

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: P1067889

Luminaire Tested: **NAV-SA6A-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067889
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18458 lumens
Efficiency: N/A
Efficacy: 114.2 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): 161.6
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

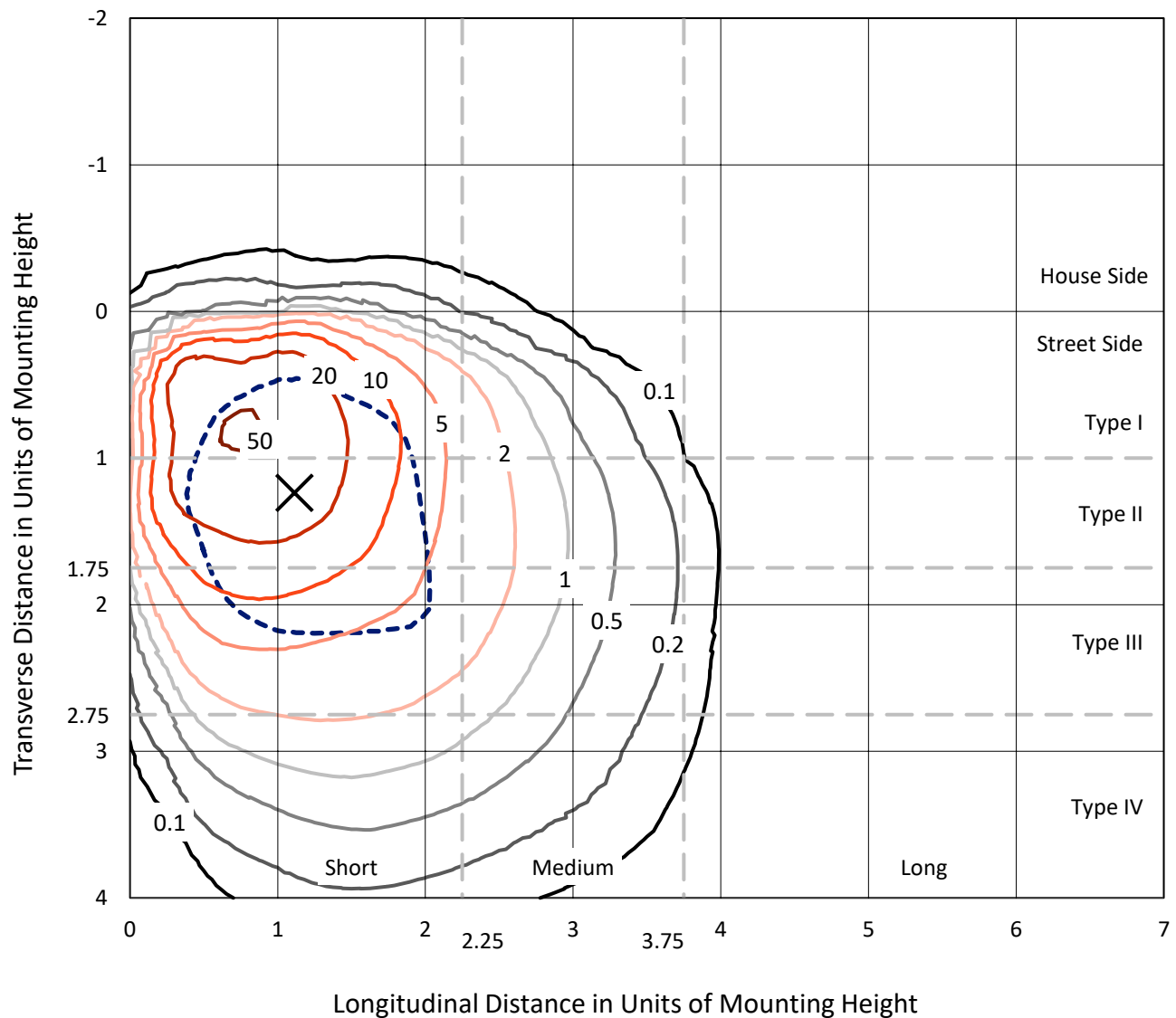


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

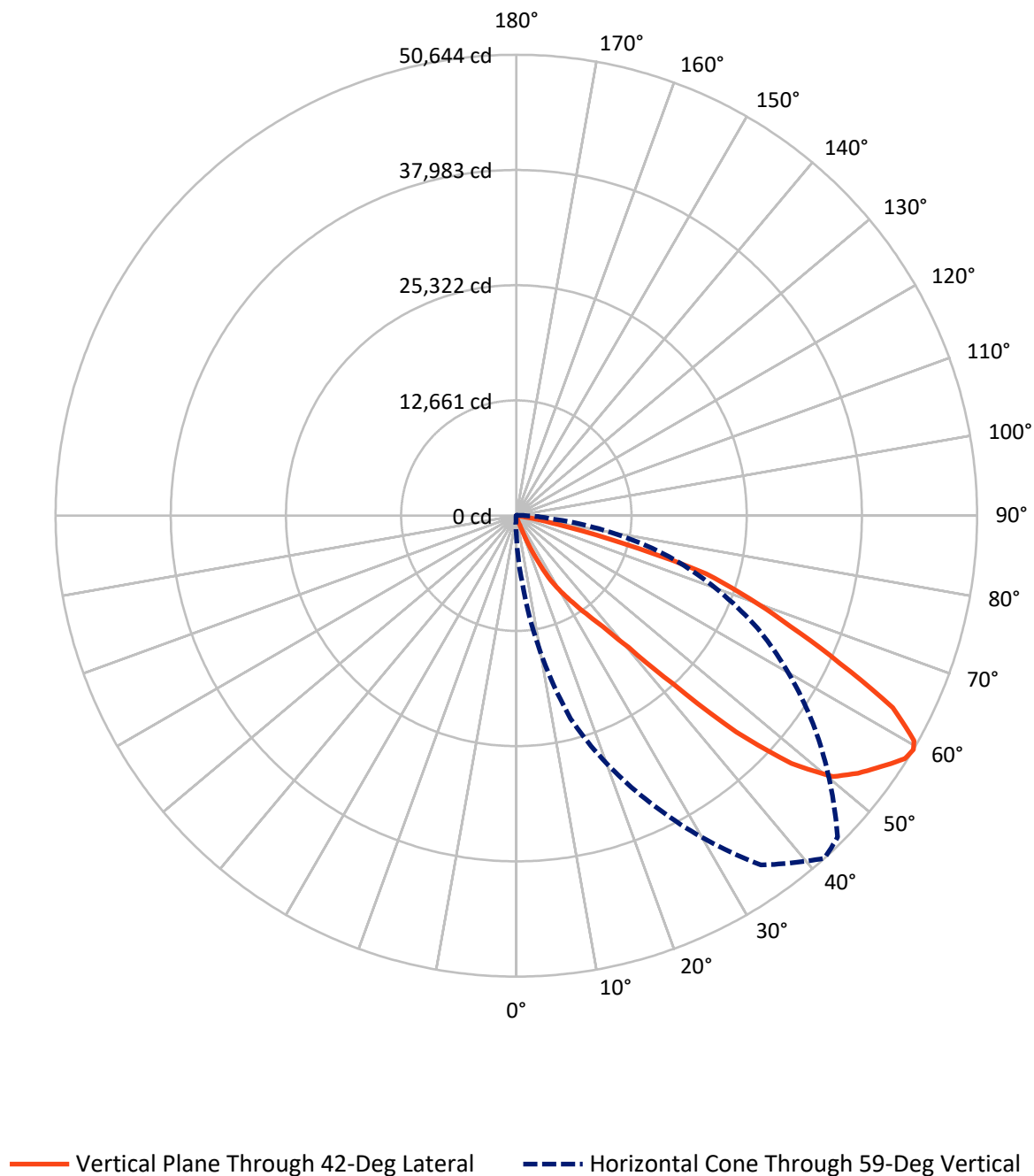


Based on 15 foot mounting height. Maximum calculated value = 54.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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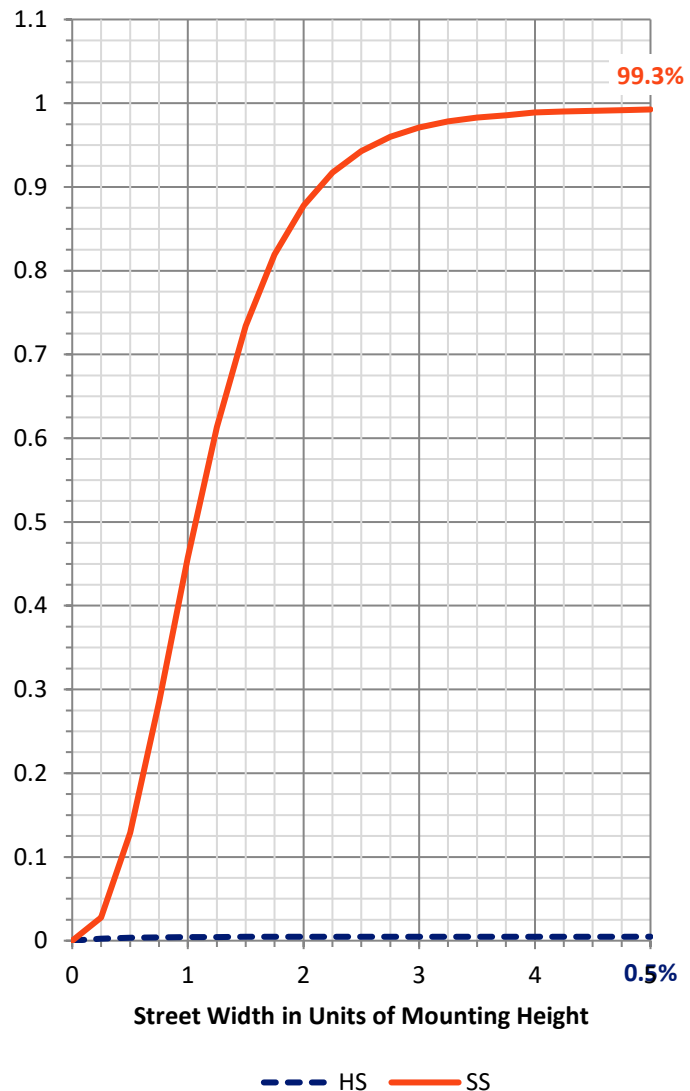
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.9	0.0	88.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	18369.0	0.0	18369.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	18458.0	0.0	18458.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.0
10°-20°	26.9	0.1
20°-30°	344.3	1.9
30°-40°	1160.8	6.3
40°-50°	3506.0	19.0
50°-60°	6189.0	33.5
60°-70°	5449.5	29.5
70°-80°	1734.6	9.4
80°-90°	41.5	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°	18458.0	100.0
0°-180°	18458.0	100.0



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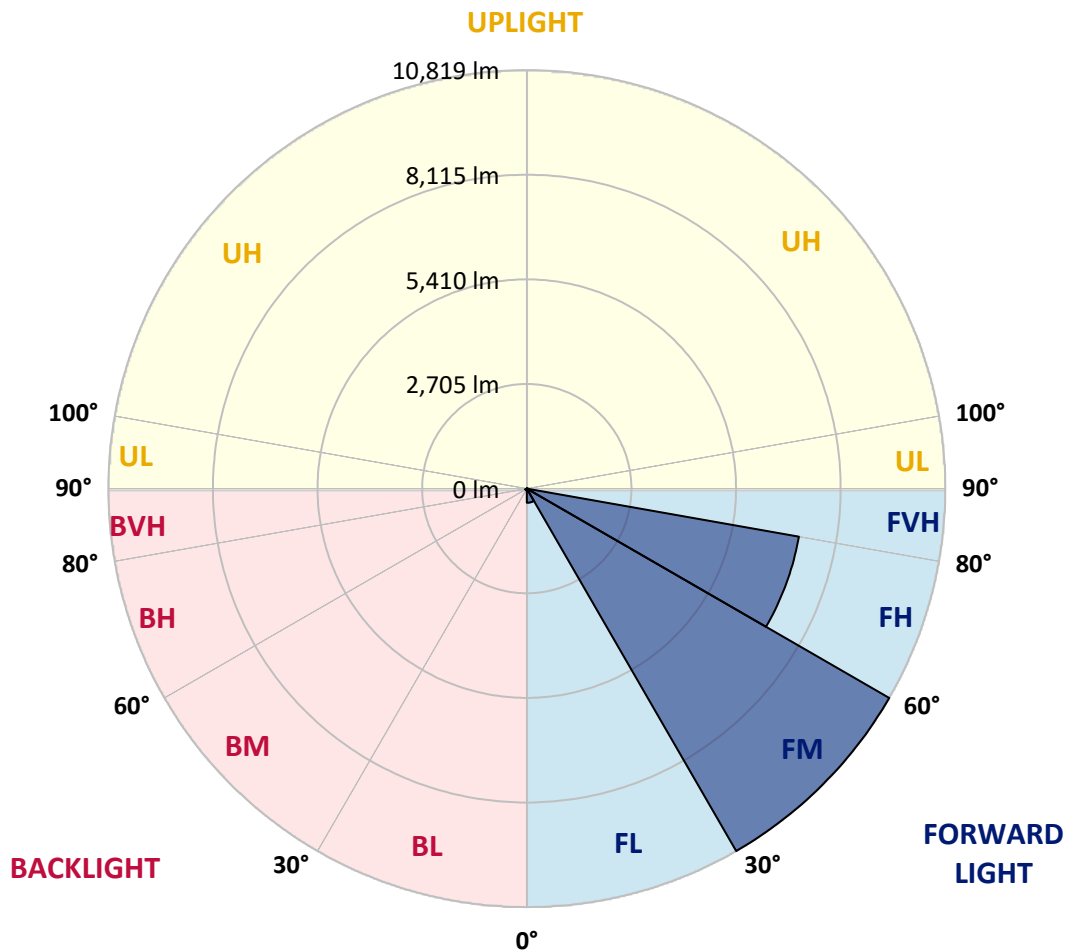
CATALOG NUMBER: NAV-SA6A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.7	2.0			
FM	(30°-60°)	10819.4	58.6			
FH	(60°-80°)	7143.4	38.7			G3/7500
FVH	(80°-90°)	39.5	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	36.3	0.2	B0/220		
BH	(60°-80°)	40.7	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°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	81.0	81.0	75.2	69.4	63.7	57.9	57.9	57.9	52.1	52.1	46.3
5°	92.6	92.6	86.8	81.0	81.0	75.2	75.2	69.4	63.7	63.7	57.9
7.5°	98.4	98.4	98.4	98.4	92.6	92.6	92.6	86.8	81.0	75.2	69.4
10°	104.2	110.0	115.7	115.7	115.7	115.7	115.7	110.0	98.4	92.6	81.0
12.5°	115.7	121.5	133.1	144.7	144.7	150.5	144.7	138.9	127.3	110.0	92.6
15°	127.3	138.9	156.3	179.4	202.6	208.3	208.3	191.0	167.8	133.1	110.0
17.5°	144.7	162.0	208.3	283.6	364.6	428.3	428.3	382.0	266.2	173.6	127.3
20°	156.3	191.0	335.7	682.9	1041.7	1307.9	1255.8	1111.1	596.1	272.0	138.9
22.5°	173.6	243.1	711.8	1794.0	2777.8	3264.0	3148.2	2390.1	1336.8	486.1	167.8
25°	196.8	353.0	1412.1	3362.4	5162.2	5688.8	5613.6	4461.9	2436.4	816.0	214.1
27.5°	243.1	520.8	2262.8	5098.5	7615.9	8067.3	8038.4	6533.7	3894.8	1313.7	277.8
30°	306.7	758.1	3356.6	6927.3	9242.1	9699.3	9554.6	8050.0	5254.8	2008.2	358.8
32.5°	382.0	1059.1	4346.2	8275.7	10741.0	11342.9	11169.3	9369.5	6348.5	2598.4	532.4
35°	497.7	1354.2	5324.2	9467.8	12471.4	13235.3	12945.9	10729.4	7291.9	3264.0	642.4
37.5°	555.6	1527.8	6221.2	10764.2	14415.9	15457.6	15237.7	12448.2	8252.5	4114.7	787.1
40°	561.4	1736.2	7153.0	12454.0	17164.8	19022.5	18628.9	15399.7	10040.8	5208.5	1012.8
42.5°	578.7	2048.7	8362.5	15336.0	22564.2	25232.1	24786.5	20828.1	14097.6	7401.8	1435.2
45°	659.7	2639.0	10827.8	20723.9	29977.6	33889.8	33374.7	28391.9	19763.2	11528.1	2448.0
47.5°	943.3	3970.0	15150.8	26540.0	37558.8	40678.1	40550.8	34352.7	24896.5	15758.5	4149.4
50°	1516.2	6093.9	20070.0	31430.2	42385.3	45064.8	44746.5	36841.2	27824.8	18646.3	5318.4
52.5°	2025.5	8125.2	23160.3	33230.0	43826.3	47020.9	46633.1	37749.8	28594.5	19497.0	5642.5
55°	2152.8	8860.2	24080.5	33785.6	44781.2	48676.0	48114.7	38357.5	28692.9	18889.4	5104.3
57.5°	2089.2	8165.7	23484.4	34329.6	46112.3	50377.4	49630.9	39543.8	29022.7	17859.3	4247.8
59°	1979.2	7309.2	23114.0	34763.6	46847.3	50643.7	49943.4	39804.3	29242.6	17390.5	3726.9
60°	1851.9	6730.5	22824.7	35047.2	46801.0	50227.0	49503.6	39682.7	29329.5	16985.4	3478.1
62.5°	1429.4	5370.5	22408.0	34844.6	43878.4	46424.8	46013.9	36708.1	28056.3	15689.1	2743.1
65°	1111.1	4108.9	20880.2	31077.2	37338.9	39051.9	38924.6	31083.0	23611.7	13524.7	1979.2
67.5°	879.7	2997.8	17656.7	25168.5	30041.3	32477.7	32385.1	25232.1	17922.9	10335.9	1423.6
70°	717.6	2135.5	12106.8	18976.2	24028.4	27095.6	26962.5	20307.2	13281.6	6556.9	1035.9
72.5°	607.7	1365.8	7343.9	14305.9	20052.6	21806.1	21418.4	16383.5	9658.8	3570.7	821.8
75°	515.1	839.1	3640.1	8918.1	11944.7	11933.2	11545.4	8675.0	5185.3	1747.7	654.0
77.5°	416.7	590.3	1429.4	2448.0	3767.5	4664.5	4589.2	3073.0	1551.0	509.3	405.1
80°	272.0	277.8	382.0	671.3	1035.9	1145.9	1302.1	937.5	451.4	243.1	167.8
82.5°	121.5	133.1	173.6	219.9	219.9	202.6	179.4	133.1	98.4	81.0	40.5
85°	28.9	40.5	28.9	34.7	28.9	23.1	23.1	11.6	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°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	46.3	46.3	46.3	40.5	40.5	40.5	34.7	34.7	34.7	28.9	28.9
5°	57.9	52.1	46.3	46.3	40.5	40.5	34.7	28.9	28.9	28.9	23.1
7.5°	63.7	57.9	52.1	46.3	40.5	34.7	34.7	28.9	23.1	23.1	23.1
10°	75.2	69.4	57.9	46.3	40.5	34.7	28.9	28.9	23.1	17.4	17.4
12.5°	86.8	75.2	63.7	52.1	40.5	34.7	28.9	28.9	23.1	17.4	11.6
15°	98.4	86.8	69.4	52.1	40.5	34.7	28.9	28.9	17.4	11.6	5.8
17.5°	110.0	92.6	69.4	57.9	40.5	34.7	28.9	23.1	11.6	5.8	0.0
20°	115.7	98.4	75.2	57.9	40.5	34.7	28.9	17.4	5.8	0.0	0.0
22.5°	127.3	110.0	81.0	57.9	40.5	28.9	17.4	5.8	0.0	0.0	0.0
25°	150.5	115.7	81.0	57.9	40.5	28.9	11.6	0.0	0.0	0.0	0.0
27.5°	167.8	127.3	81.0	57.9	40.5	23.1	5.8	0.0	0.0	0.0	0.0
30°	196.8	138.9	86.8	57.9	40.5	17.4	5.8	0.0	0.0	0.0	0.0
32.5°	243.1	150.5	86.8	57.9	34.7	17.4	0.0	0.0	0.0	0.0	0.0
35°	295.1	173.6	86.8	57.9	34.7	17.4	0.0	0.0	0.0	0.0	0.0
37.5°	300.9	185.2	86.8	57.9	34.7	11.6	0.0	0.0	0.0	0.0	0.0
40°	312.5	173.6	92.6	57.9	34.7	11.6	0.0	0.0	0.0	0.0	0.0
42.5°	358.8	162.0	98.4	57.9	34.7	11.6	0.0	0.0	0.0	0.0	0.0
45°	532.4	167.8	98.4	63.7	34.7	17.4	0.0	0.0	0.0	0.0	0.0
47.5°	925.9	173.6	92.6	63.7	34.7	17.4	0.0	0.0	0.0	0.0	0.0
50°	1186.4	202.6	92.6	69.4	40.5	11.6	0.0	0.0	0.0	0.0	0.0
52.5°	1261.6	237.3	92.6	75.2	52.1	5.8	0.0	0.0	0.0	0.0	0.0
55°	1226.9	277.8	98.4	81.0	63.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1134.3	300.9	104.2	86.8	69.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	1035.9	318.3	121.5	92.6	69.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	954.9	335.7	127.3	98.4	69.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	769.7	358.8	138.9	115.7	57.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	671.3	376.2	144.7	127.3	52.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	613.4	387.7	156.3	133.1	46.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	567.1	382.0	167.8	127.3	40.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	515.1	364.6	202.6	115.7	34.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	463.0	329.9	219.9	104.2	23.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.7	277.8	202.6	92.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.7	150.5	144.7	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	34.7	28.9	17.4	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°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	28.9	28.9	28.9	28.9	34.7	34.7	46.3	57.9	69.4	75.2	75.2
5°	23.1	23.1	23.1	23.1	23.1	28.9	34.7	46.3	63.7	69.4	69.4
7.5°	17.4	17.4	17.4	17.4	17.4	17.4	28.9	40.5	57.9	63.7	69.4
10°	17.4	11.6	11.6	5.8	5.8	11.6	17.4	34.7	52.1	57.9	63.7
12.5°	11.6	5.8	5.8	0.0	0.0	5.8	11.6	28.9	46.3	52.1	57.9
15°	5.8	0.0	0.0	0.0	0.0	0.0	5.8	23.1	40.5	46.3	57.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	34.7	46.3	52.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	28.9	40.5	46.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	23.1	34.7	40.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	23.1	28.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	17.4	23.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	17.4	23.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6	17.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6	17.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6	11.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
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	11.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6
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°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	81.0	81.0	75.2	69.4	69.4	69.4	75.2	81.0	81.0	81.0
5°	75.2	75.2	69.4	69.4	69.4	69.4	75.2	86.8	92.6	92.6
7.5°	75.2	75.2	69.4	69.4	69.4	69.4	75.2	86.8	92.6	98.4
10°	69.4	69.4	69.4	69.4	63.7	69.4	75.2	86.8	104.2	104.2
12.5°	69.4	69.4	69.4	69.4	63.7	69.4	81.0	92.6	110.0	115.7
15°	69.4	69.4	69.4	63.7	63.7	69.4	81.0	98.4	115.7	127.3
17.5°	63.7	69.4	69.4	63.7	63.7	69.4	81.0	98.4	127.3	144.7
20°	57.9	63.7	69.4	63.7	63.7	63.7	81.0	98.4	133.1	156.3
22.5°	52.1	57.9	63.7	63.7	57.9	63.7	81.0	104.2	144.7	173.6
25°	46.3	52.1	52.1	57.9	57.9	63.7	81.0	104.2	150.5	196.8
27.5°	34.7	40.5	46.3	52.1	52.1	63.7	81.0	110.0	162.0	243.1
30°	28.9	34.7	40.5	46.3	52.1	63.7	81.0	110.0	173.6	306.7
32.5°	28.9	34.7	40.5	46.3	52.1	57.9	81.0	115.7	191.0	382.0
35°	23.1	28.9	34.7	46.3	46.3	57.9	81.0	115.7	208.3	497.7
37.5°	23.1	28.9	34.7	46.3	46.3	57.9	81.0	115.7	254.6	555.6
40°	17.4	23.1	28.9	46.3	46.3	57.9	86.8	121.5	260.4	561.4
42.5°	17.4	23.1	28.9	40.5	46.3	57.9	86.8	121.5	243.1	578.7
45°	17.4	23.1	28.9	46.3	52.1	63.7	86.8	127.3	237.3	659.7
47.5°	17.4	23.1	28.9	46.3	57.9	63.7	86.8	127.3	243.1	943.3
50°	17.4	23.1	28.9	46.3	63.7	63.7	86.8	127.3	266.2	1516.2
52.5°	11.6	17.4	23.1	40.5	52.1	69.4	92.6	121.5	283.6	2025.5
55°	11.6	11.6	17.4	34.7	46.3	75.2	98.4	121.5	329.9	2152.8
57.5°	11.6	11.6	17.4	28.9	40.5	81.0	104.2	121.5	382.0	2089.2
59°	11.6	11.6	11.6	23.1	34.7	81.0	110.0	133.1	393.5	1851.9
60°	11.6	11.6	11.6	23.1	34.7	81.0	110.0	133.1	393.5	1851.9
62.5°	5.8	5.8	5.8	23.1	28.9	81.0	121.5	162.0	405.1	1429.4
65°	11.6	11.6	5.8	17.4	28.9	69.4	138.9	173.6	410.9	1111.1
67.5°	11.6	11.6	11.6	23.1	28.9	69.4	144.7	179.4	410.9	879.7
70°	11.6	11.6	11.6	23.1	34.7	69.4	144.7	185.2	405.1	717.6
72.5°	11.6	11.6	11.6	23.1	34.7	63.7	133.1	191.0	387.7	607.7
75°	11.6	11.6	11.6	17.4	28.9	57.9	127.3	208.3	353.0	515.1
77.5°	11.6	11.6	11.6	11.6	23.1	46.3	115.7	231.5	312.5	416.7
80°	17.4	11.6	11.6	11.6	17.4	40.5	110.0	225.7	260.4	272.0
82.5°	17.4	11.6	11.6	5.8	11.6	28.9	86.8	173.6	133.1	121.5
85°	11.6	11.6	11.6	5.8	5.8	17.4	40.5	52.1	40.5	28.9
87.5°	11.6	11.6	11.6	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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

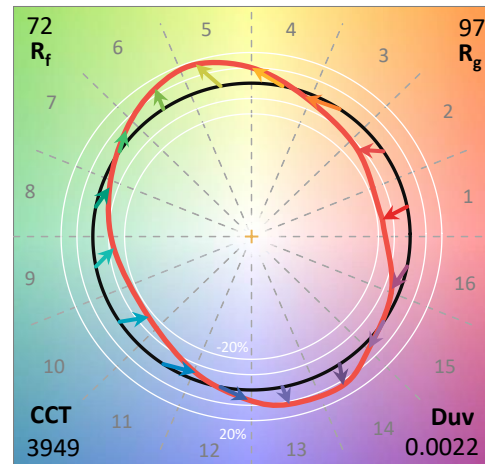
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

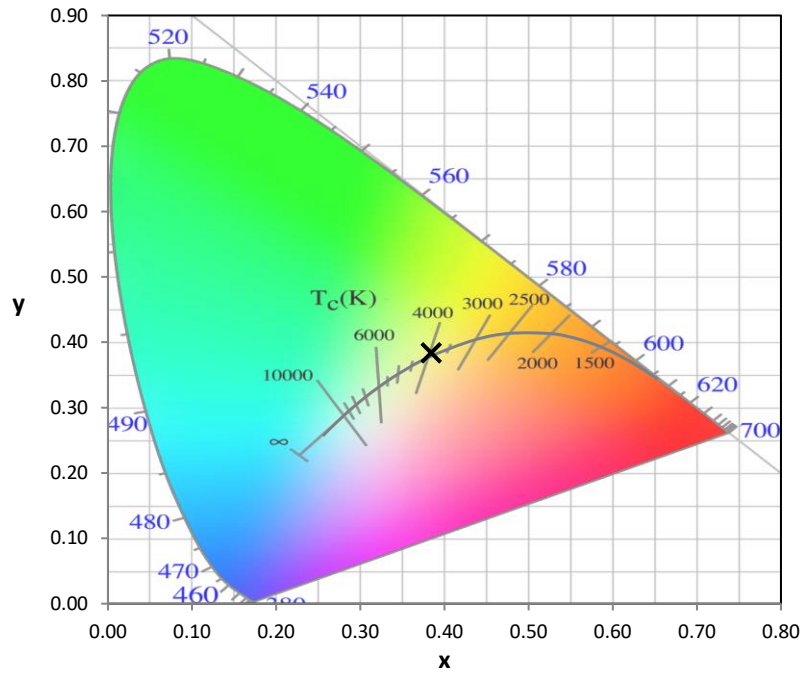
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

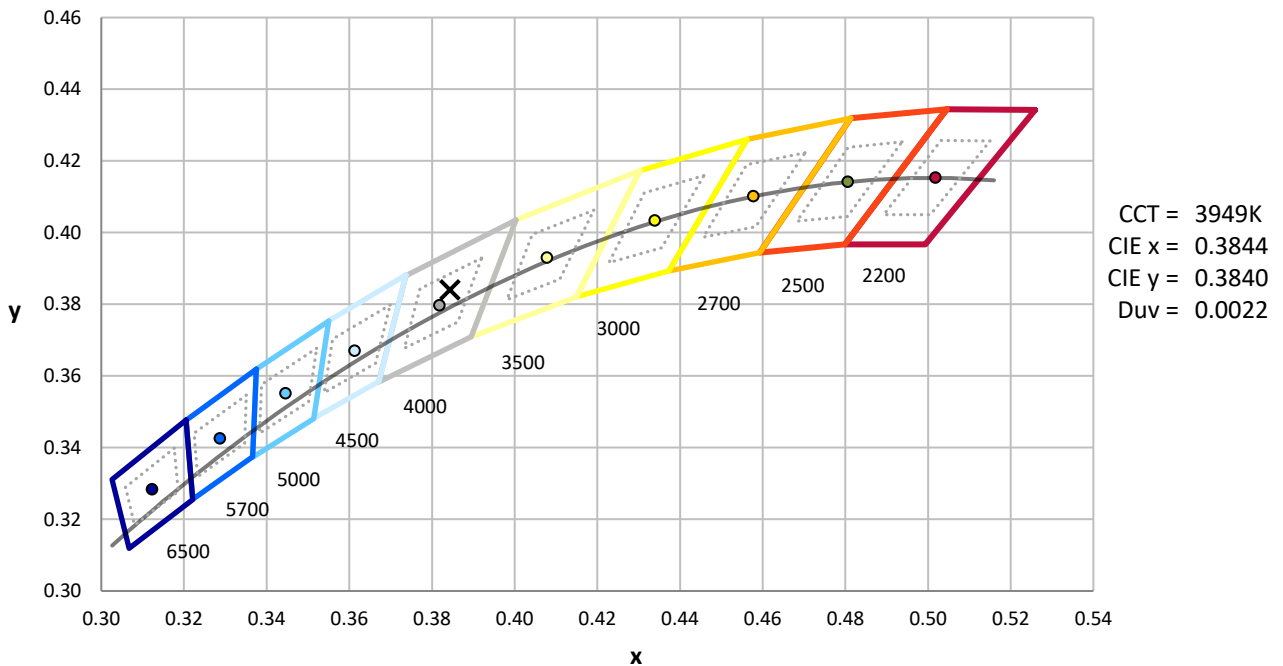
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



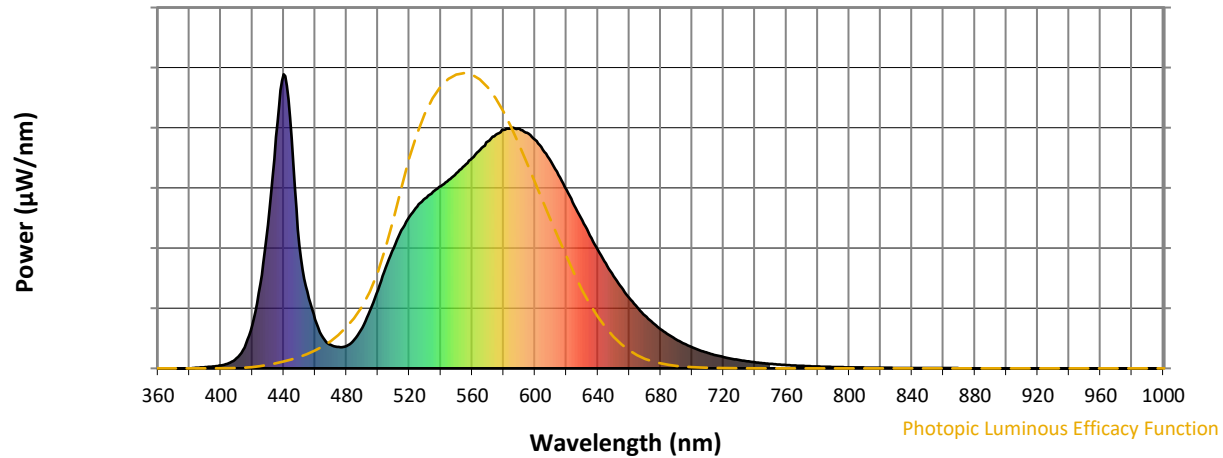
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

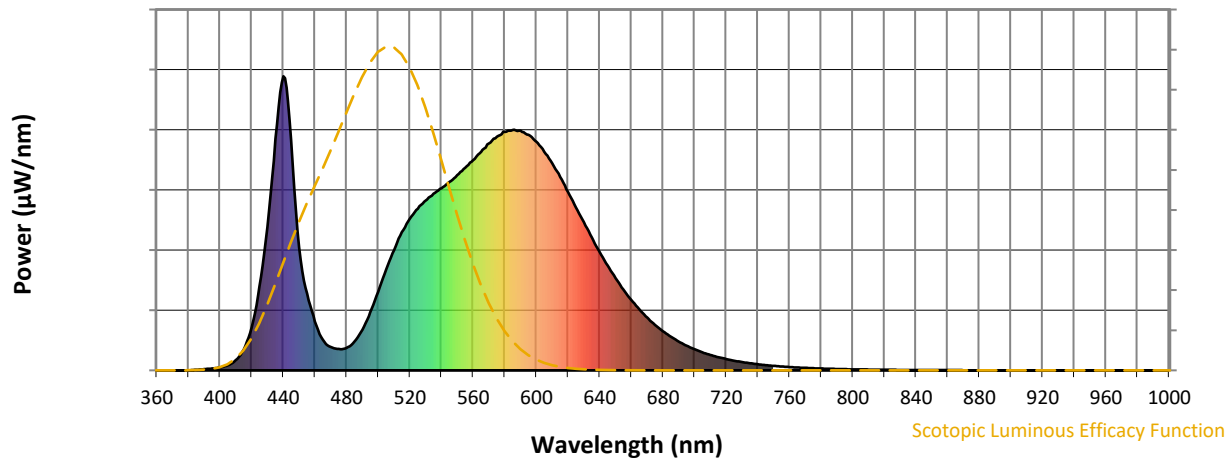


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



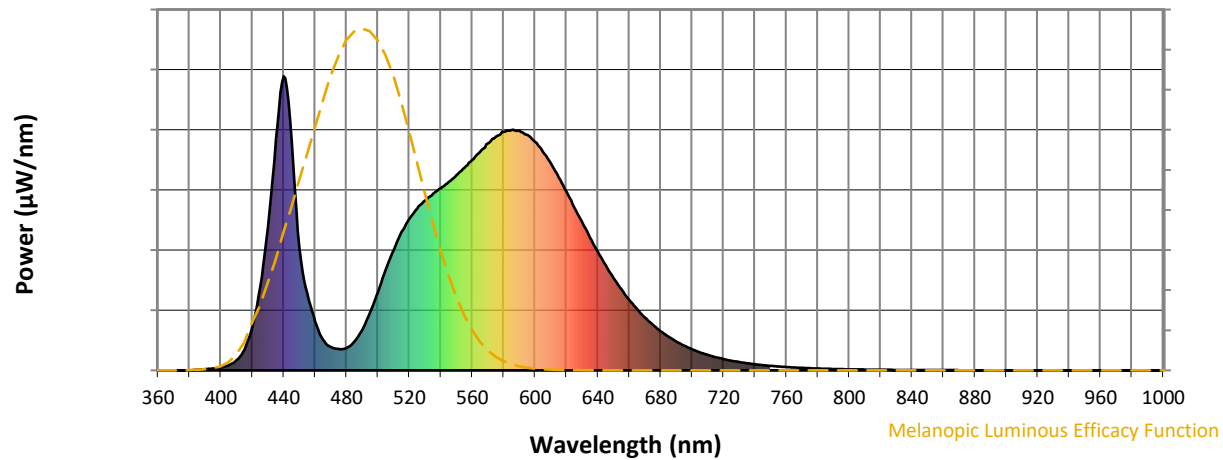
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

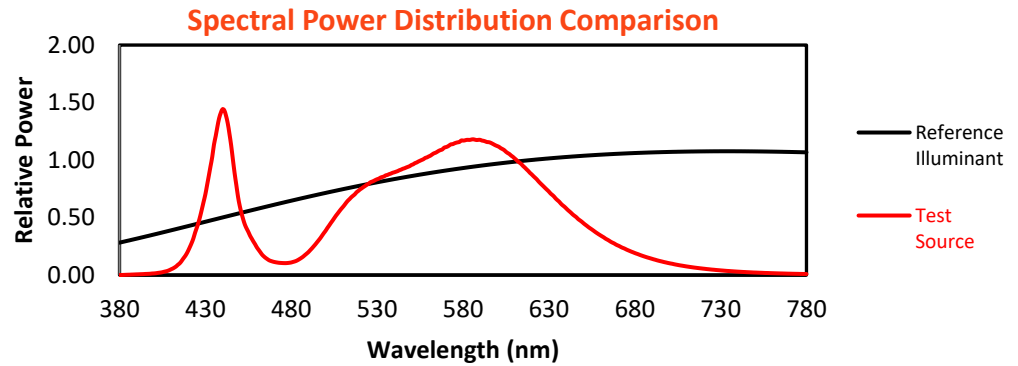
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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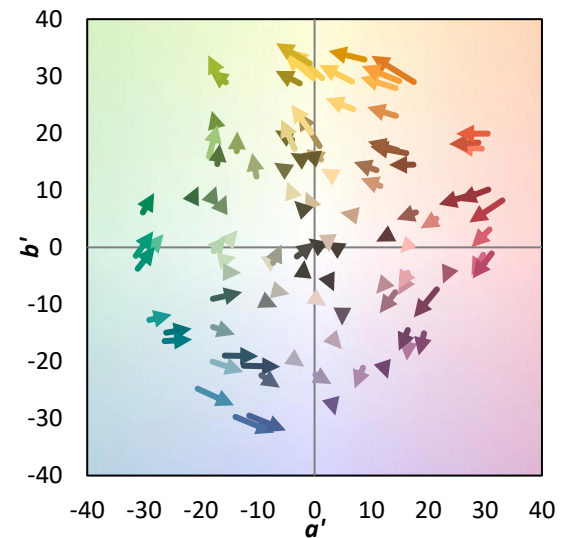
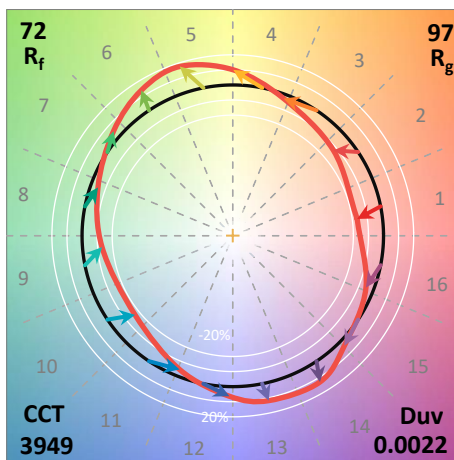
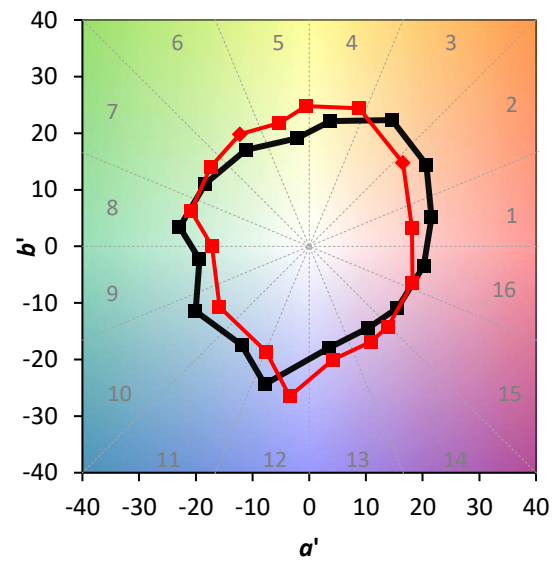
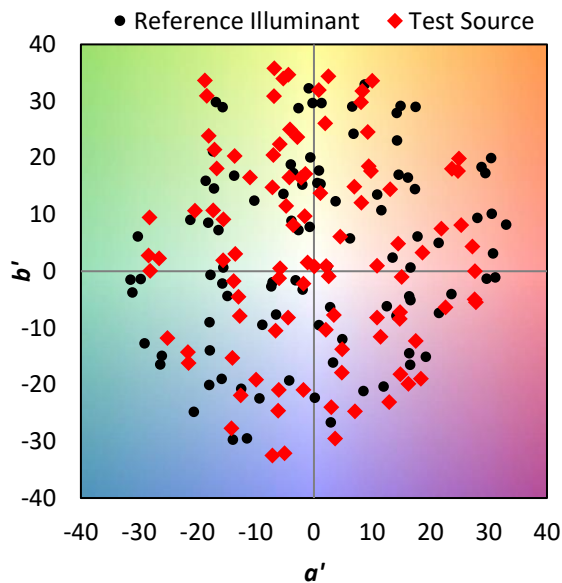
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

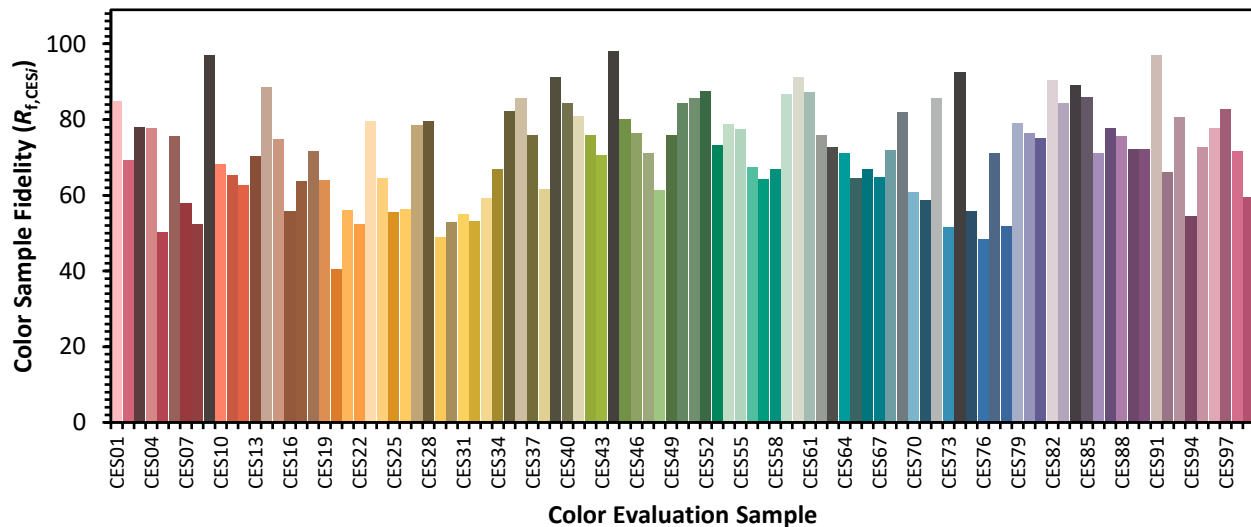


Color Vector Graphics

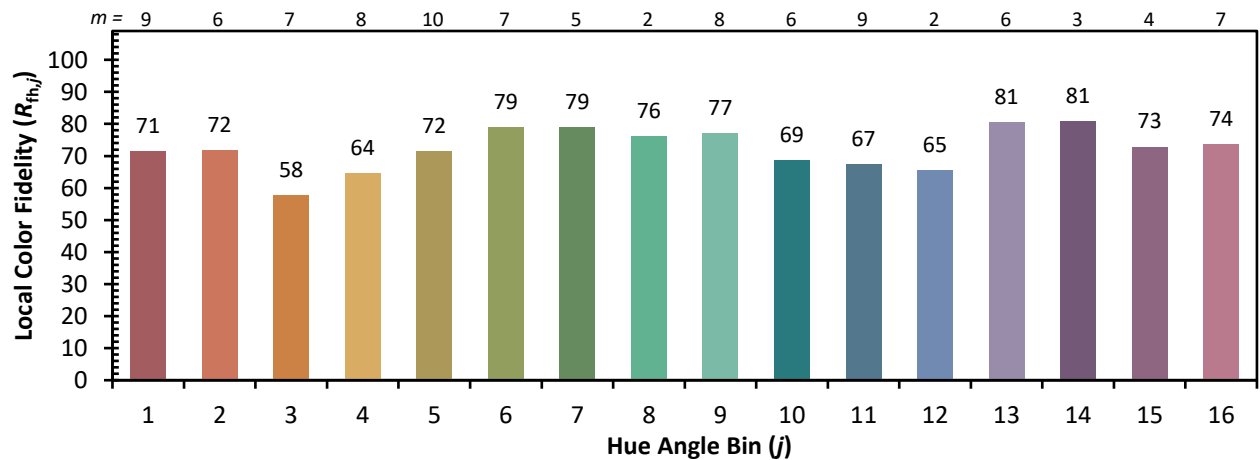
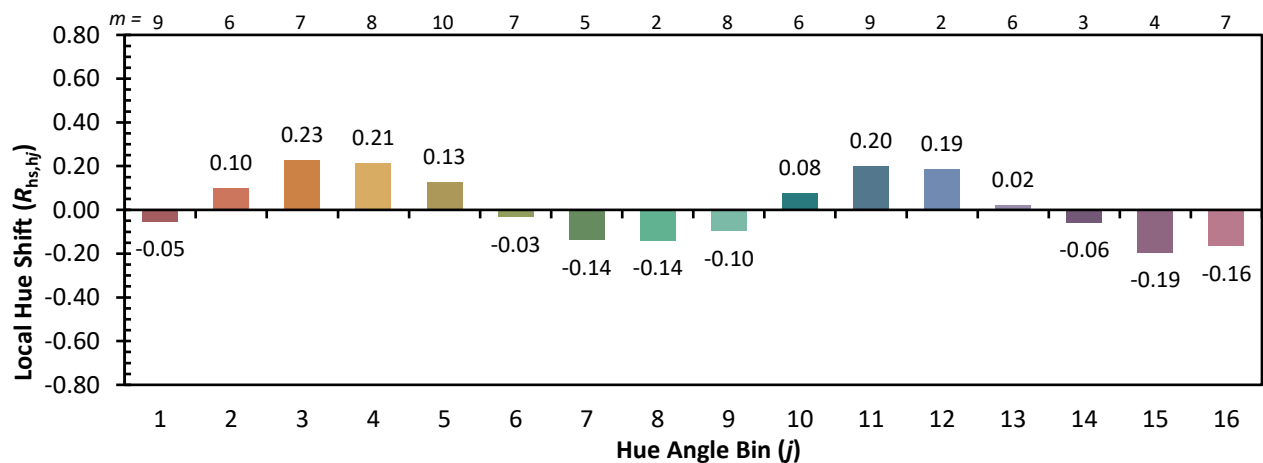
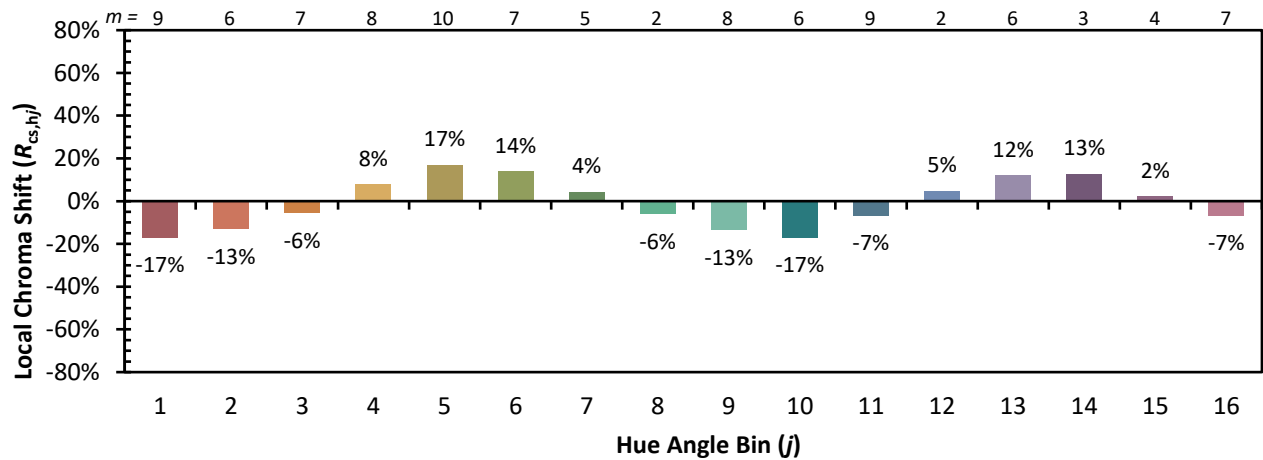


Individual Sample Fidelity Index ($R_{f,i}$)

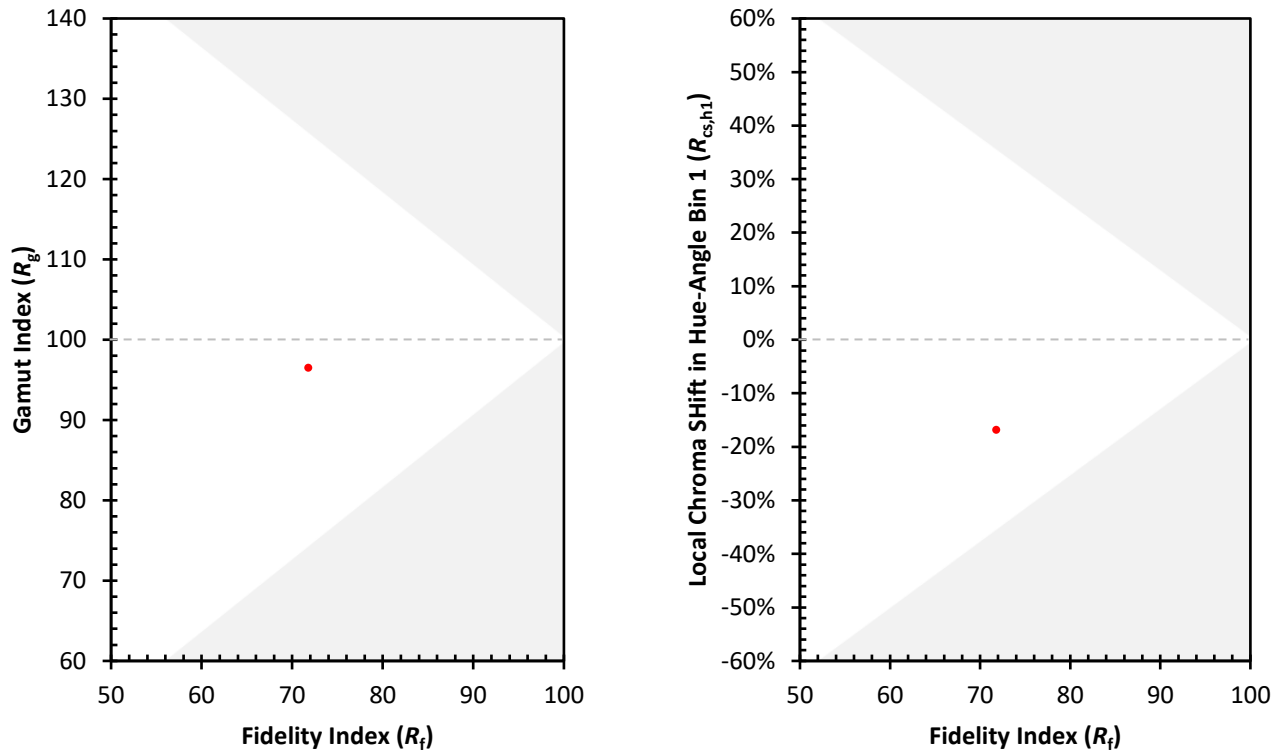
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)