

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: P1067184

Luminaire Tested: **NAV-SA3D-722-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067184
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-722-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 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: 13220.5 lumens
Efficiency: N/A
Efficacy: 82.2 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): 160.9
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

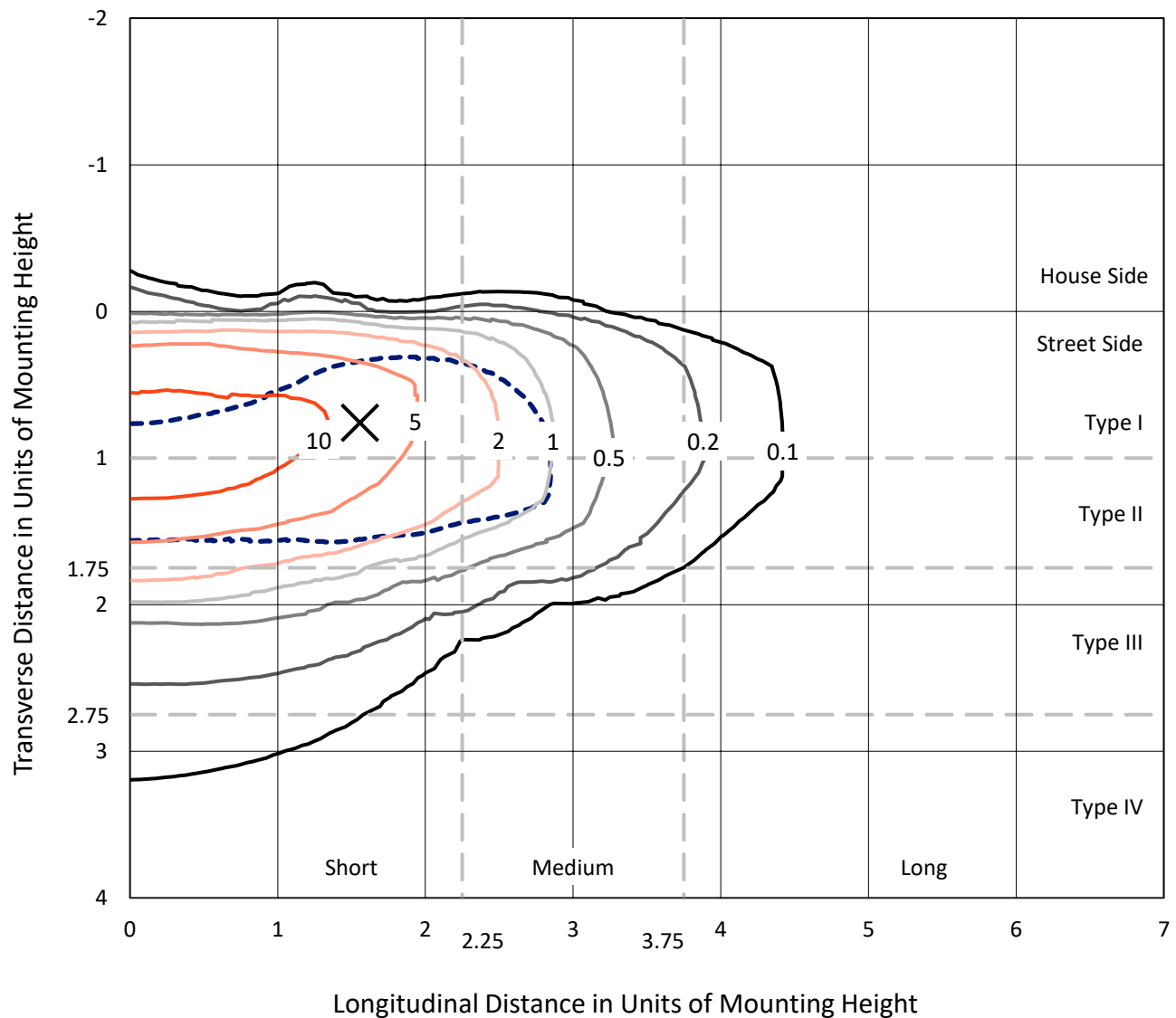


REPORT NUMBER: P1067184

CATALOG NUMBER: NAV-SA3D-722-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

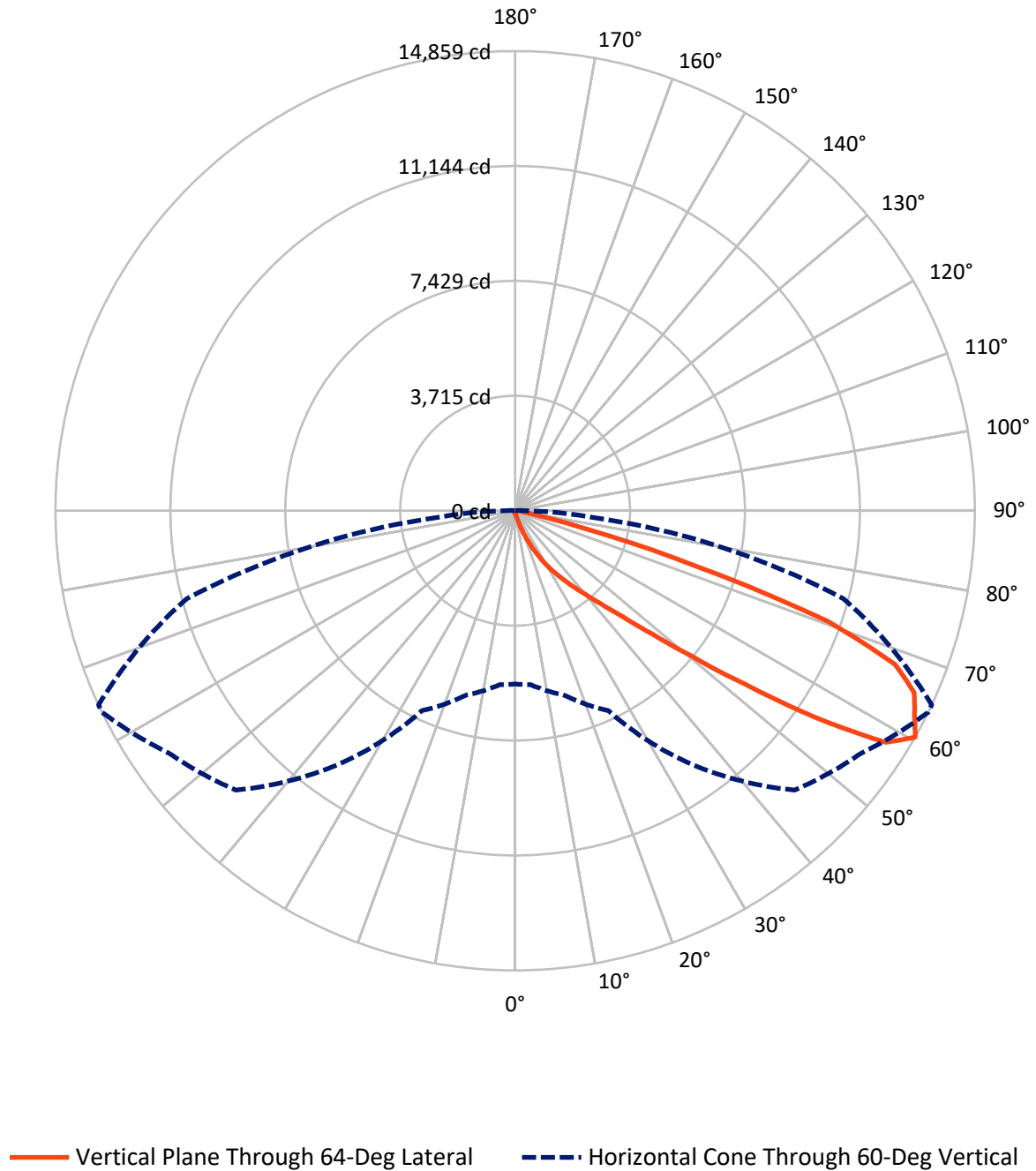


Based on 15 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P1067184

CATALOG NUMBER: NAV-SA3D-722-U-T2BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067184

CATALOG NUMBER: NAV-SA3D-722-U-T2BC

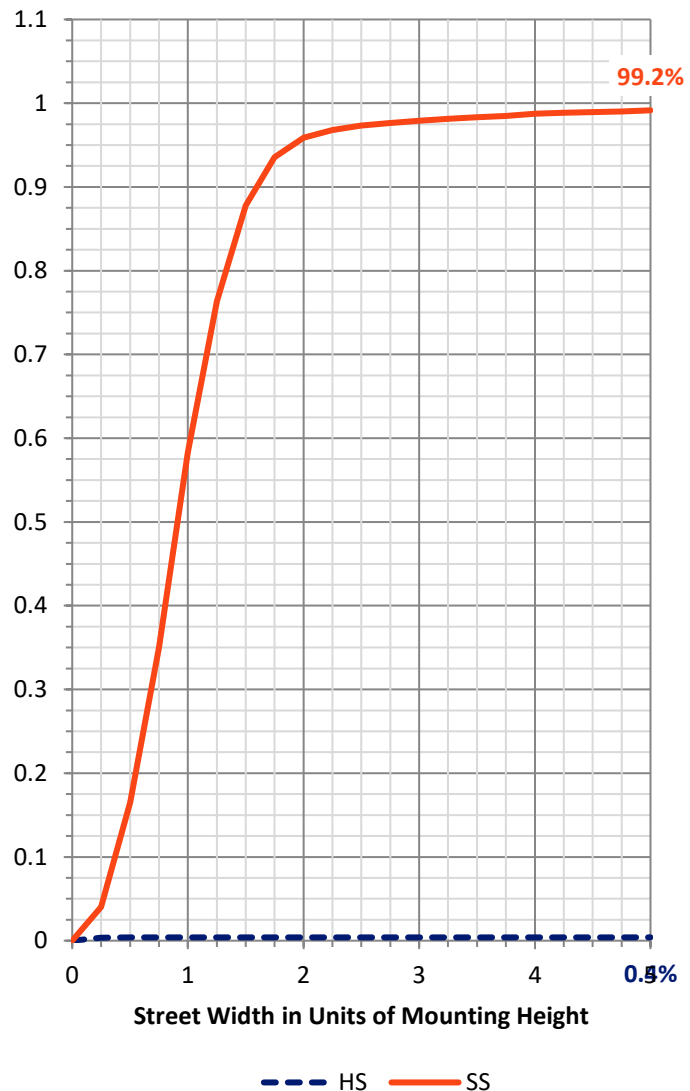
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	53.6	0.0	53.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13166.9	0.0	13166.9
	% Fixture	99.6	0.0	99.6
Total	Lumens	13220.5	0.0	13220.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.1
10°-20°	129.9	1.0
20°-30°	431.5	3.3
30°-40°	1151.3	8.7
40°-50°	2926.4	22.1
50°-60°	4266.1	32.3
60°-70°	3295.1	24.9
70°-80°	904.9	6.8
80°-90°	102.1	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°	13220.5	100.0
0°-180°	13220.5	100.0



REPORT NUMBER: P1067184

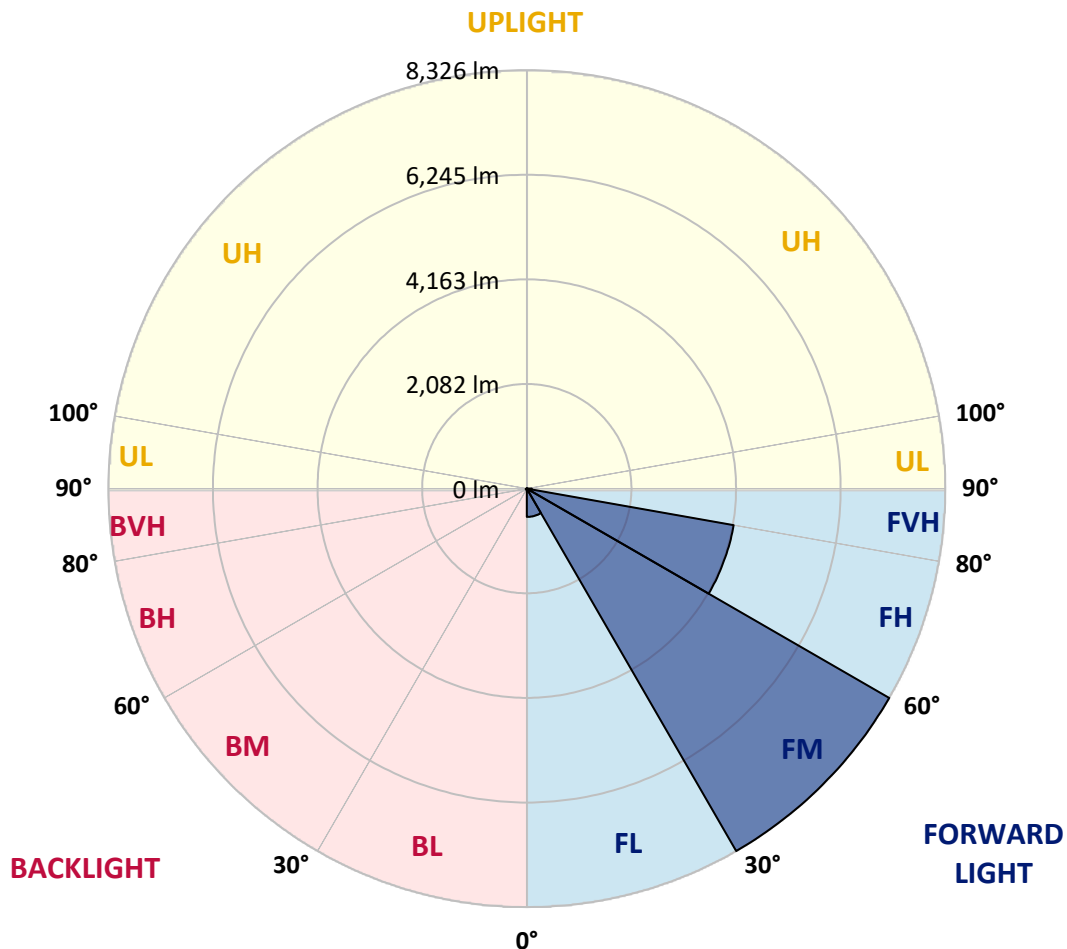
CATALOG NUMBER: NAV-SA3D-722-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.5	4.3			
FM	(30°-60°)	8326.0	63.0			
FH	(60°-80°)	4178.6	31.6			G2/5000
FVH	(80°-90°)	99.7	0.8			G1/100
BL	(0°-30°)	12.0	0.1	B0/110		
BM	(30°-60°)	17.8	0.1	B0/220		
BH	(60°-80°)	21.4	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-G2

Type II Short



REPORT NUMBER: P1067184

CATALOG NUMBER: NAV-SA3D-722-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	116.5	116.5	116.5	112.8	109.2	109.2	105.5	101.9	101.9	94.6	91.0
5°	178.3	178.3	171.0	163.8	152.8	138.3	123.7	112.8	112.8	101.9	94.6
7.5°	349.4	360.3	327.5	287.5	232.9	196.5	156.5	131.0	127.4	109.2	94.6
10°	756.9	749.7	698.7	600.5	473.1	342.1	218.3	160.1	152.8	116.5	94.6
12.5°	1139.0	1150.0	1095.4	986.2	833.4	607.7	374.8	207.4	200.2	127.4	94.6
15°	1466.6	1466.6	1430.2	1375.6	1208.2	971.6	604.1	309.3	283.9	138.3	91.0
17.5°	1692.2	1688.6	1674.0	1659.4	1561.2	1317.4	924.3	494.9	436.7	163.8	91.0
20°	1946.9	1936.0	1954.2	1925.1	1848.7	1655.8	1262.8	735.1	680.5	207.4	91.0
22.5°	2212.6	2223.5	2238.1	2209.0	2125.3	1957.9	1619.4	1044.4	986.2	287.5	94.6
25°	2551.0	2543.8	2576.5	2551.0	2445.5	2249.0	1954.2	1382.9	1299.2	400.3	101.9
27.5°	2965.9	2951.3	2973.2	2907.7	2769.4	2569.2	2252.6	1728.6	1630.3	575.0	116.5
30°	3515.4	3526.3	3428.1	3351.6	3155.1	2889.5	2583.8	2099.8	1997.9	782.4	131.0
32.5°	4381.5	4305.1	4152.3	3842.9	3584.5	3246.1	2914.9	2423.7	2332.7	1048.1	152.8
35°	5731.6	5746.2	5411.4	4647.2	4086.7	3693.7	3278.9	2780.3	2714.8	1350.1	182.0
37.5°	7376.5	7336.5	7041.7	6077.4	4821.9	4250.5	3693.7	3169.7	3075.1	1677.6	218.3
40°	9239.8	9072.4	8901.3	8246.3	6353.9	4949.2	4217.8	3620.9	3548.2	2056.1	276.6
42.5°	10731.8	10688.1	10717.3	10444.3	8908.6	6139.2	4912.8	4174.1	4086.7	2525.6	378.5
45°	11466.9	11405.0	11579.7	11783.5	11390.5	8672.1	6033.7	4880.1	4763.6	3078.7	535.0
47.5°	11270.4	11226.7	11601.6	12001.9	12525.9	11608.8	7864.2	5935.4	5735.3	3788.3	767.9
50°	10302.4	10306.0	10921.0	11667.1	12496.8	13097.2	10575.3	7380.2	7129.1	4730.9	1131.8
52.5°	9359.9	9389.0	10040.4	11128.5	12063.7	13271.9	12955.3	9327.1	8919.5	5840.8	1561.2
55°	8391.8	8406.4	8981.4	10513.5	11859.9	12751.5	14178.1	11834.5	11401.4	7223.7	1979.7
57.5°	7460.2	7460.2	7674.9	9036.0	11638.0	12704.2	14032.5	14127.1	13774.1	8803.1	2289.0
60°	5604.3	5640.7	6175.6	7129.1	10036.7	12773.4	13661.3	14858.6	14858.6	10993.8	2525.6
62.5°	2831.2	2885.8	3551.8	4479.8	6885.2	11819.9	13719.5	14491.0	14549.3	12926.2	3064.2
65°	1328.3	1390.1	1746.8	2401.8	3704.6	8319.1	13115.4	14178.1	14159.9	12558.7	4199.6
67.5°	953.5	971.6	1091.7	1401.1	1994.2	3646.4	10011.3	13242.8	13250.1	10669.9	4829.1
70°	855.2	855.2	884.3	975.3	1200.9	1630.3	4865.5	10724.5	11244.9	8239.0	4476.1
72.5°	844.3	837.0	829.7	833.4	811.5	818.8	1670.4	6055.5	6797.9	5764.4	3570.0
75°	822.4	822.4	815.2	789.7	647.8	527.7	575.0	2449.1	2831.2	3850.2	2649.3
77.5°	651.4	716.9	793.3	746.0	593.2	396.7	334.8	709.6	895.2	2361.8	1921.5
80°	302.0	305.7	302.0	316.6	378.5	283.9	247.5	345.7	349.4	1310.1	1190.0
82.5°	218.3	222.0	211.1	189.2	167.4	152.8	203.8	254.7	272.9	600.5	444.0
85°	65.5	61.9	72.8	98.3	116.5	134.6	171.0	214.7	225.6	222.0	65.5
87.5°	29.1	29.1	36.4	50.9	69.1	101.9	149.2	196.5	200.2	229.3	18.2
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: P1067184

CATALOG NUMBER: NAV-SA3D-722-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	91.0	87.3	83.7	80.1	76.4	72.8	69.1	69.1	72.8	72.8	72.8
5°	87.3	83.7	76.4	69.1	65.5	61.9	58.2	58.2	61.9	61.9	61.9
7.5°	87.3	80.1	72.8	65.5	58.2	54.6	50.9	50.9	50.9	54.6	54.6
10°	87.3	80.1	69.1	58.2	50.9	47.3	43.7	40.0	43.7	43.7	43.7
12.5°	83.7	76.4	65.5	54.6	43.7	36.4	32.8	32.8	32.8	32.8	32.8
15°	80.1	72.8	61.9	47.3	36.4	29.1	21.8	21.8	21.8	25.5	25.5
17.5°	76.4	69.1	54.6	36.4	25.5	18.2	14.6	14.6	14.6	18.2	18.2
20°	76.4	65.5	47.3	29.1	18.2	10.9	7.3	7.3	7.3	10.9	14.6
22.5°	76.4	65.5	43.7	21.8	10.9	7.3	3.6	3.6	3.6	3.6	3.6
25°	76.4	61.9	40.0	18.2	7.3	3.6	0.0	0.0	3.6	7.3	10.9
27.5°	76.4	58.2	32.8	10.9	7.3	3.6	0.0	3.6	7.3	7.3	7.3
30°	76.4	58.2	29.1	10.9	3.6	0.0	0.0	3.6	7.3	7.3	10.9
32.5°	80.1	54.6	25.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	83.7	50.9	21.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	91.0	50.9	14.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	101.9	54.6	14.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	127.4	58.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	178.3	72.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	262.0	109.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	382.1	149.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	469.4	149.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	465.8	94.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	356.6	65.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	302.0	47.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	363.9	36.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	647.8	32.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1040.8	32.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1164.5	32.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	909.8	29.1	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	498.6	25.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	251.1	18.2	7.3	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	105.5	14.6	7.3	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	36.4	14.6	7.3	7.3	3.6	3.6	0.0	0.0	0.0	0.0	0.0
85°	18.2	10.9	10.9	7.3	7.3	3.6	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	10.9	10.9	7.3	7.3	3.6	3.6	0.0	0.0	0.0	3.6
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

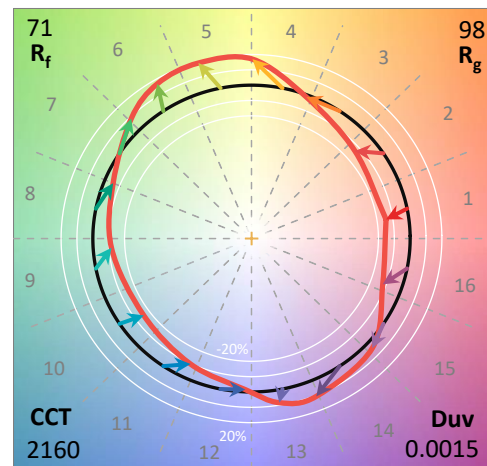
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

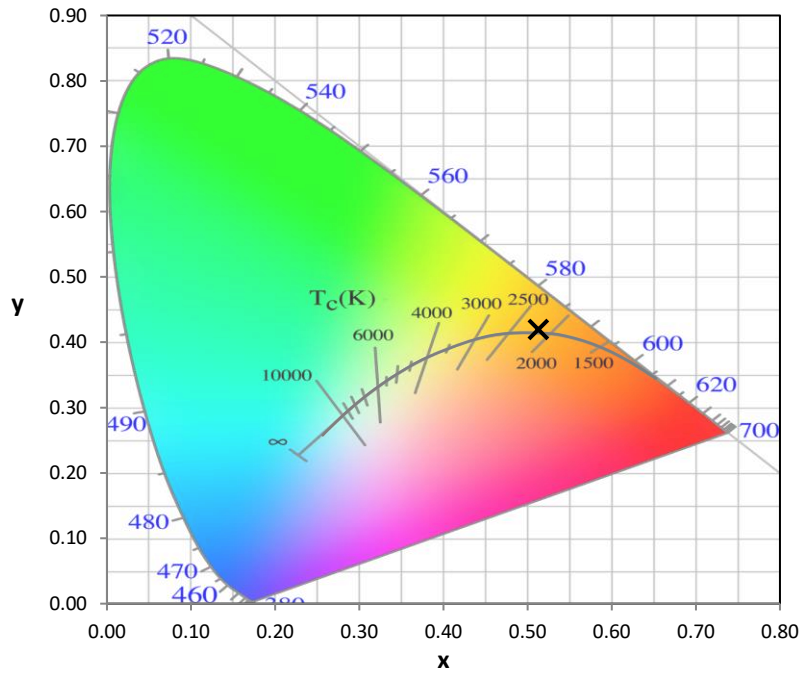
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

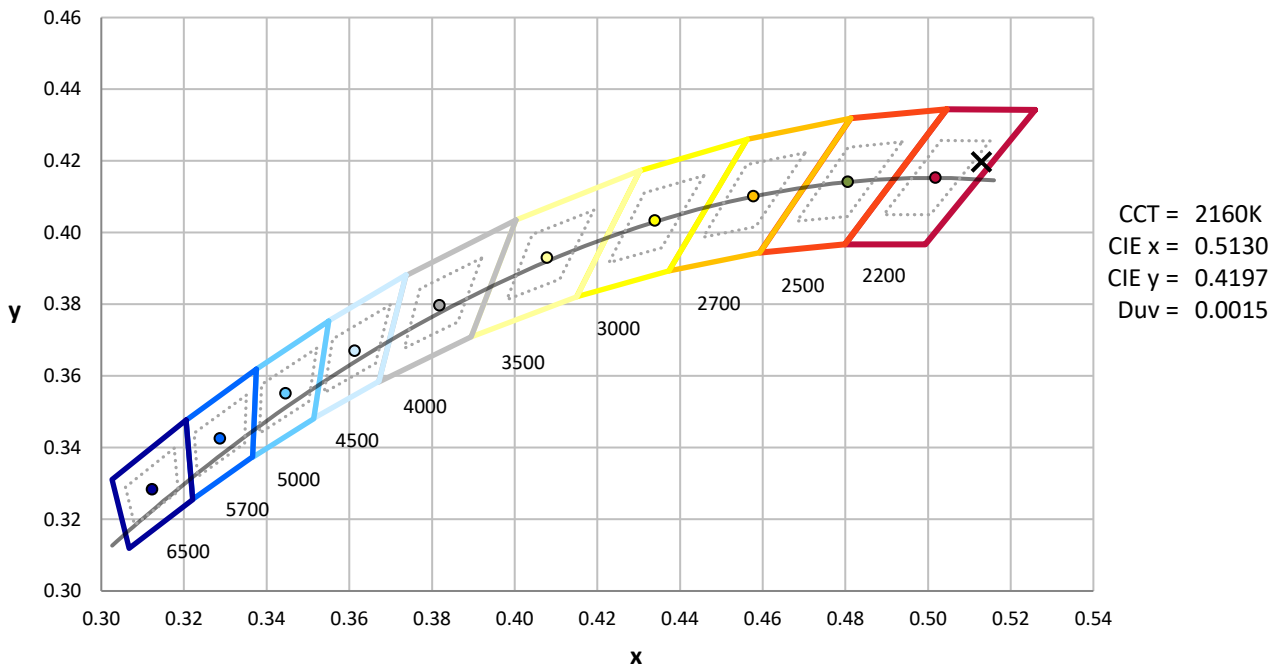
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

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

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

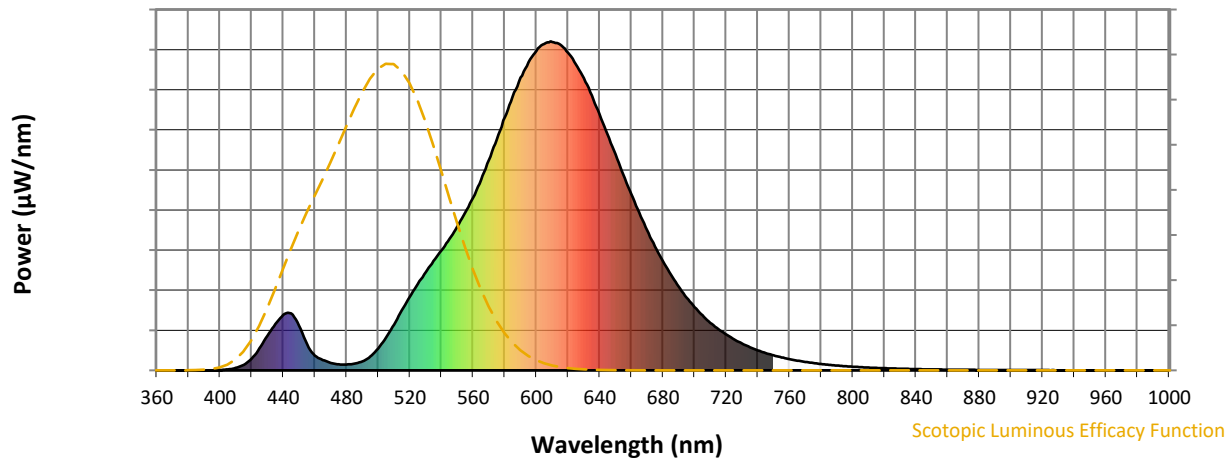


Photopic Lumens: NR

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	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			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



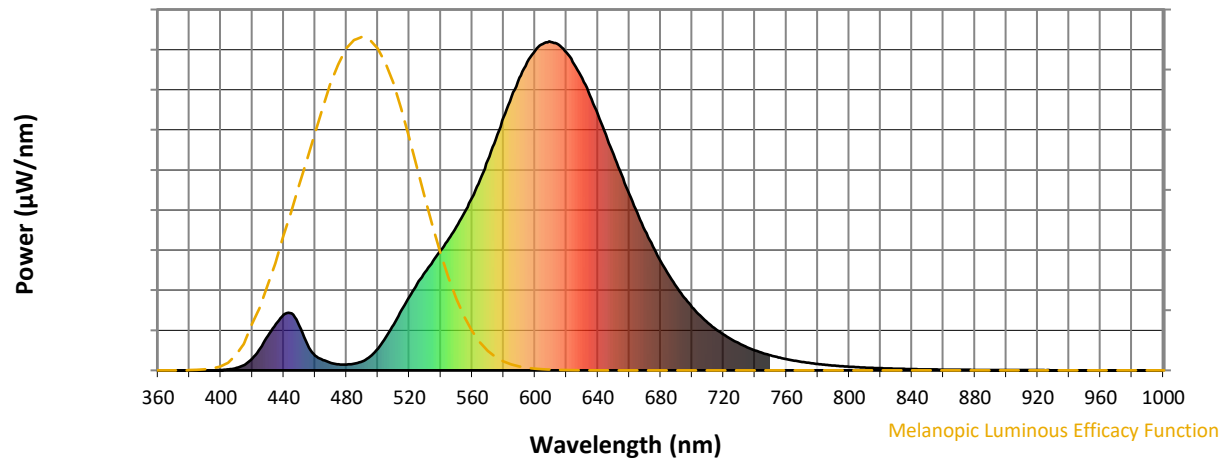
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

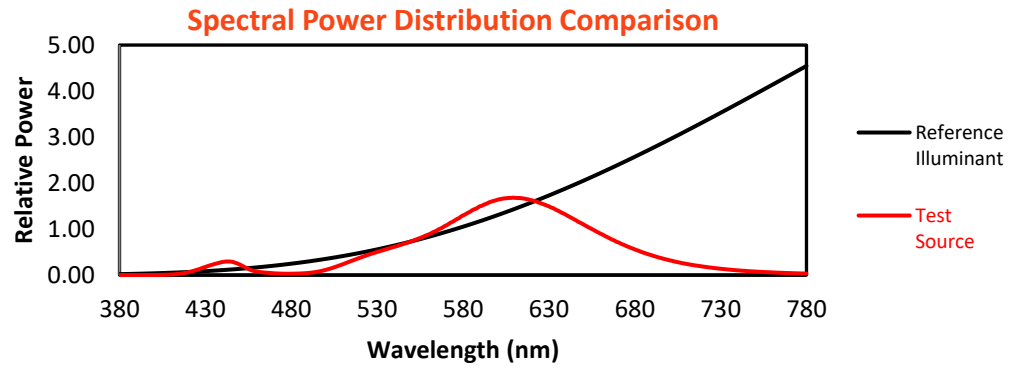
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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			

REPORT NUMBER: SP1-2407-184-2

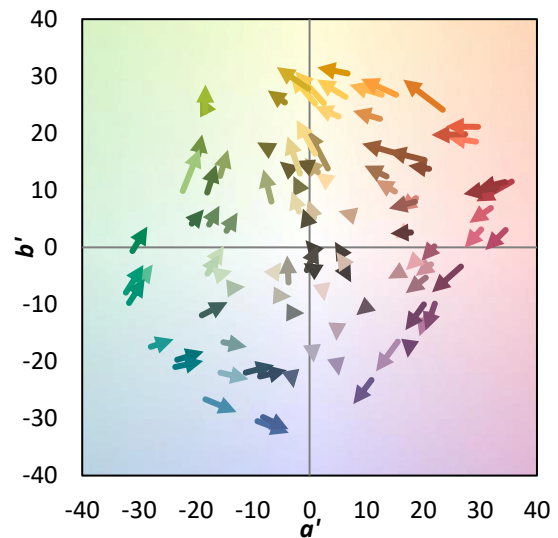
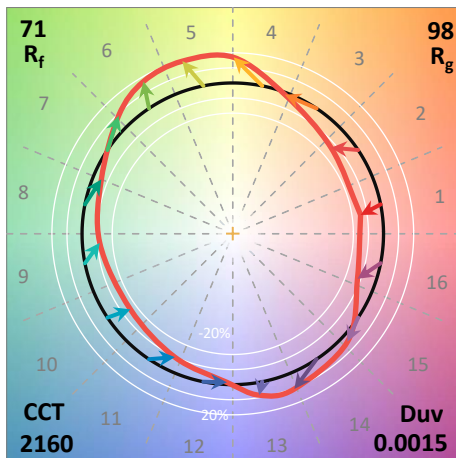
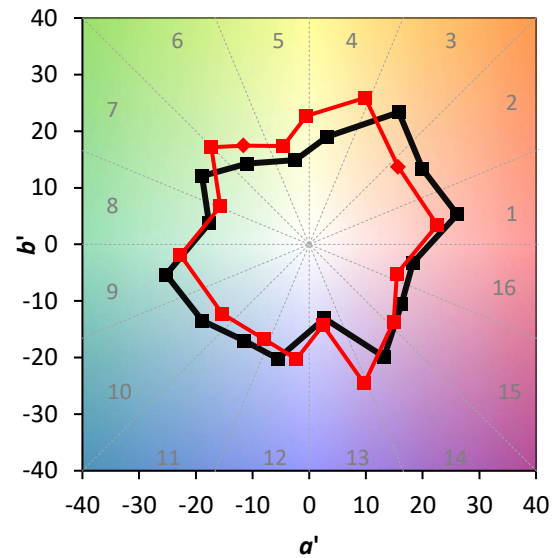
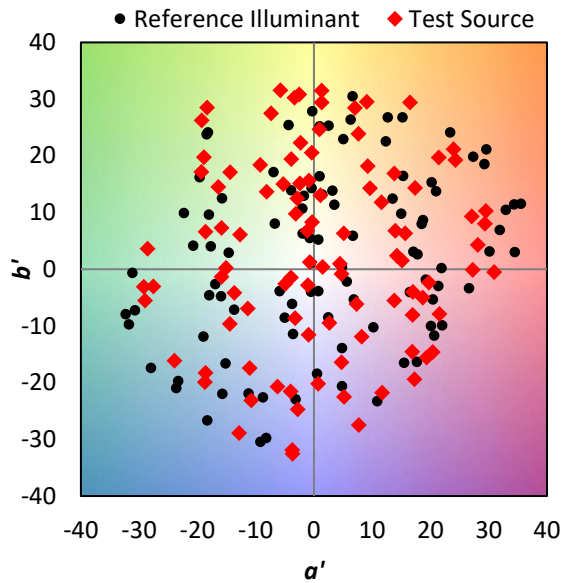
TM-30-18

Summary

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

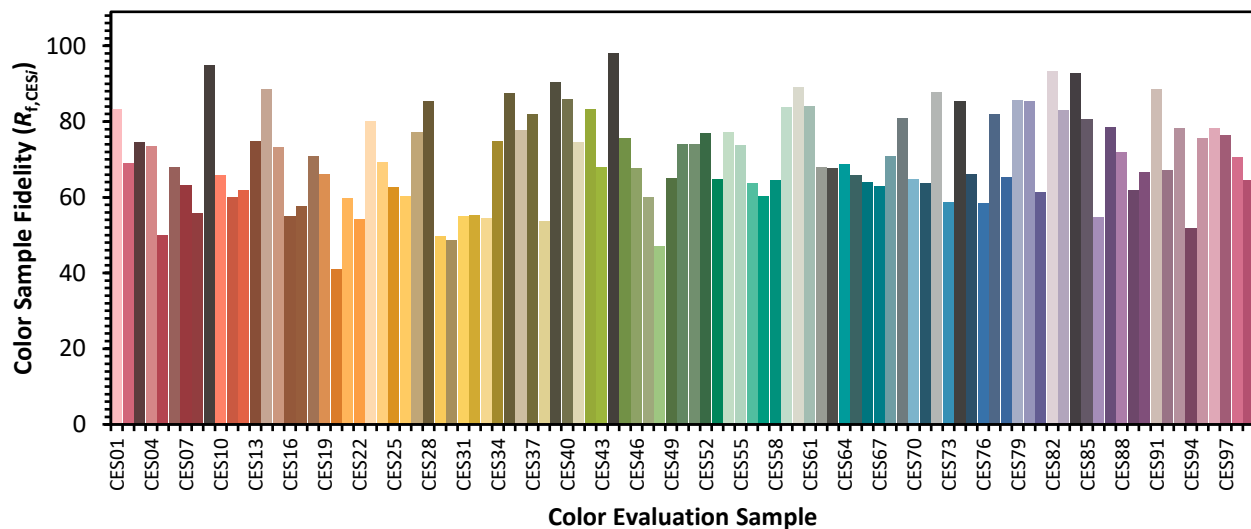


Color Vector Graphics

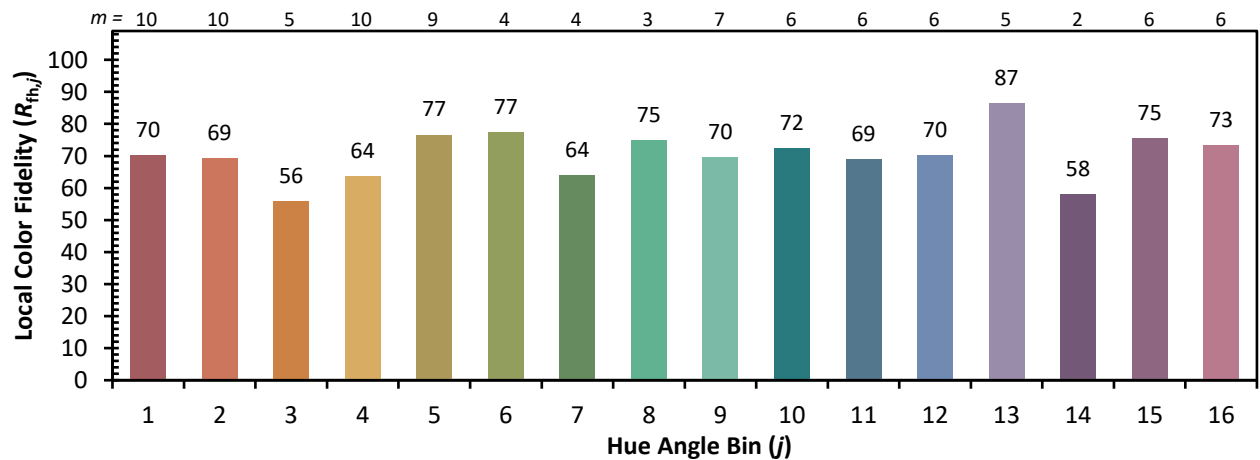
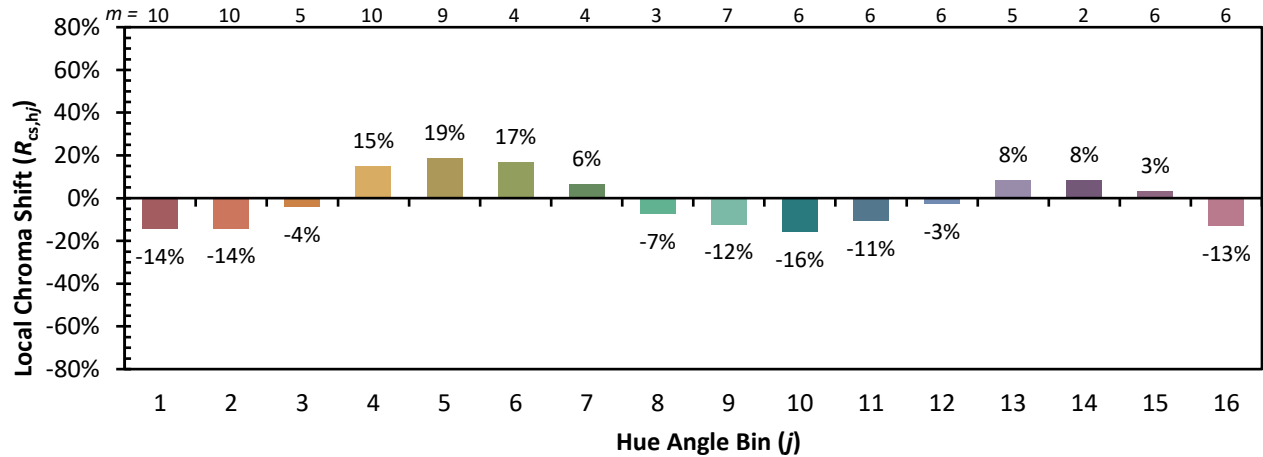


Individual Sample Fidelity Index ($R_{f,i}$)

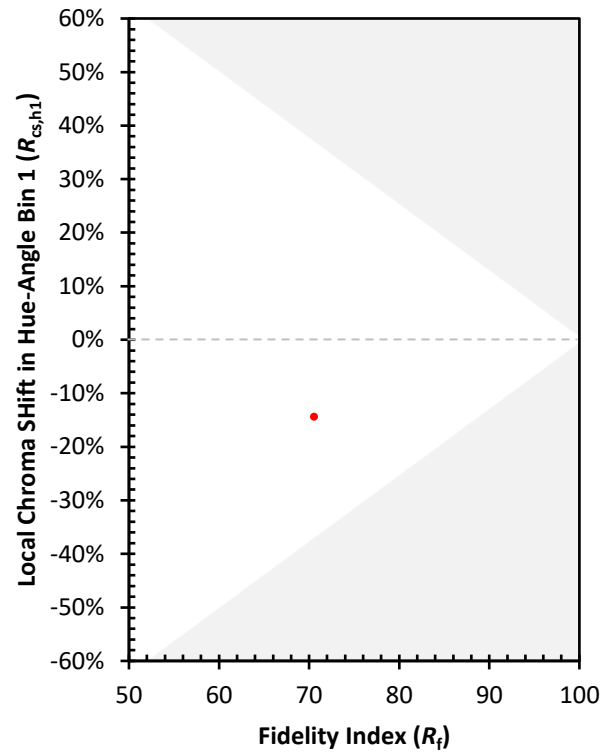
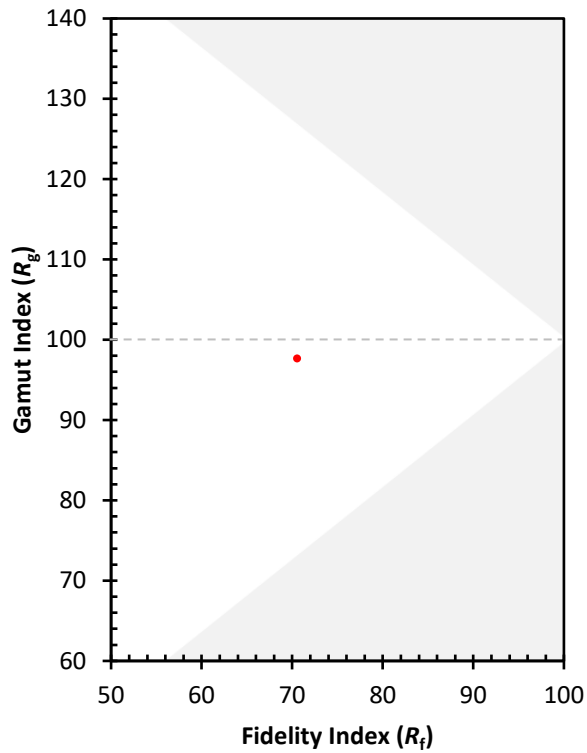
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)