

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: P1067962

Luminaire Tested: **NAV-SA6B-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067962
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21017.5 lumens
Efficiency: N/A
Efficacy: 99.6 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): 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

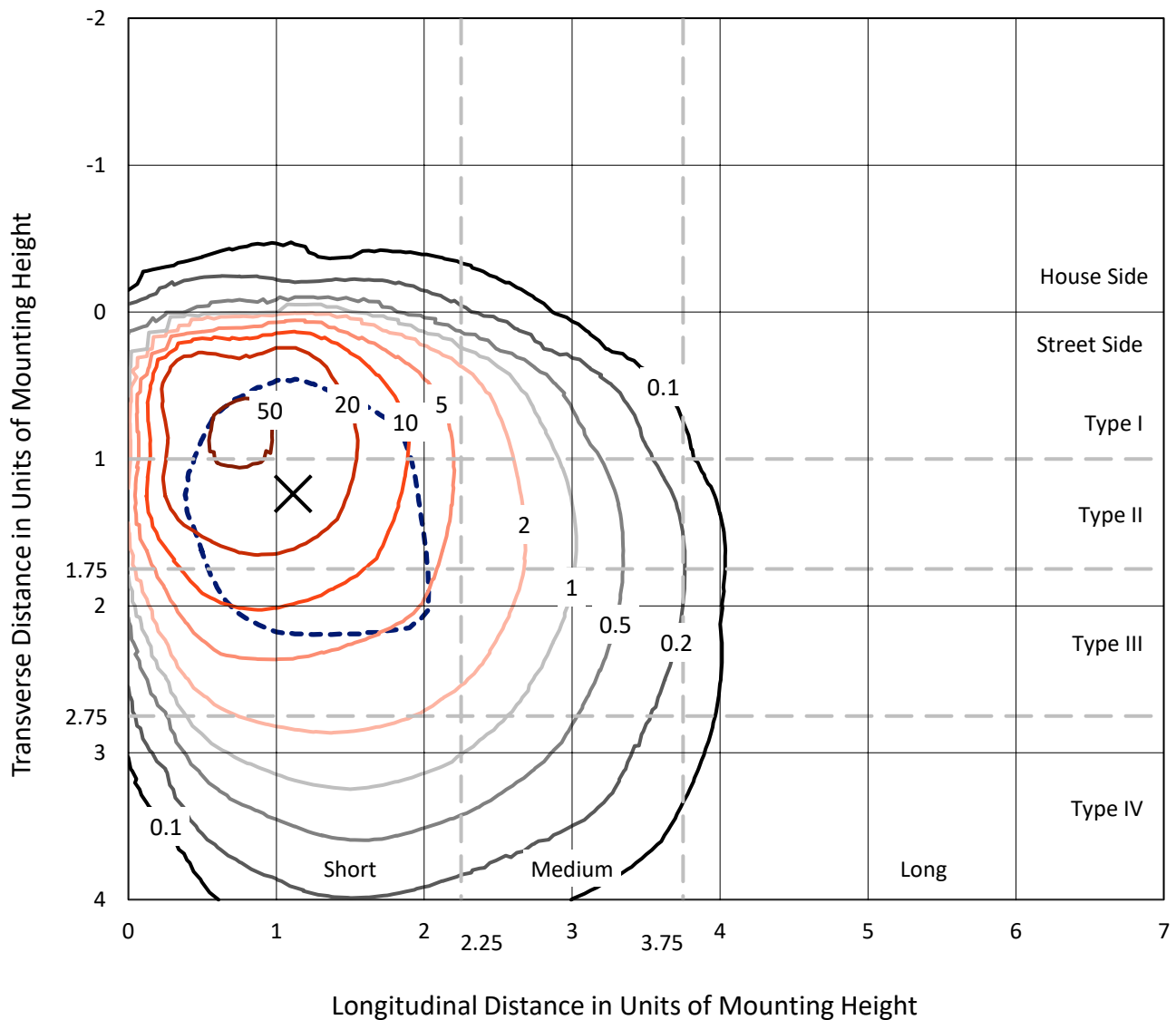


REPORT NUMBER: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

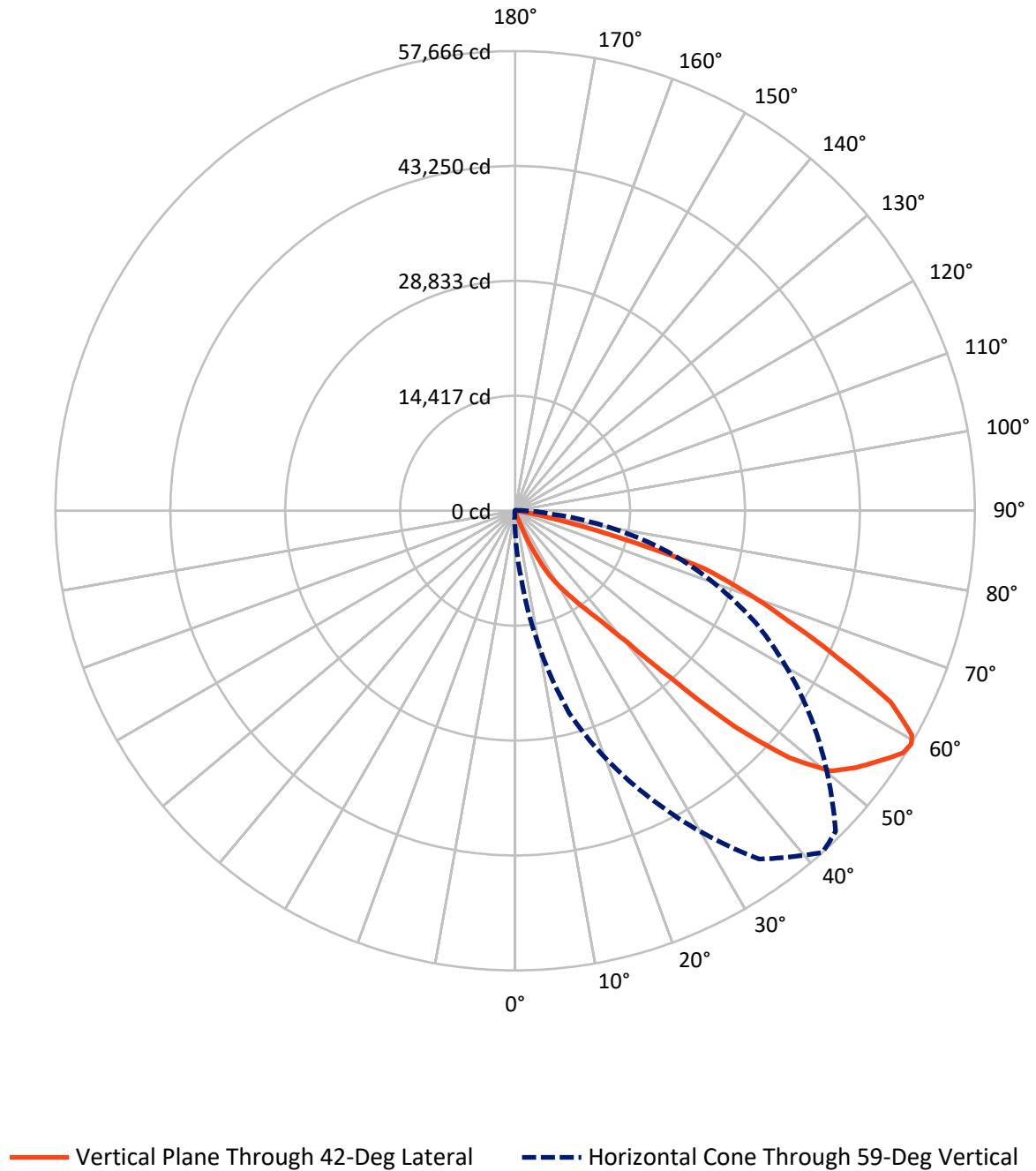


Based on 15 foot mounting height. Maximum calculated value = 62.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067962

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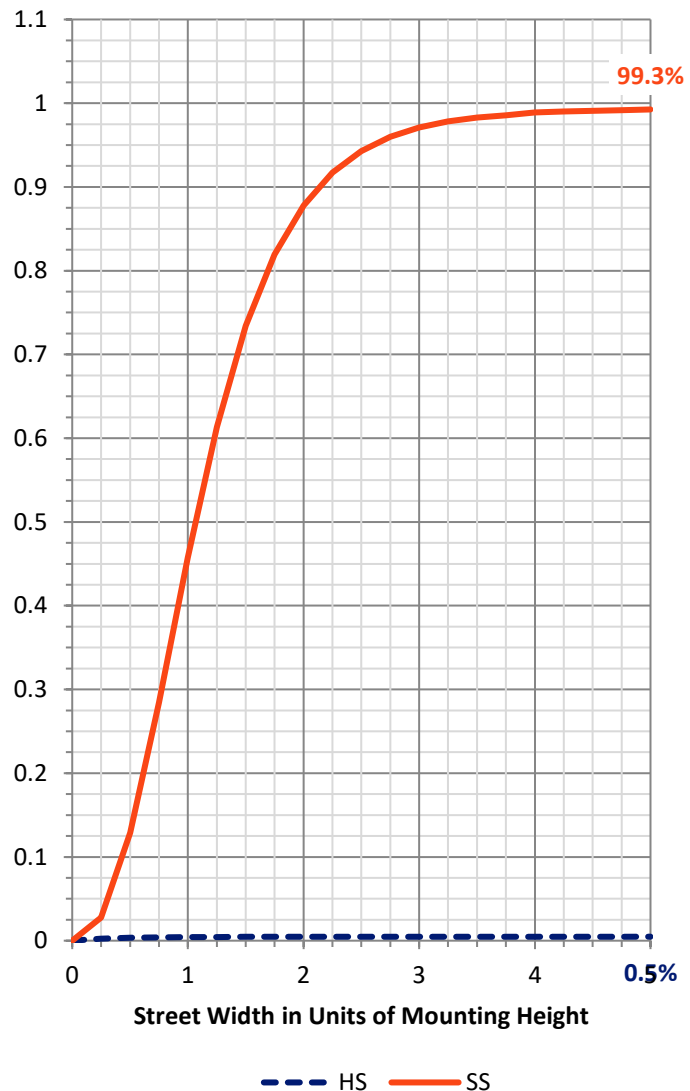
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	101.3	0.0	101.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	20916.2	0.0	20916.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	21017.5	0.0	21017.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	30.6	0.1
20°-30°	392.0	1.9
30°-40°	1321.7	6.3
40°-50°	3992.2	19.0
50°-60°	7047.2	33.5
60°-70°	6205.2	29.5
70°-80°	1975.1	9.4
80°-90°	47.3	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°	21017.5	100.0
0°-180°	21017.5	100.0



REPORT NUMBER: P1067962

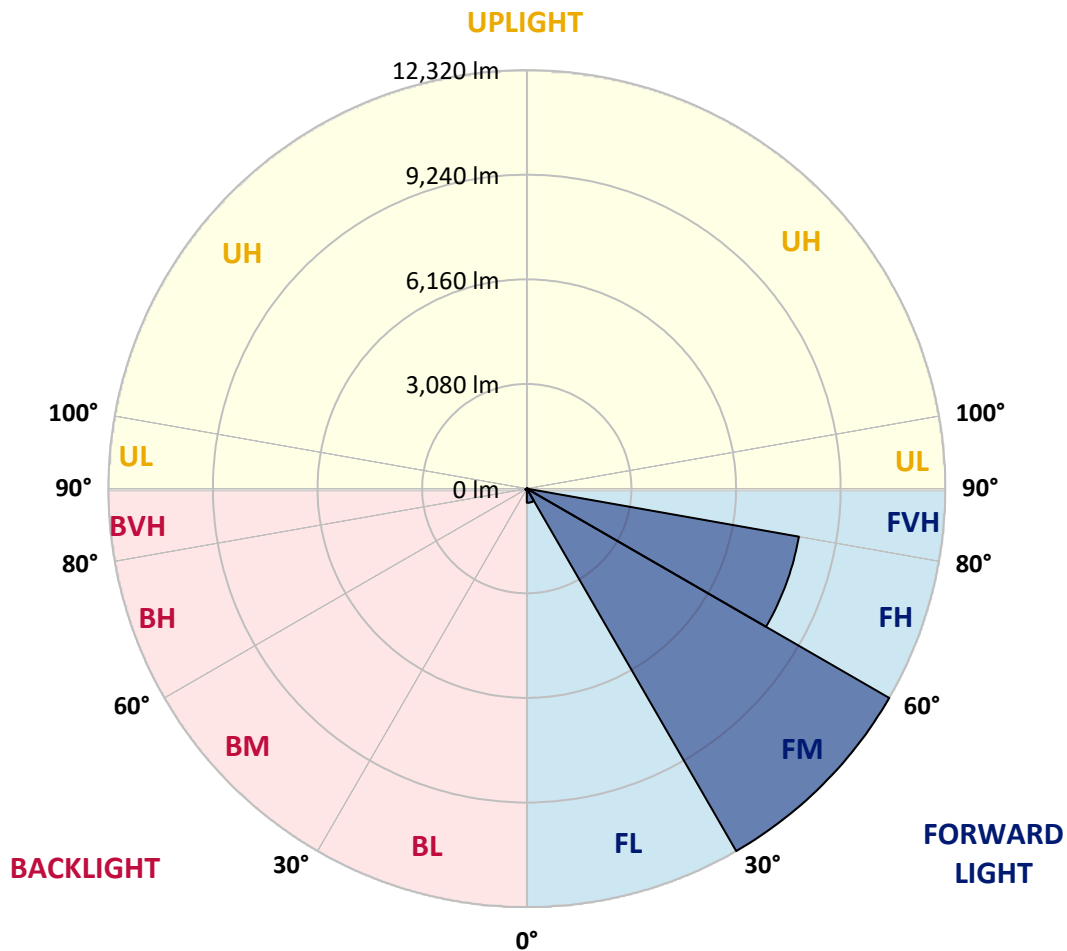
CATALOG NUMBER: NAV-SA6B-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.5	2.0			
FM	(30°-60°)	12319.7	58.6			
FH	(60°-80°)	8134.0	38.7			G4/12000
FVH	(80°-90°)	45.0	0.2			G1/100
BL	(0°-30°)	11.3	0.1	B0/110		
BM	(30°-60°)	41.4	0.2	B0/220		
BH	(60°-80°)	46.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



REPORT NUMBER: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	92.3	92.3	85.7	79.1	72.5	65.9	65.9	65.9	59.3	59.3	52.7
5°	105.4	105.4	98.8	92.3	92.3	85.7	85.7	79.1	72.5	72.5	65.9
7.5°	112.0	112.0	112.0	112.0	105.4	105.4	105.4	98.8	92.3	85.7	79.1
10°	118.6	125.2	131.8	131.8	131.8	131.8	131.8	125.2	112.0	105.4	92.3
12.5°	131.8	138.4	151.6	164.7	164.7	171.3	164.7	158.2	145.0	125.2	105.4
15°	145.0	158.2	177.9	204.3	230.6	237.2	237.2	217.5	191.1	151.6	125.2
17.5°	164.7	184.5	237.2	322.9	415.2	487.6	487.6	434.9	303.1	197.7	145.0
20°	177.9	217.5	382.2	777.6	1186.1	1489.3	1430.0	1265.2	678.7	309.7	158.2
22.5°	197.7	276.8	810.5	2042.8	3163.0	3716.6	3584.8	2721.5	1522.2	553.5	191.1
25°	224.0	402.0	1607.9	3828.6	5878.0	6477.7	6392.0	5080.6	2774.3	929.1	243.8
27.5°	276.8	593.1	2576.6	5805.5	8672.0	9186.0	9153.1	7439.8	4434.9	1495.9	316.3
30°	349.3	863.2	3822.0	7887.9	10523.7	11044.3	10879.6	9166.3	5983.4	2286.6	408.6
32.5°	434.9	1205.9	4948.9	9423.2	12230.5	12915.8	12718.1	10668.7	7228.9	2958.8	606.3
35°	566.7	1542.0	6062.5	10780.7	14200.8	15070.6	14741.1	12217.3	8303.0	3716.6	731.5
37.5°	632.6	1739.7	7083.9	12256.8	16414.9	17601.0	17350.6	14174.4	9396.9	4685.3	896.2
40°	639.2	1976.9	8144.8	14181.0	19545.0	21660.3	21212.2	17535.1	11433.1	5930.7	1153.2
42.5°	659.0	2332.7	9522.1	17462.7	25693.2	28731.0	28223.6	23716.3	16052.5	8428.2	1634.2
45°	751.2	3004.9	12329.3	23597.7	34134.6	38589.2	38002.7	32329.0	22503.8	13126.7	2787.4
47.5°	1074.1	4520.5	17251.8	30220.3	42767.0	46318.9	46173.9	39116.4	28348.8	17943.7	4724.8
50°	1726.5	6938.9	22853.0	35788.6	48262.8	51313.9	50951.4	41949.9	31683.2	21232.0	6055.9
52.5°	2306.4	9251.9	26371.9	37838.0	49903.7	53541.2	53099.7	42984.5	32559.6	22200.6	6424.9
55°	2451.4	10088.8	27419.7	38470.6	50991.0	55425.8	54786.6	43676.4	32671.7	21508.7	5812.1
57.5°	2378.9	9298.0	26740.9	39090.0	52506.6	57363.2	56513.1	45027.3	33047.3	20335.8	4836.8
59°	2253.7	8322.8	26319.2	39584.2	53343.5	57666.3	56869.0	45323.8	33297.7	19802.0	4243.8
60°	2108.7	7663.8	25989.7	39907.1	53290.8	57191.9	56368.2	45185.5	33396.5	19340.7	3960.4
62.5°	1627.7	6115.2	25515.3	39676.5	49963.0	52862.4	52394.6	41798.4	31946.8	17864.6	3123.5
65°	1265.2	4678.7	23775.6	35386.6	42516.6	44467.2	44322.2	35393.2	26885.9	15400.1	2253.7
67.5°	1001.6	3413.5	20105.1	28658.5	34207.1	36981.3	36875.9	28731.0	20408.3	11769.2	1621.1
70°	817.1	2431.6	13785.6	21607.6	27360.4	30852.9	30701.3	23123.2	15123.3	7466.1	1179.6
72.5°	691.9	1555.2	8362.3	16289.7	22833.3	24829.9	24388.4	18655.4	10998.2	4065.8	935.7
75°	586.5	955.5	4144.9	10154.7	13601.1	13587.9	13146.4	9877.9	5904.4	1990.1	744.6
77.5°	474.5	672.1	1627.7	2787.4	4289.9	5311.3	5225.6	3499.1	1766.0	579.9	461.3
80°	309.7	316.3	434.9	764.4	1179.6	1304.8	1482.7	1067.5	514.0	276.8	191.1
82.5°	138.4	151.6	197.7	250.4	250.4	230.6	204.3	151.6	112.0	92.3	46.1
85°	32.9	46.1	32.9	39.5	32.9	26.4	26.4	13.2	0.0	0.0	0.0
87.5°	6.6	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: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	52.7	52.7	52.7	46.1	46.1	46.1	39.5	39.5	39.5	32.9	32.9
5°	65.9	59.3	52.7	52.7	46.1	46.1	39.5	32.9	32.9	32.9	26.4
7.5°	72.5	65.9	59.3	52.7	46.1	39.5	39.5	32.9	26.4	26.4	26.4
10°	85.7	79.1	65.9	52.7	46.1	39.5	32.9	32.9	26.4	19.8	19.8
12.5°	98.8	85.7	72.5	59.3	46.1	39.5	32.9	32.9	26.4	19.8	13.2
15°	112.0	98.8	79.1	59.3	46.1	39.5	32.9	32.9	19.8	13.2	6.6
17.5°	125.2	105.4	79.1	65.9	46.1	39.5	32.9	26.4	13.2	6.6	0.0
20°	131.8	112.0	85.7	65.9	46.1	39.5	32.9	19.8	6.6	0.0	0.0
22.5°	145.0	125.2	92.3	65.9	46.1	32.9	19.8	6.6	0.0	0.0	0.0
25°	171.3	131.8	92.3	65.9	46.1	32.9	13.2	0.0	0.0	0.0	0.0
27.5°	191.1	145.0	92.3	65.9	46.1	26.4	6.6	0.0	0.0	0.0	0.0
30°	224.0	158.2	98.8	65.9	46.1	19.8	6.6	0.0	0.0	0.0	0.0
32.5°	276.8	171.3	98.8	65.9	39.5	19.8	0.0	0.0	0.0	0.0	0.0
35°	336.1	197.7	98.8	65.9	39.5	19.8	0.0	0.0	0.0	0.0	0.0
37.5°	342.7	210.9	98.8	65.9	39.5	13.2	0.0	0.0	0.0	0.0	0.0
40°	355.8	197.7	105.4	65.9	39.5	13.2	0.0	0.0	0.0	0.0	0.0
42.5°	408.6	184.5	112.0	65.9	39.5	13.2	0.0	0.0	0.0	0.0	0.0
45°	606.3	191.1	112.0	72.5	39.5	19.8	0.0	0.0	0.0	0.0	0.0
47.5°	1054.3	197.7	105.4	72.5	39.5	19.8	0.0	0.0	0.0	0.0	0.0
50°	1350.9	230.6	105.4	79.1	46.1	13.2	0.0	0.0	0.0	0.0	0.0
52.5°	1436.6	270.2	105.4	85.7	59.3	6.6	0.0	0.0	0.0	0.0	0.0
55°	1397.0	316.3	112.0	92.3	72.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1291.6	342.7	118.6	98.8	79.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	1179.6	362.4	138.4	105.4	79.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1087.3	382.2	145.0	112.0	79.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	876.4	408.6	158.2	131.8	65.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	764.4	428.3	164.7	145.0	59.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	698.5	441.5	177.9	151.6	52.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	645.8	434.9	191.1	145.0	46.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	586.5	415.2	230.6	131.8	39.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	527.2	375.6	250.4	118.6	26.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	382.2	316.3	230.6	105.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.7	171.3	164.7	79.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	39.5	32.9	19.8	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: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	32.9	32.9	32.9	32.9	39.5	39.5	52.7	65.9	79.1	85.7	85.7
5°	26.4	26.4	26.4	26.4	26.4	32.9	39.5	52.7	72.5	79.1	79.1
7.5°	19.8	19.8	19.8	19.8	19.8	19.8	32.9	46.1	65.9	72.5	79.1
10°	19.8	13.2	13.2	6.6	6.6	13.2	19.8	39.5	59.3	65.9	72.5
12.5°	13.2	6.6	6.6	0.0	0.0	6.6	13.2	32.9	52.7	59.3	65.9
15°	6.6	0.0	0.0	0.0	0.0	0.0	6.6	26.4	46.1	52.7	65.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	39.5	52.7	59.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	32.9	46.1	52.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	26.4	39.5	46.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	26.4	32.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	19.8	26.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	19.8	26.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	19.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	19.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	13.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
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: P1067962

CATALOG NUMBER: NAV-SA6B-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	92.3	92.3	85.7	79.1	79.1	79.1	85.7	92.3	92.3	92.3
5°	85.7	85.7	79.1	79.1	79.1	79.1	85.7	98.8	105.4	105.4
7.5°	85.7	85.7	79.1	79.1	79.1	79.1	85.7	98.8	105.4	112.0
10°	79.1	79.1	79.1	79.1	72.5	79.1	85.7	98.8	118.6	118.6
12.5°	79.1	79.1	79.1	79.1	72.5	79.1	92.3	105.4	125.2	131.8
15°	79.1	79.1	79.1	72.5	72.5	79.1	92.3	112.0	131.8	145.0
17.5°	72.5	79.1	79.1	72.5	72.5	79.1	92.3	112.0	145.0	164.7
20°	65.9	72.5	79.1	72.5	72.5	72.5	92.3	112.0	151.6	177.9
22.5°	59.3	65.9	72.5	72.5	65.9	72.5	92.3	118.6	164.7	197.7
25°	52.7	59.3	59.3	65.9	65.9	72.5	92.3	118.6	171.3	224.0
27.5°	39.5	46.1	52.7	59.3	59.3	72.5	92.3	125.2	184.5	276.8
30°	32.9	39.5	46.1	52.7	59.3	72.5	92.3	125.2	197.7	349.3
32.5°	32.9	39.5	46.1	52.7	59.3	65.9	92.3	131.8	217.5	434.9
35°	26.4	32.9	39.5	52.7	52.7	65.9	92.3	131.8	237.2	566.7
37.5°	26.4	32.9	39.5	52.7	52.7	65.9	92.3	131.8	289.9	632.6
40°	19.8	26.4	32.9	52.7	52.7	65.9	98.8	138.4	296.5	639.2
42.5°	19.8	26.4	32.9	46.1	52.7	65.9	98.8	138.4	276.8	659.0
45°	19.8	26.4	32.9	52.7	59.3	72.5	98.8	145.0	270.2	751.2
47.5°	19.8	26.4	32.9	52.7	65.9	72.5	98.8	145.0	276.8	1074.1
50°	19.8	26.4	32.9	52.7	72.5	72.5	98.8	145.0	303.1	1726.5
52.5°	13.2	19.8	26.4	46.1	59.3	79.1	105.4	138.4	322.9	2306.4
55°	13.2	13.2	19.8	39.5	52.7	85.7	112.0	138.4	375.6	2451.4
57.5°	13.2	13.2	19.8	32.9	46.1	92.3	118.6	138.4	434.9	2378.9
59°	13.2	13.2	13.2	32.9	39.5	92.3	118.6	145.0	441.5	2253.7
60°	13.2	13.2	13.2	26.4	39.5	92.3	125.2	151.6	448.1	2108.7
62.5°	6.6	6.6	6.6	26.4	32.9	92.3	138.4	184.5	461.3	1627.7
65°	13.2	13.2	6.6	19.8	32.9	79.1	158.2	197.7	467.9	1265.2
67.5°	13.2	13.2	13.2	26.4	32.9	79.1	164.7	204.3	467.9	1001.6
70°	13.2	13.2	13.2	26.4	39.5	79.1	164.7	210.9	461.3	817.1
72.5°	13.2	13.2	13.2	26.4	39.5	72.5	151.6	217.5	441.5	691.9
75°	13.2	13.2	13.2	19.8	32.9	65.9	145.0	237.2	402.0	586.5
77.5°	13.2	13.2	13.2	13.2	26.4	52.7	131.8	263.6	355.8	474.5
80°	19.8	13.2	13.2	13.2	19.8	46.1	125.2	257.0	296.5	309.7
82.5°	19.8	13.2	13.2	6.6	13.2	32.9	98.8	197.7	151.6	138.4
85°	13.2	13.2	13.2	6.6	6.6	19.8	46.1	59.3	46.1	32.9
87.5°	13.2	13.2	13.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

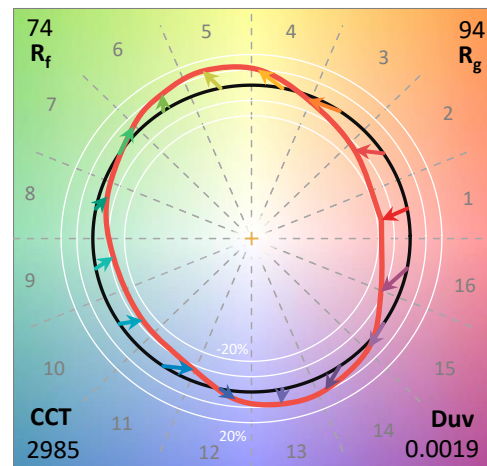
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

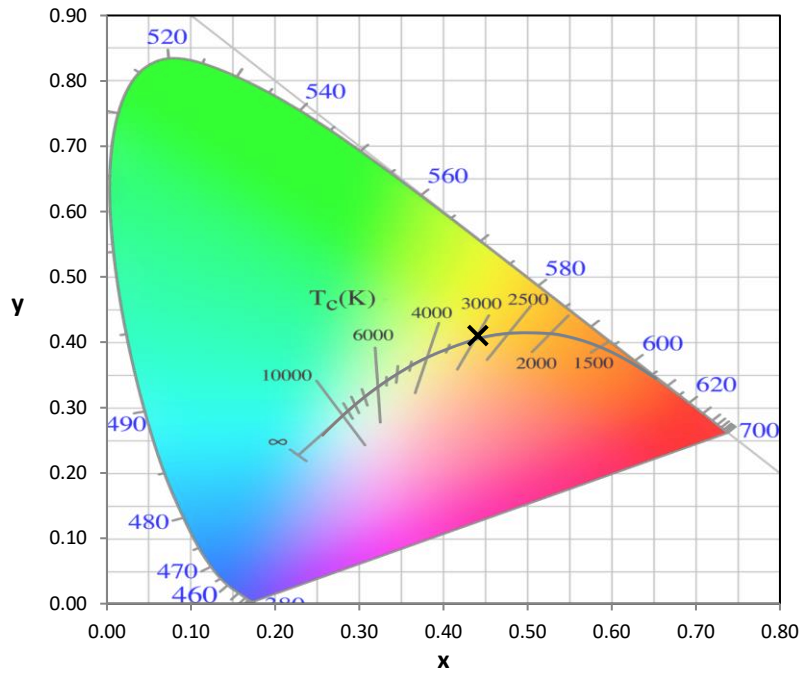
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

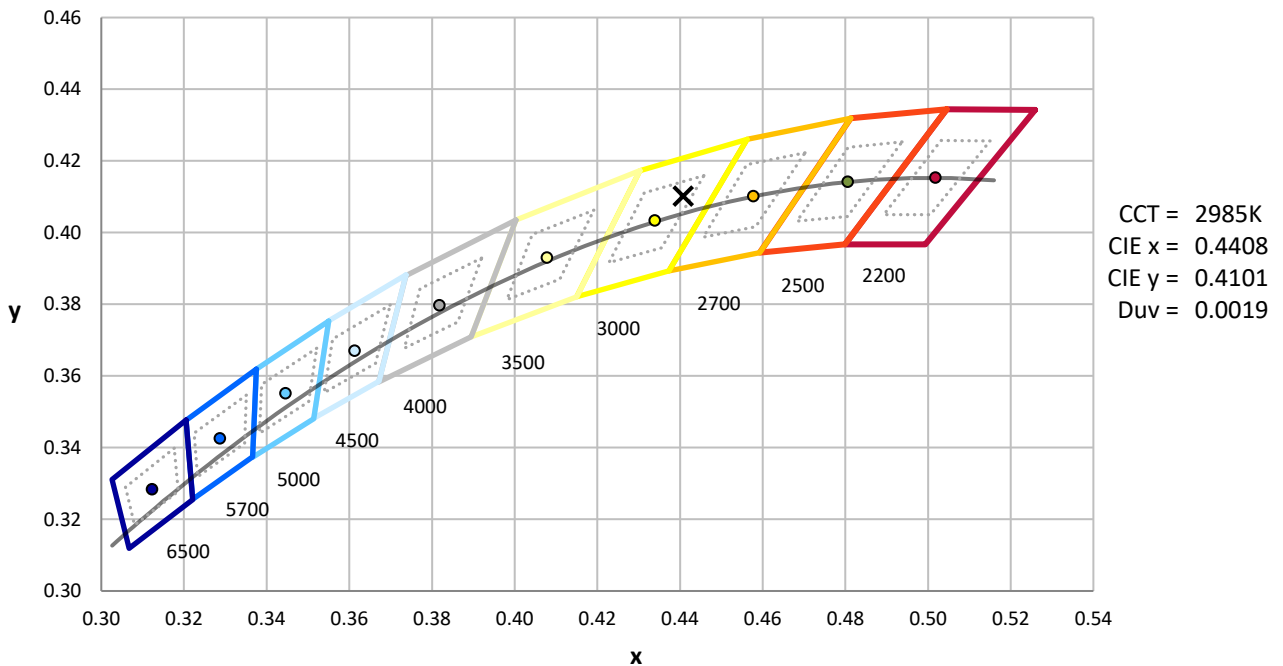
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



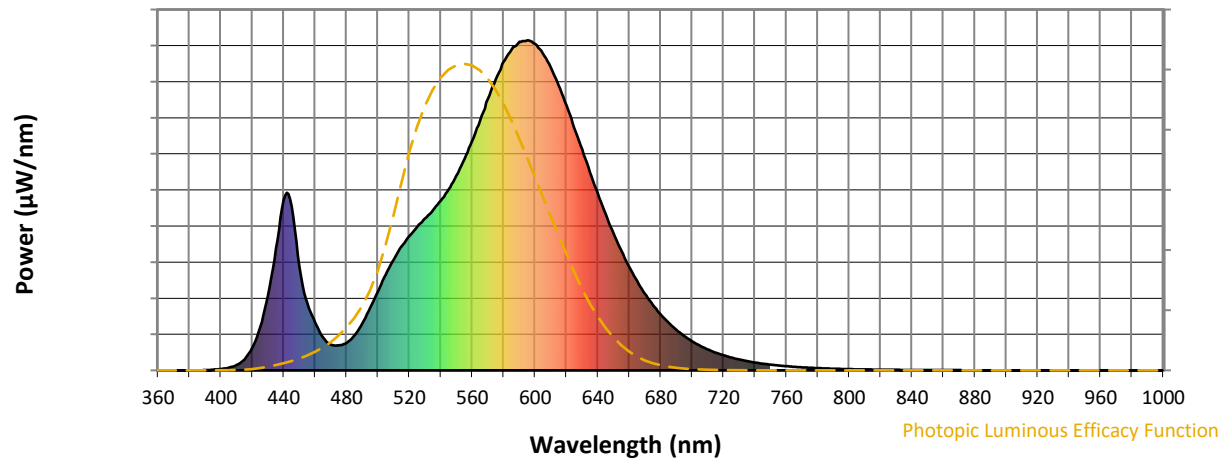
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

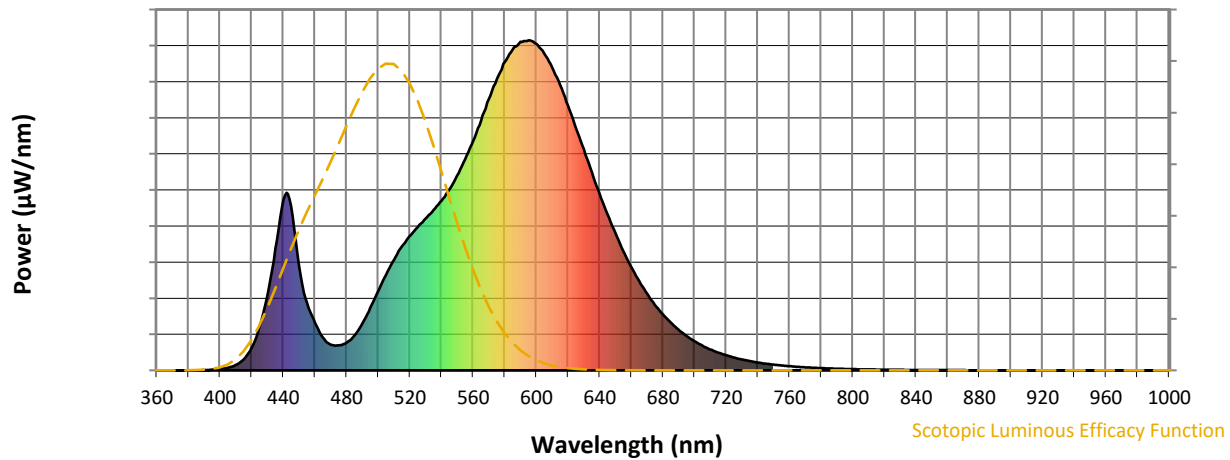


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



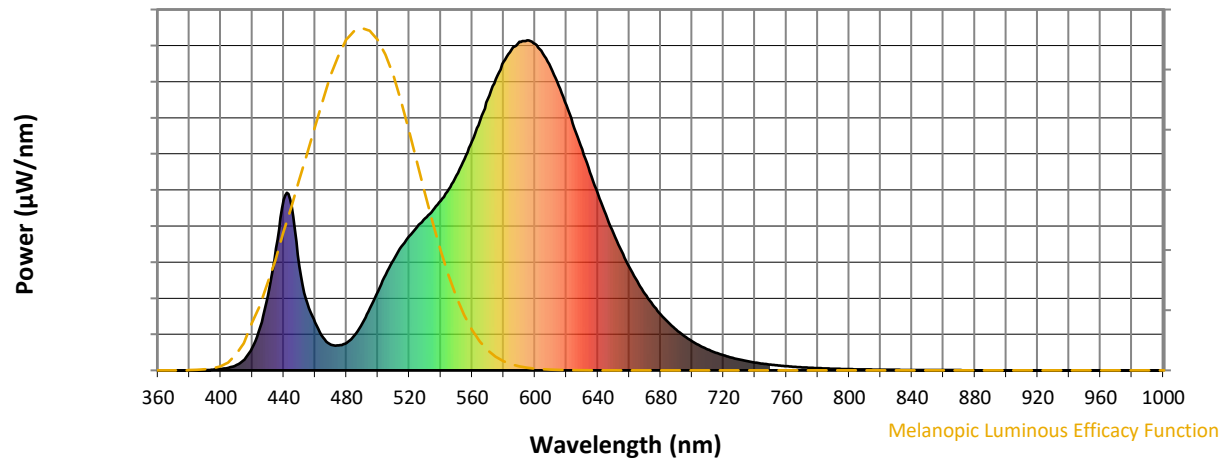
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

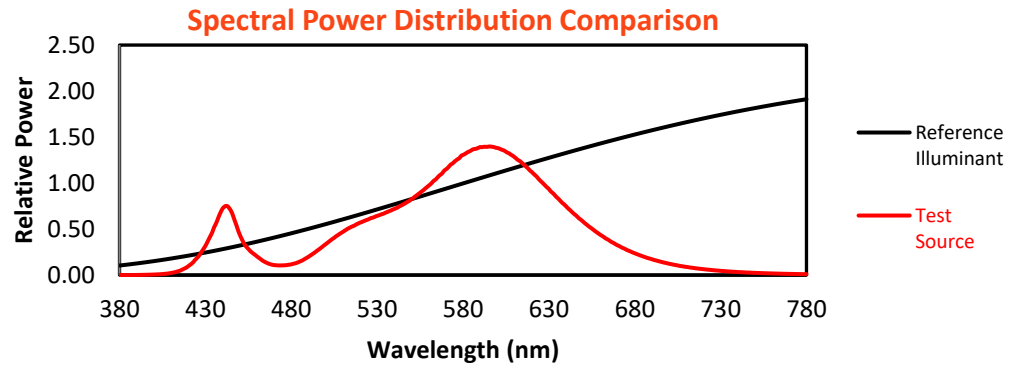
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

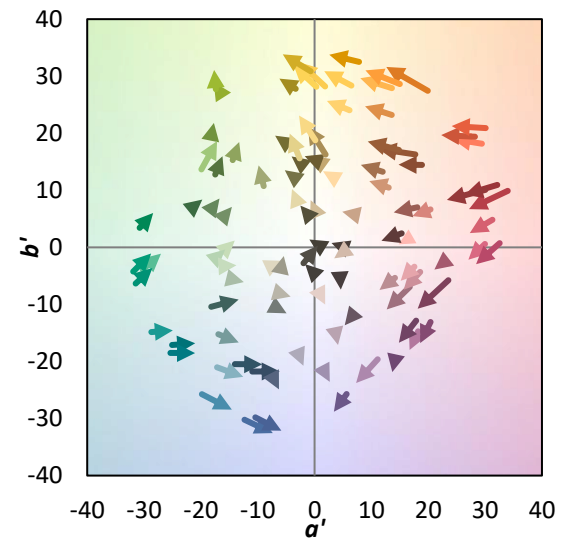
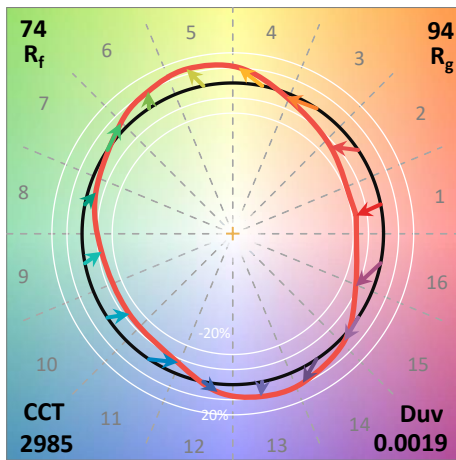
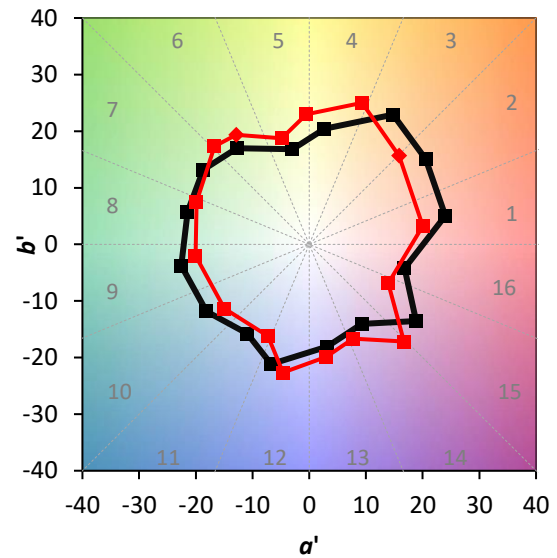
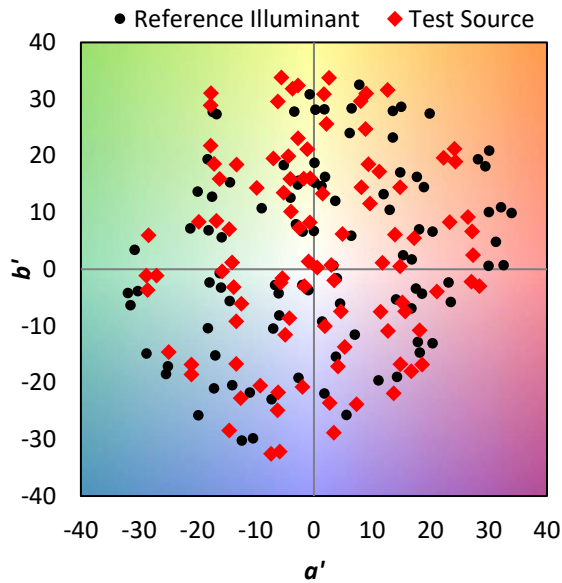
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

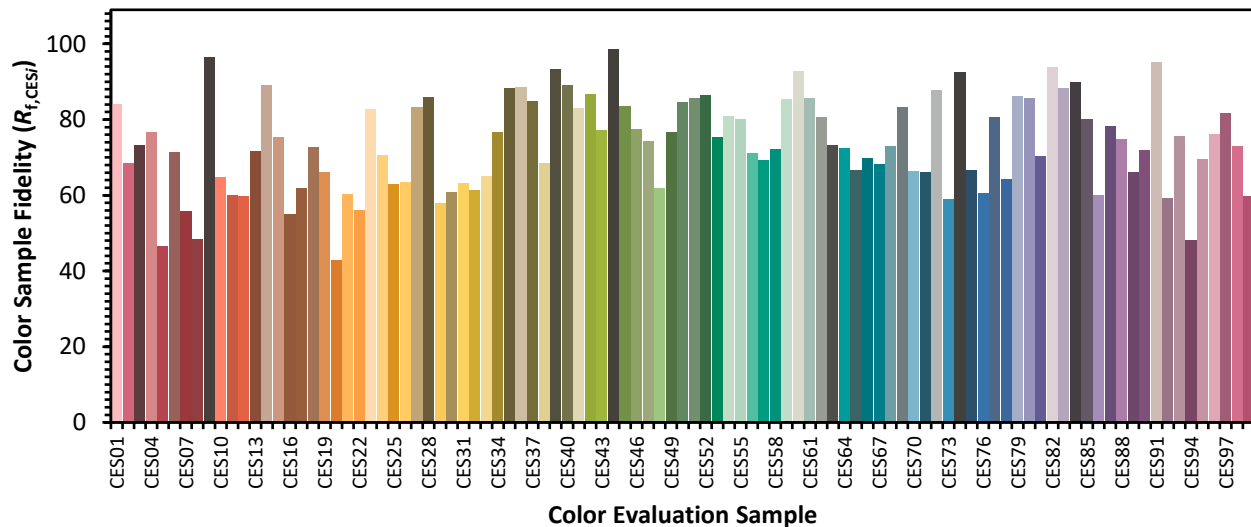


Color Vector Graphics

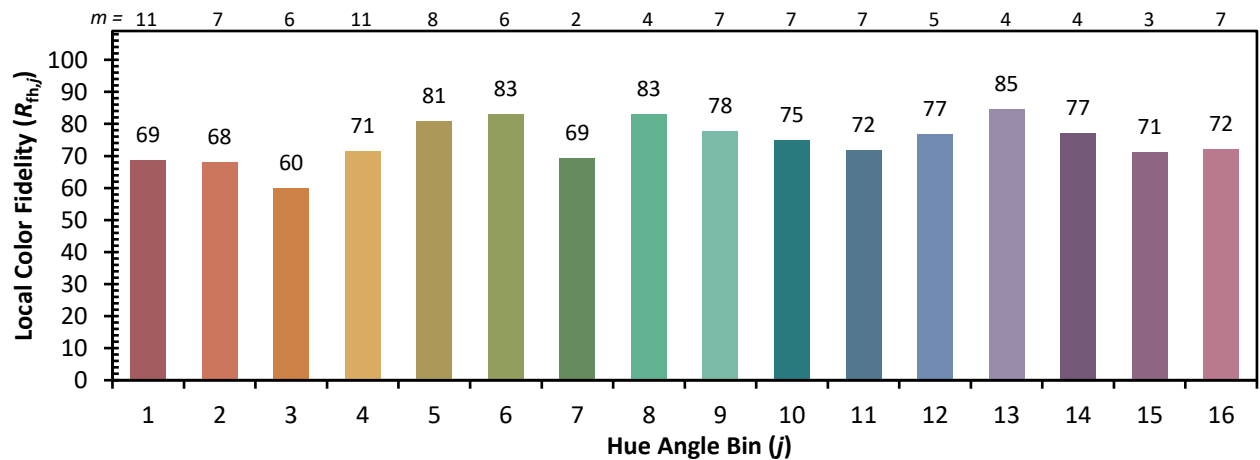
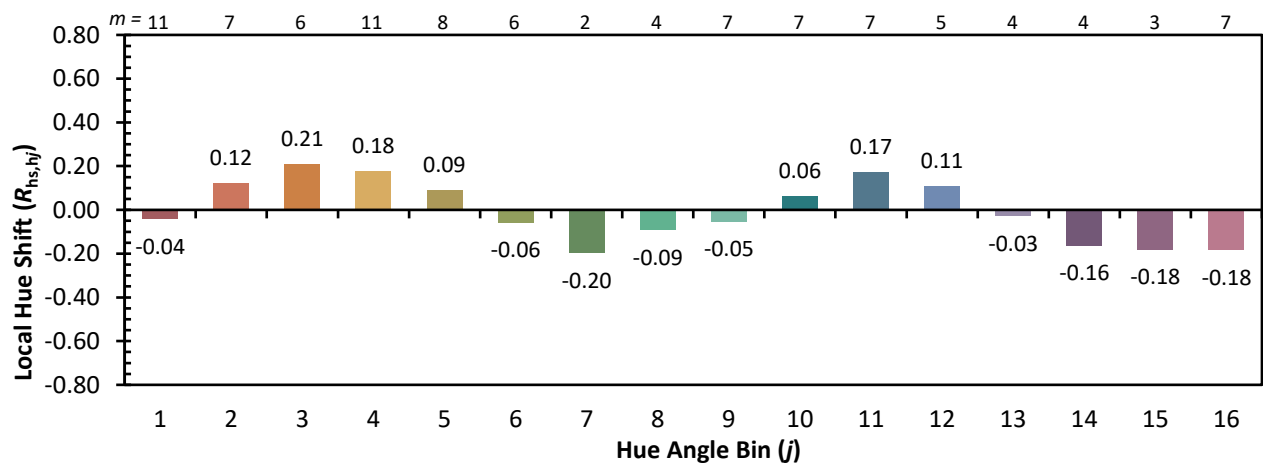
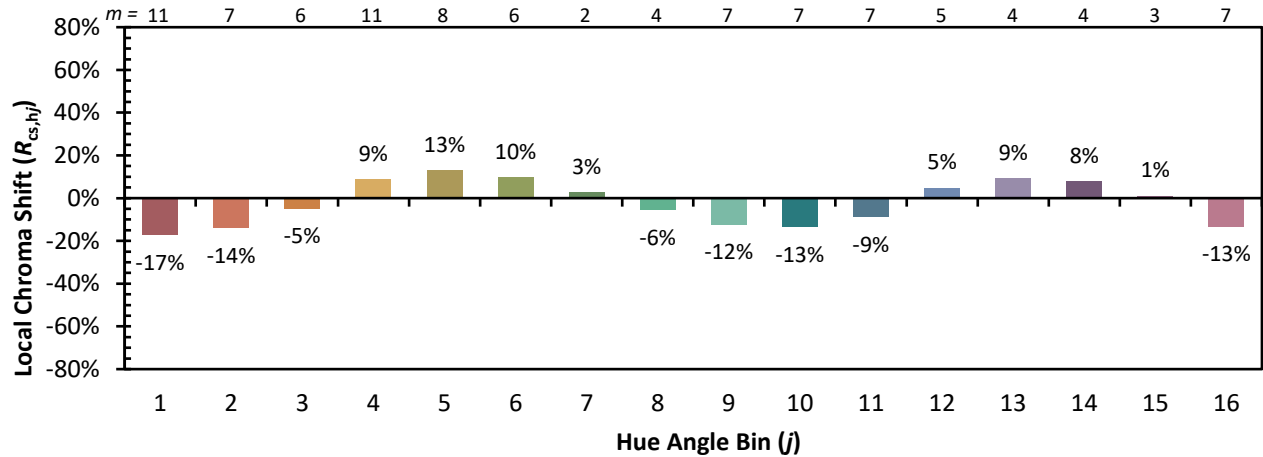


Individual Sample Fidelity Index ($R_{f,i}$)

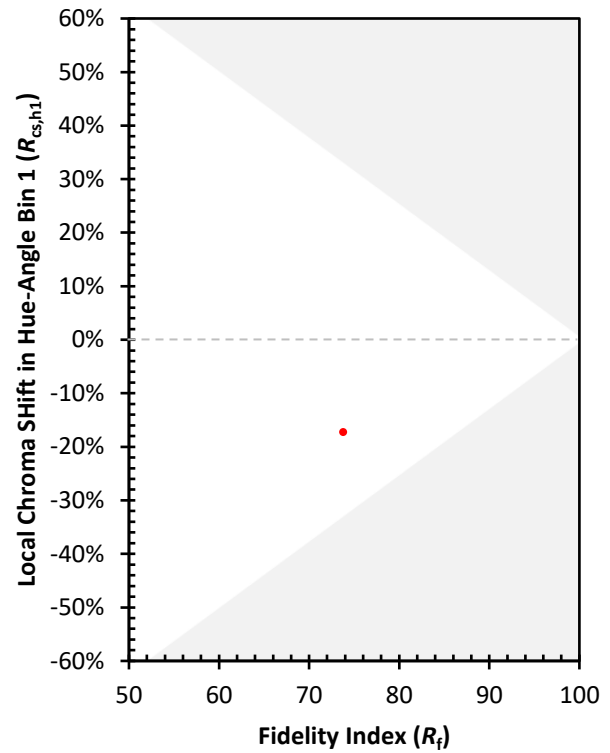
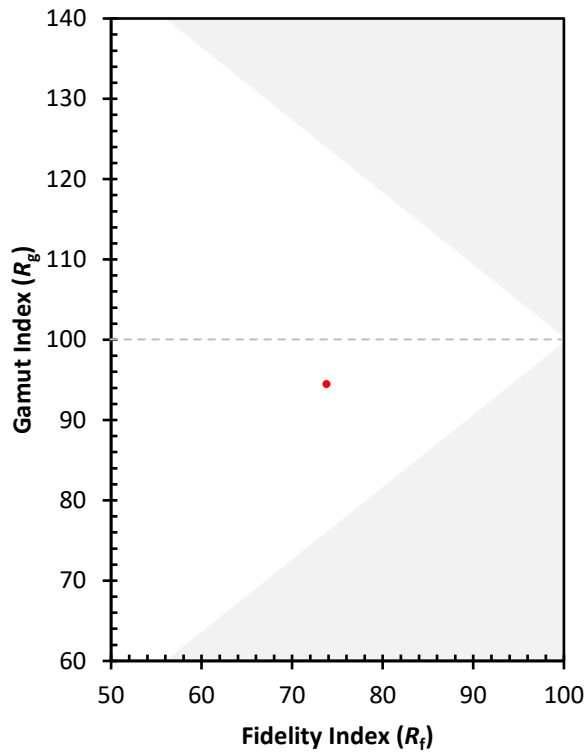
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)