

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: P1065981

Luminaire Tested: **NVN-SA3A-722-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065981
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA3A-722-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7763.2 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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



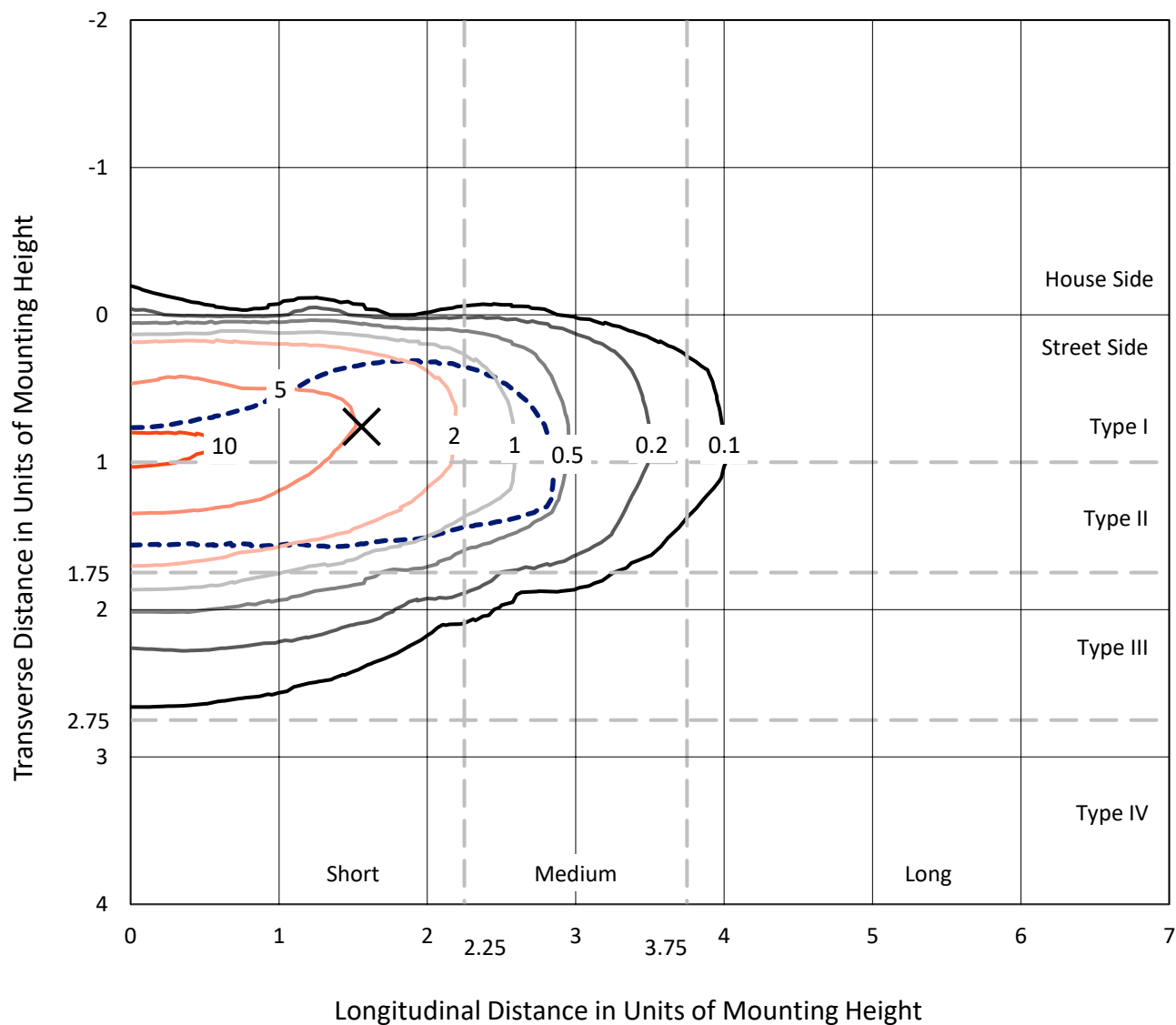
REPORT NUMBER: P1065981

CATALOG NUMBER: NVN-SA3A-722-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

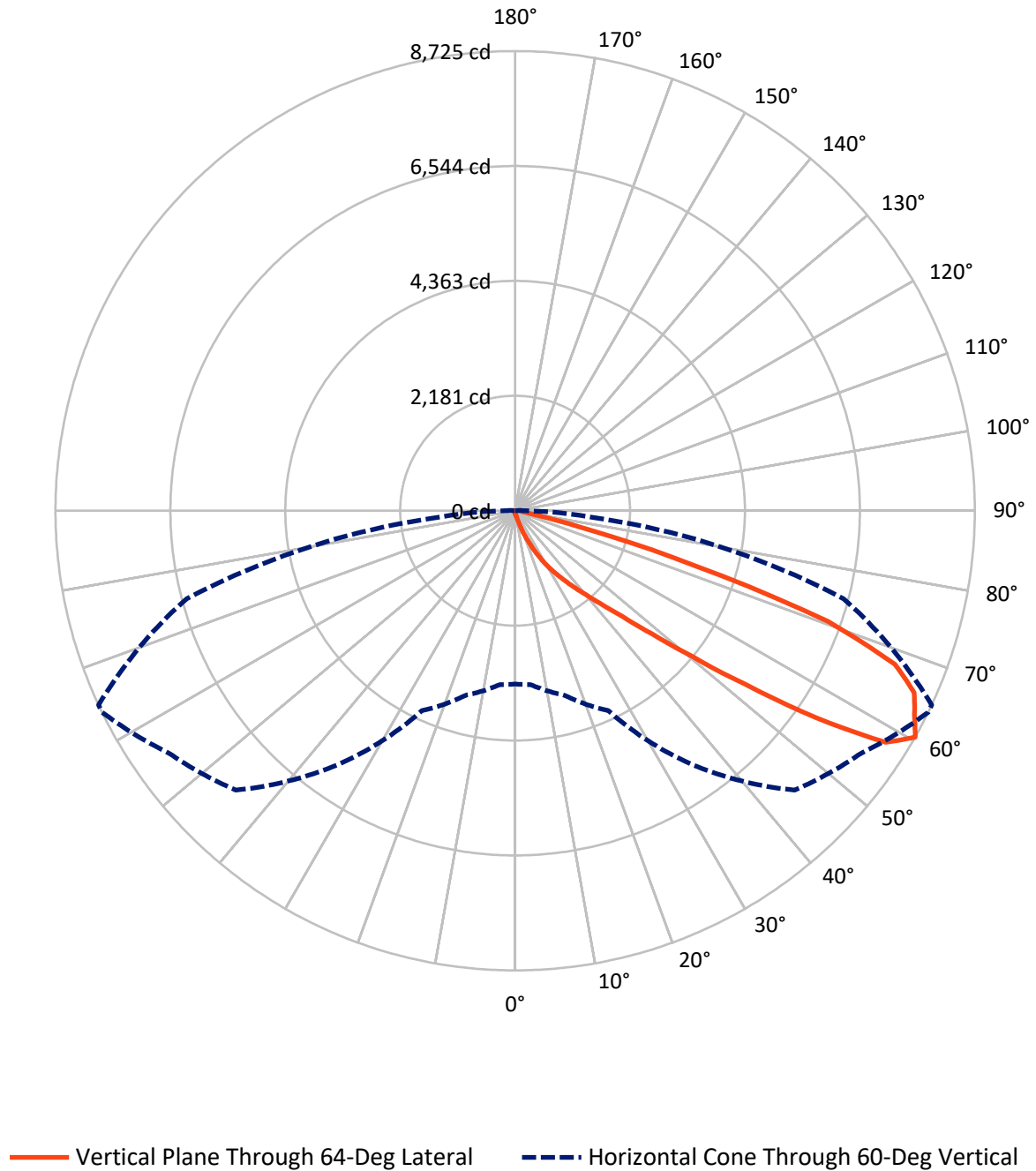
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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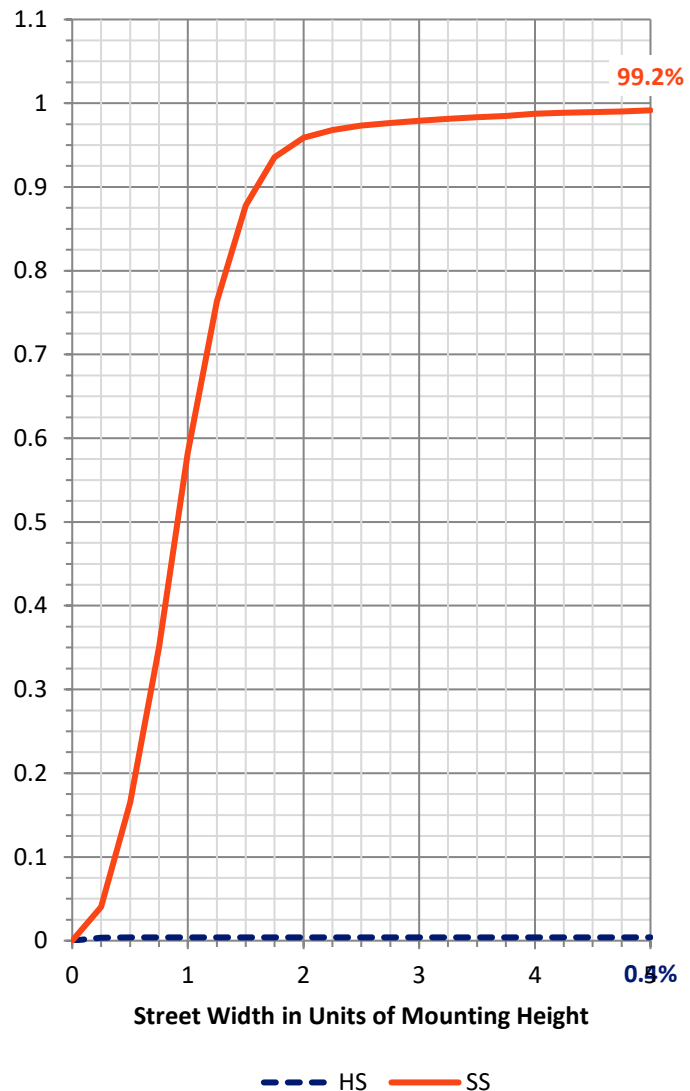
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.5	0.0	31.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7731.7	0.0	7731.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	7763.2	0.0	7763.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.1
10°-20°	76.3	1.0
20°-30°	253.4	3.3
30°-40°	676.1	8.7
40°-50°	1718.4	22.1
50°-60°	2505.1	32.3
60°-70°	1934.9	24.9
70°-80°	531.4	6.8
80°-90°	60.0	0.8
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°	7763.2	100.0
0°-180°	7763.2	100.0



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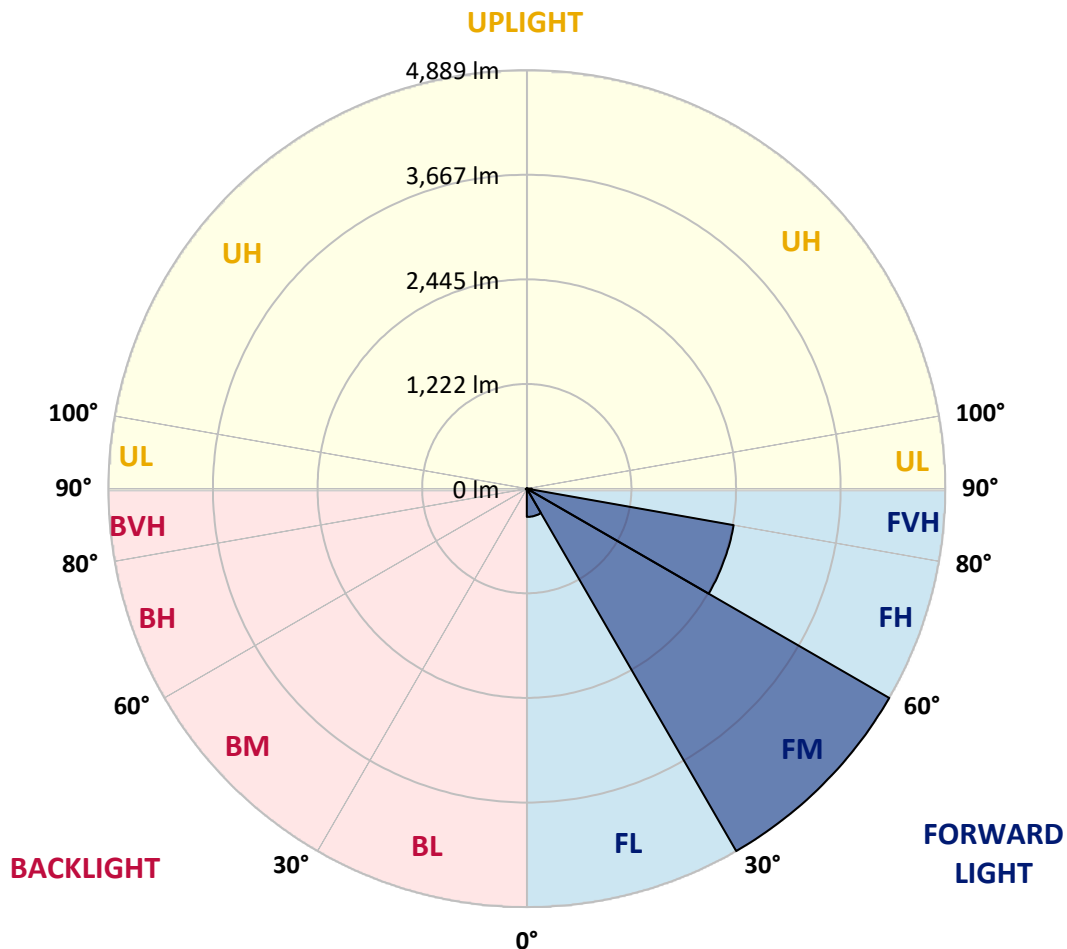
CATALOG NUMBER: NVN-SA3A-722-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.3	4.3			
FM	(30°-60°)	4889.1	63.0			
FH	(60°-80°)	2453.7	31.6			G2/5000
FVH	(80°-90°)	58.6	0.8			G1/100
BL	(0°-30°)	7.1	0.1	B0/110		
BM	(30°-60°)	10.4	0.1	B0/220		
BH	(60°-80°)	12.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	68.4	68.4	68.4	66.2	64.1	64.1	62.0	59.8	59.8	55.6	53.4
5°	104.7	104.7	100.4	96.2	89.8	81.2	72.7	66.2	66.2	59.8	55.6
7.5°	205.1	211.6	192.3	168.8	136.8	115.4	91.9	76.9	74.8	64.1	55.6
10°	444.5	440.2	410.3	352.6	277.8	200.9	128.2	94.0	89.8	68.4	55.6
12.5°	668.9	675.3	643.2	579.1	489.4	356.9	220.1	121.8	117.5	74.8	55.6
15°	861.2	861.2	839.8	807.8	709.5	570.6	354.7	181.6	166.7	81.2	53.4
17.5°	993.7	991.5	983.0	974.4	916.7	773.6	542.8	290.6	256.4	96.2	53.4
20°	1143.3	1136.8	1147.5	1130.4	1085.6	972.3	741.5	431.7	399.6	121.8	53.4
22.5°	1299.3	1305.7	1314.2	1297.1	1248.0	1149.7	950.9	613.3	579.1	168.8	55.6
25°	1498.0	1493.7	1512.9	1498.0	1436.0	1320.6	1147.5	812.0	762.9	235.1	59.8
27.5°	1741.6	1733.1	1745.9	1707.4	1626.2	1508.7	1322.8	1015.0	957.3	337.6	68.4
30°	2064.3	2070.7	2013.0	1968.1	1852.7	1696.7	1517.2	1233.0	1173.2	459.4	76.9
32.5°	2572.9	2528.0	2438.2	2256.6	2104.9	1906.1	1711.7	1423.2	1369.8	615.4	89.8
35°	3365.7	3374.2	3177.6	2728.9	2399.8	2169.0	1925.4	1632.6	1594.2	792.8	106.8
37.5°	4331.6	4308.1	4135.0	3568.7	2831.4	2495.9	2169.0	1861.3	1805.7	985.1	128.2
40°	5425.7	5327.4	5226.9	4842.3	3731.1	2906.2	2476.7	2126.2	2083.5	1207.4	162.4
42.5°	6301.8	6276.2	6293.3	6133.0	5231.2	3605.0	2884.9	2451.1	2399.8	1483.0	222.2
45°	6733.5	6697.1	6799.7	6919.4	6688.6	5092.3	3543.0	2865.6	2797.2	1807.8	314.1
47.5°	6618.1	6592.4	6812.5	7047.6	7355.3	6816.8	4617.9	3485.3	3367.8	2224.5	450.9
50°	6049.7	6051.8	6412.9	6851.0	7338.2	7690.8	6209.9	4333.7	4186.2	2778.0	664.6
52.5°	5496.2	5513.3	5895.8	6534.7	7083.9	7793.4	7607.5	5477.0	5237.6	3429.8	916.7
55°	4927.8	4936.3	5273.9	6173.6	6964.3	7487.8	8325.5	6949.3	6695.0	4241.8	1162.5
57.5°	4380.7	4380.7	4506.8	5306.0	6833.9	7460.0	8240.0	8295.6	8088.3	5169.2	1344.1
60°	3290.9	3312.2	3626.4	4186.2	5893.7	7500.6	8022.0	8725.1	8725.1	6455.7	1483.0
62.5°	1662.5	1694.6	2085.6	2630.6	4043.1	6940.8	8056.2	8509.3	8543.4	7590.4	1799.3
65°	780.0	816.3	1025.7	1410.4	2175.4	4885.0	7701.5	8325.5	8314.8	7374.5	2466.0
67.5°	559.9	570.6	641.1	822.7	1171.0	2141.2	5878.7	7776.3	7780.6	6265.5	2835.7
70°	502.2	502.2	519.3	572.7	705.2	957.3	2857.1	6297.5	6603.1	4838.0	2628.4
72.5°	495.8	491.5	487.2	489.4	476.5	480.8	980.9	3555.9	3991.8	3384.9	2096.3
75°	482.9	482.9	478.7	463.7	380.4	309.9	337.6	1438.2	1662.5	2260.9	1555.7
77.5°	382.5	421.0	465.9	438.1	348.3	232.9	196.6	416.7	525.7	1386.9	1128.3
80°	177.4	179.5	177.4	185.9	222.2	166.7	145.3	203.0	205.1	769.3	698.8
82.5°	128.2	130.4	123.9	111.1	98.3	89.8	119.7	149.6	160.3	352.6	260.7
85°	38.5	36.3	42.7	57.7	68.4	79.1	100.4	126.1	132.5	130.4	38.5
87.5°	17.1	17.1	21.4	29.9	40.6	59.8	87.6	115.4	117.5	134.6	10.7
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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CATALOG NUMBER: NVN-SA3A-722-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	53.4	51.3	49.1	47.0	44.9	42.7	40.6	40.6	42.7	42.7	42.7
5°	51.3	49.1	44.9	40.6	38.5	36.3	34.2	34.2	36.3	36.3	36.3
7.5°	51.3	47.0	42.7	38.5	34.2	32.1	29.9	29.9	29.9	32.1	32.1
10°	51.3	47.0	40.6	34.2	29.9	27.8	25.6	23.5	25.6	25.6	25.6
12.5°	49.1	44.9	38.5	32.1	25.6	21.4	19.2	19.2	19.2	19.2	19.2
15°	47.0	42.7	36.3	27.8	21.4	17.1	12.8	12.8	12.8	15.0	15.0
17.5°	44.9	40.6	32.1	21.4	15.0	10.7	8.5	8.5	8.5	10.7	10.7
20°	44.9	38.5	27.8	17.1	10.7	6.4	4.3	4.3	4.3	6.4	8.5
22.5°	44.9	38.5	25.6	12.8	6.4	4.3	2.1	2.1	2.1	2.1	2.1
25°	44.9	36.3	23.5	10.7	4.3	2.1	0.0	0.0	2.1	4.3	6.4
27.5°	44.9	34.2	19.2	6.4	4.3	2.1	0.0	2.1	4.3	4.3	4.3
30°	44.9	34.2	17.1	6.4	2.1	0.0	0.0	2.1	4.3	4.3	6.4
32.5°	47.0	32.1	15.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	49.1	29.9	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	53.4	29.9	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	59.8	32.1	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	74.8	34.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	104.7	42.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	153.9	64.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	224.4	87.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	275.7	87.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	273.5	55.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	209.4	38.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	177.4	27.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	213.7	21.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	380.4	19.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	611.2	19.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	683.8	19.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	534.2	17.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	292.8	15.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	147.4	10.7	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	62.0	8.5	4.3	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	21.4	8.5	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	10.7	6.4	6.4	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	6.4	6.4	6.4	4.3	4.3	2.1	2.1	0.0	0.0	0.0	2.1
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

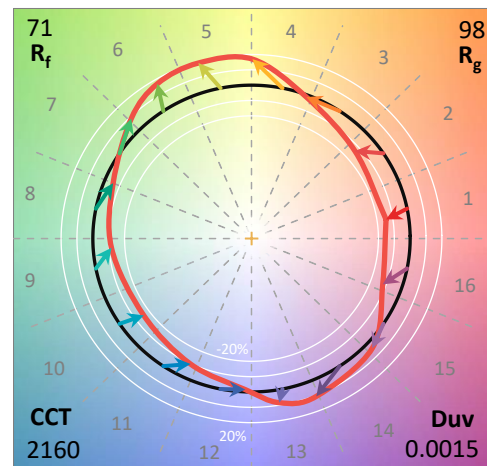
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

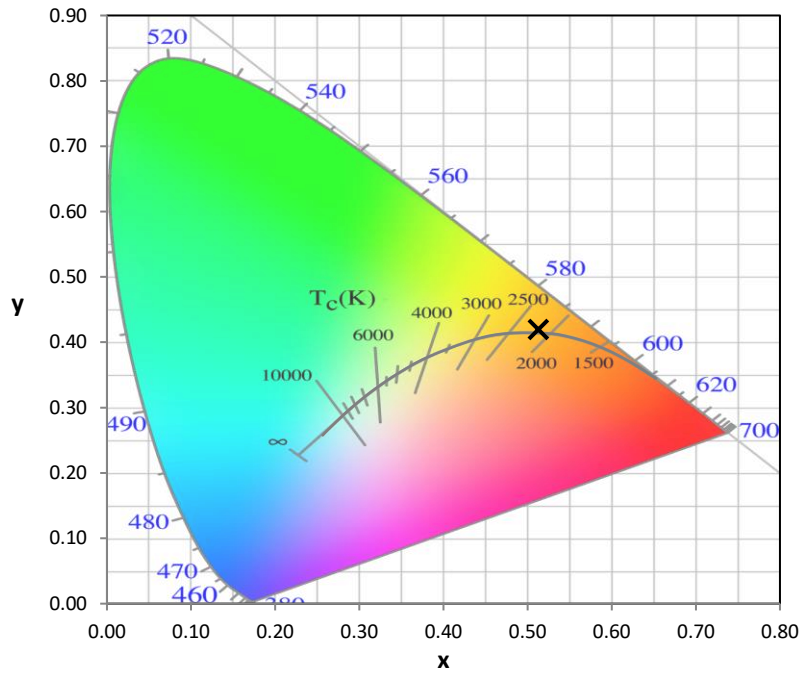
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

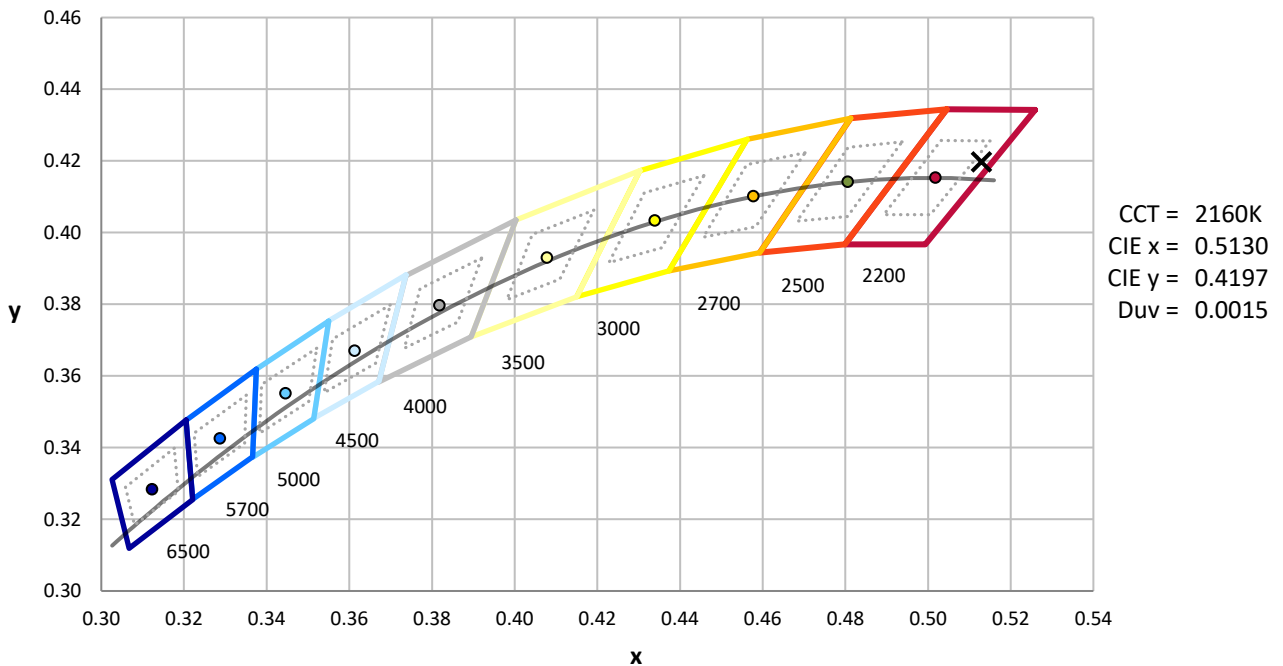
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



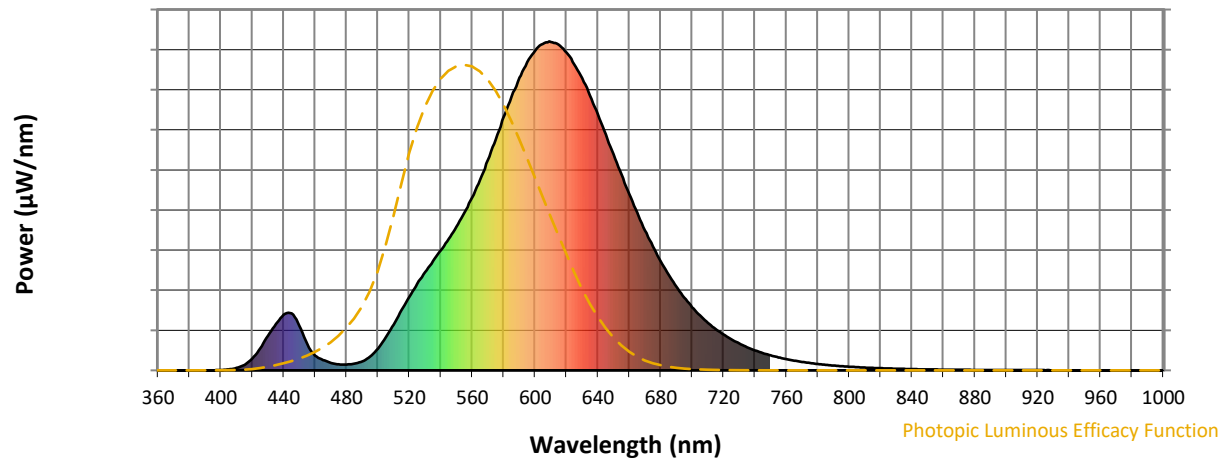
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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Photopic Flux vs. Wavelength

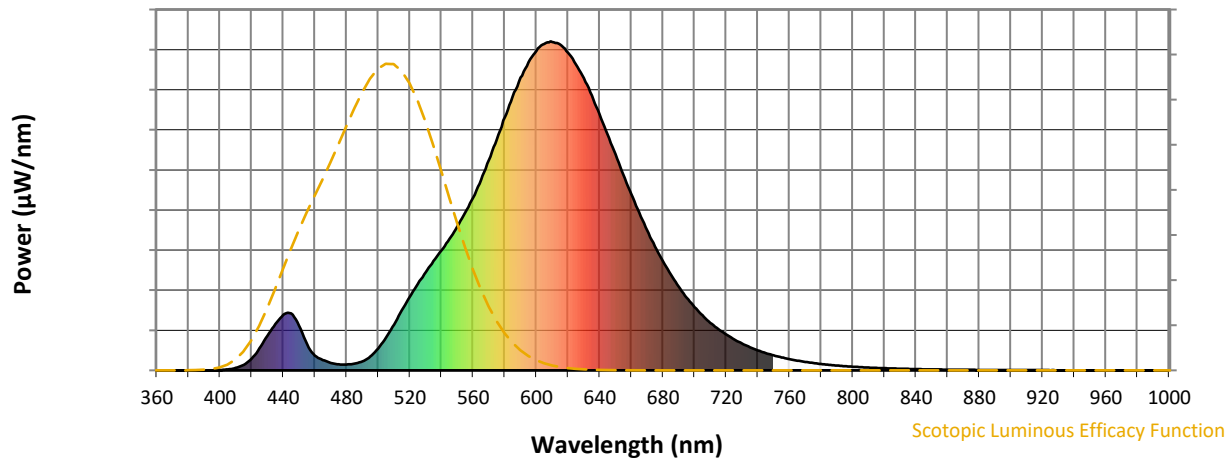


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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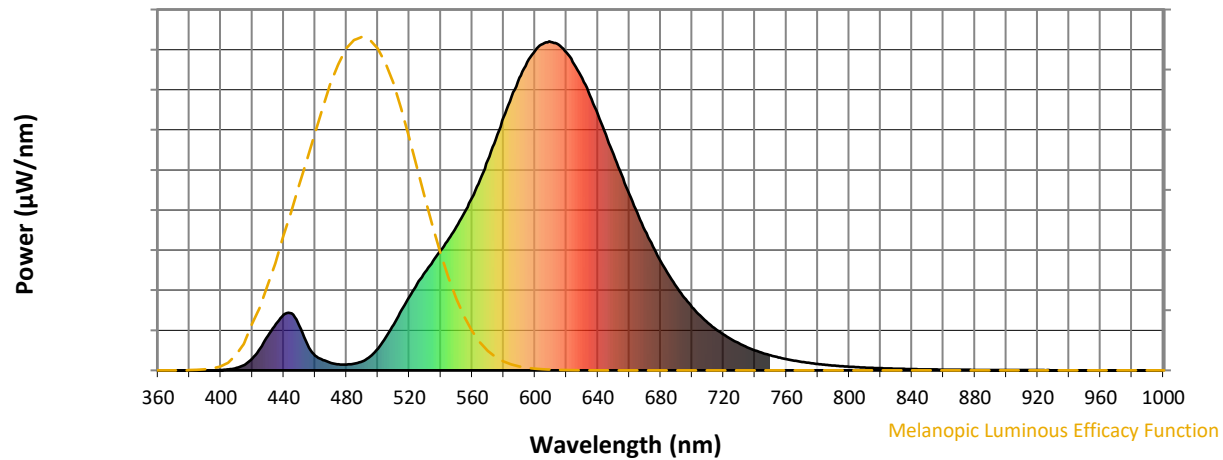
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

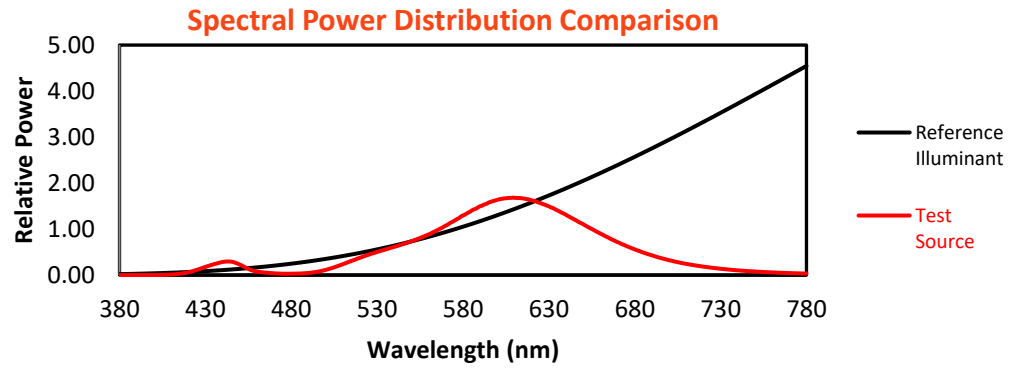
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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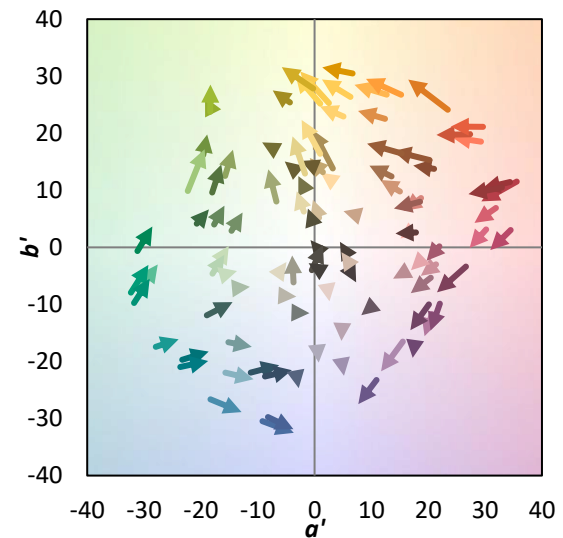
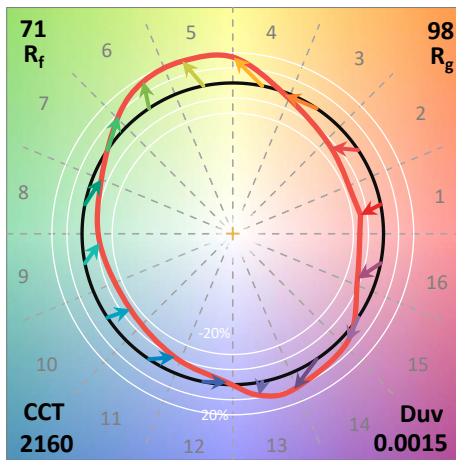
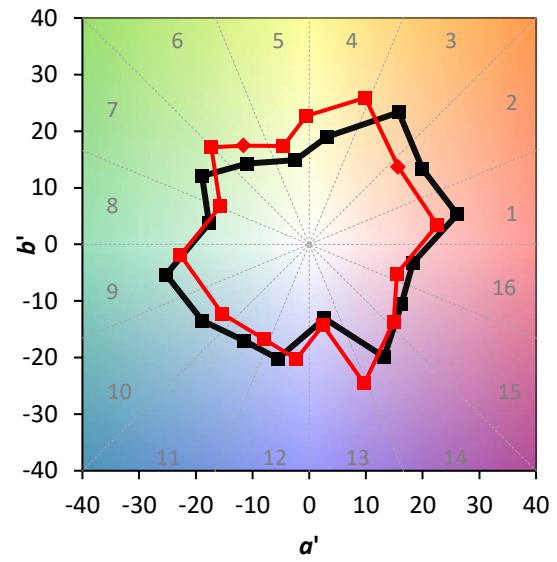
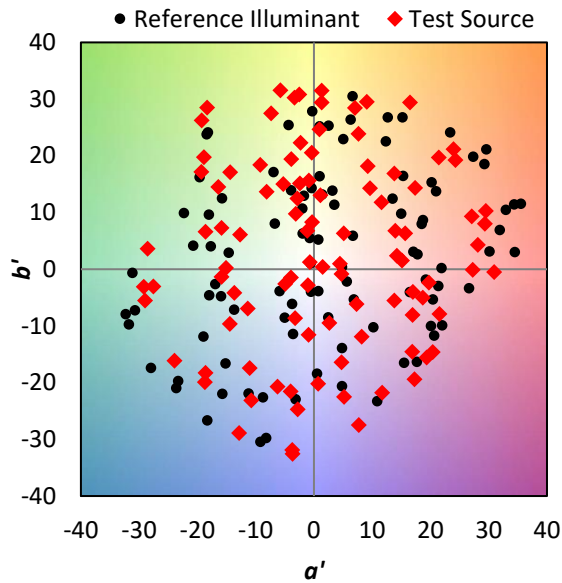
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

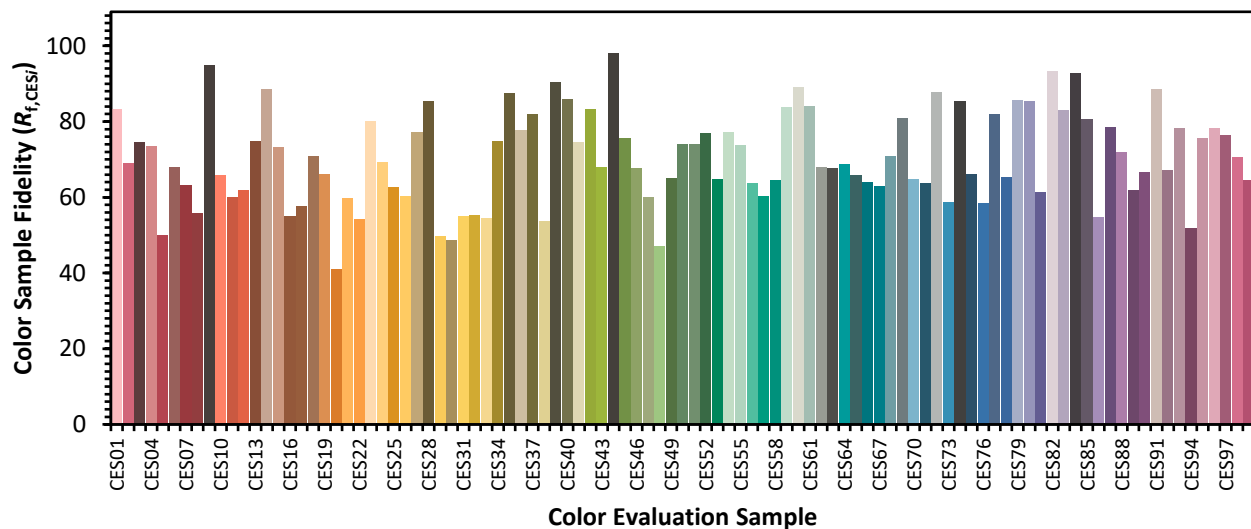


Color Vector Graphics

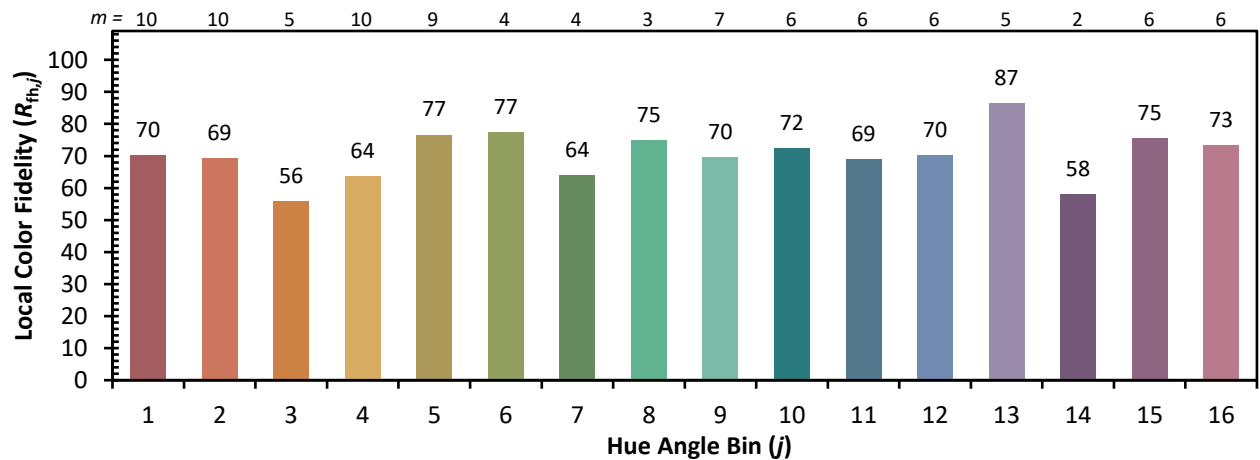
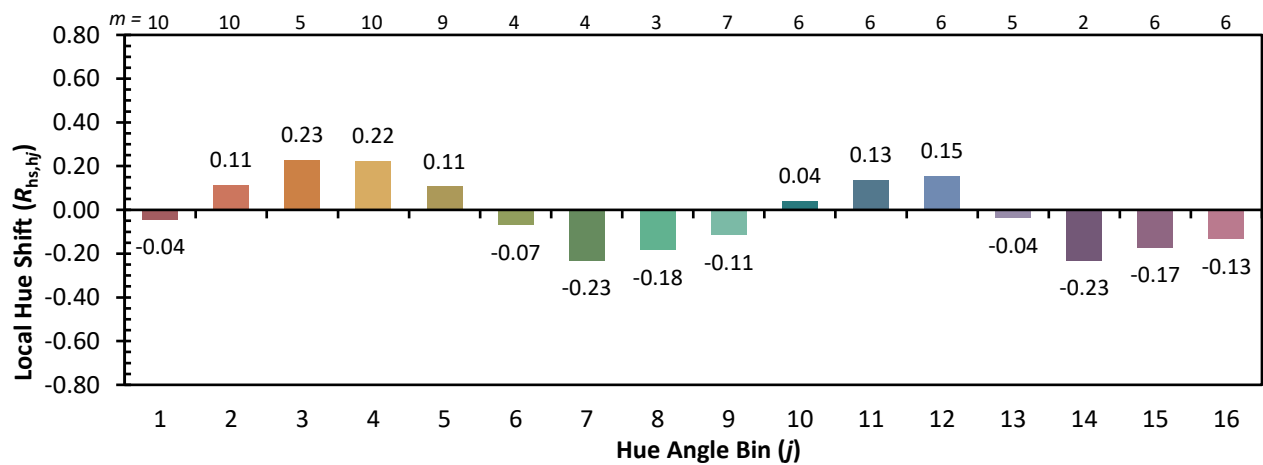
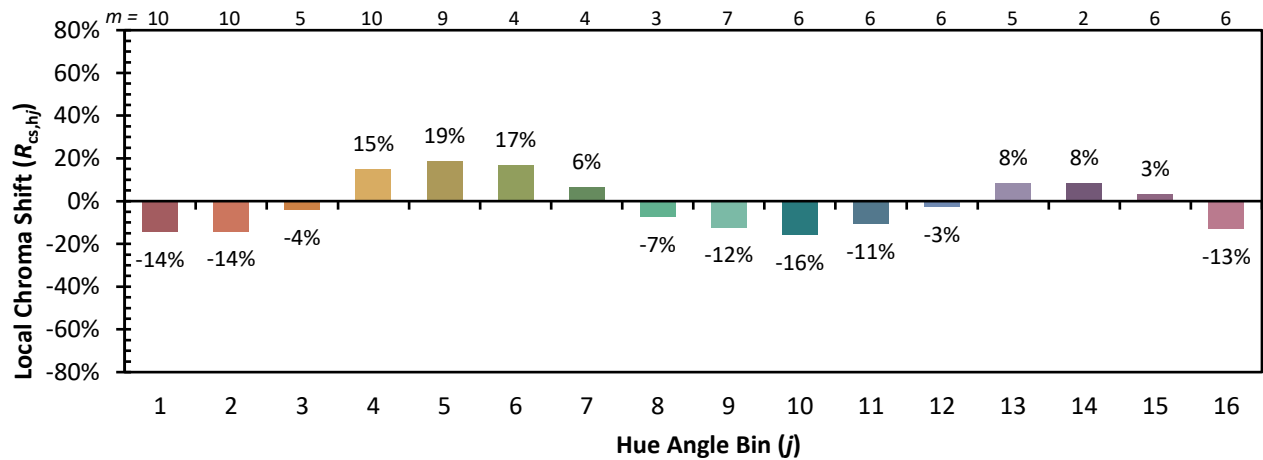


Individual Sample Fidelity Index ($R_{f,i}$)

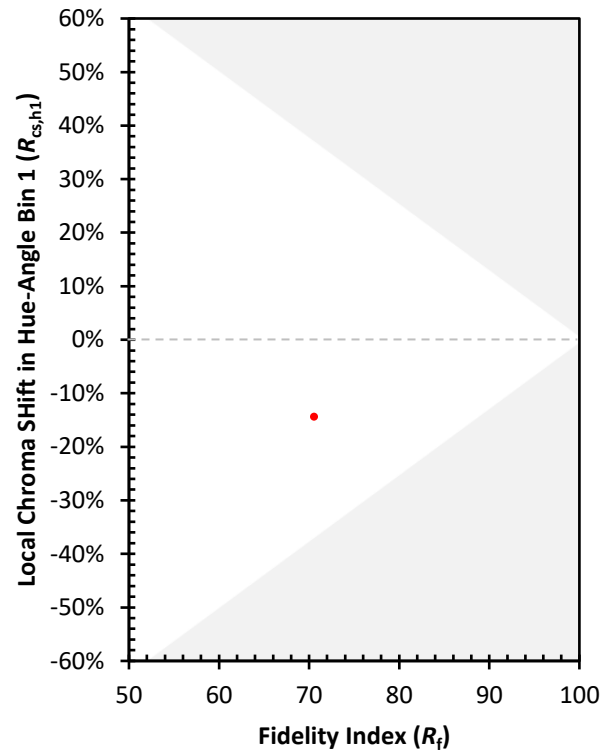
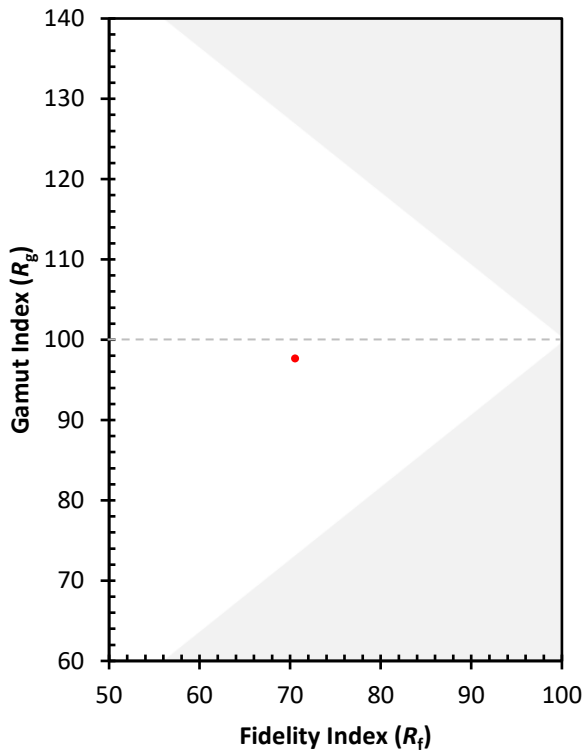
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)