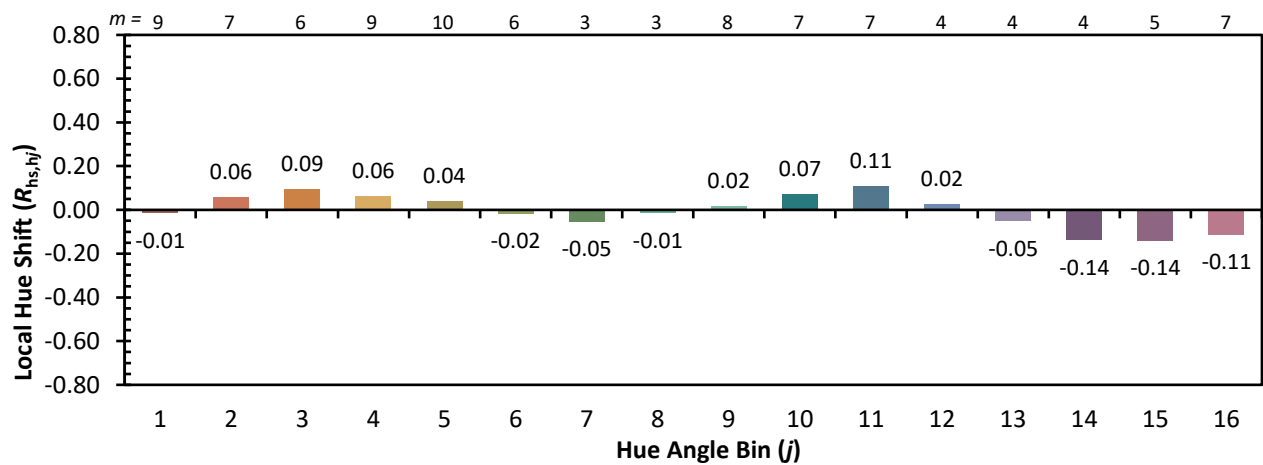
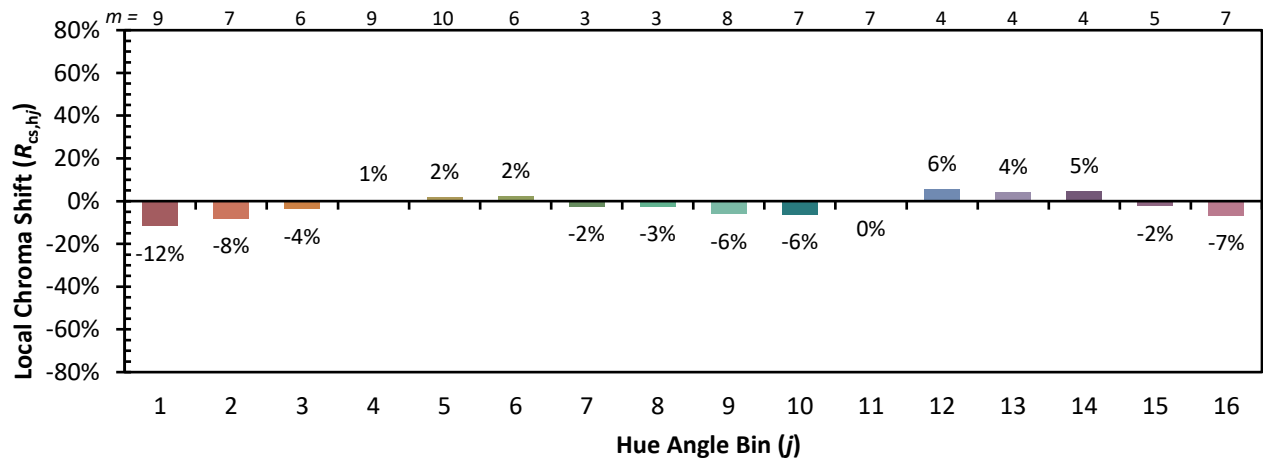
Color Vector Graphics



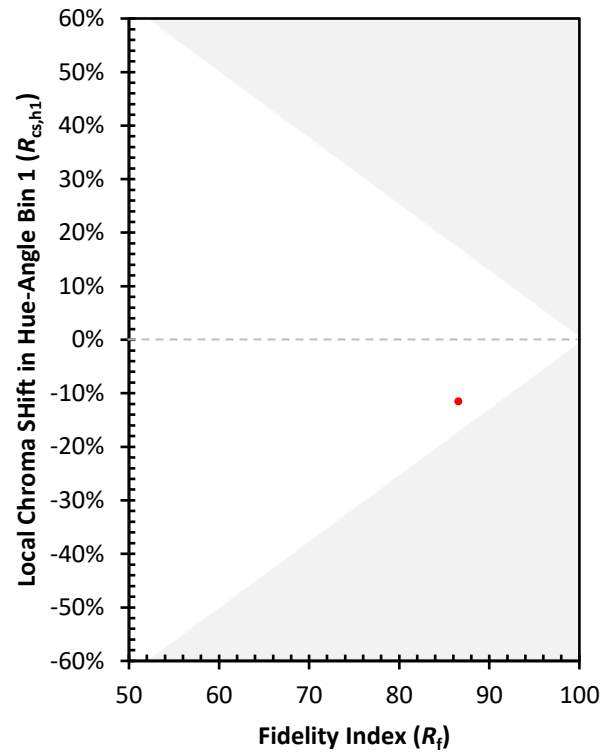
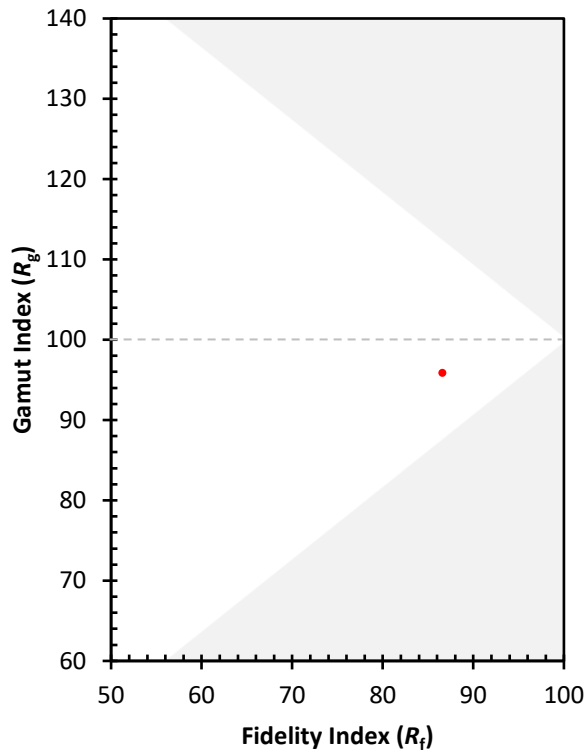
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)