

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: P1068082

Luminaire Tested: **NAV-SA6B-830-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068082
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-830-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18341.3 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 211
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



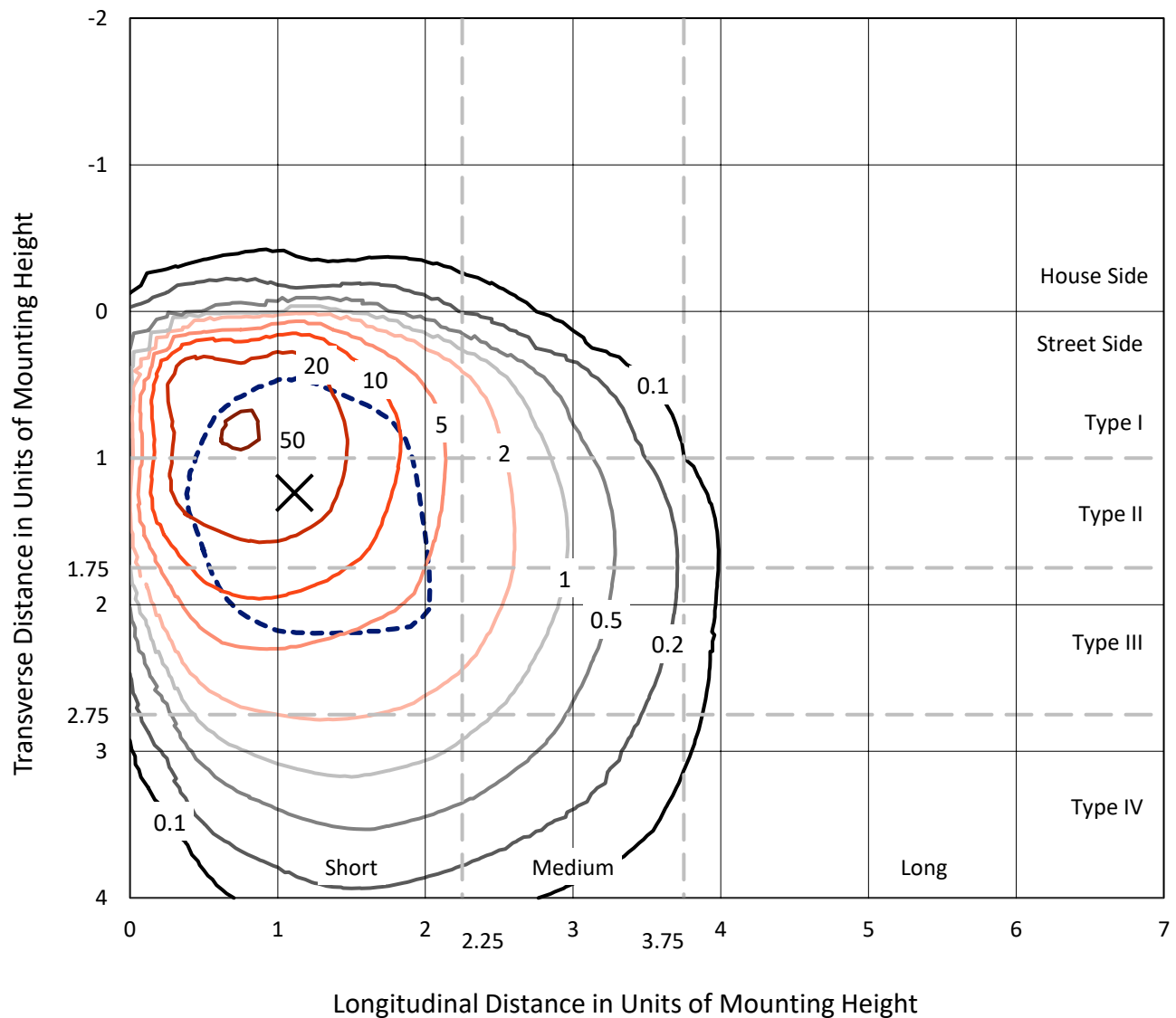
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

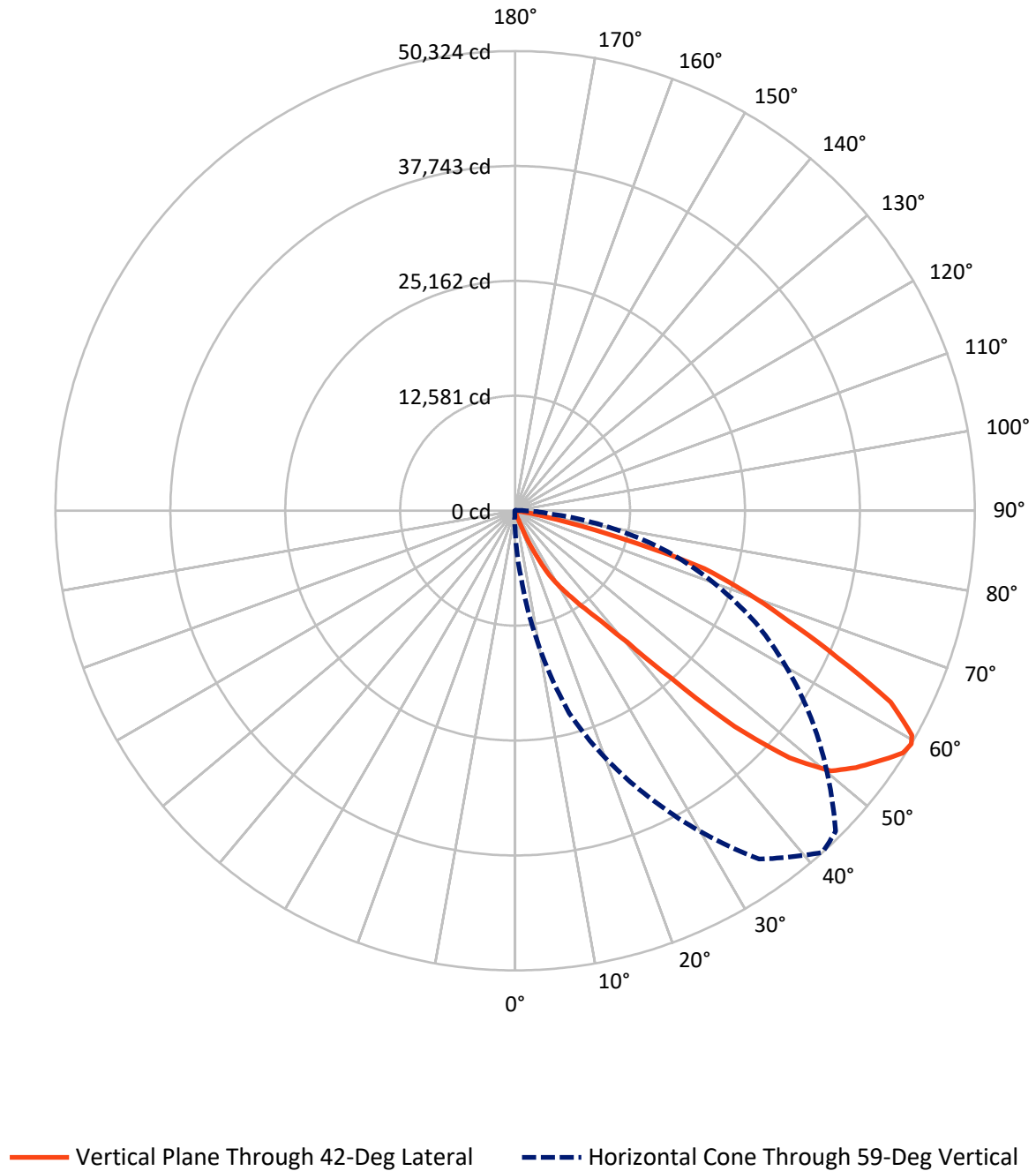


Based on 15 foot mounting height. Maximum calculated value = 54.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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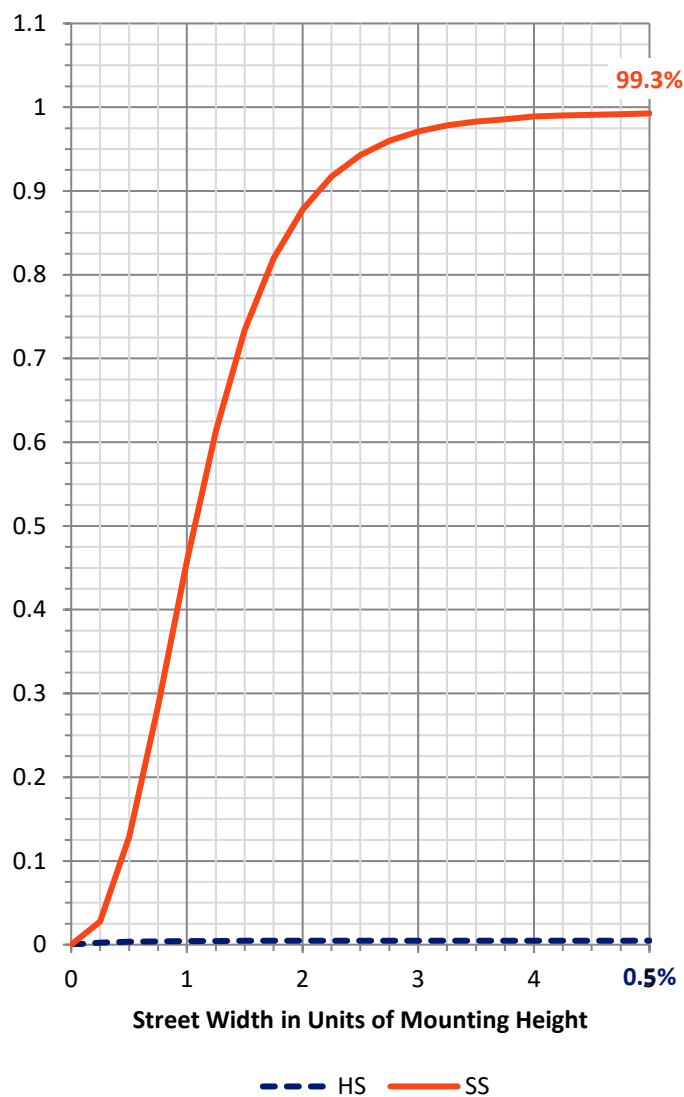
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.4	0.0	88.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	18252.9	0.0	18252.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	18341.3	0.0	18341.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.0
10°-20°	26.7	0.1
20°-30°	342.1	1.9
30°-40°	1153.4	6.3
40°-50°	3483.9	19.0
50°-60°	6149.9	33.5
60°-70°	5415.1	29.5
70°-80°	1723.6	9.4
80°-90°	41.2	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°	18341.3	100.0
0°-180°	18341.3	100.0



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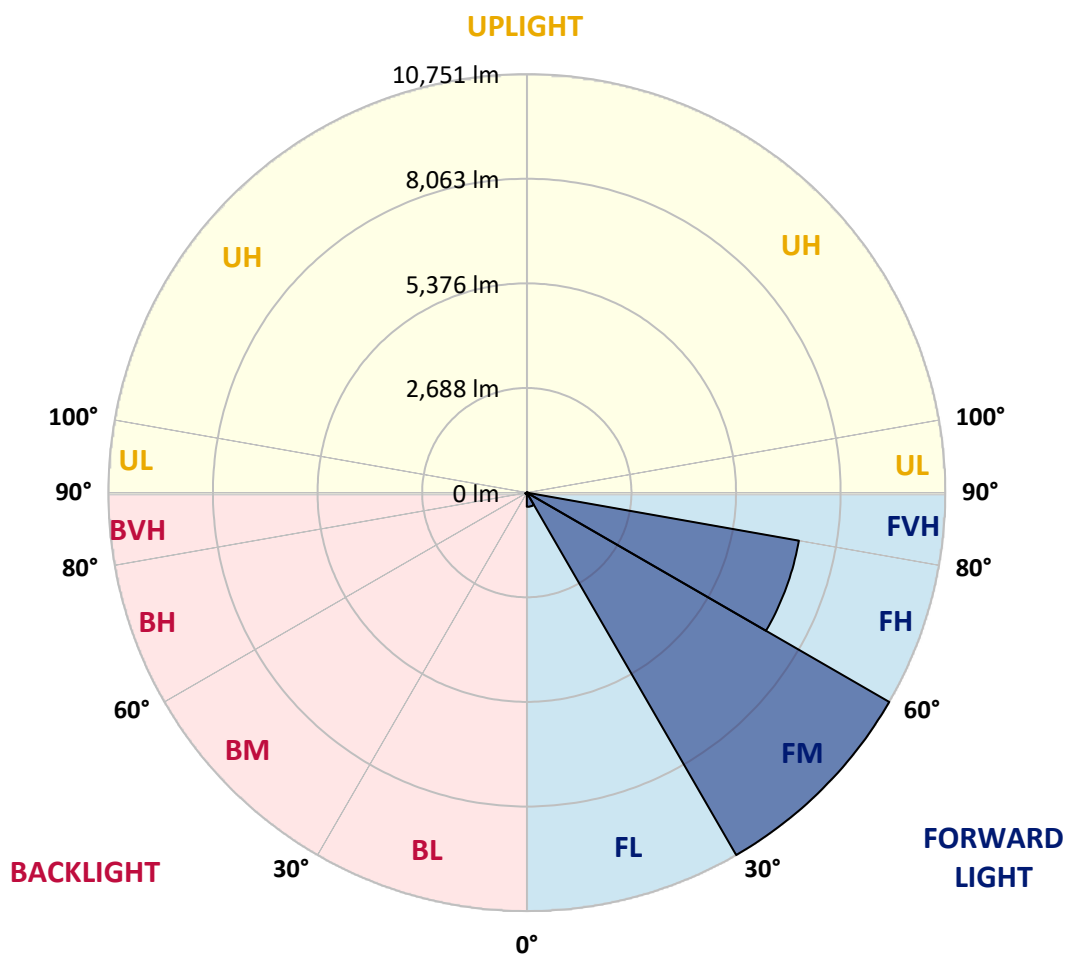
CATALOG NUMBER: NAV-SA6B-830-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.4	2.0			
FM	(30°-60°)	10751.0	58.6			
FH	(60°-80°)	7098.3	38.7			G3/7500
FVH	(80°-90°)	39.3	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	36.1	0.2	B0/220		
BH	(60°-80°)	40.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2.5°	80.5	80.5	74.8	69.0	63.3	57.5	57.5	57.5	51.8	51.8	46.0
5°	92.0	92.0	86.3	80.5	80.5	74.8	74.8	69.0	63.3	63.3	57.5
7.5°	97.8	97.8	97.8	97.8	92.0	92.0	92.0	86.3	80.5	74.8	69.0
10°	103.5	109.3	115.0	115.0	115.0	115.0	115.0	109.3	97.8	92.0	80.5
12.5°	115.0	120.8	132.3	143.8	143.8	149.5	143.8	138.0	126.5	109.3	92.0
15°	126.5	138.0	155.3	178.3	201.3	207.0	207.0	189.8	166.8	132.3	109.3
17.5°	143.8	161.0	207.0	281.8	362.3	425.5	425.5	379.5	264.5	172.5	126.5
20°	155.3	189.8	333.5	678.6	1035.1	1299.6	1247.9	1104.1	592.3	270.3	138.0
22.5°	172.5	241.5	707.3	1782.7	2760.3	3243.3	3128.3	2375.0	1328.4	483.1	166.8
25°	195.5	350.8	1403.1	3341.1	5129.5	5652.8	5578.1	4433.7	2421.0	810.8	212.8
27.5°	241.5	517.6	2248.5	5066.3	7567.8	8016.3	7987.6	6492.4	3870.2	1305.4	276.0
30°	304.8	753.3	3335.3	6883.5	9183.7	9638.0	9494.2	7999.1	5221.5	1995.5	356.5
32.5°	379.5	1052.4	4318.7	8223.4	10673.1	11271.2	11098.7	9310.2	6308.4	2582.0	529.1
35°	494.6	1345.6	5290.6	9408.0	12392.5	13151.6	12864.1	10661.6	7245.8	3243.3	638.3
37.5°	552.1	1518.2	6181.9	10696.1	14324.8	15359.9	15141.3	12369.5	8200.4	4088.7	782.1
40°	557.8	1725.2	7107.7	12375.3	17056.3	18902.2	18511.2	15302.4	9977.3	5175.5	1006.4
42.5°	575.1	2035.7	8309.6	15239.1	22421.6	25072.6	24629.8	20696.4	14008.5	7355.0	1426.1
45°	655.6	2622.3	10759.4	20592.9	29788.1	33675.5	33163.7	28212.5	19638.3	11455.2	2432.5
47.5°	937.3	3944.9	15055.1	26372.3	37321.4	40421.0	40294.5	34135.6	24739.1	15658.9	4123.2
50°	1506.7	6055.4	19943.1	31231.5	42117.4	44779.9	44463.7	36608.3	27648.9	18528.4	5284.8
52.5°	2012.7	8073.8	23013.9	33020.0	43549.3	46723.6	46338.4	37511.2	28413.7	19373.8	5606.8
55°	2139.2	8804.2	23928.3	33572.0	44498.2	48368.3	47810.5	38115.0	28511.5	18770.0	5072.0
57.5°	2076.0	8114.1	23335.9	34112.6	45820.8	50059.0	49317.2	39293.9	28839.3	17746.4	4220.9
59°	1966.7	7263.0	22967.9	34543.9	46551.1	50323.5	49627.7	39552.6	29057.8	17280.6	3703.4
60°	1840.2	6688.0	22680.4	34825.6	46505.1	49909.5	49190.7	39431.9	29144.1	16878.0	3456.1
62.5°	1420.4	5336.6	22266.3	34624.4	43601.1	46131.3	45723.0	36476.1	27878.9	15589.9	2725.8
65°	1104.1	4082.9	20748.2	30880.7	37102.9	38805.1	38678.6	30886.5	23462.5	13439.2	1966.7
67.5°	874.1	2978.8	17545.1	25009.4	29851.4	32272.4	32180.4	25072.6	17809.6	10270.6	1414.6
70°	713.1	2122.0	12030.3	18856.2	23876.5	26924.3	26792.1	20178.9	13197.6	6515.4	1029.4
72.5°	603.8	1357.1	7297.5	14215.5	19925.8	21668.3	21283.0	16280.0	9597.8	3548.1	816.6
75°	511.8	833.8	3617.1	8861.7	11869.2	11857.7	11472.5	8620.2	5152.5	1736.7	649.8
77.5°	414.0	586.6	1420.4	2432.5	3743.6	4635.0	4560.2	3053.6	1541.2	506.1	402.5
80°	270.3	276.0	379.5	667.1	1029.4	1138.6	1293.9	931.6	448.5	241.5	166.8
82.5°	120.8	132.3	172.5	218.5	218.5	201.3	178.3	132.3	97.8	80.5	40.3
85°	28.8	40.3	28.8	34.5	28.8	23.0	23.0	11.5	0.0	0.0	0.0
87.5°	5.8	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°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2.5°	46.0	46.0	46.0	40.3	40.3	40.3	34.5	34.5	34.5	28.8	28.8
5°	57.5	51.8	46.0	46.0	40.3	40.3	34.5	28.8	28.8	28.8	23.0
7.5°	63.3	57.5	51.8	46.0	40.3	34.5	34.5	28.8	23.0	23.0	23.0
10°	74.8	69.0	57.5	46.0	40.3	34.5	28.8	28.8	23.0	17.3	17.3
12.5°	86.3	74.8	63.3	51.8	40.3	34.5	28.8	28.8	23.0	17.3	11.5
15°	97.8	86.3	69.0	51.8	40.3	34.5	28.8	28.8	17.3	11.5	5.8
17.5°	109.3	92.0	69.0	57.5	40.3	34.5	28.8	23.0	11.5	5.8	0.0
20°	115.0	97.8	74.8	57.5	40.3	34.5	28.8	17.3	5.8	0.0	0.0
22.5°	126.5	109.3	80.5	57.5	40.3	28.8	17.3	5.8	0.0	0.0	0.0
25°	149.5	115.0	80.5	57.5	40.3	28.8	11.5	0.0	0.0	0.0	0.0
27.5°	166.8	126.5	80.5	57.5	40.3	23.0	5.8	0.0	0.0	0.0	0.0
30°	195.5	138.0	86.3	57.5	40.3	17.3	5.8	0.0	0.0	0.0	0.0
32.5°	241.5	149.5	86.3	57.5	34.5	17.3	0.0	0.0	0.0	0.0	0.0
35°	293.3	172.5	86.3	57.5	34.5	17.3	0.0	0.0	0.0	0.0	0.0
37.5°	299.0	184.0	86.3	57.5	34.5	11.5	0.0	0.0	0.0	0.0	0.0
40°	310.5	172.5	92.0	57.5	34.5	11.5	0.0	0.0	0.0	0.0	0.0
42.5°	356.5	161.0	97.8	57.5	34.5	11.5	0.0	0.0	0.0	0.0	0.0
45°	529.1	166.8	97.8	63.3	34.5	17.3	0.0	0.0	0.0	0.0	0.0
47.5°	920.1	172.5	92.0	63.3	34.5	17.3	0.0	0.0	0.0	0.0	0.0
50°	1178.9	201.3	92.0	69.0	40.3	11.5	0.0	0.0	0.0	0.0	0.0
52.5°	1253.6	235.8	92.0	74.8	51.8	5.8	0.0	0.0	0.0	0.0	0.0
55°	1219.1	276.0	97.8	80.5	63.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1127.1	299.0	103.5	86.3	69.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	1029.4	316.3	120.8	92.0	69.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	948.8	333.5	126.5	97.8	69.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	764.8	356.5	138.0	115.0	57.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	667.1	373.8	143.8	126.5	51.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	609.6	385.3	155.3	132.3	46.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	563.6	379.5	166.8	126.5	40.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	511.8	362.3	201.3	115.0	34.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	460.0	327.8	218.5	103.5	23.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	333.5	276.0	201.3	92.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	143.8	149.5	143.8	69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	34.5	28.8	17.3	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°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2.5°	28.8	28.8	28.8	28.8	34.5	34.5	46.0	57.5	69.0	74.8	74.8
5°	23.0	23.0	23.0	23.0	23.0	28.8	34.5	46.0	63.3	69.0	69.0
7.5°	17.3	17.3	17.3	17.3	17.3	17.3	28.8	40.3	57.5	63.3	69.0
10°	17.3	11.5	11.5	5.8	5.8	11.5	17.3	34.5	51.8	57.5	63.3
12.5°	11.5	5.8	5.8	0.0	0.0	5.8	11.5	28.8	46.0	51.8	57.5
15°	5.8	0.0	0.0	0.0	0.0	0.0	5.8	23.0	40.3	46.0	57.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	34.5	46.0	51.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	28.8	40.3	46.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	23.0	34.5	40.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	23.0	28.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	17.3	23.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	17.3	23.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5	17.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5	17.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5	11.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
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°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2.5°	80.5	80.5	74.8	69.0	69.0	69.0	74.8	80.5	80.5	80.5
5°	74.8	74.8	69.0	69.0	69.0	69.0	74.8	86.3	92.0	92.0
7.5°	74.8	74.8	69.0	69.0	69.0	69.0	74.8	86.3	92.0	97.8
10°	69.0	69.0	69.0	69.0	63.3	69.0	74.8	86.3	103.5	103.5
12.5°	69.0	69.0	69.0	69.0	63.3	69.0	80.5	92.0	109.3	115.0
15°	69.0	69.0	69.0	63.3	63.3	69.0	80.5	97.8	115.0	126.5
17.5°	63.3	69.0	69.0	63.3	63.3	69.0	80.5	97.8	126.5	143.8
20°	57.5	63.3	69.0	63.3	63.3	63.3	80.5	97.8	132.3	155.3
22.5°	51.8	57.5	63.3	63.3	57.5	63.3	80.5	103.5	143.8	172.5
25°	46.0	51.8	51.8	57.5	57.5	63.3	80.5	103.5	149.5	195.5
27.5°	34.5	40.3	46.0	51.8	51.8	63.3	80.5	109.3	161.0	241.5
30°	28.8	34.5	40.3	46.0	51.8	63.3	80.5	109.3	172.5	304.8
32.5°	28.8	34.5	40.3	46.0	51.8	57.5	80.5	115.0	189.8	379.5
35°	23.0	28.8	34.5	46.0	46.0	57.5	80.5	115.0	207.0	494.6
37.5°	23.0	28.8	34.5	46.0	46.0	57.5	80.5	115.0	253.0	552.1
40°	17.3	23.0	28.8	46.0	46.0	57.5	86.3	120.8	258.8	557.8
42.5°	17.3	23.0	28.8	40.3	46.0	57.5	86.3	120.8	241.5	575.1
45°	17.3	23.0	28.8	46.0	51.8	63.3	86.3	126.5	235.8	655.6
47.5°	17.3	23.0	28.8	46.0	57.5	63.3	86.3	126.5	241.5	937.3
50°	17.3	23.0	28.8	46.0	63.3	63.3	86.3	126.5	264.5	1506.7
52.5°	11.5	17.3	23.0	40.3	51.8	69.0	92.0	120.8	281.8	2012.7
55°	11.5	11.5	17.3	34.5	46.0	74.8	97.8	120.8	327.8	2139.2
57.5°	11.5	11.5	17.3	28.8	40.3	80.5	103.5	120.8	379.5	2076.0
59°	11.5	11.5	11.5	28.8	34.5	80.5	103.5	126.5	385.3	1966.7
60°	11.5	11.5	11.5	23.0	34.5	80.5	109.3	132.3	391.0	1840.2
62.5°	5.8	5.8	5.8	23.0	28.8	80.5	120.8	161.0	402.5	1420.4
65°	11.5	11.5	5.8	17.3	28.8	69.0	138.0	172.5	408.3	1104.1
67.5°	11.5	11.5	11.5	23.0	28.8	69.0	143.8	178.3	408.3	874.1
70°	11.5	11.5	11.5	23.0	34.5	69.0	143.8	184.0	402.5	713.1
72.5°	11.5	11.5	11.5	23.0	34.5	63.3	132.3	189.8	385.3	603.8
75°	11.5	11.5	11.5	17.3	28.8	57.5	126.5	207.0	350.8	511.8
77.5°	11.5	11.5	11.5	11.5	23.0	46.0	115.0	230.0	310.5	414.0
80°	17.3	11.5	11.5	11.5	17.3	40.3	109.3	224.3	258.8	270.3
82.5°	17.3	11.5	11.5	5.8	11.5	28.8	86.3	172.5	132.3	120.8
85°	11.5	11.5	11.5	5.8	5.8	17.3	40.3	51.8	40.3	28.8
87.5°	11.5	11.5	11.5	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

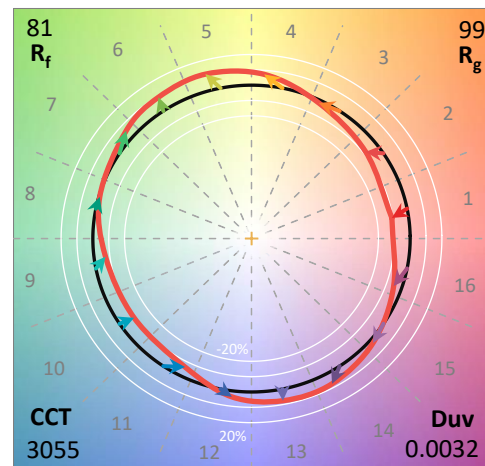
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

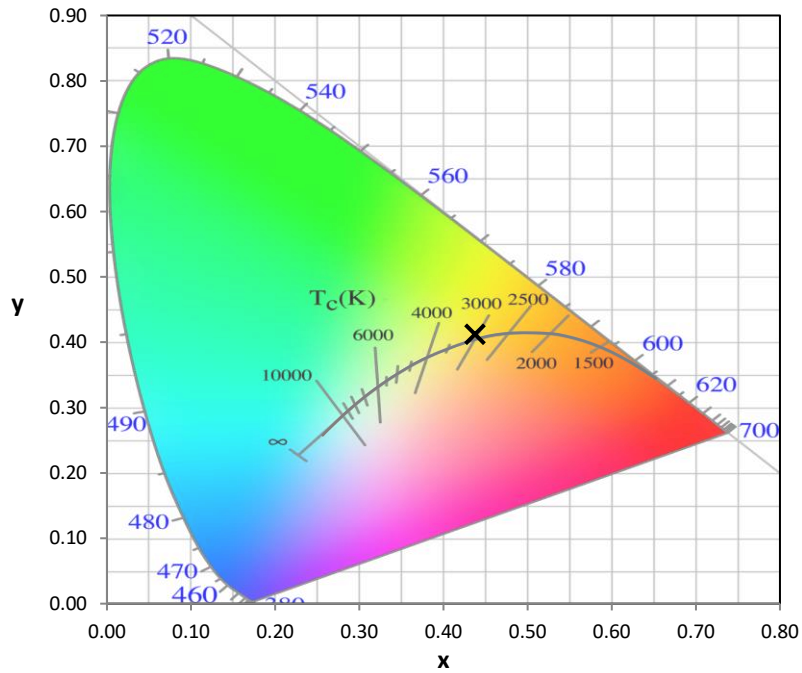
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

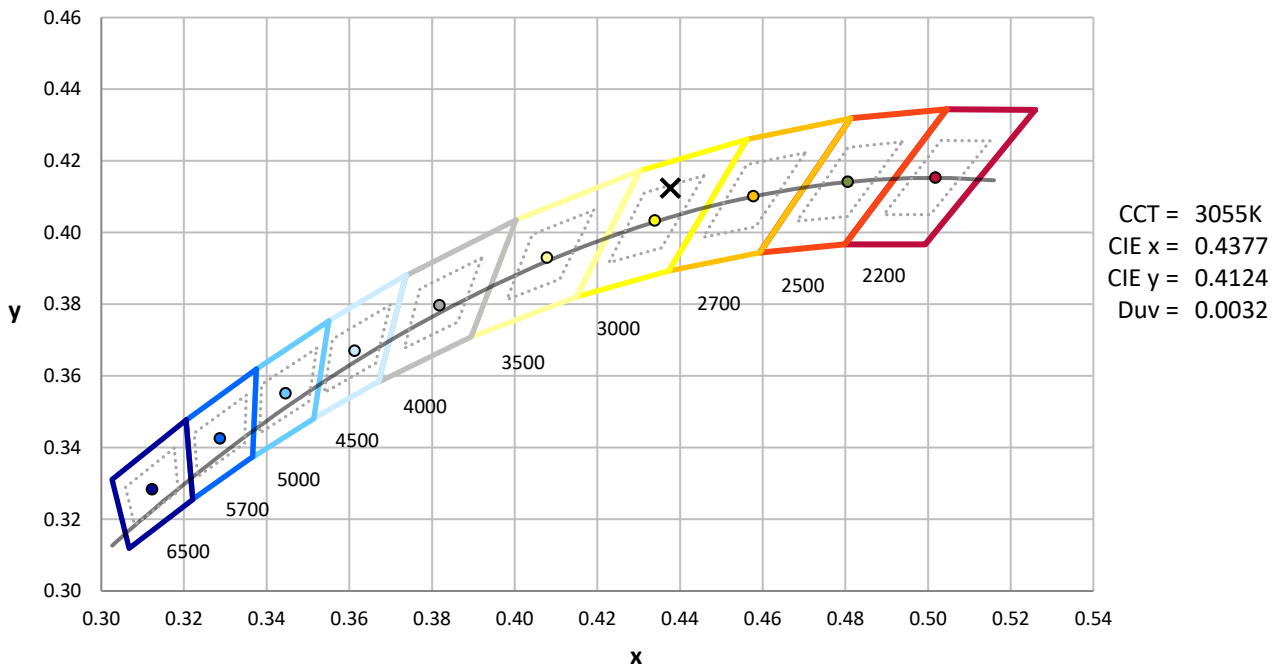
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



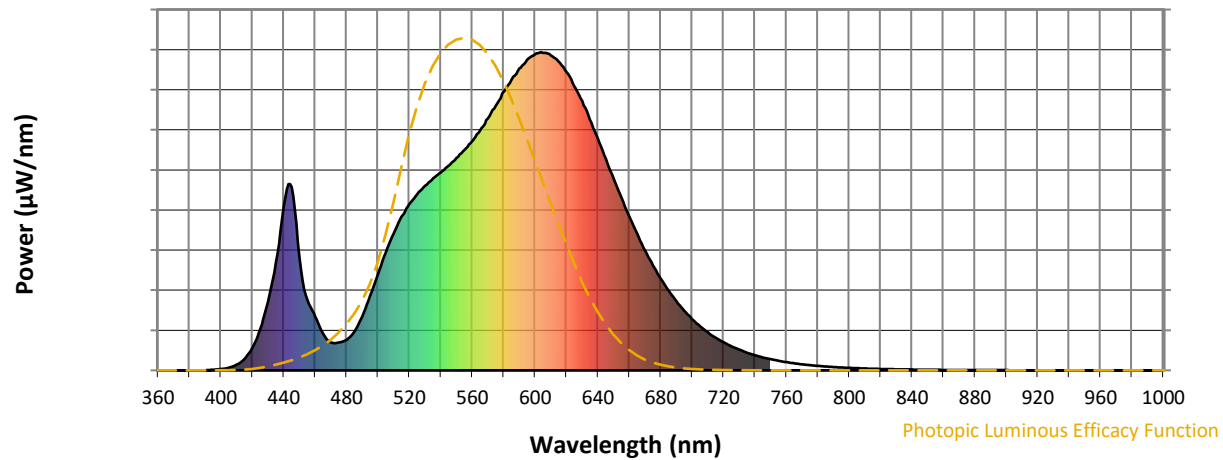
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

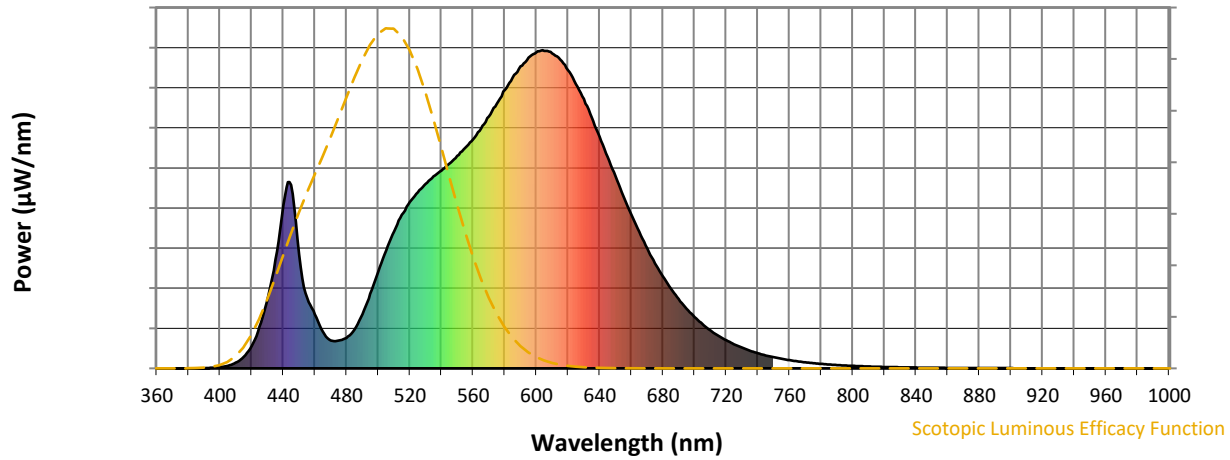


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



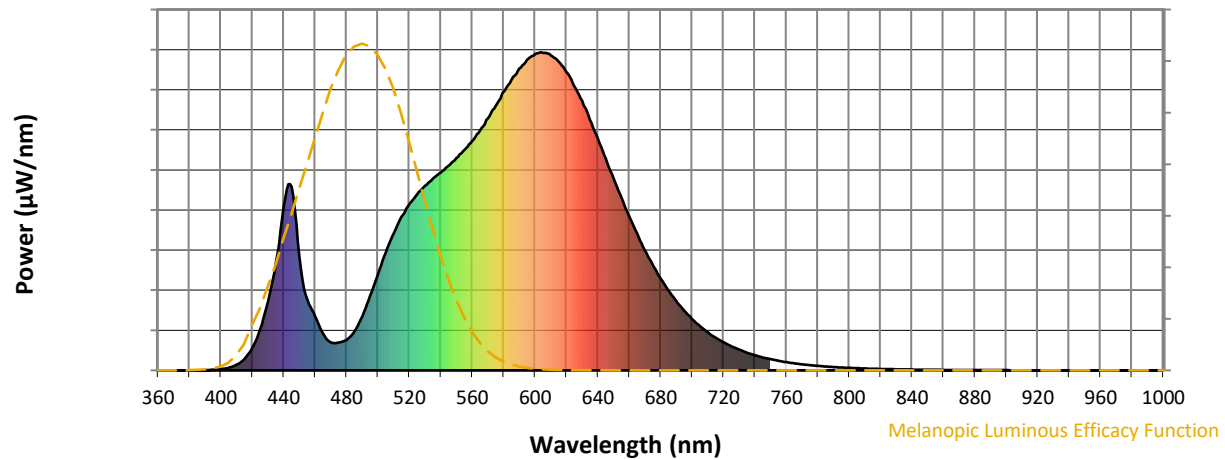
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

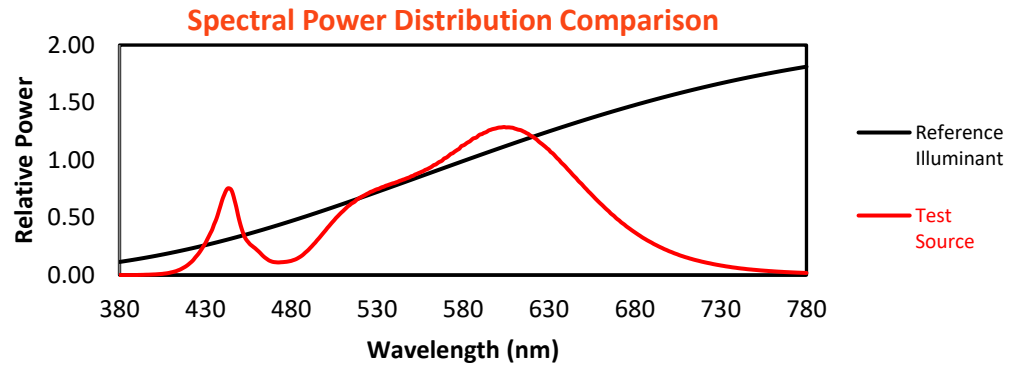
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

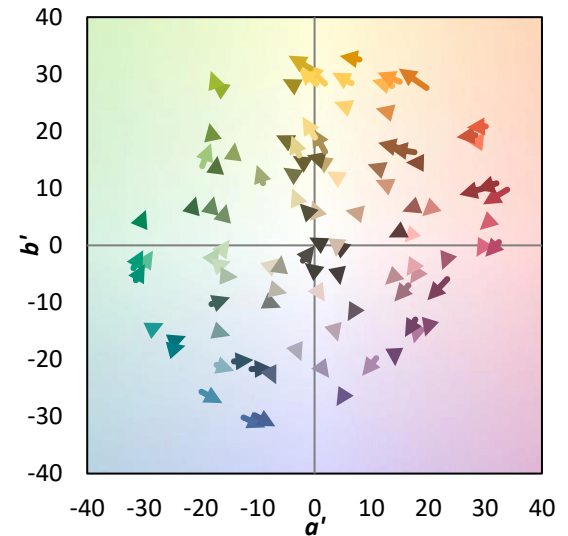
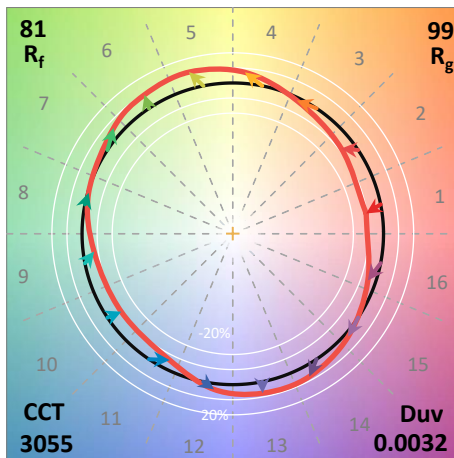
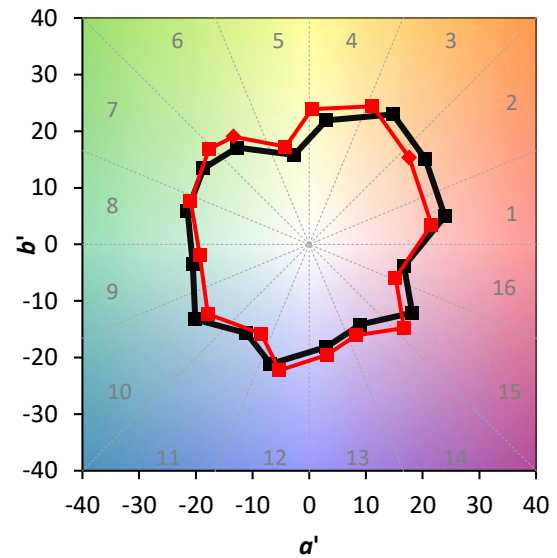
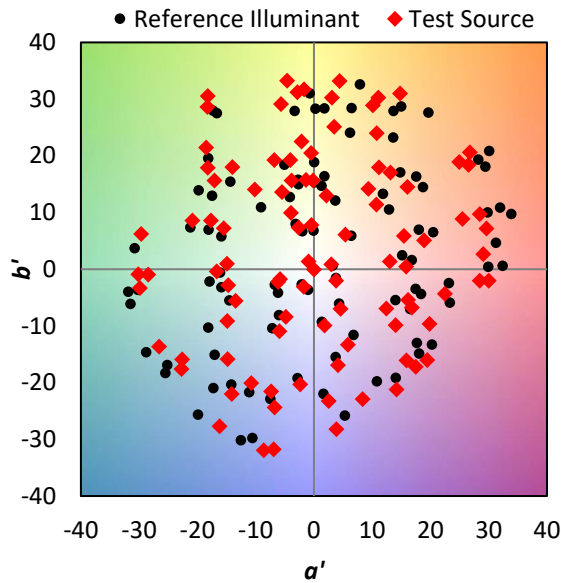
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_g = 6.8$

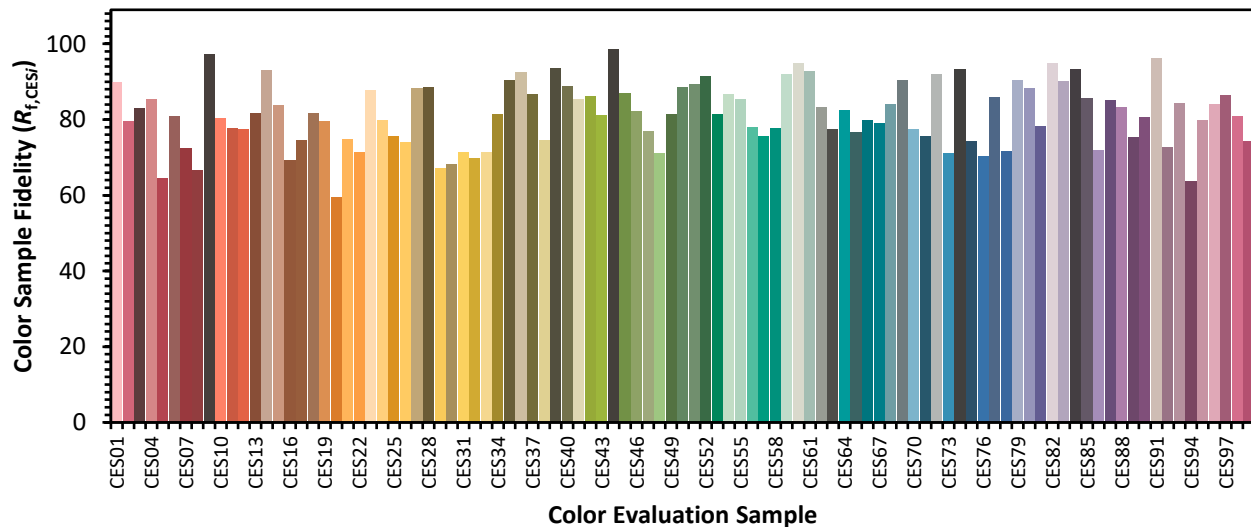


Color Vector Graphics

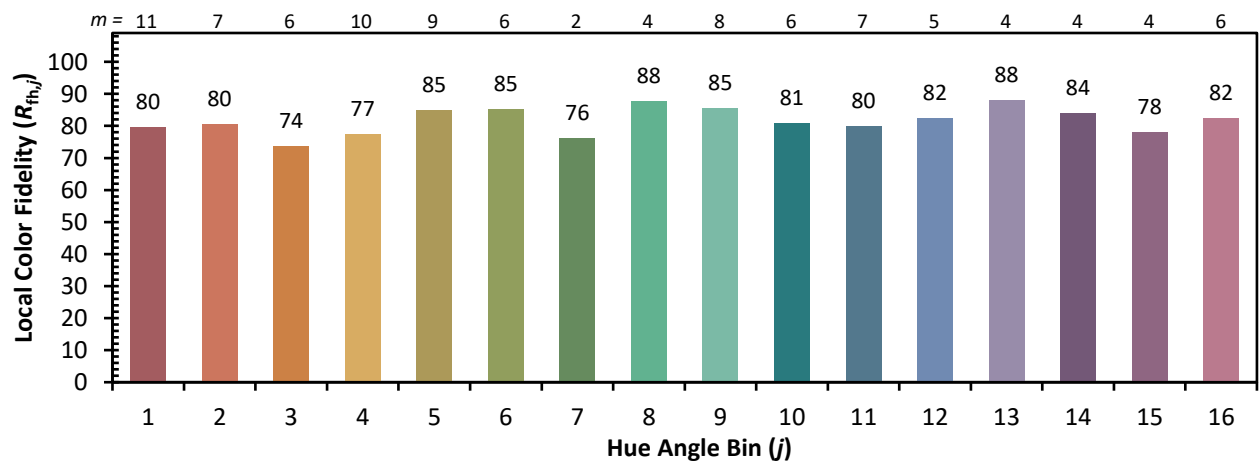
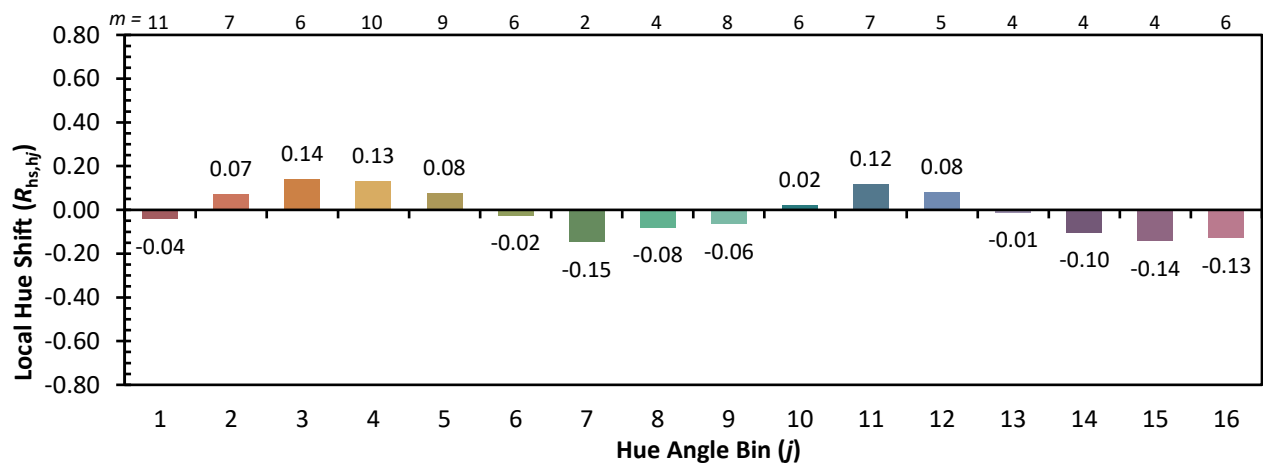
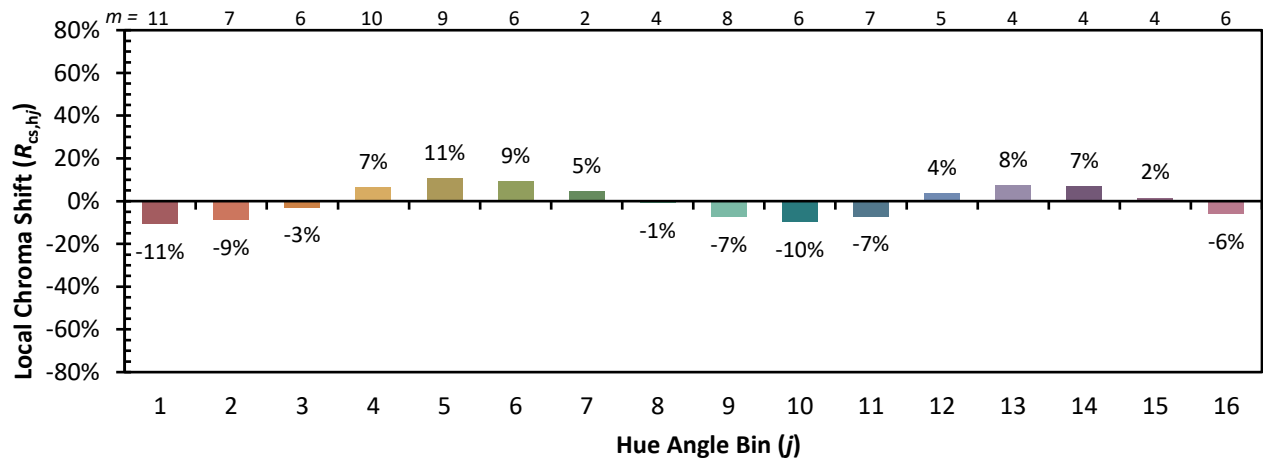


Individual Sample Fidelity Index ($R_{f,i}$)

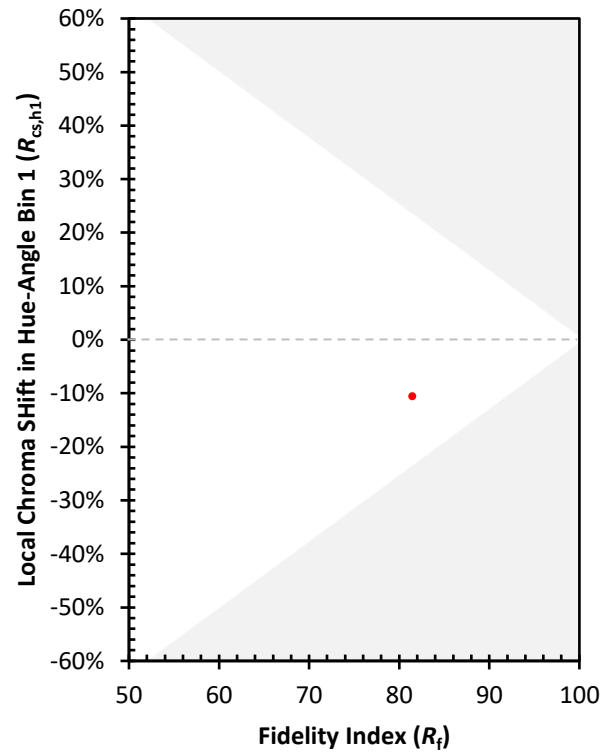
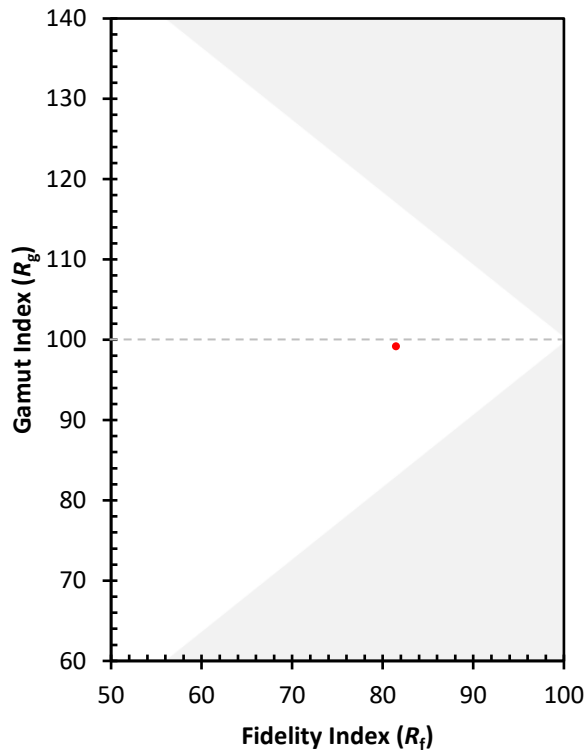
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)