

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: P1067461

Luminaire Tested: **NAV-SA1A-730-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067461
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-730-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3356.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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

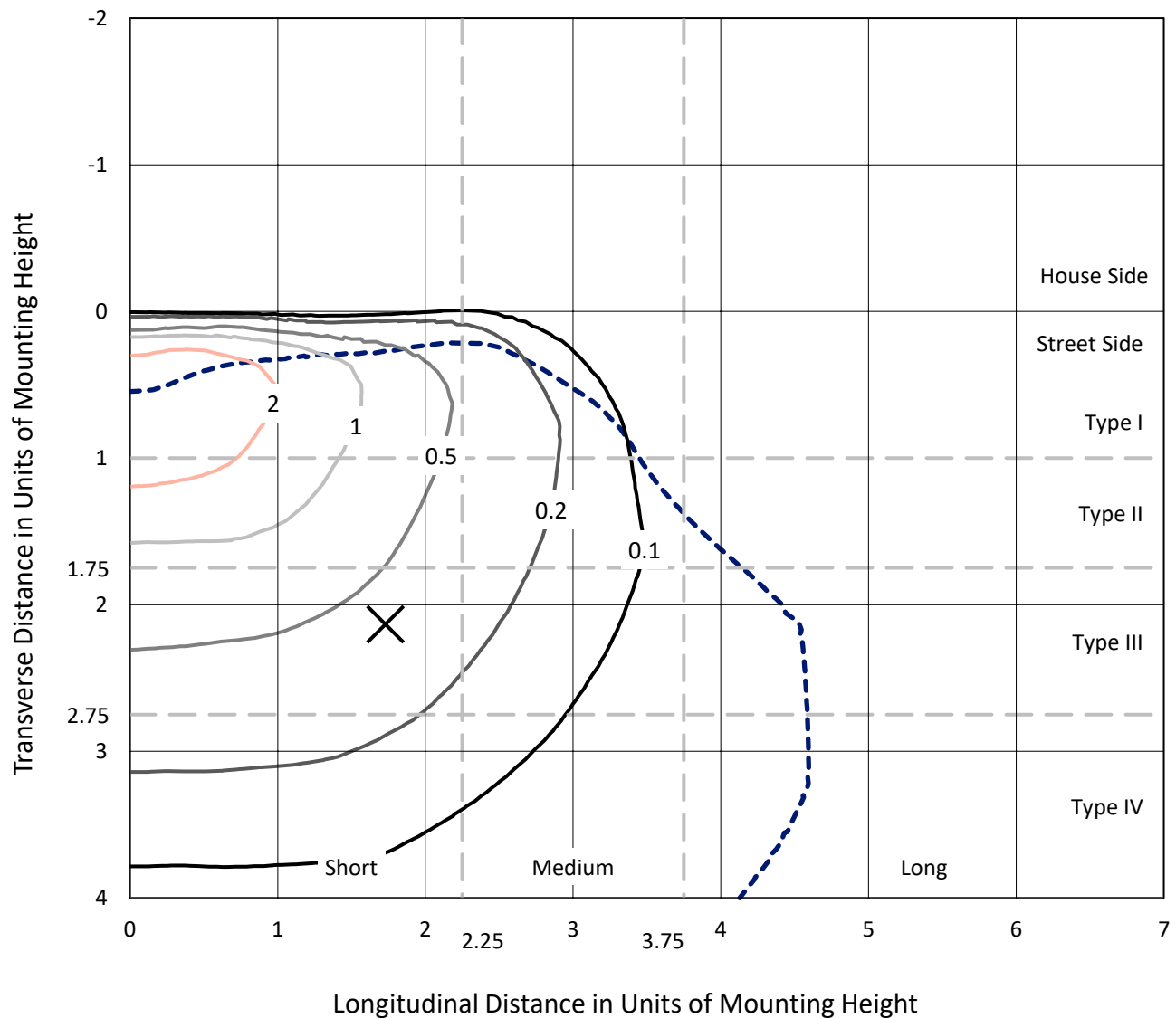


REPORT NUMBER: P1067461

CATALOG NUMBER: NAV-SA1A-730-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

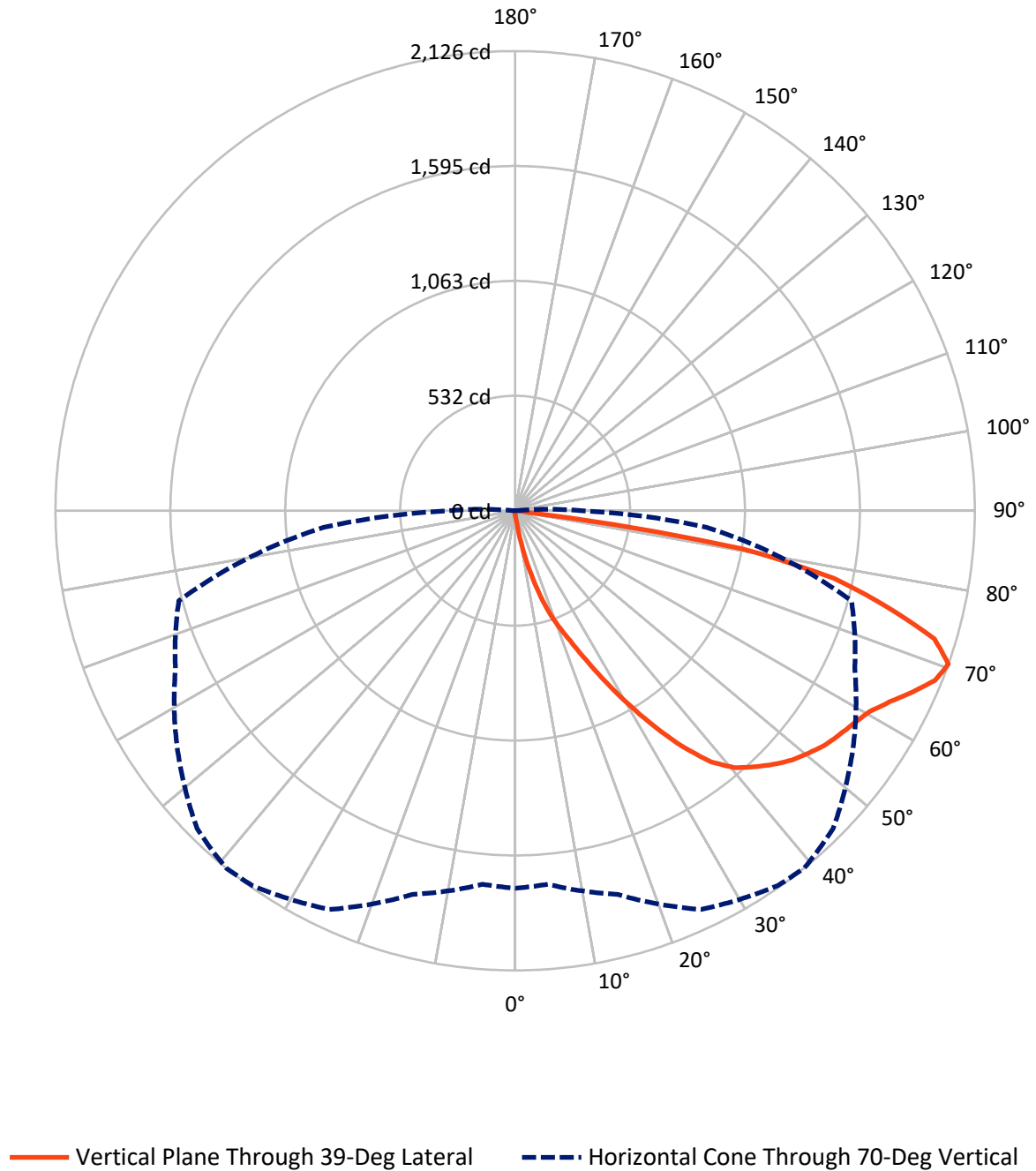


Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P1067461

CATALOG NUMBER: NAV-SA1A-730-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067461

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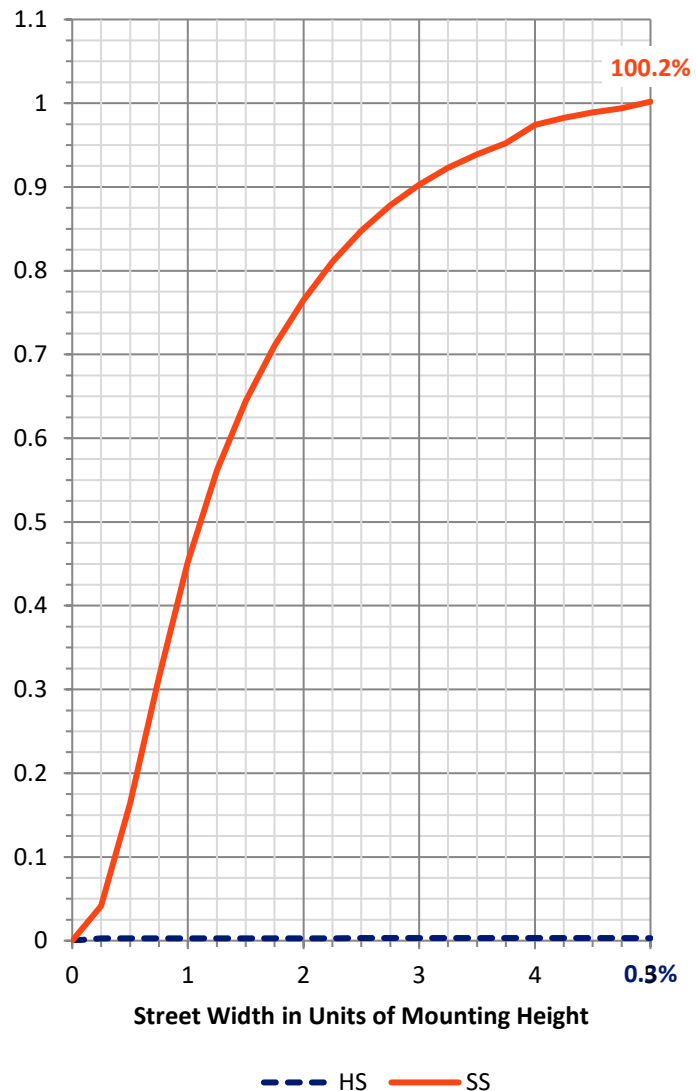
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10.3	0.0	10.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	3346.4	0.0	3346.4
	% Fixture	99.7	0.0	99.7
Total	Lumens	3356.8	0.0	3356.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	41.3	1.2
20°-30°	140.0	4.2
30°-40°	329.1	9.8
40°-50°	534.4	15.9
50°-60°	677.2	20.2
60°-70°	860.3	25.6
70°-80°	698.9	20.8
80°-90°	72.0	2.1
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°	3356.8	100.0
0°-180°	3356.8	100.0



REPORT NUMBER: P1067461

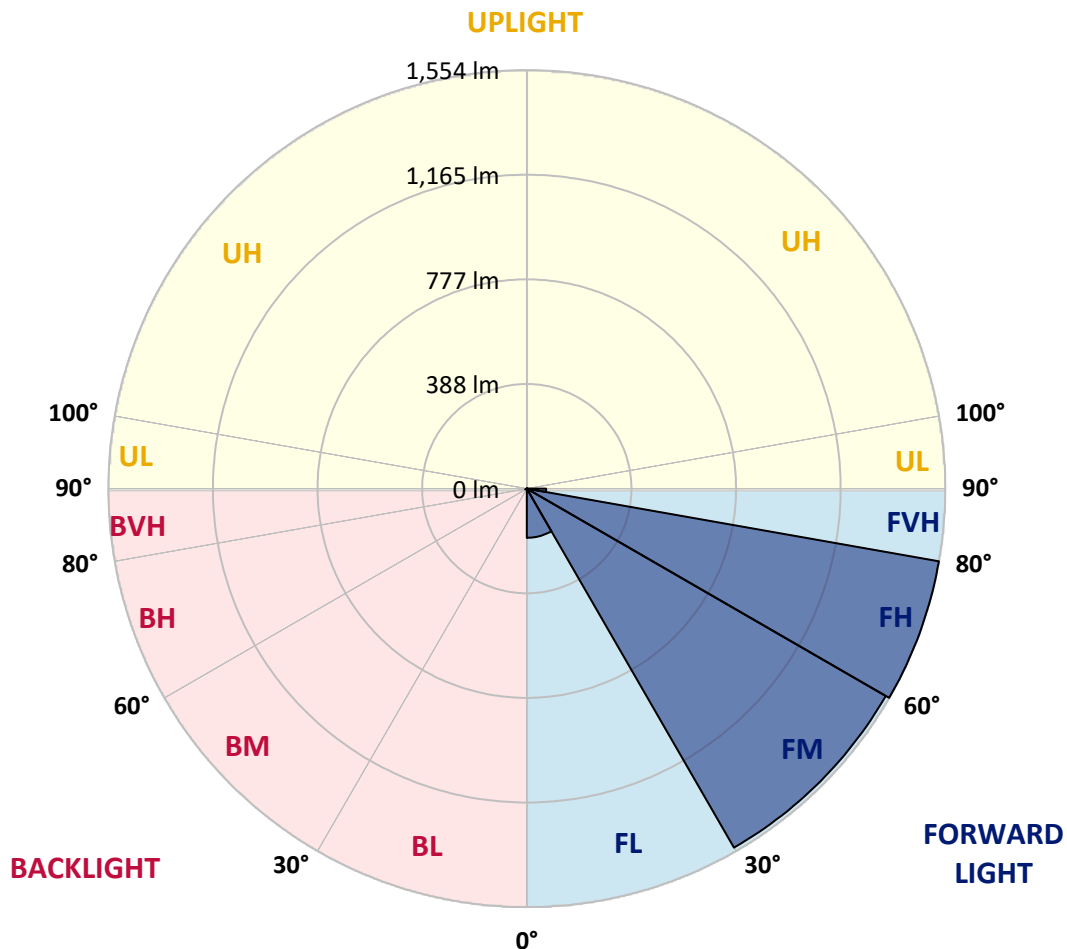
CATALOG NUMBER: NAV-SA1A-730-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.6	5.4			
FM	(30°-60°)	1538.8	45.8			
FH	(60°-80°)	1553.5	46.3			G1/1800
FVH	(80°-90°)	71.5	2.1			G1/100
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	2.0	0.1	B0/220		
BH	(60°-80°)	5.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type IV Short





REPORT NUMBER: P1067461

CATALOG NUMBER: NAV-SA1A-730-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	23.7	23.7	23.7	22.8	22.8	21.9	21.9	21.0	20.0	20.0	19.1
5°	44.7	45.6	42.8	37.4	33.7	31.9	30.1	25.5	22.8	21.0	19.1
7.5°	122.1	118.5	113.0	94.8	72.9	62.0	52.9	37.4	27.3	21.9	19.1
10°	257.0	247.0	231.5	206.9	164.0	146.7	113.9	68.4	38.3	24.6	19.1
12.5°	377.3	379.1	360.0	336.3	284.3	255.2	210.5	128.5	60.1	29.2	19.1
15°	468.4	466.6	459.3	440.2	393.7	365.5	325.4	216.0	101.2	36.5	20.0
17.5°	540.4	533.1	530.4	522.2	492.1	476.6	432.9	318.1	160.4	49.2	21.0
20°	612.4	610.6	607.9	598.8	578.7	567.8	534.1	421.0	238.8	70.2	22.8
22.5°	717.2	707.2	709.0	689.0	672.6	653.4	626.1	530.4	329.0	100.2	25.5
25°	840.3	839.4	824.8	815.7	788.3	767.4	730.9	636.1	429.2	144.9	28.3
27.5°	985.2	975.1	968.8	953.3	925.0	901.3	851.2	740.9	537.7	195.0	31.9
30°	1136.5	1136.5	1124.6	1100.9	1073.6	1044.4	993.4	851.2	645.2	258.8	36.5
32.5°	1313.3	1316.9	1287.7	1252.2	1216.7	1196.6	1130.1	976.1	748.2	331.7	41.9
35°	1484.6	1480.0	1431.7	1392.5	1366.1	1344.2	1287.7	1112.8	864.9	416.5	49.2
37.5°	1648.6	1636.8	1556.6	1501.0	1489.1	1474.6	1418.1	1249.5	980.6	510.4	58.3
40°	1766.2	1748.0	1665.0	1588.5	1571.2	1563.0	1519.2	1373.4	1102.7	615.2	70.2
42.5°	1817.2	1796.3	1738.9	1676.9	1638.6	1619.5	1581.2	1474.6	1224.9	731.8	87.5
45°	1827.3	1810.9	1769.8	1755.3	1703.3	1674.2	1622.2	1546.6	1338.8	847.6	111.2
47.5°	1790.8	1783.5	1758.9	1789.9	1763.5	1723.4	1660.5	1600.3	1439.9	987.9	144.0
50°	1701.5	1696.0	1707.9	1789.0	1807.2	1761.6	1702.4	1642.3	1527.4	1132.8	190.5
52.5°	1581.2	1580.3	1635.9	1765.3	1826.3	1798.1	1743.4	1684.2	1596.7	1273.2	256.1
55°	1450.0	1465.5	1563.0	1743.4	1837.3	1824.5	1783.5	1721.5	1658.7	1403.5	361.8
57.5°	1439.0	1432.6	1526.5	1734.3	1843.7	1851.0	1823.6	1760.7	1711.5	1510.1	503.1
60°	1548.4	1533.8	1569.3	1753.4	1871.9	1884.7	1863.7	1790.8	1764.4	1594.0	689.0
62.5°	1675.1	1661.4	1679.6	1827.3	1927.5	1945.7	1919.3	1821.8	1807.2	1652.3	888.6
65°	1776.2	1765.3	1799.9	1937.5	2005.0	2020.5	2002.2	1879.2	1826.3	1699.7	1050.8
67.5°	1792.6	1779.0	1851.0	2011.4	2083.4	2094.3	2079.7	1934.8	1820.0	1703.3	1088.2
70°	1746.2	1734.3	1837.3	2035.0	2117.1	2126.2	2079.7	1908.4	1733.4	1610.4	889.5
72.5°	1603.1	1612.2	1745.2	1977.6	2070.6	2028.7	1930.2	1775.3	1621.3	1365.2	624.3
75°	1380.7	1390.7	1567.5	1820.0	1827.3	1776.2	1723.4	1633.1	1450.9	899.5	432.9
77.5°	981.5	946.0	1210.3	1502.8	1476.4	1509.2	1513.8	1358.8	1214.8	468.4	289.8
80°	96.6	82.0	152.2	431.1	952.4	1064.5	1108.2	1047.1	895.9	209.6	152.2
82.5°	21.0	21.0	22.8	24.6	38.3	57.4	263.4	645.2	578.7	106.6	49.2
85°	11.8	11.8	14.6	17.3	22.8	25.5	30.1	40.1	155.8	38.3	9.1
87.5°	9.1	10.0	11.8	14.6	19.1	21.0	25.5	31.9	39.2	35.5	2.7
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: P1067461

CATALOG NUMBER: NAV-SA1A-730-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	19.1	18.2	17.3	16.4	15.5	15.5	14.6	14.6	14.6	14.6	14.6
5°	18.2	17.3	16.4	14.6	13.7	12.8	11.8	11.8	11.8	11.8	11.8
7.5°	18.2	17.3	15.5	13.7	11.8	10.9	10.0	9.1	9.1	10.0	10.0
10°	18.2	16.4	13.7	11.8	10.0	9.1	8.2	7.3	7.3	7.3	7.3
12.5°	17.3	15.5	12.8	10.9	9.1	7.3	5.5	4.6	4.6	4.6	4.6
15°	16.4	14.6	11.8	9.1	6.4	4.6	3.6	2.7	2.7	2.7	2.7
17.5°	16.4	13.7	10.9	8.2	4.6	2.7	1.8	0.9	0.9	0.9	1.8
20°	16.4	13.7	10.0	6.4	2.7	1.8	1.8	0.9	0.0	0.9	0.9
22.5°	16.4	12.8	8.2	4.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
25°	17.3	12.8	7.3	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
27.5°	17.3	11.8	6.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
30°	18.2	11.8	5.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	18.2	10.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	18.2	10.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	18.2	9.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	19.1	8.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	20.0	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	21.0	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	23.7	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	27.3	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	32.8	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	42.8	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	62.0	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	103.9	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	182.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	308.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	401.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	305.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	145.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	64.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.9	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	1.8	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
85°	2.7	1.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	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

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

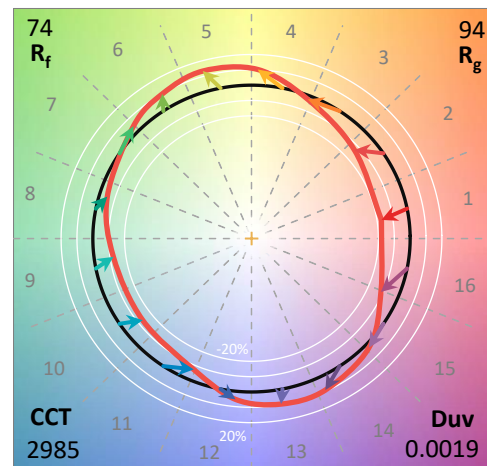
Test Information

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
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

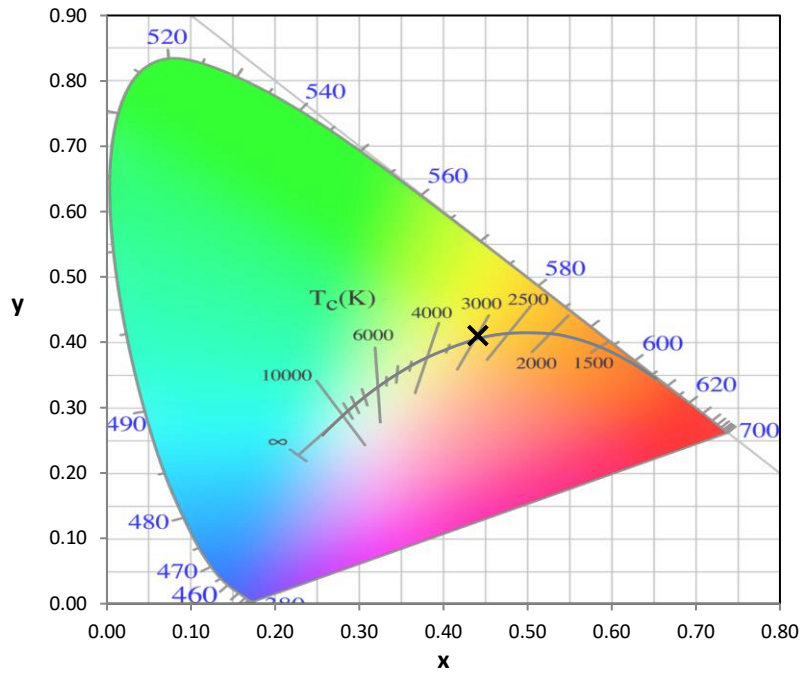
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

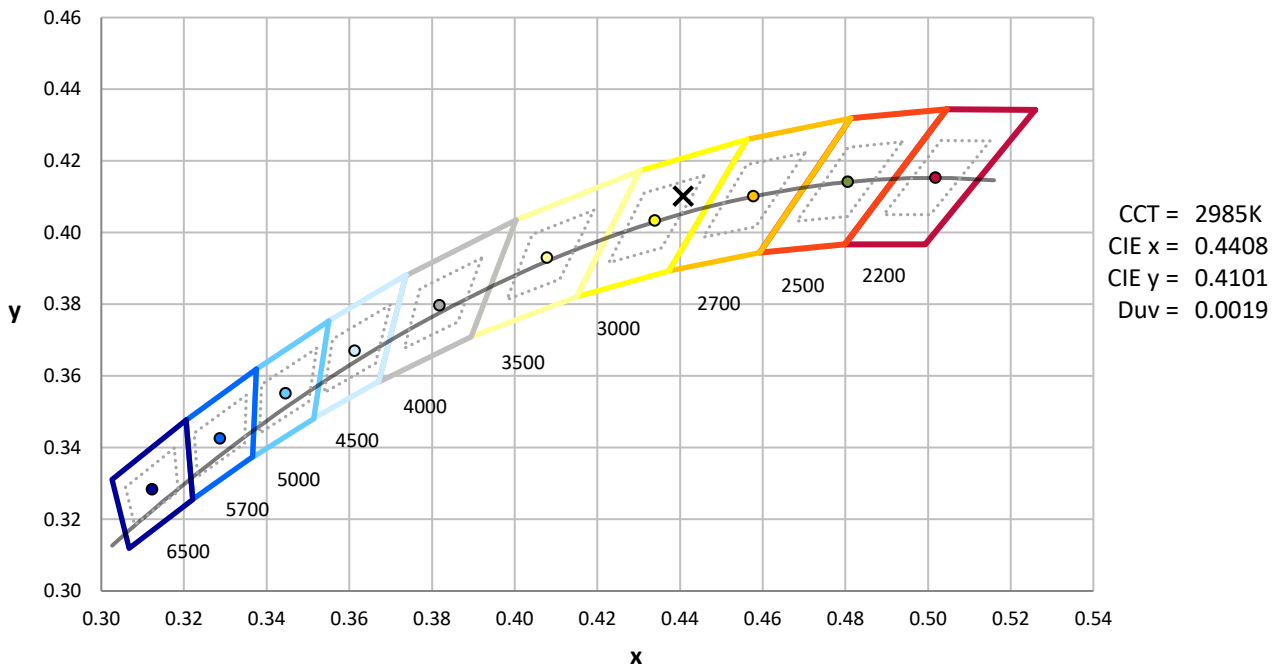
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

Scotopic Flux vs. Wavelength



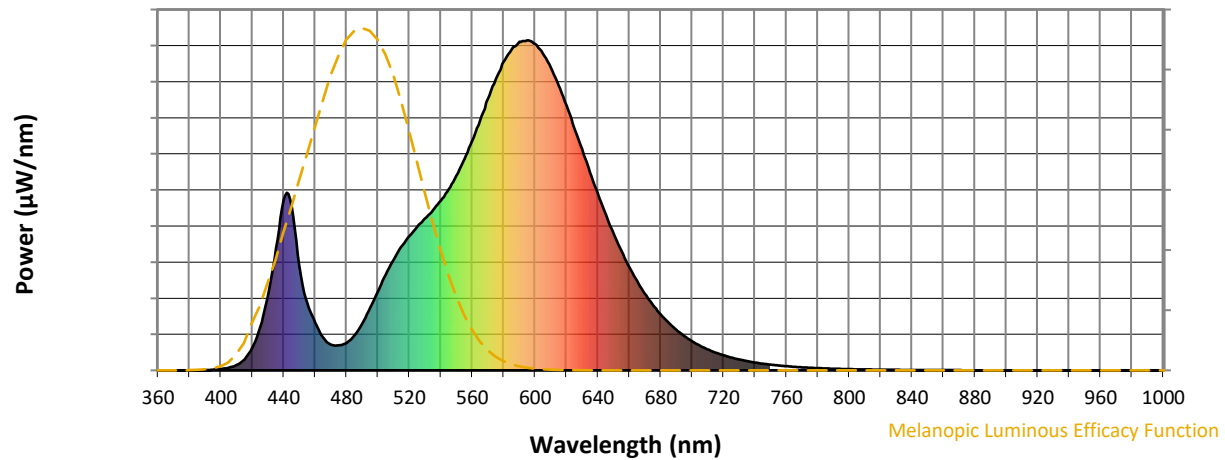
Scotopic Lumens: NR

S/P: 1.19

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

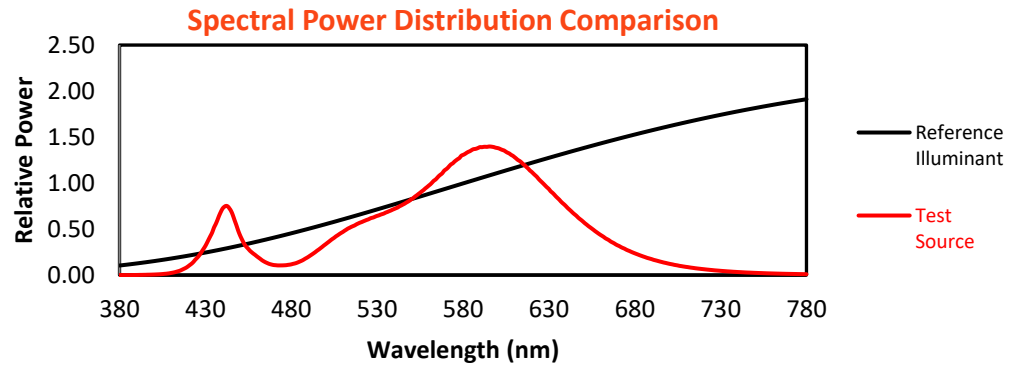
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

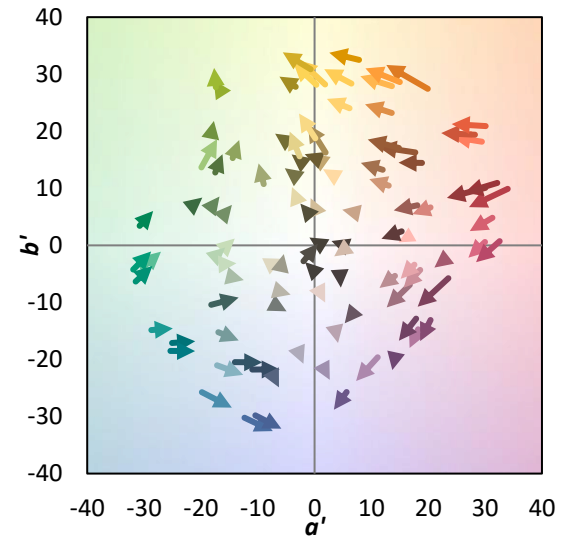
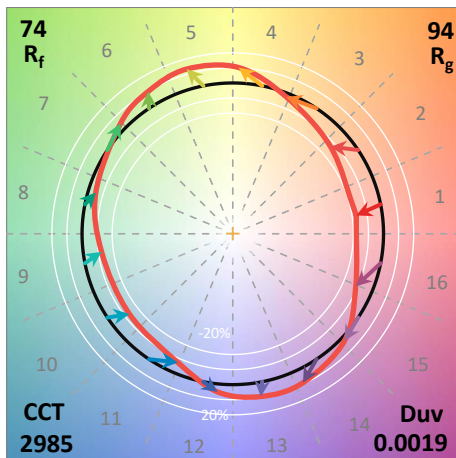
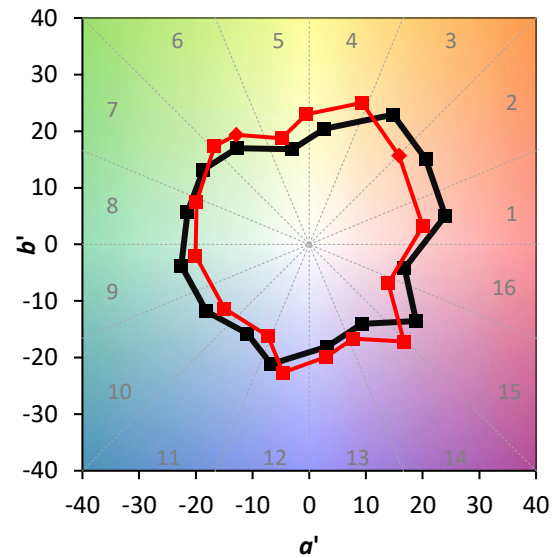
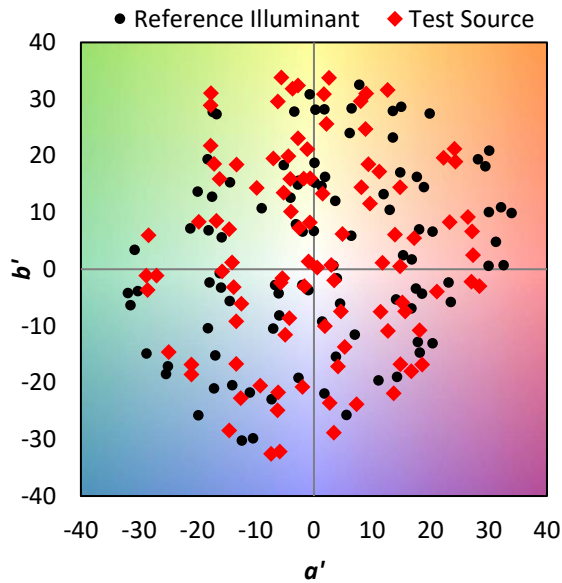
TM-30-18

Summary

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

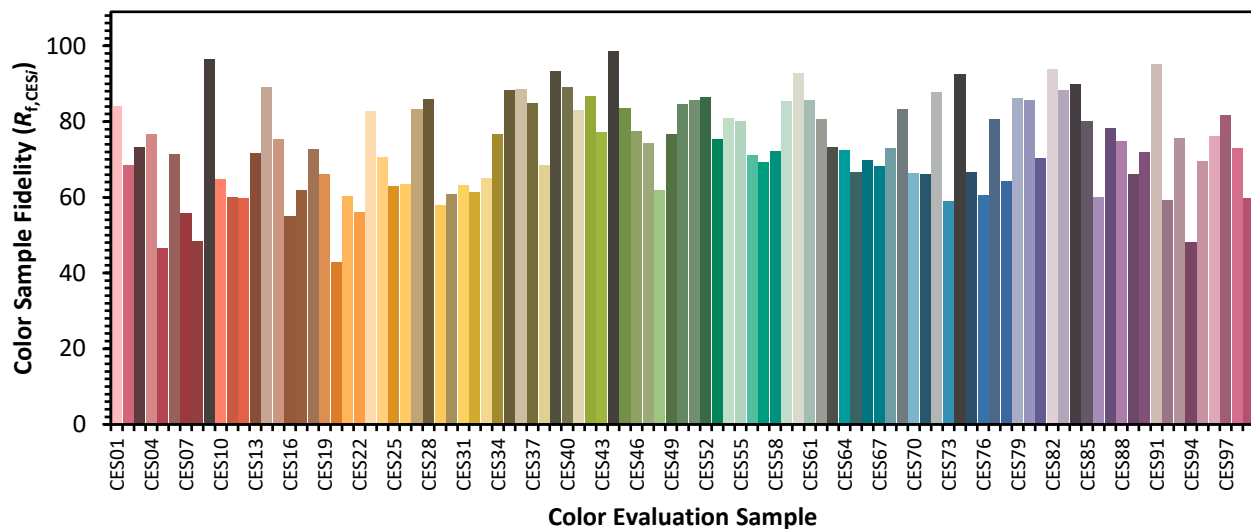


Color Vector Graphics

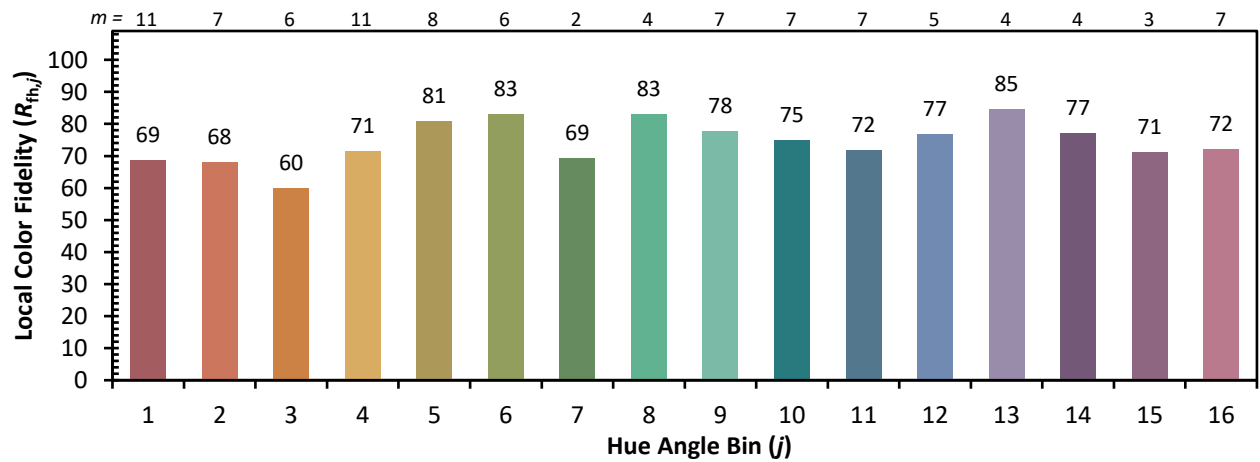
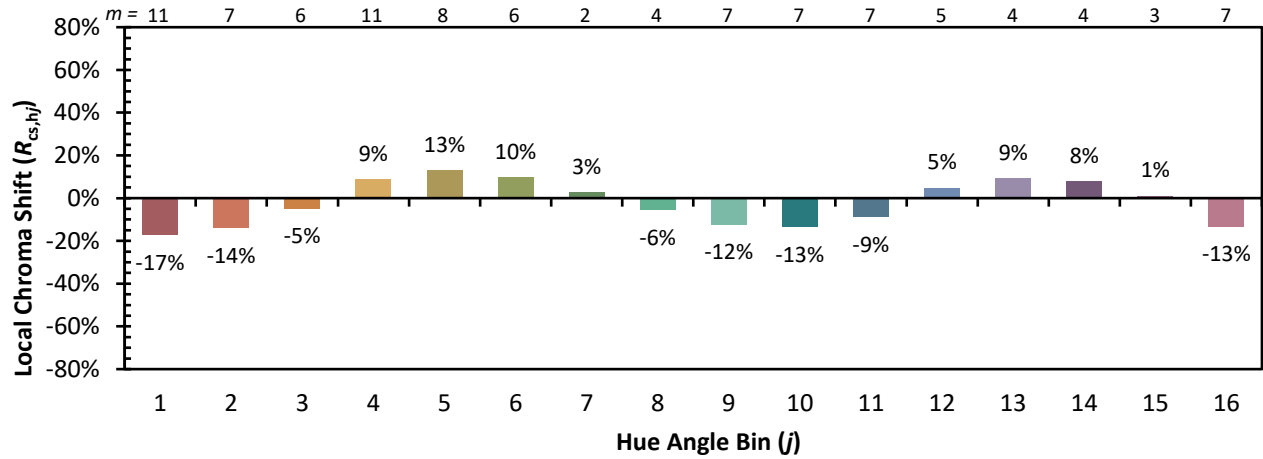


Individual Sample Fidelity Index ($R_{f,i}$)

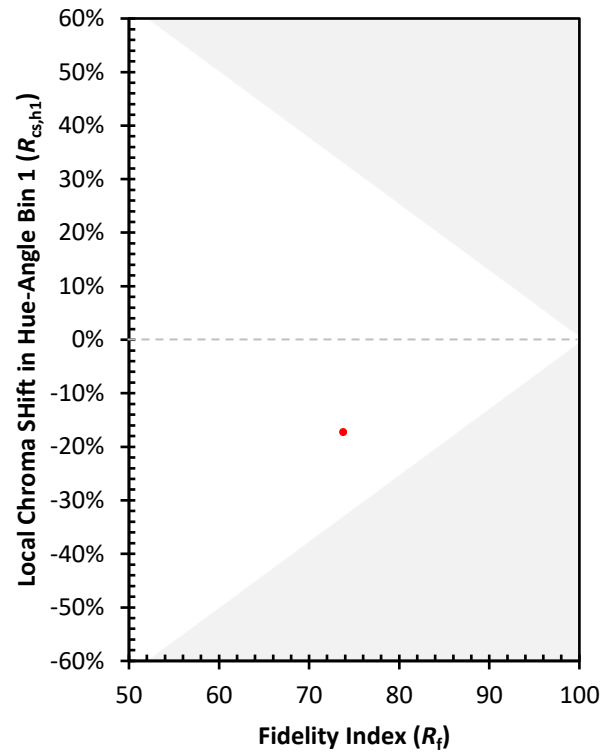
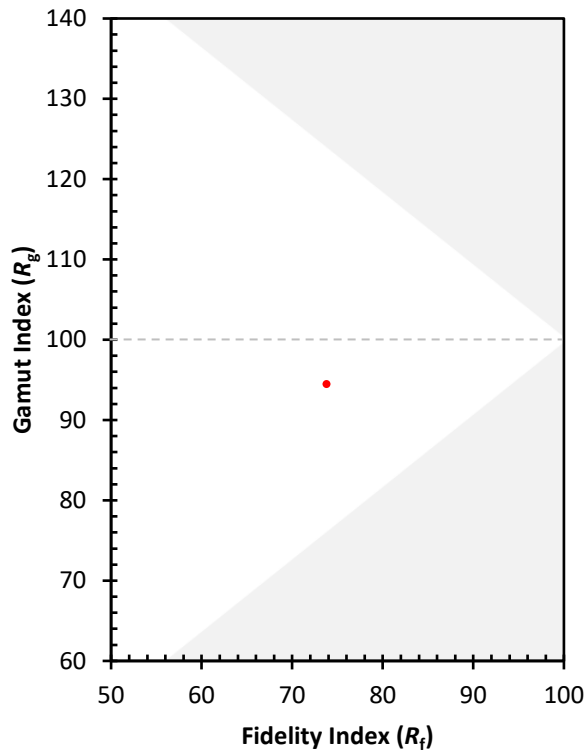
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)