

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: P1067924

Luminaire Tested: **NAV-SA2D-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067924
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 2xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8861.9 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107
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



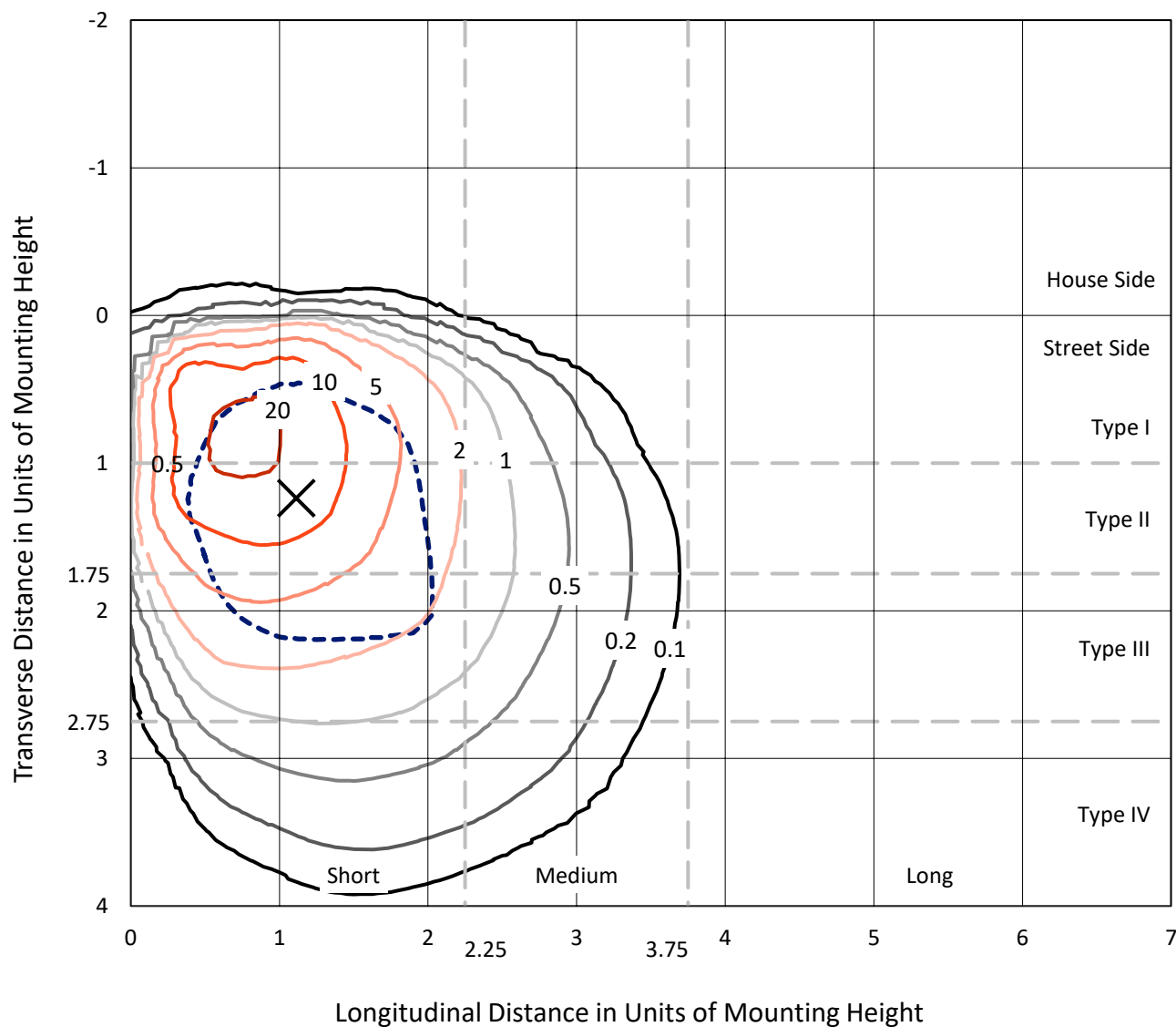
REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

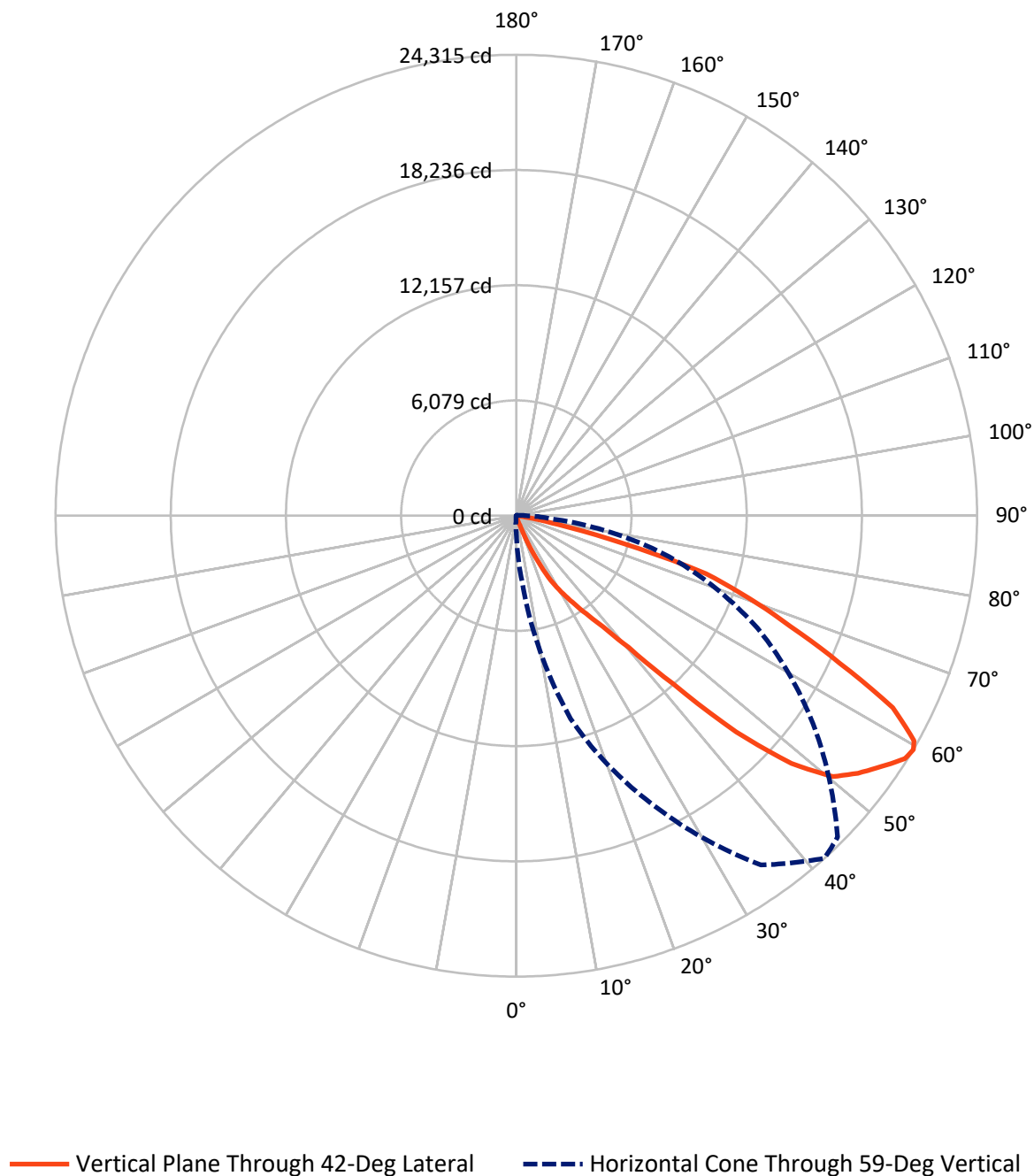


Based on 15 foot mounting height. Maximum calculated value = 26.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

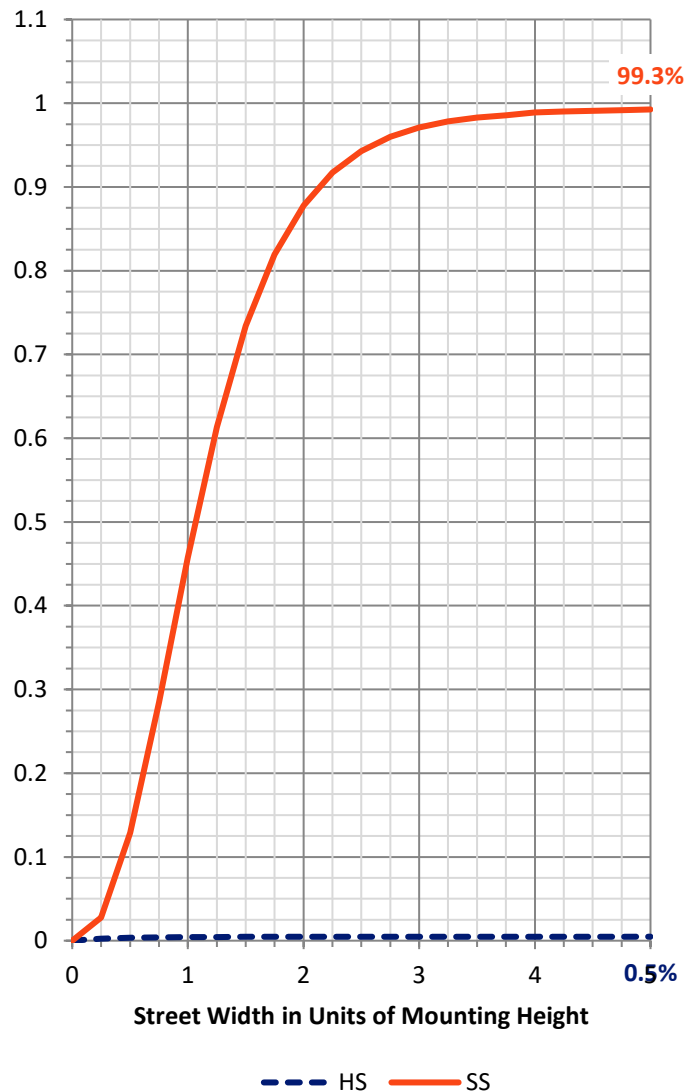
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42.7	0.0	42.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8819.2	0.0	8819.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	8861.9	0.0	8861.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	12.9	0.1
20°-30°	165.3	1.9
30°-40°	557.3	6.3
40°-50°	1683.3	19.0
50°-60°	2971.4	33.5
60°-70°	2616.4	29.5
70°-80°	832.8	9.4
80°-90°	19.9	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°	8861.9	100.0
0°-180°	8861.9	100.0



REPORT NUMBER: P1067924

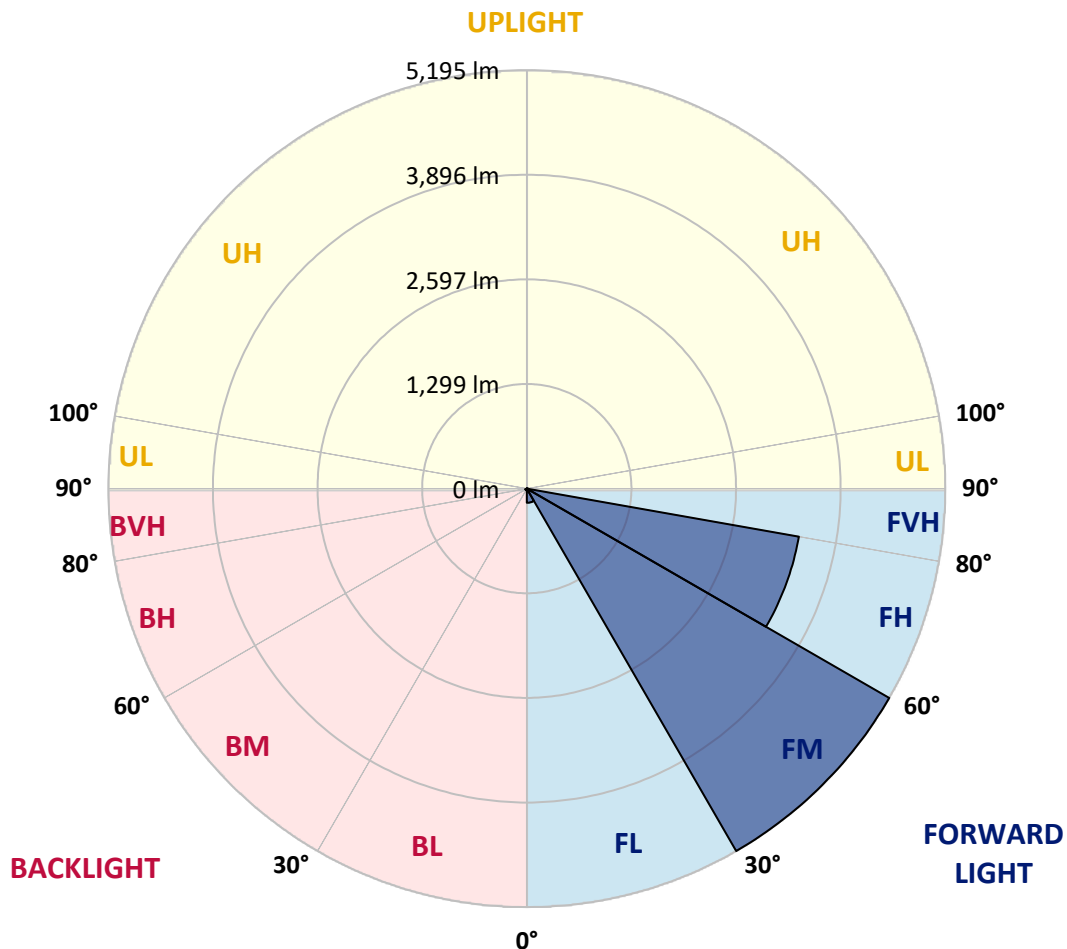
CATALOG NUMBER: NAV-SA2D-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.1	2.0			
FM	(30°-60°)	5194.5	58.6			
FH	(60°-80°)	3429.6	38.7			G2/5000
FVH	(80°-90°)	19.0	0.2			G1/100
BL	(0°-30°)	4.8	0.1	B0/110		
BM	(30°-60°)	17.4	0.2	B0/220		
BH	(60°-80°)	19.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Short



REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	38.9	38.9	36.1	33.3	30.6	27.8	27.8	27.8	25.0	25.0	22.2
5°	44.5	44.5	41.7	38.9	38.9	36.1	36.1	33.3	30.6	30.6	27.8
7.5°	47.2	47.2	47.2	47.2	44.5	44.5	44.5	41.7	38.9	36.1	33.3
10°	50.0	52.8	55.6	55.6	55.6	55.6	55.6	52.8	47.2	44.5	38.9
12.5°	55.6	58.3	63.9	69.5	69.5	72.2	69.5	66.7	61.1	52.8	44.5
15°	61.1	66.7	75.0	86.1	97.2	100.0	100.0	91.7	80.6	63.9	52.8
17.5°	69.5	77.8	100.0	136.1	175.0	205.6	205.6	183.4	127.8	83.4	61.1
20°	75.0	91.7	161.2	327.9	500.1	627.9	602.9	533.5	286.2	130.6	66.7
22.5°	83.4	116.7	341.8	861.3	1333.7	1567.1	1511.5	1147.5	641.8	233.4	80.6
25°	94.5	169.5	678.0	1614.3	2478.4	2731.3	2695.1	2142.2	1169.7	391.8	102.8
27.5°	116.7	250.1	1086.4	2447.9	3656.5	3873.2	3859.3	3136.9	1869.9	630.7	133.4
30°	147.3	364.0	1611.5	3325.9	4437.3	4656.8	4587.3	3864.9	2522.9	964.1	172.3
32.5°	183.4	508.5	2086.7	3973.2	5156.9	5445.9	5362.5	4498.4	3048.0	1247.5	255.6
35°	239.0	650.2	2556.2	4545.6	5987.7	6354.4	6215.5	5151.3	3500.9	1567.1	308.4
37.5°	266.7	733.5	2986.9	5168.0	6921.2	7421.4	7315.8	5976.5	3962.1	1975.5	377.9
40°	269.5	833.5	3434.2	5979.3	8241.0	9132.9	8944.0	7393.6	4820.7	2500.6	486.2
42.5°	277.8	983.6	4014.9	7363.0	10833.4	12114.2	11900.3	9999.8	6768.4	3553.7	689.1
45°	316.7	1267.0	5198.6	9949.8	14392.6	16270.9	16023.6	13631.3	9488.6	5534.8	1175.3
47.5°	452.9	1906.0	7274.1	12742.2	18032.4	19530.0	19468.9	16493.2	11953.1	7565.8	1992.2
50°	728.0	2925.8	9635.8	15090.0	20349.7	21636.1	21483.3	17687.9	13359.0	8952.3	2553.4
52.5°	972.5	3901.0	11119.5	15954.1	21041.5	22575.3	22389.1	18124.1	13728.5	9360.8	2709.0
55°	1033.6	4253.9	11561.3	16220.9	21500.0	23369.9	23100.4	18415.9	13775.8	9069.0	2450.6
57.5°	1003.0	3920.5	11275.1	16482.0	22139.1	24186.8	23828.4	18985.5	13934.2	8574.4	2039.4
59°	950.2	3509.2	11097.3	16690.4	22491.9	24314.6	23978.4	19110.5	14039.7	8349.4	1789.4
60°	889.1	3231.4	10958.4	16826.6	22469.7	24114.6	23767.3	19052.1	14081.4	8154.9	1669.9
62.5°	686.3	2578.4	10758.3	16729.3	21066.6	22289.1	22091.8	17624.0	13470.1	7532.5	1317.0
65°	533.5	1972.7	10024.8	14920.5	17926.9	18749.3	18688.2	14923.3	11336.3	6493.3	950.2
67.5°	422.3	1439.3	8477.2	12083.7	14423.2	15592.9	15548.5	12114.2	8605.0	4962.4	683.5
70°	344.5	1025.3	5812.6	9110.7	11536.3	13008.9	12945.0	9749.7	6376.6	3148.0	497.4
72.5°	291.7	655.7	3525.9	6868.4	9627.5	10469.4	10283.2	7865.9	4637.3	1714.3	394.5
75°	247.3	402.9	1747.7	4281.7	5734.8	5729.3	5543.1	4165.0	2489.5	839.1	314.0
77.5°	200.1	283.4	686.3	1175.3	1808.8	2239.5	2203.3	1475.4	744.6	244.5	194.5
80°	130.6	133.4	183.4	322.3	497.4	550.1	625.2	450.1	216.7	116.7	80.6
82.5°	58.3	63.9	83.4	105.6	105.6	97.2	86.1	63.9	47.2	38.9	19.4
85°	13.9	19.4	13.9	16.7	13.9	11.1	11.1	5.6	0.0	0.0	0.0
87.5°	2.8	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

REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	22.2	22.2	22.2	19.4	19.4	19.4	16.7	16.7	16.7	13.9	13.9
5°	27.8	25.0	22.2	22.2	19.4	19.4	16.7	13.9	13.9	13.9	11.1
7.5°	30.6	27.8	25.0	22.2	19.4	16.7	16.7	13.9	11.1	11.1	11.1
10°	36.1	33.3	27.8	22.2	19.4	16.7	13.9	13.9	11.1	8.3	8.3
12.5°	41.7	36.1	30.6	25.0	19.4	16.7	13.9	13.9	11.1	8.3	5.6
15°	47.2	41.7	33.3	25.0	19.4	16.7	13.9	13.9	8.3	5.6	2.8
17.5°	52.8	44.5	33.3	27.8	19.4	16.7	13.9	11.1	5.6	2.8	0.0
20°	55.6	47.2	36.1	27.8	19.4	16.7	13.9	8.3	2.8	0.0	0.0
22.5°	61.1	52.8	38.9	27.8	19.4	13.9	8.3	2.8	0.0	0.0	0.0
25°	72.2	55.6	38.9	27.8	19.4	13.9	5.6	0.0	0.0	0.0	0.0
27.5°	80.6	61.1	38.9	27.8	19.4	11.1	2.8	0.0	0.0	0.0	0.0
30°	94.5	66.7	41.7	27.8	19.4	8.3	2.8	0.0	0.0	0.0	0.0
32.5°	116.7	72.2	41.7	27.8	16.7	8.3	0.0	0.0	0.0	0.0	0.0
35°	141.7	83.4	41.7	27.8	16.7	8.3	0.0	0.0	0.0	0.0	0.0
37.5°	144.5	88.9	41.7	27.8	16.7	5.6	0.0	0.0	0.0	0.0	0.0
40°	150.0	83.4	44.5	27.8	16.7	5.6	0.0	0.0	0.0	0.0	0.0
42.5°	172.3	77.8	47.2	27.8	16.7	5.6	0.0	0.0	0.0	0.0	0.0
45°	255.6	80.6	47.2	30.6	16.7	8.3	0.0	0.0	0.0	0.0	0.0
47.5°	444.6	83.4	44.5	30.6	16.7	8.3	0.0	0.0	0.0	0.0	0.0
50°	569.6	97.2	44.5	33.3	19.4	5.6	0.0	0.0	0.0	0.0	0.0
52.5°	605.7	113.9	44.5	36.1	25.0	2.8	0.0	0.0	0.0	0.0	0.0
55°	589.0	133.4	47.2	38.9	30.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	544.6	144.5	50.0	41.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	497.4	152.8	58.3	44.5	33.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	458.5	161.2	61.1	47.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	369.5	172.3	66.7	55.6	27.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	322.3	180.6	69.5	61.1	25.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	294.5	186.2	75.0	63.9	22.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	272.3	183.4	80.6	61.1	19.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	247.3	175.0	97.2	55.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	222.3	158.4	105.6	50.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	161.2	133.4	97.2	44.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.5	72.2	69.5	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.9	16.7	13.9	8.3	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



REPORT NUMBER: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	13.9	13.9	13.9	13.9	16.7	16.7	22.2	27.8	33.3	36.1	36.1
5°	11.1	11.1	11.1	11.1	11.1	13.9	16.7	22.2	30.6	33.3	33.3
7.5°	8.3	8.3	8.3	8.3	8.3	8.3	13.9	19.4	27.8	30.6	33.3
10°	8.3	5.6	5.6	2.8	2.8	5.6	8.3	16.7	25.0	27.8	30.6
12.5°	5.6	2.8	2.8	0.0	0.0	2.8	5.6	13.9	22.2	25.0	27.8
15°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	11.1	19.4	22.2	27.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7	22.2	25.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	13.9	19.4	22.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.1	16.7	19.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	11.1	13.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.3	11.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.3	11.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	5.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
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: P1067924

CATALOG NUMBER: NAV-SA2D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	38.9	38.9	36.1	33.3	33.3	33.3	36.1	38.9	38.9	38.9
5°	36.1	36.1	33.3	33.3	33.3	33.3	36.1	41.7	44.5	44.5
7.5°	36.1	36.1	33.3	33.3	33.3	33.3	36.1	41.7	44.5	47.2
10°	33.3	33.3	33.3	33.3	30.6	33.3	36.1	41.7	50.0	50.0
12.5°	33.3	33.3	33.3	33.3	30.6	33.3	38.9	44.5	52.8	55.6
15°	33.3	33.3	33.3	30.6	30.6	33.3	38.9	47.2	55.6	61.1
17.5°	30.6	33.3	33.3	30.6	30.6	33.3	38.9	47.2	61.1	69.5
20°	27.8	30.6	33.3	30.6	30.6	30.6	38.9	47.2	63.9	75.0
22.5°	25.0	27.8	30.6	30.6	27.8	30.6	38.9	50.0	69.5	83.4
25°	22.2	25.0	25.0	27.8	27.8	30.6	38.9	50.0	72.2	94.5
27.5°	16.7	19.4	22.2	25.0	25.0	30.6	38.9	52.8	77.8	116.7
30°	13.9	16.7	19.4	22.2	25.0	30.6	38.9	52.8	83.4	147.3
32.5°	13.9	16.7	19.4	22.2	25.0	27.8	38.9	55.6	91.7	183.4
35°	11.1	13.9	16.7	22.2	22.2	27.8	38.9	55.6	100.0	239.0
37.5°	11.1	13.9	16.7	22.2	22.2	27.8	38.9	55.6	122.3	266.7
40°	8.3	11.1	13.9	22.2	22.2	27.8	41.7	58.3	125.0	269.5
42.5°	8.3	11.1	13.9	19.4	22.2	27.8	41.7	58.3	116.7	277.8
45°	8.3	11.1	13.9	22.2	25.0	30.6	41.7	61.1	113.9	316.7
47.5°	8.3	11.1	13.9	22.2	27.8	30.6	41.7	61.1	116.7	452.9
50°	8.3	11.1	13.9	22.2	30.6	30.6	41.7	61.1	127.8	728.0
52.5°	5.6	8.3	11.1	19.4	25.0	33.3	44.5	58.3	136.1	972.5
55°	5.6	5.6	8.3	16.7	22.2	36.1	47.2	58.3	158.4	1033.6
57.5°	5.6	5.6	8.3	13.9	19.4	38.9	50.0	58.3	183.4	1003.0
59°	5.6	5.6	5.6	13.9	16.7	38.9	50.0	61.1	186.2	950.2
60°	5.6	5.6	5.6	11.1	16.7	38.9	52.8	63.9	188.9	889.1
62.5°	2.8	2.8	2.8	11.1	13.9	38.9	58.3	77.8	194.5	686.3
65°	5.6	5.6	2.8	8.3	13.9	33.3	66.7	83.4	197.3	533.5
67.5°	5.6	5.6	5.6	11.1	13.9	33.3	69.5	86.1	197.3	422.3
70°	5.6	5.6	5.6	11.1	16.7	33.3	69.5	88.9	194.5	344.5
72.5°	5.6	5.6	5.6	11.1	16.7	30.6	63.9	91.7	186.2	291.7
75°	5.6	5.6	5.6	8.3	13.9	27.8	61.1	100.0	169.5	247.3
77.5°	5.6	5.6	5.6	5.6	11.1	22.2	55.6	111.1	150.0	200.1
80°	8.3	5.6	5.6	5.6	8.3	19.4	52.8	108.4	125.0	130.6
82.5°	8.3	5.6	5.6	2.8	5.6	13.9	41.7	83.4	63.9	58.3
85°	5.6	5.6	5.6	2.8	2.8	8.3	19.4	25.0	19.4	13.9
87.5°	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: SP1-2407-184-3

Test Date: 10/09/2024

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

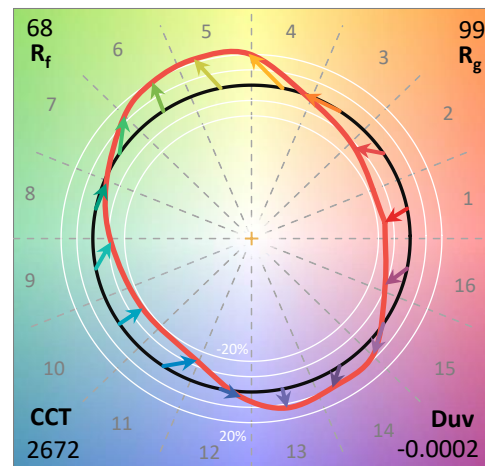
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

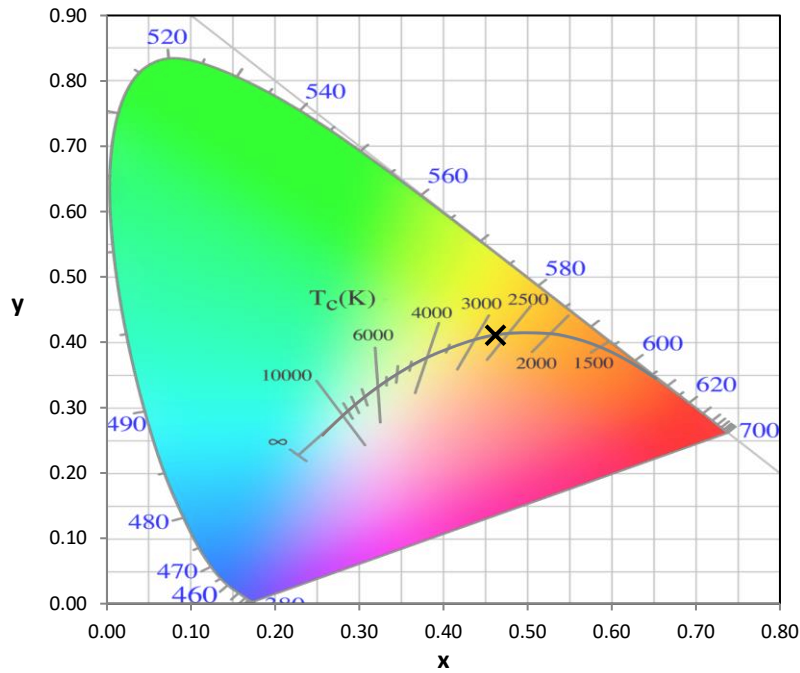
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

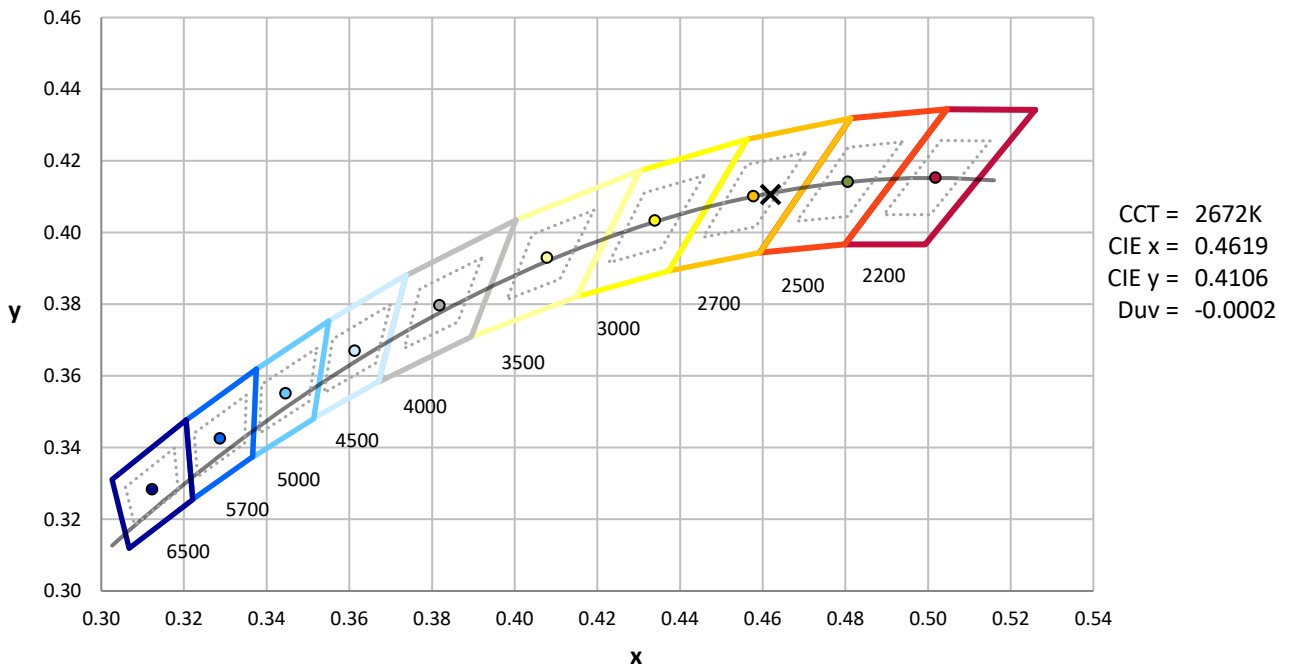
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



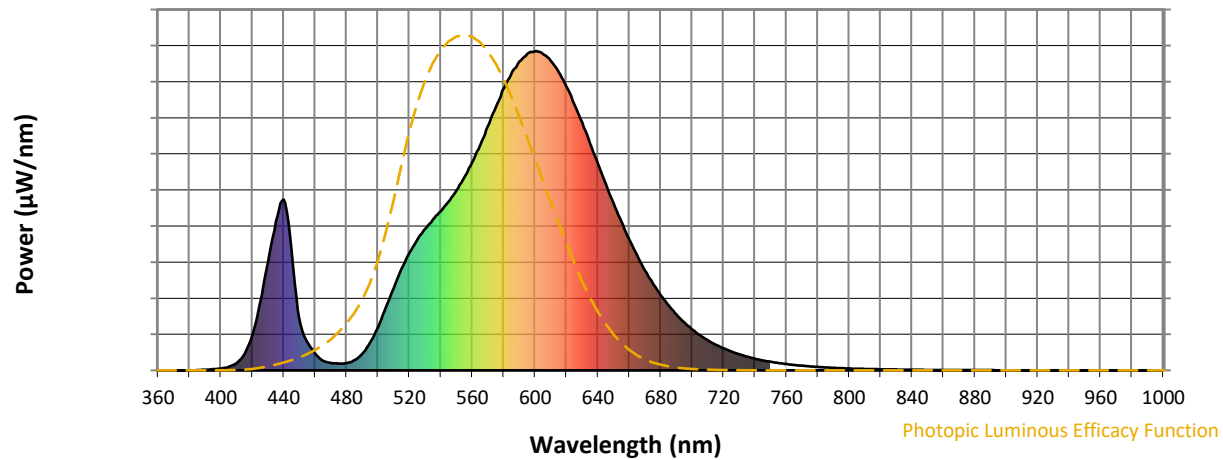
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

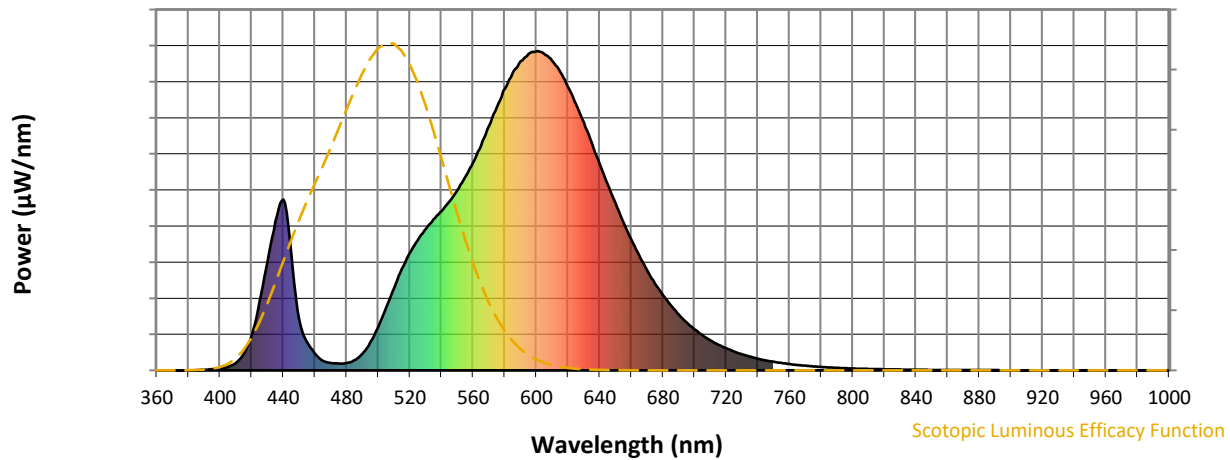


Photopic Lumens: NR

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	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



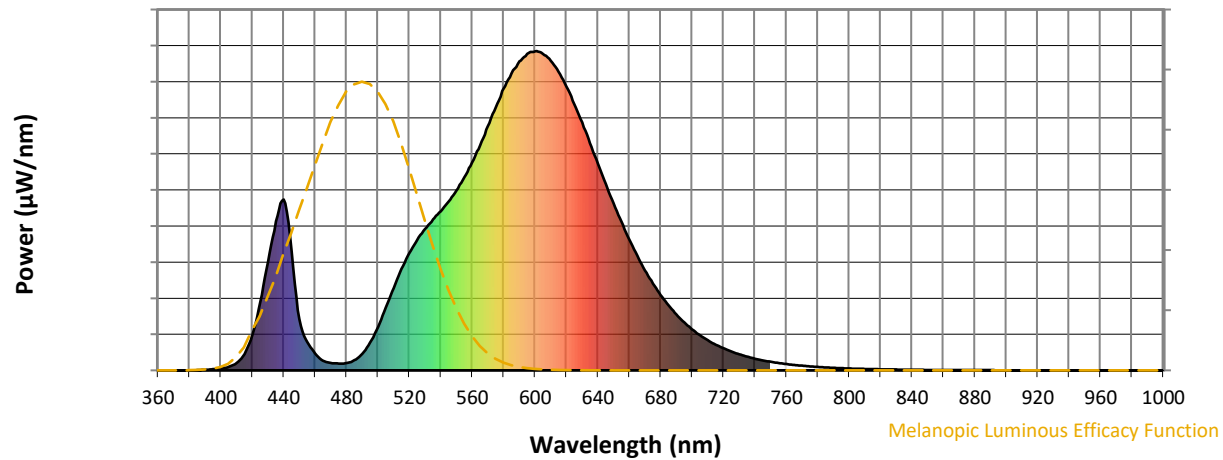
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-3

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			

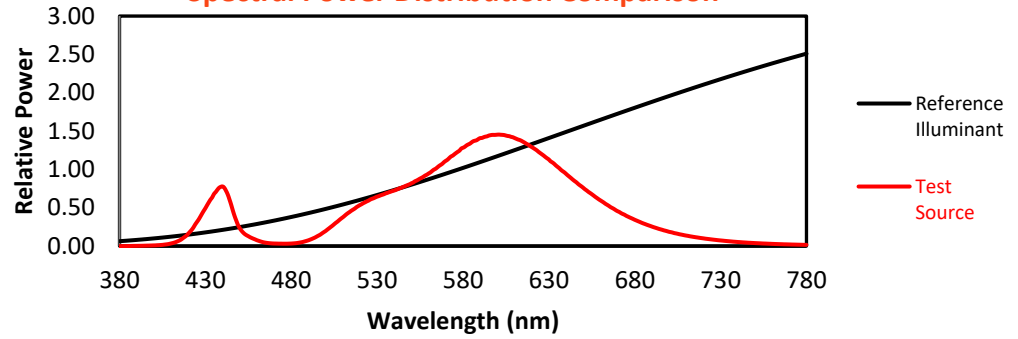
REPORT NUMBER: SP1-2407-184-3

TM-30-18

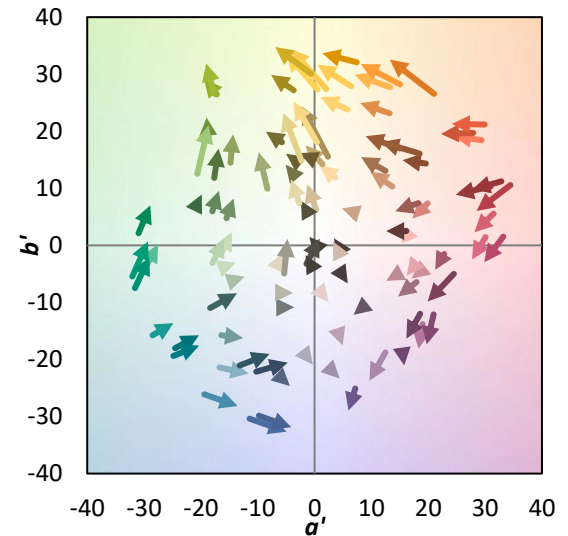
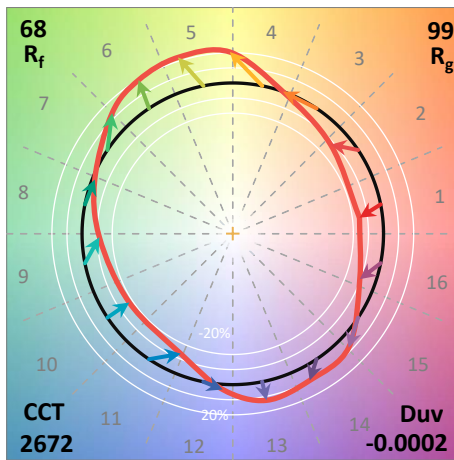
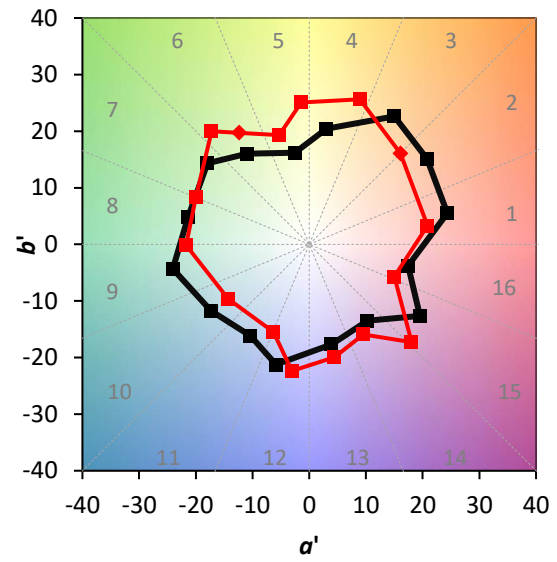
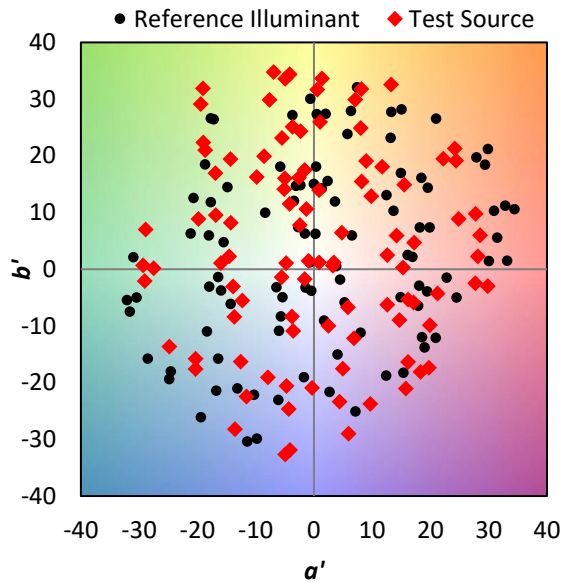
Summary

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

Spectral Power Distribution Comparison

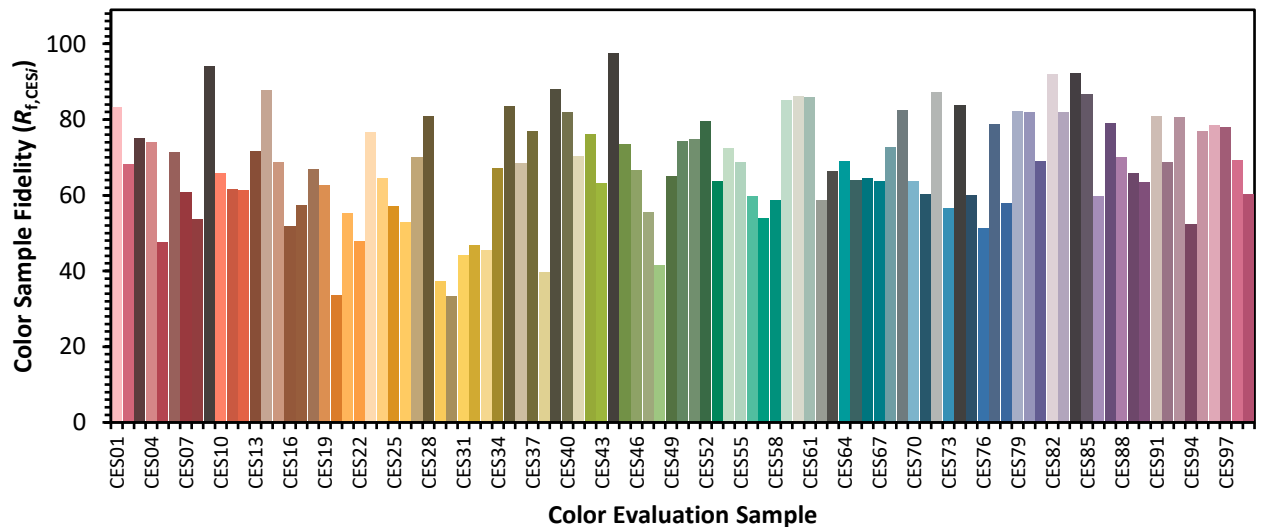


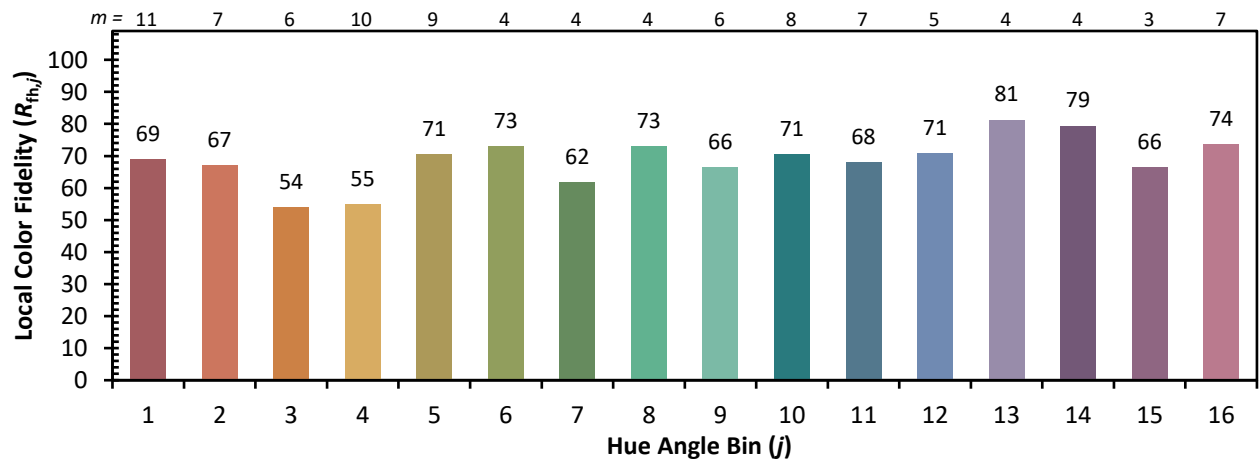
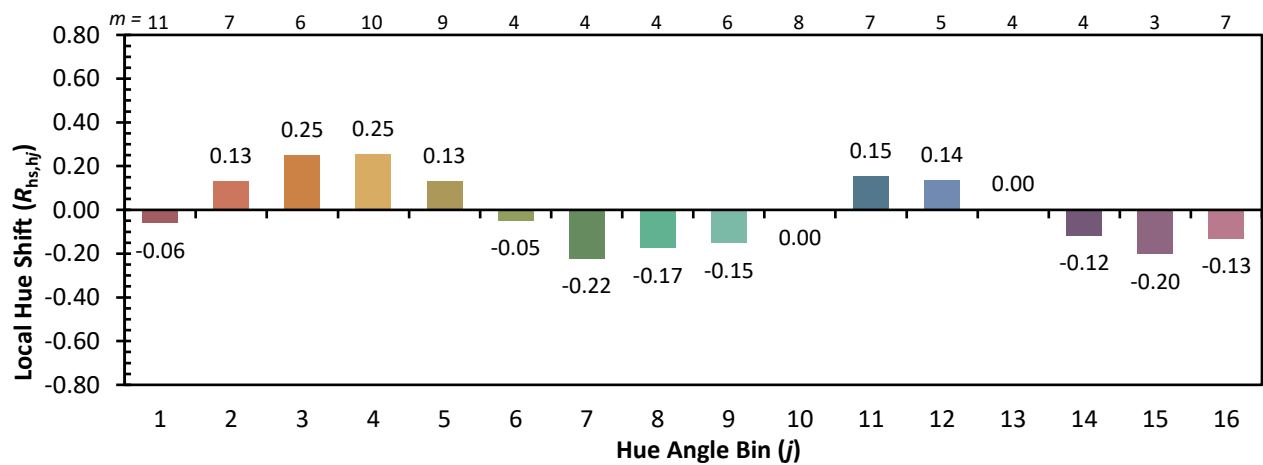
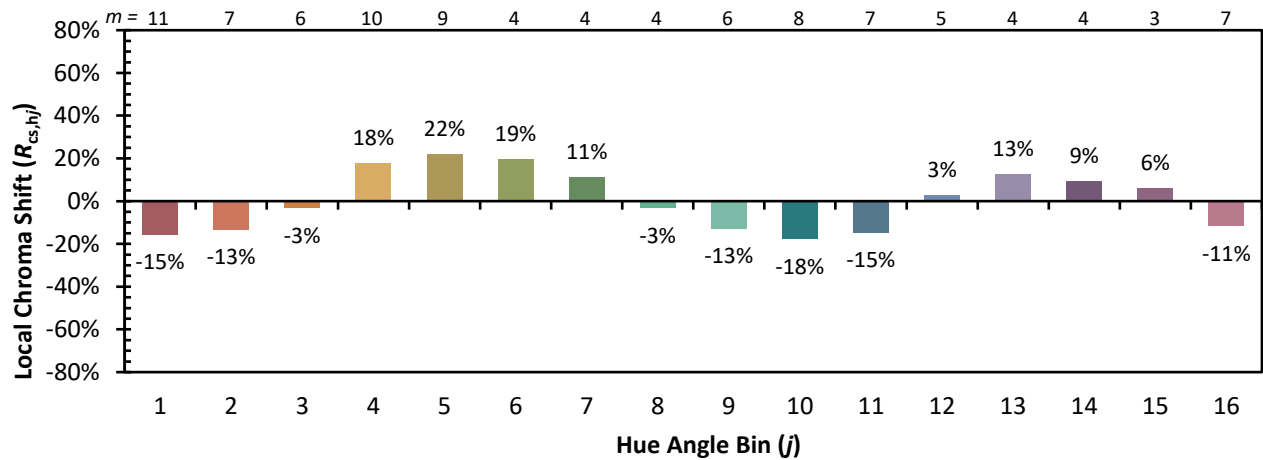
Color Vector Graphics



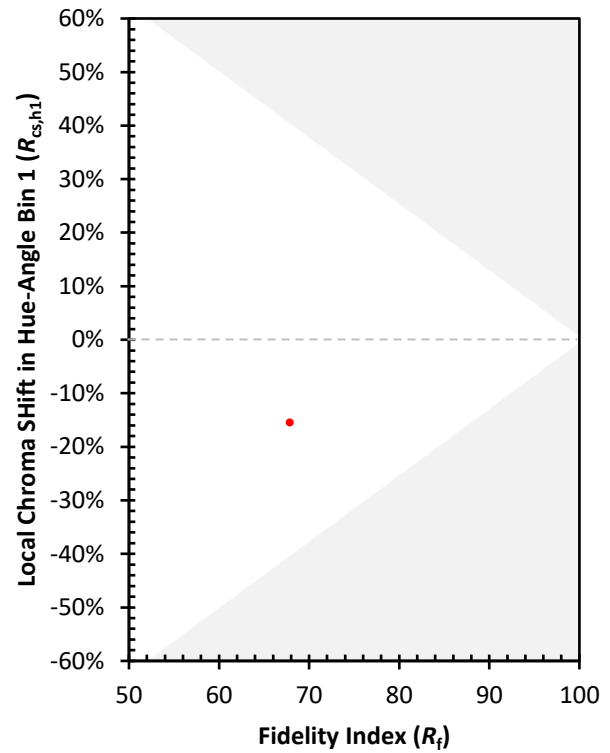
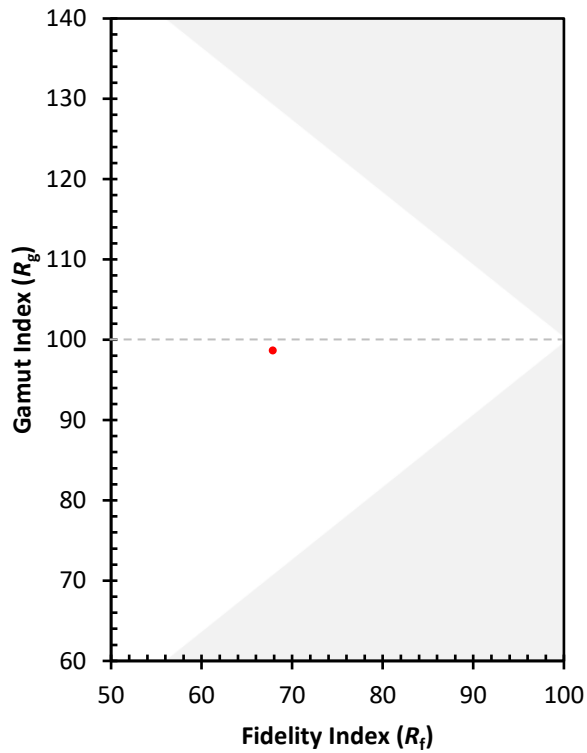
Individual Sample Fidelity Index ($R_{f,i}$)

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)