

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1066736

Luminaire Tested: **NVN-SA5D-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066736
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA5D-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21975.6 lumens
Efficiency: N/A
Efficacy: 81.5 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): 269.7
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



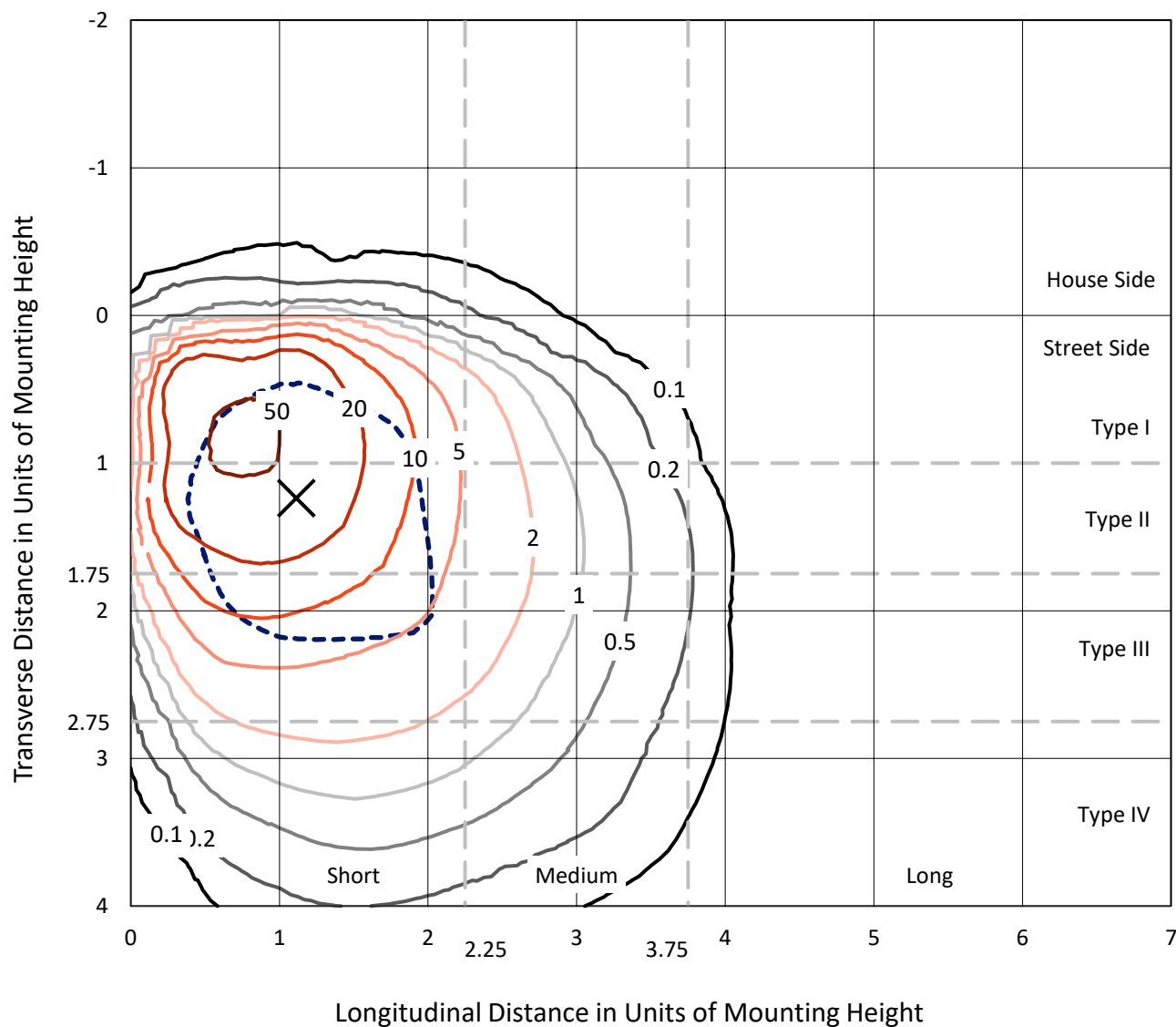
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

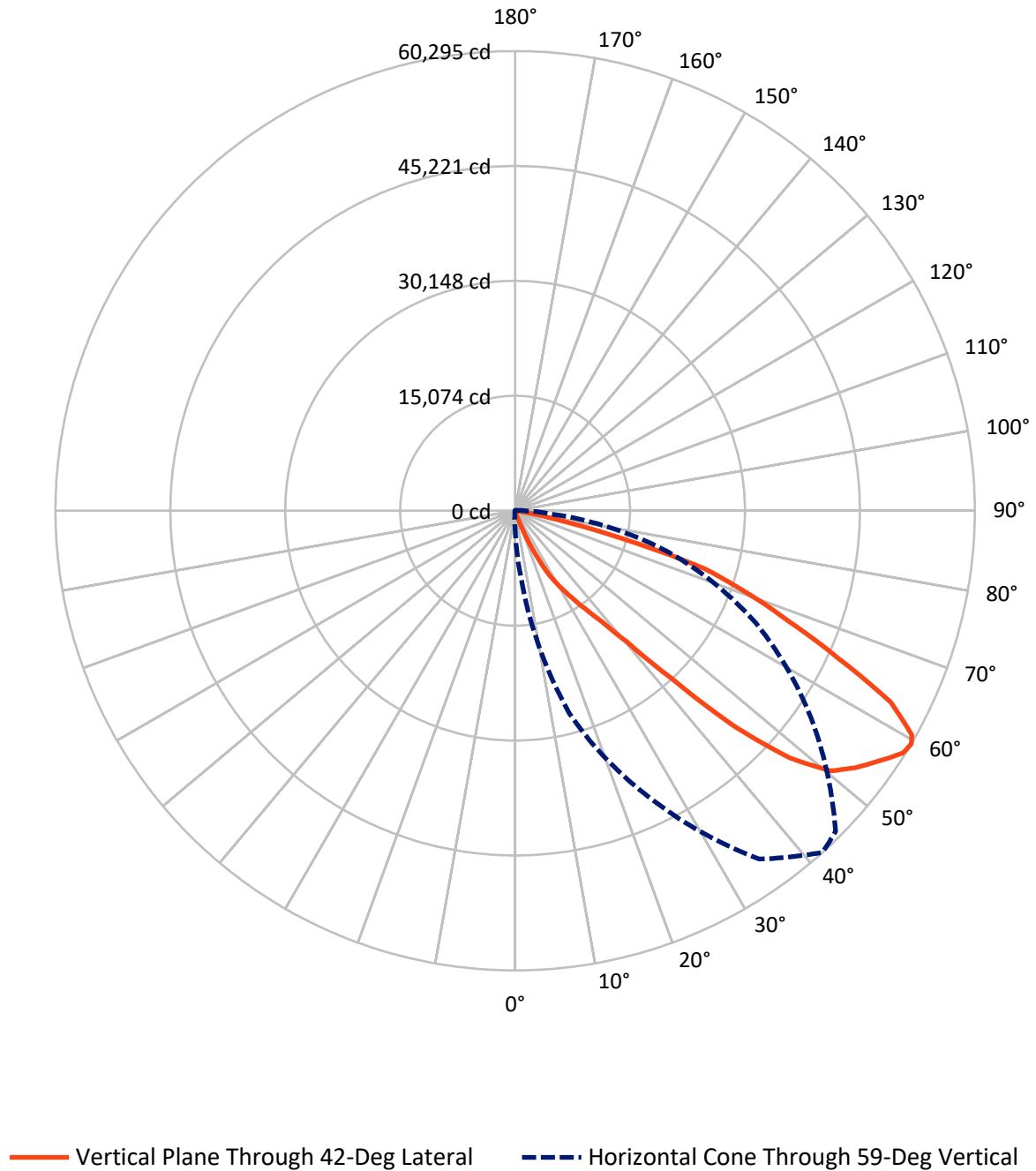


Based on 15 foot mounting height. Maximum calculated value = 65.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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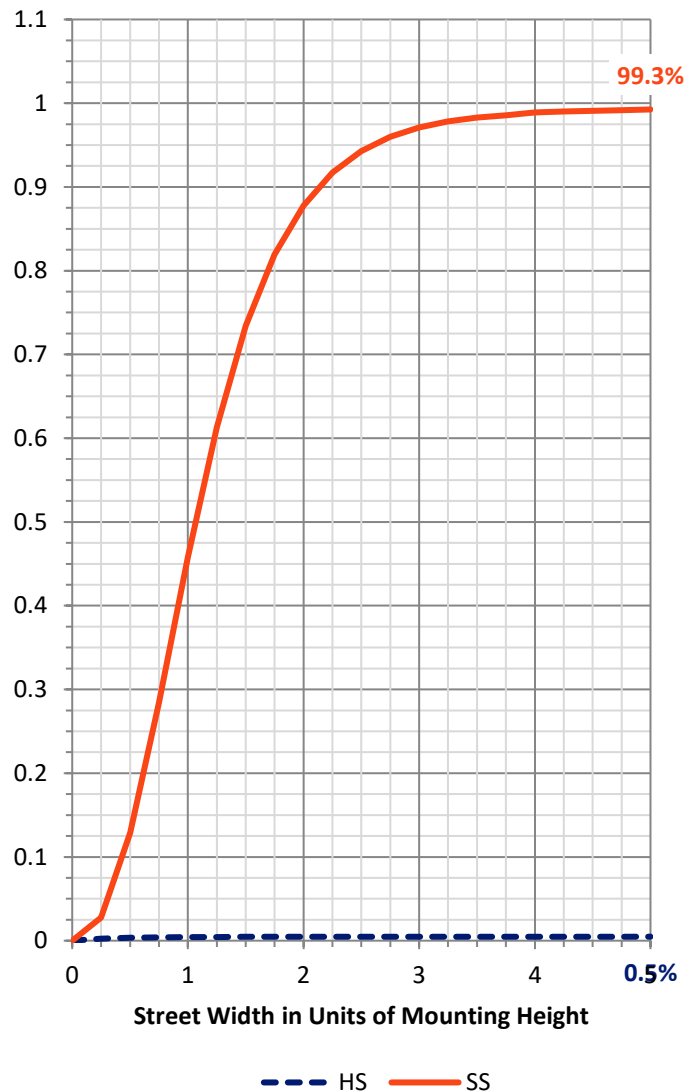
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.9	0.0	105.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	21869.7	0.0	21869.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	21975.6	0.0	21975.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.0
10°-20°	32.0	0.1
20°-30°	409.9	1.9
30°-40°	1382.0	6.3
40°-50°	4174.2	19.0
50°-60°	7368.5	33.5
60°-70°	6488.0	29.5
70°-80°	2065.2	9.4
80°-90°	49.4	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°	21975.6	100.0
0°-180°	21975.6	100.0



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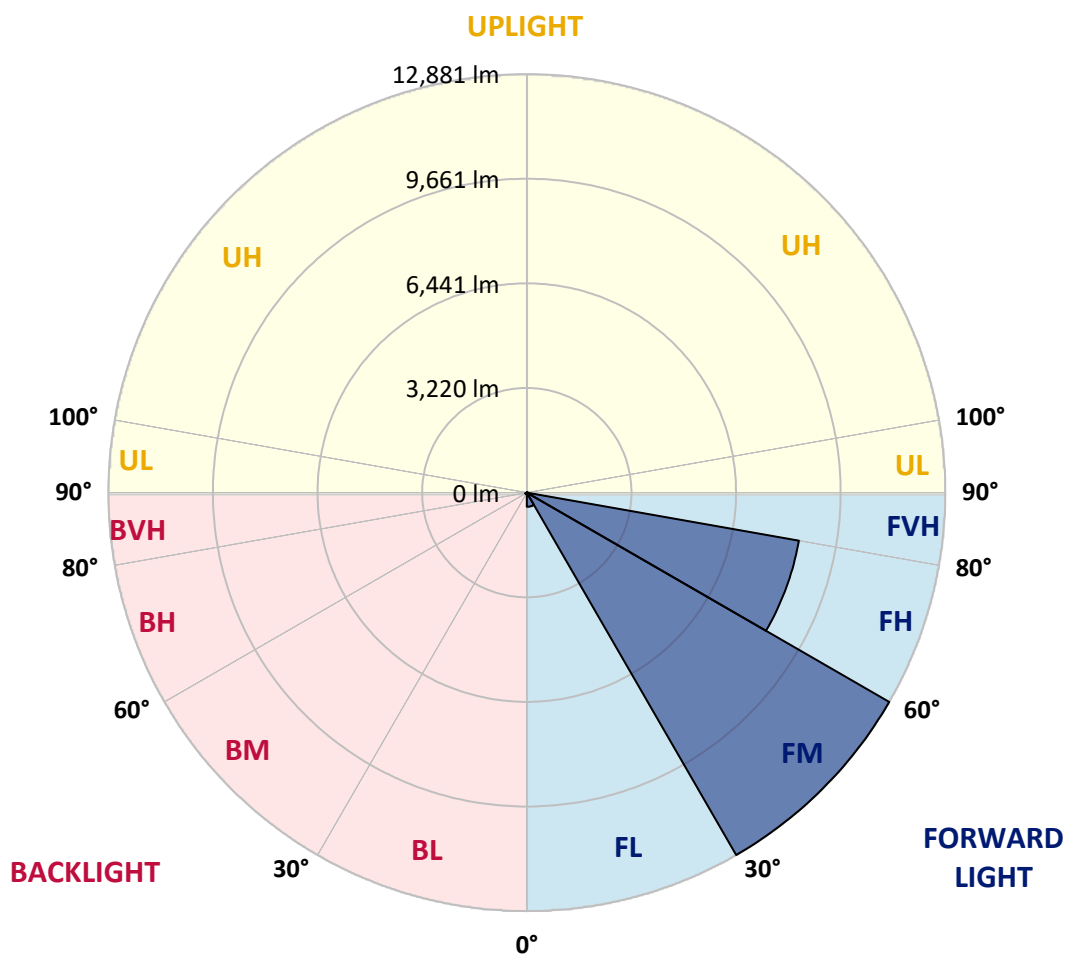
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.6	2.0			
FM	(30°-60°)	12881.4	58.6			
FH	(60°-80°)	8504.8	38.7			G4/12000
FVH	(80°-90°)	47.0	0.2			G1/100
BL	(0°-30°)	11.8	0.1	B0/110		
BM	(30°-60°)	43.3	0.2	B0/220		
BH	(60°-80°)	48.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	96.5	96.5	89.6	82.7	75.8	68.9	68.9	68.9	62.0	62.0	55.1
5°	110.2	110.2	103.4	96.5	96.5	89.6	89.6	82.7	75.8	75.8	68.9
7.5°	117.1	117.1	117.1	117.1	110.2	110.2	110.2	103.4	96.5	89.6	82.7
10°	124.0	130.9	137.8	137.8	137.8	137.8	137.8	130.9	117.1	110.2	96.5
12.5°	137.8	144.7	158.5	172.3	172.3	179.1	172.3	165.4	151.6	130.9	110.2
15°	151.6	165.4	186.0	213.6	241.2	248.0	248.0	227.4	199.8	158.5	130.9
17.5°	172.3	192.9	248.0	337.6	434.1	509.9	509.9	454.7	316.9	206.7	151.6
20°	186.0	227.4	399.6	813.0	1240.2	1557.2	1495.1	1322.9	709.7	323.8	165.4
22.5°	206.7	289.4	847.5	2135.9	3307.2	3886.0	3748.2	2845.6	1591.6	578.8	199.8
25°	234.3	420.3	1681.2	4003.1	6146.0	6773.0	6683.4	5312.3	2900.7	971.5	254.9
27.5°	289.4	620.1	2694.0	6070.2	9067.4	9604.8	9570.3	7778.9	4637.0	1564.1	330.7
30°	365.2	902.6	3996.3	8247.4	11003.5	11547.8	11375.5	9584.1	6256.2	2390.9	427.2
32.5°	454.7	1260.9	5174.5	9852.8	12788.0	13504.6	13297.9	11155.1	7558.4	3093.6	633.9
35°	592.5	1612.3	6338.9	11272.2	14848.1	15757.6	15413.1	12774.2	8681.5	3886.0	764.8
37.5°	661.4	1819.0	7406.8	12815.6	17163.2	18403.4	18141.6	14820.6	9825.3	4898.9	937.1
40°	668.3	2067.0	8516.1	14827.5	20436.0	22647.7	22179.2	18334.5	11954.3	6201.1	1205.8
42.5°	689.0	2439.1	9956.2	18258.7	26864.5	30040.8	29510.3	24797.4	16784.3	8812.4	1708.7
45°	785.5	3141.9	12891.4	24673.4	35690.7	40348.4	39735.1	33802.8	23529.7	13725.1	2914.5
47.5°	1123.1	4726.6	18038.3	31597.9	44716.7	48430.4	48278.9	40899.6	29641.2	18761.7	4940.2
50°	1805.2	7255.3	23894.8	37420.1	50463.0	53653.1	53274.2	43862.3	33127.5	22199.9	6332.0
52.5°	2411.5	9673.7	27574.1	39562.9	52178.6	55982.0	55520.3	44944.0	34043.9	23212.7	6717.8
55°	2563.1	10548.7	28669.7	40224.3	53315.5	57952.5	57284.2	45667.5	34161.1	22489.3	6077.1
57.5°	2487.3	9721.9	27960.0	40872.0	54900.2	59978.2	59089.4	47080.0	34553.8	21262.8	5057.3
59°	2356.4	8702.2	27519.0	41388.8	55775.3	60295.2	59461.5	47390.0	34815.6	20704.7	4437.2
60°	2204.8	8013.2	27174.5	41726.4	55720.1	59799.1	58937.8	47245.3	34919.0	20222.4	4140.9
62.5°	1701.9	6394.0	26678.4	41485.2	52240.7	55272.3	54783.1	43703.8	33403.2	18679.0	3265.9
65°	1322.9	4892.0	24859.4	36999.8	44454.9	46494.3	46342.7	37006.7	28111.6	16102.1	2356.4
67.5°	1047.3	3569.1	21021.7	29965.0	35766.5	38667.2	38556.9	30040.8	21338.6	12305.7	1695.0
70°	854.4	2542.4	14414.1	22592.6	28607.6	32259.4	32100.9	24177.3	15812.8	7806.5	1233.3
72.5°	723.5	1626.1	8743.5	17032.3	23874.2	25961.9	25500.2	19505.8	11499.6	4251.2	978.4
75°	613.2	999.1	4333.9	10617.6	14221.1	14207.4	13745.7	10328.2	6173.5	2080.8	778.6
77.5°	496.1	702.8	1701.9	2914.5	4485.4	5553.4	5463.8	3658.6	1846.5	606.3	482.3
80°	323.8	330.7	454.7	799.3	1233.3	1364.2	1550.3	1116.2	537.4	289.4	199.8
82.5°	144.7	158.5	206.7	261.8	261.8	241.2	213.6	158.5	117.1	96.5	48.2
85°	34.5	48.2	34.5	41.3	34.5	27.6	27.6	13.8	0.0	0.0	0.0
87.5°	6.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	55.1	55.1	55.1	48.2	48.2	48.2	41.3	41.3	41.3	34.5	34.5
5°	68.9	62.0	55.1	55.1	48.2	48.2	41.3	34.5	34.5	34.5	27.6
7.5°	75.8	68.9	62.0	55.1	48.2	41.3	41.3	34.5	27.6	27.6	27.6
10°	89.6	82.7	68.9	55.1	48.2	41.3	34.5	34.5	27.6	20.7	20.7
12.5°	103.4	89.6	75.8	62.0	48.2	41.3	34.5	34.5	27.6	20.7	13.8
15°	117.1	103.4	82.7	62.0	48.2	41.3	34.5	34.5	20.7	13.8	6.9
17.5°	130.9	110.2	82.7	68.9	48.2	41.3	34.5	27.6	13.8	6.9	0.0
20°	137.8	117.1	89.6	68.9	48.2	41.3	34.5	20.7	6.9	0.0	0.0
22.5°	151.6	130.9	96.5	68.9	48.2	34.5	20.7	6.9	0.0	0.0	0.0
25°	179.1	137.8	96.5	68.9	48.2	34.5	13.8	0.0	0.0	0.0	0.0
27.5°	199.8	151.6	96.5	68.9	48.2	27.6	6.9	0.0	0.0	0.0	0.0
30°	234.3	165.4	103.4	68.9	48.2	20.7	6.9	0.0	0.0	0.0	0.0
32.5°	289.4	179.1	103.4	68.9	41.3	20.7	0.0	0.0	0.0	0.0	0.0
35°	351.4	206.7	103.4	68.9	41.3	20.7	0.0	0.0	0.0	0.0	0.0
37.5°	358.3	220.5	103.4	68.9	41.3	13.8	0.0	0.0	0.0	0.0	0.0
40°	372.1	206.7	110.2	68.9	41.3	13.8	0.0	0.0	0.0	0.0	0.0
42.5°	427.2	192.9	117.1	68.9	41.3	13.8	0.0	0.0	0.0	0.0	0.0
45°	633.9	199.8	117.1	75.8	41.3	20.7	0.0	0.0	0.0	0.0	0.0
47.5°	1102.4	206.7	110.2	75.8	41.3	20.7	0.0	0.0	0.0	0.0	0.0
50°	1412.5	241.2	110.2	82.7	48.2	13.8	0.0	0.0	0.0	0.0	0.0
52.5°	1502.0	282.5	110.2	89.6	62.0	6.9	0.0	0.0	0.0	0.0	0.0
55°	1460.7	330.7	117.1	96.5	75.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1350.5	358.3	124.0	103.4	82.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1233.3	379.0	144.7	110.2	82.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1136.9	399.6	151.6	117.1	82.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	916.4	427.2	165.4	137.8	68.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	799.3	447.9	172.3	151.6	62.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	730.3	461.6	186.0	158.5	55.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	675.2	454.7	199.8	151.6	48.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	613.2	434.1	241.2	137.8	41.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	551.2	392.7	261.8	124.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	399.6	330.7	241.2	110.2	13.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.3	179.1	172.3	82.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.5	41.3	34.5	20.7	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°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	34.5	34.5	34.5	34.5	41.3	41.3	55.1	68.9	82.7	89.6	89.6
5°	27.6	27.6	27.6	27.6	27.6	34.5	41.3	55.1	75.8	82.7	82.7
7.5°	20.7	20.7	20.7	20.7	20.7	20.7	34.5	48.2	68.9	75.8	82.7
10°	20.7	13.8	13.8	6.9	6.9	13.8	20.7	41.3	62.0	68.9	75.8
12.5°	13.8	6.9	6.9	0.0	0.0	6.9	13.8	34.5	55.1	62.0	68.9
15°	6.9	0.0	0.0	0.0	0.0	0.0	6.9	27.6	48.2	55.1	68.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	41.3	55.1	62.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	34.5	48.2	55.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	27.6	41.3	48.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	27.6	34.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	20.7	27.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	20.7	27.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8	20.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8	20.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8	13.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
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°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	96.5	96.5	89.6	82.7	82.7	82.7	89.6	96.5	96.5	96.5
5°	89.6	89.6	82.7	82.7	82.7	82.7	89.6	103.4	110.2	110.2
7.5°	89.6	89.6	82.7	82.7	82.7	82.7	89.6	103.4	110.2	117.1
10°	82.7	82.7	82.7	82.7	75.8	82.7	89.6	103.4	124.0	124.0
12.5°	82.7	82.7	82.7	82.7	75.8	82.7	96.5	110.2	130.9	137.8
15°	82.7	82.7	82.7	75.8	75.8	82.7	96.5	117.1	137.8	151.6
17.5°	75.8	82.7	82.7	75.8	75.8	82.7	96.5	117.1	151.6	172.3
20°	68.9	75.8	82.7	75.8	75.8	75.8	96.5	117.1	158.5	186.0
22.5°	62.0	68.9	75.8	75.8	68.9	75.8	96.5	124.0	172.3	206.7
25°	55.1	62.0	62.0	68.9	68.9	75.8	96.5	124.0	179.1	234.3
27.5°	41.3	48.2	55.1	62.0	62.0	75.8	96.5	130.9	192.9	289.4
30°	34.5	41.3	48.2	55.1	62.0	75.8	96.5	130.9	206.7	365.2
32.5°	34.5	41.3	48.2	55.1	62.0	68.9	96.5	137.8	227.4	454.7
35°	27.6	34.5	41.3	55.1	55.1	68.9	96.5	137.8	248.0	592.5
37.5°	27.6	34.5	41.3	55.1	55.1	68.9	96.5	137.8	303.2	661.4
40°	20.7	27.6	34.5	55.1	55.1	68.9	103.4	144.7	310.1	668.3
42.5°	20.7	27.6	34.5	48.2	55.1	68.9	103.4	144.7	289.4	689.0
45°	20.7	27.6	34.5	55.1	62.0	75.8	103.4	151.6	282.5	785.5
47.5°	20.7	27.6	34.5	55.1	68.9	75.8	103.4	151.6	289.4	1123.1
50°	20.7	27.6	34.5	55.1	75.8	75.8	103.4	151.6	316.9	1805.2
52.5°	13.8	20.7	27.6	48.2	62.0	82.7	110.2	144.7	337.6	2411.5
55°	13.8	13.8	20.7	41.3	55.1	89.6	117.1	144.7	392.7	2563.1
57.5°	13.8	13.8	20.7	34.5	48.2	96.5	124.0	144.7	454.7	2487.3
59°	13.8	13.8	13.8	34.5	41.3	96.5	124.0	151.6	461.6	2356.4
60°	13.8	13.8	13.8	27.6	41.3	96.5	130.9	158.5	468.5	2204.8
62.5°	6.9	6.9	6.9	27.6	34.5	96.5	144.7	192.9	482.3	1701.9
65°	13.8	13.8	6.9	20.7	34.5	82.7	165.4	206.7	489.2	1322.9
67.5°	13.8	13.8	13.8	27.6	34.5	82.7	172.3	213.6	489.2	1047.3
70°	13.8	13.8	13.8	27.6	41.3	82.7	172.3	220.5	482.3	854.4
72.5°	13.8	13.8	13.8	27.6	41.3	75.8	158.5	227.4	461.6	723.5
75°	13.8	13.8	13.8	20.7	34.5	68.9	151.6	248.0	420.3	613.2
77.5°	13.8	13.8	13.8	13.8	27.6	55.1	137.8	275.6	372.1	496.1
80°	20.7	13.8	13.8	13.8	20.7	48.2	130.9	268.7	310.1	323.8
82.5°	20.7	13.8	13.8	6.9	13.8	34.5	103.4	206.7	158.5	144.7
85°	13.8	13.8	13.8	6.9	6.9	20.7	48.2	62.0	48.2	34.5
87.5°	13.8	13.8	13.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

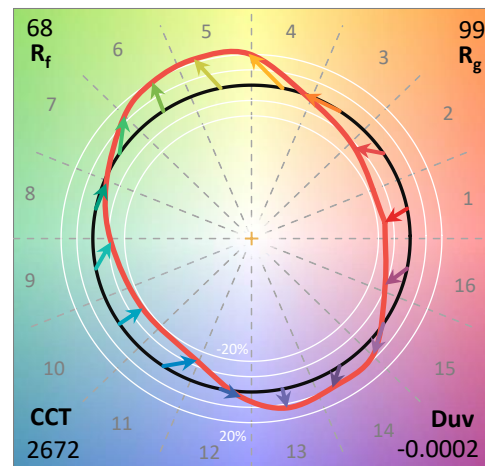
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

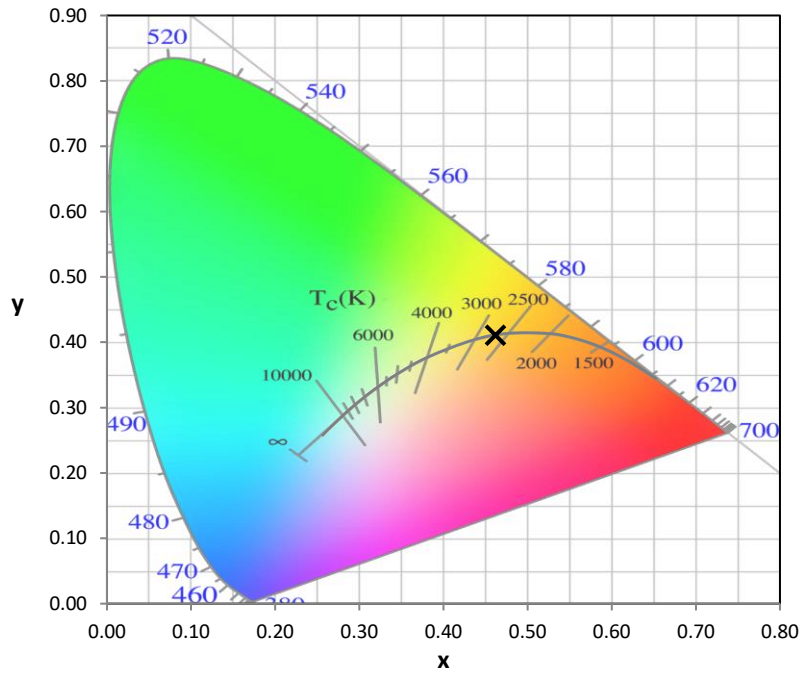
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

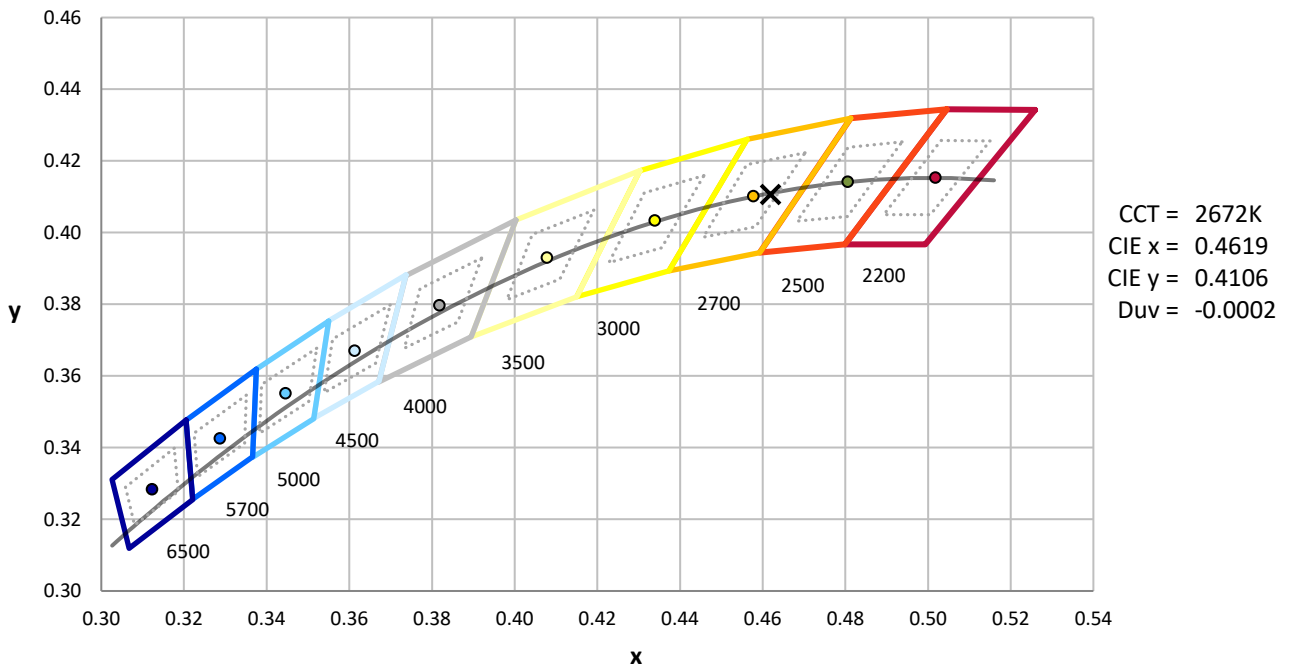
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram

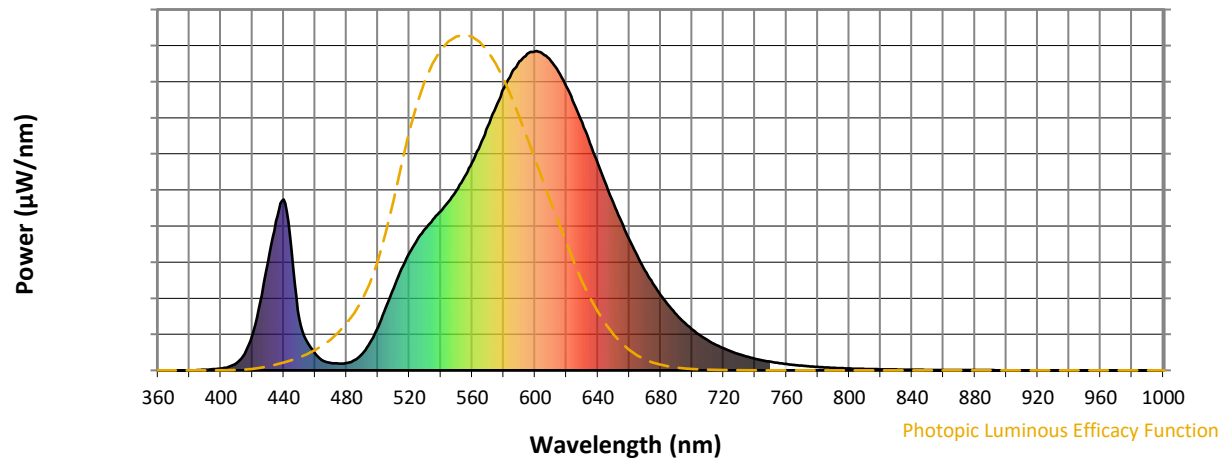


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

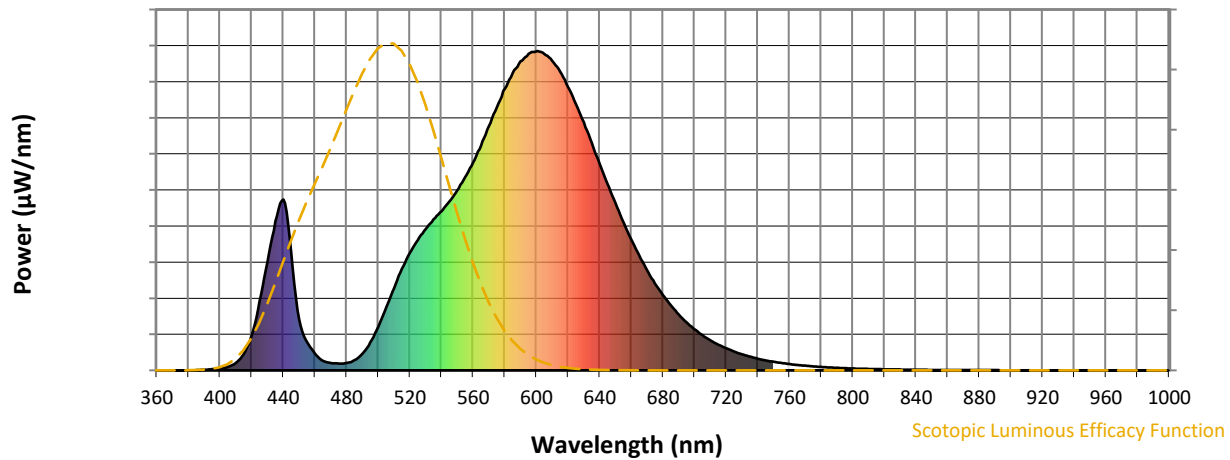


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



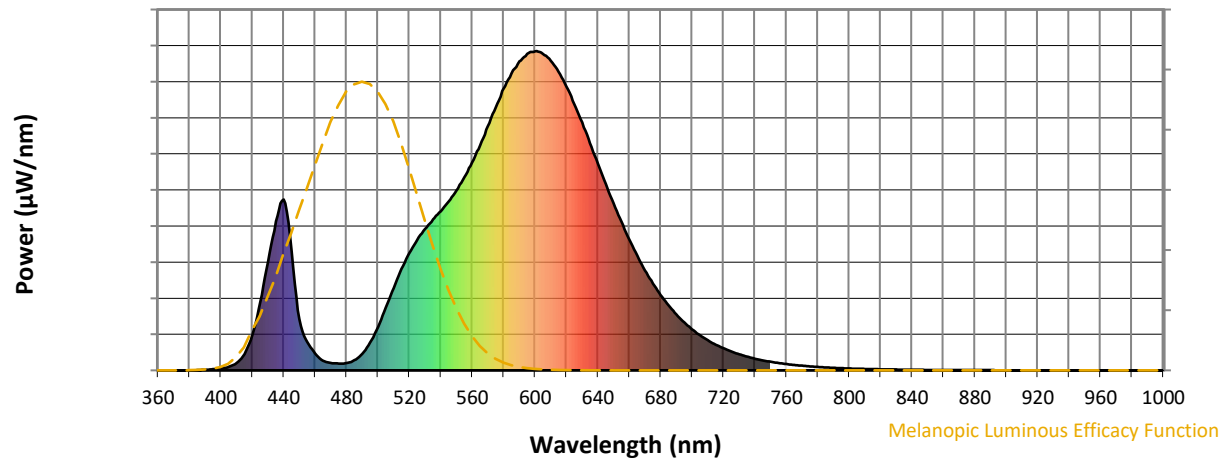
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

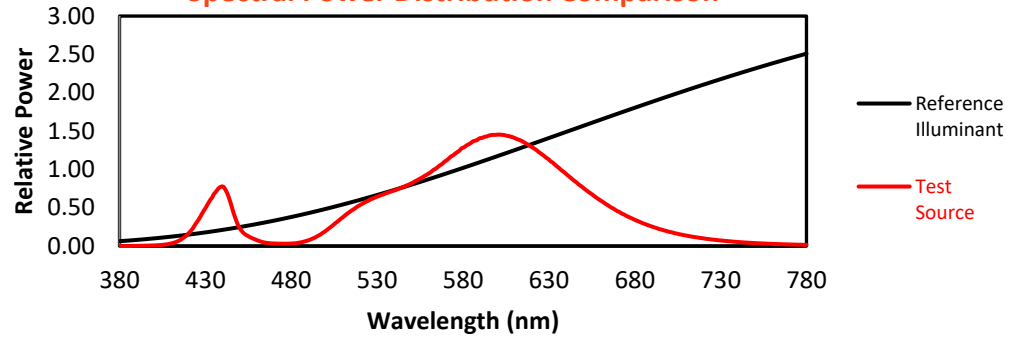
REPORT NUMBER: SP1-2407-184-3

TM-30-18

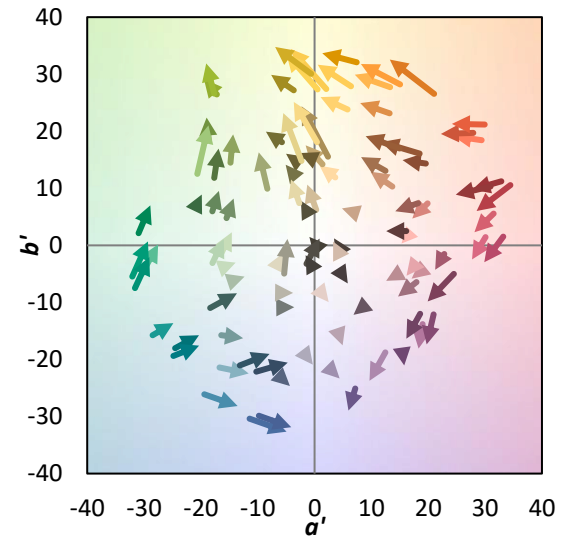
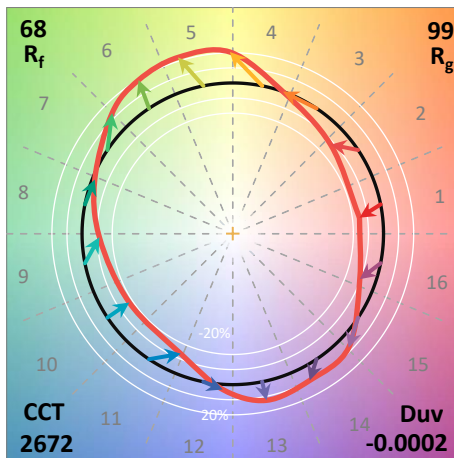
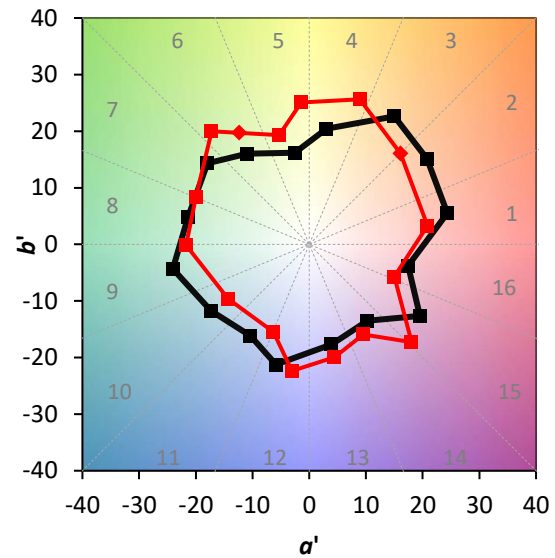
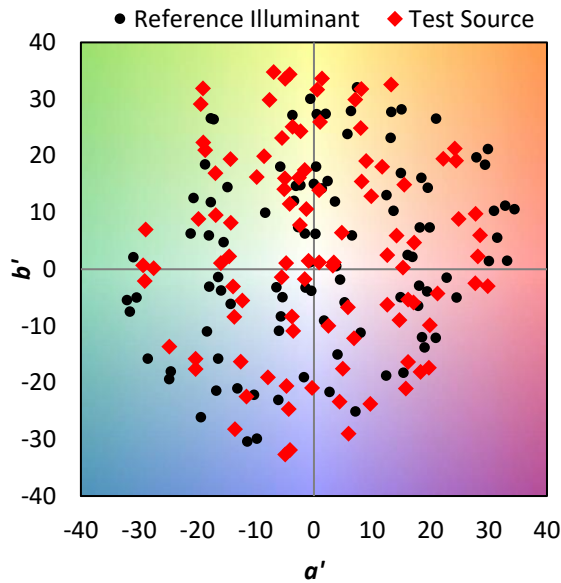
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

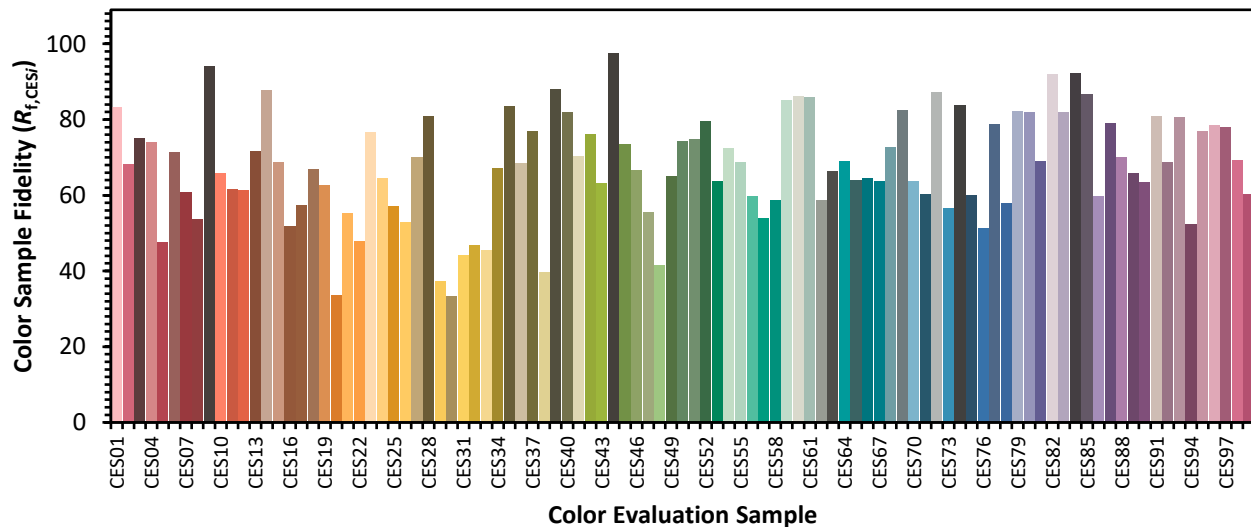


Color Vector Graphics

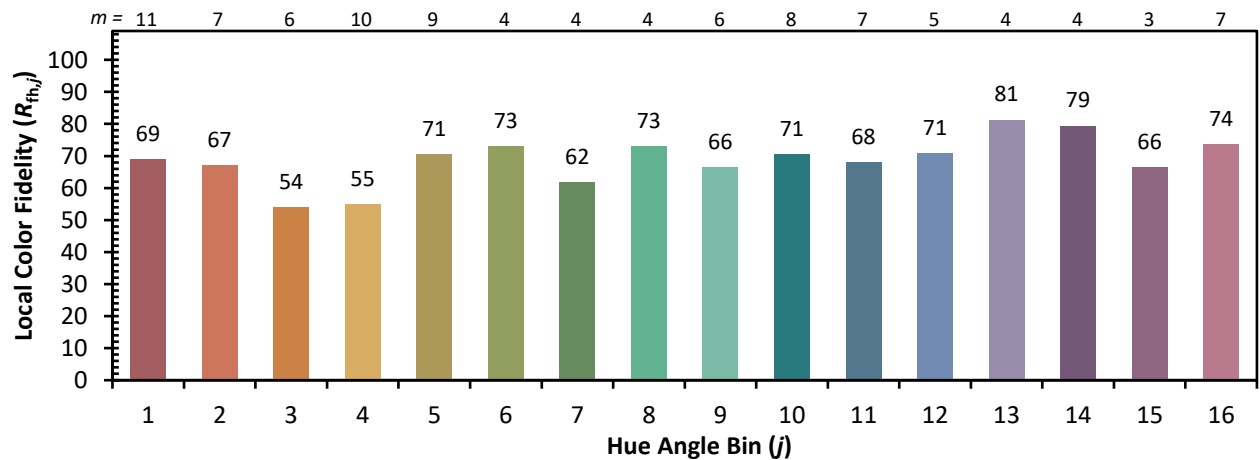
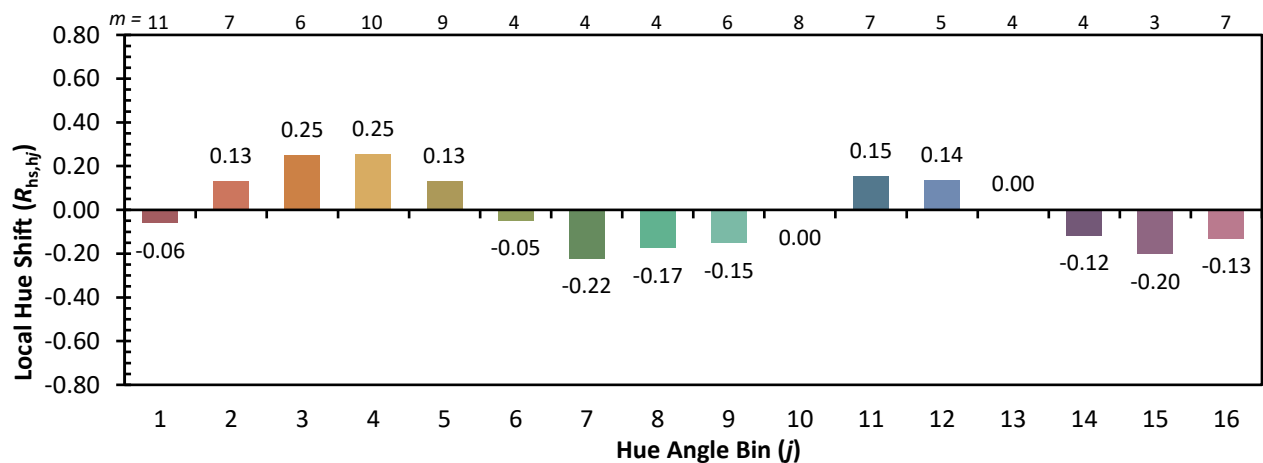
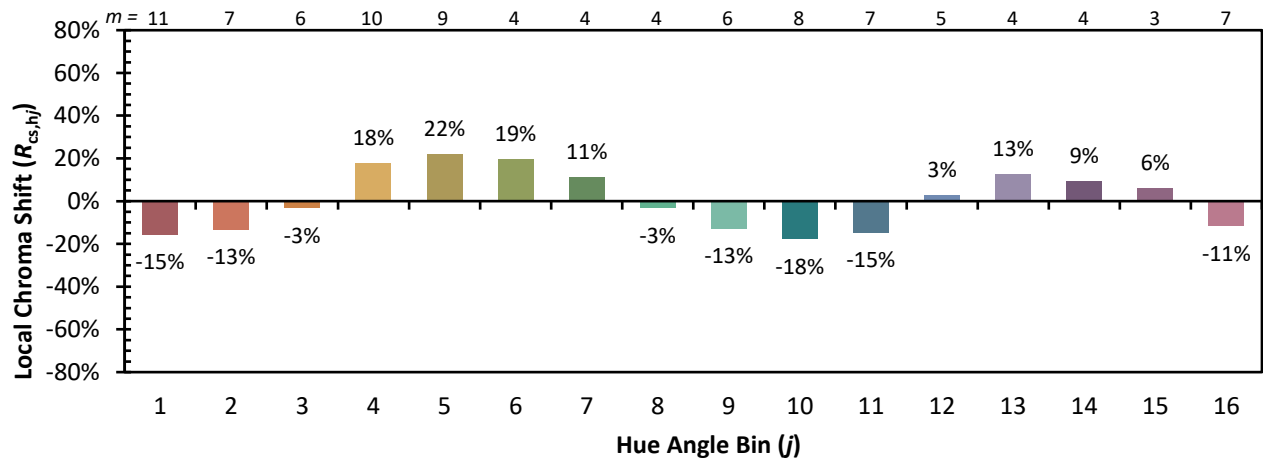


Individual Sample Fidelity Index ($R_{f,i}$)

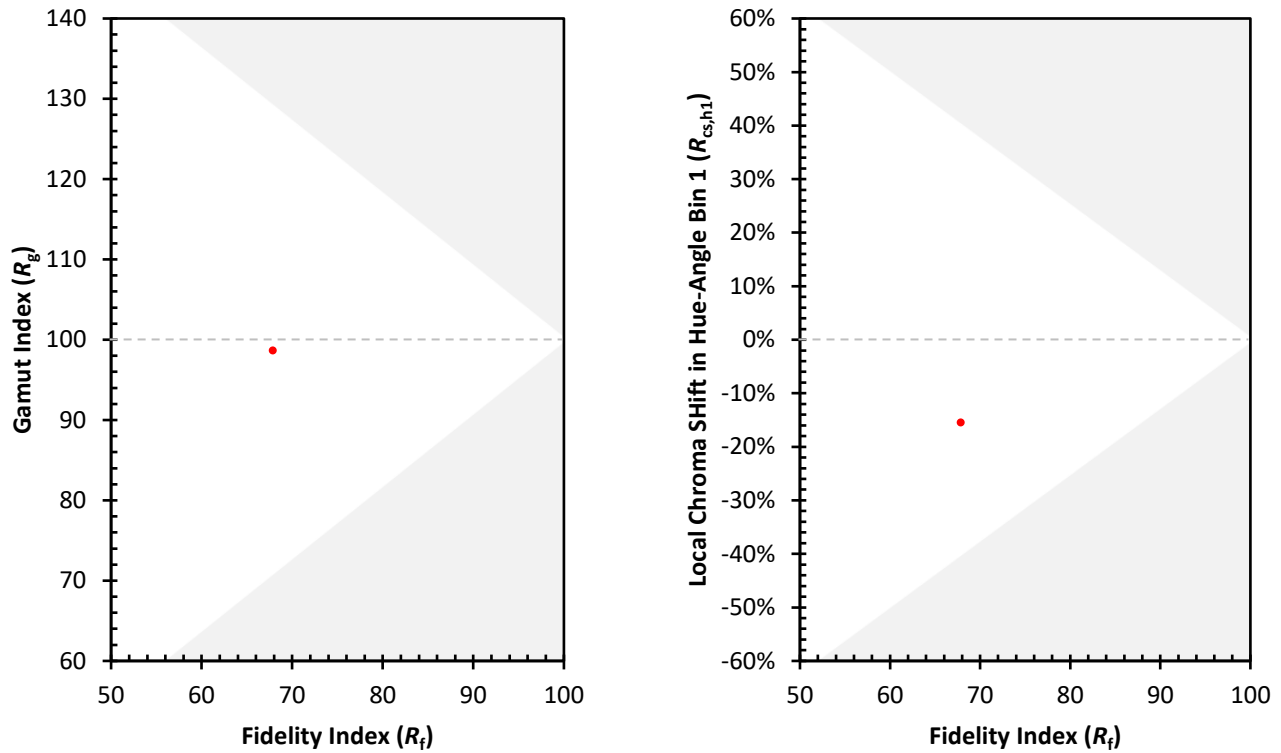
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)