

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: P1065744

Luminaire Tested: **NVN-SA3D-722-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065744
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA3D-722-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14020.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

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



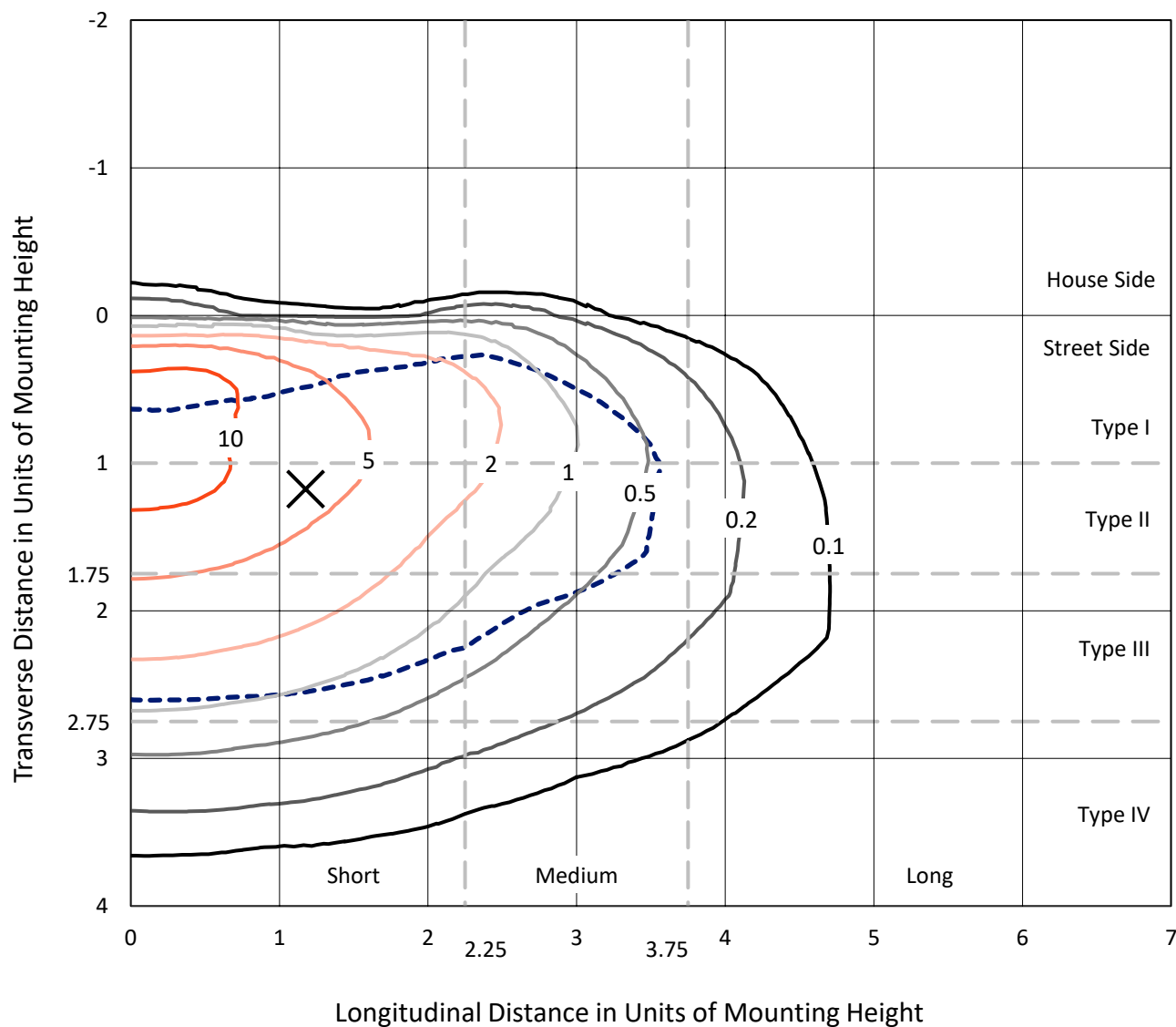
REPORT NUMBER: P1065744

CATALOG NUMBER: NVN-SA3D-722-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

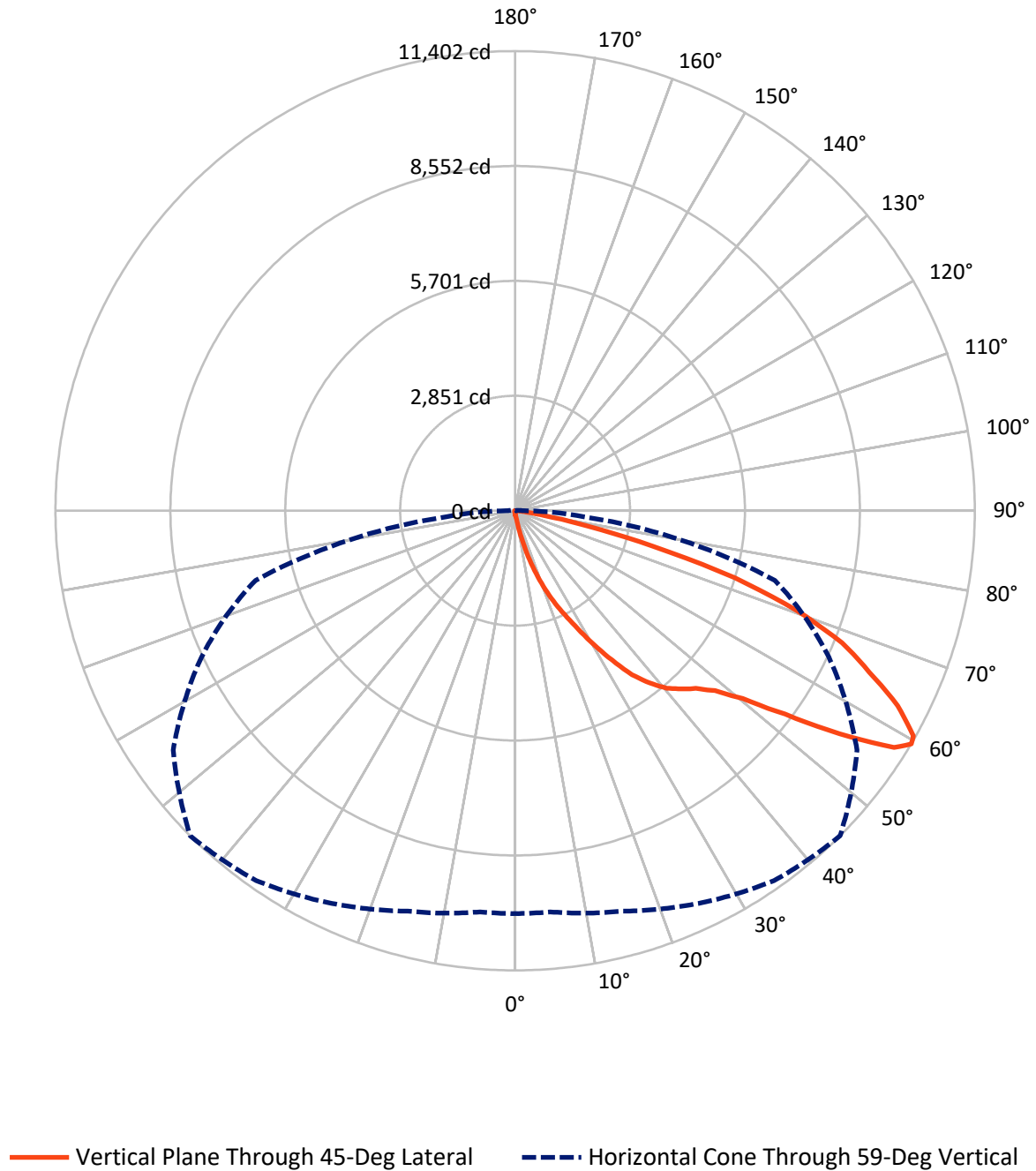


Based on 15 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1065744

CATALOG NUMBER: NVN-SA3D-722-U-T3BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1065744

CATALOG NUMBER: NVN-SA3D-722-U-T3BC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49.8	0.0	49.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13970.4	0.0	13970.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	14020.1	0.0	14020.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.1
10°-20°	155.0	1.1
20°-30°	556.8	4.0
30°-40°	1293.9	9.2
40°-50°	2205.3	15.7
50°-60°	3633.7	25.9
60°-70°	4201.4	30.0
70°-80°	1805.1	12.9
80°-90°	156.0	1.1
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°	14020.1	100.0
0°-180°	14020.1	100.0



REPORT NUMBER: P1065744

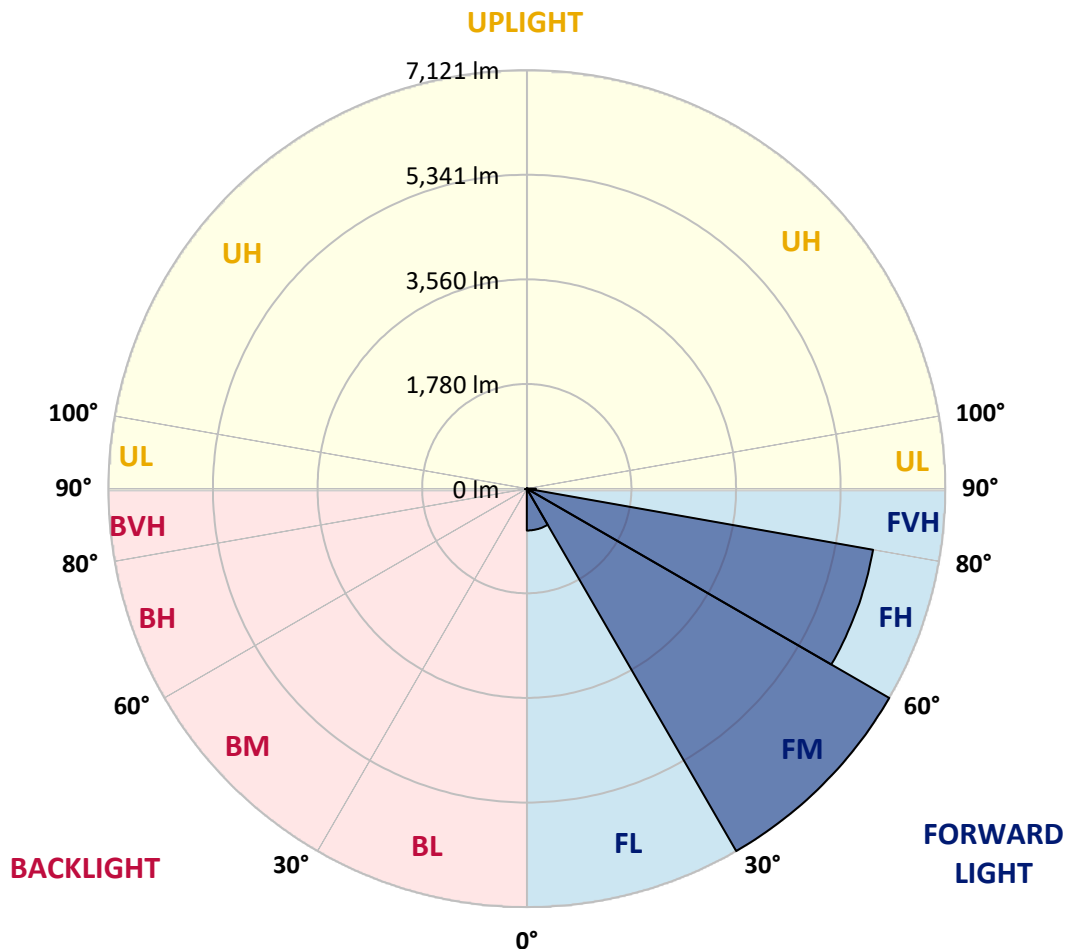
CATALOG NUMBER: NVN-SA3D-722-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.5	5.1			
FM	(30°-60°)	7120.9	50.8			
FH	(60°-80°)	5983.0	42.7			G3/7500
FVH	(80°-90°)	154.0	1.1			G2/225
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	12.0	0.1	B0/220		
BH	(60°-80°)	23.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G3

Type III Short





REPORT NUMBER: P1065744

CATALOG NUMBER: NVN-SA3D-722-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	115.0	115.0	112.2	108.4	107.5	104.6	104.6	101.8	98.0	95.2	91.4
5°	166.9	165.9	158.4	148.9	136.7	129.2	129.2	118.8	109.4	100.9	93.3
7.5°	364.8	356.3	329.0	283.8	224.4	184.8	181.9	148.0	125.4	108.4	94.3
10°	837.1	807.9	769.3	660.8	488.3	341.3	334.7	215.9	149.9	116.9	96.2
12.5°	1371.7	1395.2	1317.9	1147.3	945.5	703.3	656.1	363.9	198.0	128.2	98.0
15°	1858.1	1852.4	1809.1	1669.6	1436.7	1114.3	1085.1	632.6	283.8	146.1	99.9
17.5°	2222.0	2215.4	2173.9	2084.4	1905.2	1582.8	1557.4	1008.7	445.0	171.6	101.8
20°	2605.7	2597.2	2538.7	2467.1	2310.6	2036.3	2006.1	1429.2	696.7	213.1	101.8
22.5°	3065.7	3049.7	2987.5	2865.9	2700.9	2462.4	2435.0	1859.0	1008.7	280.9	106.5
25°	3621.9	3594.6	3508.8	3399.4	3200.5	2883.8	2854.6	2337.9	1384.9	383.7	111.2
27.5°	4256.4	4261.1	4145.1	3960.4	3693.6	3370.2	3315.5	2766.9	1774.2	530.8	116.9
30°	5009.6	4962.5	4799.4	4584.4	4325.2	3913.2	3860.4	3193.9	2211.6	747.6	126.3
32.5°	5714.8	5663.9	5444.2	5173.6	4895.5	4460.9	4417.6	3673.8	2609.4	1004.0	143.3
35°	6320.0	6284.2	5976.8	5646.9	5399.9	5011.5	4998.3	4209.2	3077.0	1280.2	162.1
37.5°	6852.6	6787.6	6392.6	6050.4	5799.6	5451.7	5423.5	4699.5	3527.7	1600.7	190.4
40°	7307.0	7271.2	6789.5	6339.8	6136.2	5825.1	5789.2	5129.3	3993.4	1973.1	225.3
42.5°	7793.5	7746.3	7278.7	6774.4	6399.2	6066.4	6042.8	5483.8	4408.2	2382.3	277.2
45°	8343.1	8255.4	7845.3	7392.8	6822.5	6316.2	6289.8	5799.6	4833.3	2821.6	340.3
47.5°	8930.4	8854.0	8522.2	8204.5	7548.4	6728.2	6671.6	6068.3	5255.7	3328.7	420.5
50°	9528.1	9530.0	9281.1	9128.4	8435.5	7397.5	7317.4	6463.3	5699.7	3871.7	539.2
52.5°	10223.8	10241.7	10237.9	10124.8	9587.5	8492.0	8384.5	7062.9	6215.3	4505.3	703.3
55°	10515.1	10547.1	10755.5	11006.3	10860.1	9879.7	9764.7	8097.0	6898.8	5211.4	946.5
57.5°	10276.6	10312.4	10599.9	11039.2	11374.9	11094.9	11081.7	9443.2	7799.1	6067.3	1344.3
59°	9992.8	9988.1	10283.2	10748.9	11201.4	11383.3	11402.2	10353.9	8583.5	6667.9	1687.5
60°	9804.3	9808.1	10004.1	10482.1	10962.9	11278.7	11352.2	10890.3	9041.6	7099.6	1981.6
62.5°	9076.5	9119.9	9275.4	9719.4	10175.7	10528.3	10653.7	11368.3	10352.9	8119.6	3004.4
65°	8285.6	8288.4	8509.9	8889.8	9327.3	9575.2	9654.4	10624.4	11228.7	9158.5	4345.9
67.5°	6874.3	6931.8	7183.5	7799.1	8377.0	8690.9	8751.3	9248.1	10865.8	9835.4	5018.1
70°	4810.7	4886.1	5245.3	6043.8	6904.5	7420.1	7416.4	7687.9	9562.9	9533.7	4254.5
72.5°	2402.0	2532.1	2825.3	3680.4	4723.0	5532.8	5703.5	6184.2	7682.2	7918.8	3174.1
75°	1061.5	1069.0	1235.9	1666.7	2347.4	3375.9	3528.6	4908.7	5893.9	5503.6	2292.7
77.5°	617.5	623.1	653.3	748.5	951.2	1654.5	1826.0	3219.4	4164.9	3198.6	1495.2
80°	224.4	230.0	229.1	283.8	416.7	651.4	725.9	1560.2	2778.2	1684.6	783.4
82.5°	137.6	137.6	132.9	133.9	151.8	249.8	273.4	664.6	1352.8	829.6	224.4
85°	67.9	71.6	76.4	85.8	101.8	123.5	131.0	190.4	455.3	200.8	53.7
87.5°	40.5	41.5	45.3	54.7	67.9	88.6	94.3	129.2	163.1	134.8	13.2
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: P1065744

CATALOG NUMBER: NVN-SA3D-722-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	89.6	88.6	83.9	80.1	76.4	72.6	69.8	66.9	66.9	67.9	66.9
5°	89.6	85.8	78.2	71.6	66.0	61.3	56.6	52.8	51.8	51.8	52.8
7.5°	88.6	83.9	73.5	65.0	57.5	50.9	46.2	41.5	40.5	41.5	40.5
10°	87.7	82.0	69.8	59.4	49.0	42.4	35.8	31.1	31.1	31.1	32.1
12.5°	87.7	79.2	66.0	53.7	42.4	34.9	28.3	23.6	22.6	22.6	22.6
15°	86.7	77.3	62.2	47.1	35.8	26.4	20.7	16.0	16.0	16.0	16.0
17.5°	84.8	74.5	57.5	41.5	28.3	19.8	14.1	9.4	9.4	11.3	11.3
20°	83.0	71.6	51.8	33.9	23.6	15.1	9.4	5.7	5.7	8.5	9.4
22.5°	83.9	71.6	48.1	30.2	18.9	11.3	7.5	4.7	3.8	6.6	8.5
25°	84.8	69.8	43.4	26.4	14.1	8.5	5.7	1.9	0.9	1.9	2.8
27.5°	84.8	67.9	37.7	20.7	10.4	6.6	2.8	0.0	0.0	0.0	0.0
30°	83.9	65.0	33.0	17.0	7.5	3.8	0.9	0.0	0.0	0.0	0.0
32.5°	83.0	62.2	30.2	13.2	6.6	1.9	0.0	0.0	0.0	0.0	0.0
35°	83.9	58.4	26.4	10.4	3.8	0.0	0.0	0.0	0.0	0.0	1.9
37.5°	86.7	54.7	22.6	8.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	90.5	51.8	18.9	6.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	98.0	51.8	17.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	107.5	51.8	14.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	119.7	52.8	12.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	134.8	54.7	11.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	146.1	52.8	10.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	165.9	50.9	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	192.3	48.1	9.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	218.7	44.3	9.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	248.9	42.4	8.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	411.0	37.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	793.8	35.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1283.0	35.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1349.0	35.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	897.5	29.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	480.8	26.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	259.2	24.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	114.1	17.9	4.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.3	12.3	5.7	4.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	21.7	9.4	7.5	6.6	4.7	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	9.4	8.5	7.5	6.6	4.7	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: SP1-2407-184-2

Test Date: 10/09/2024

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

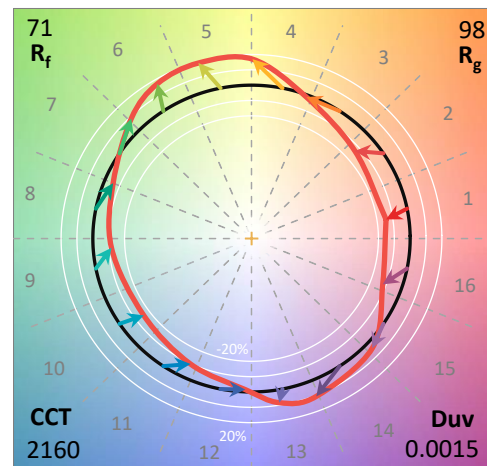
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

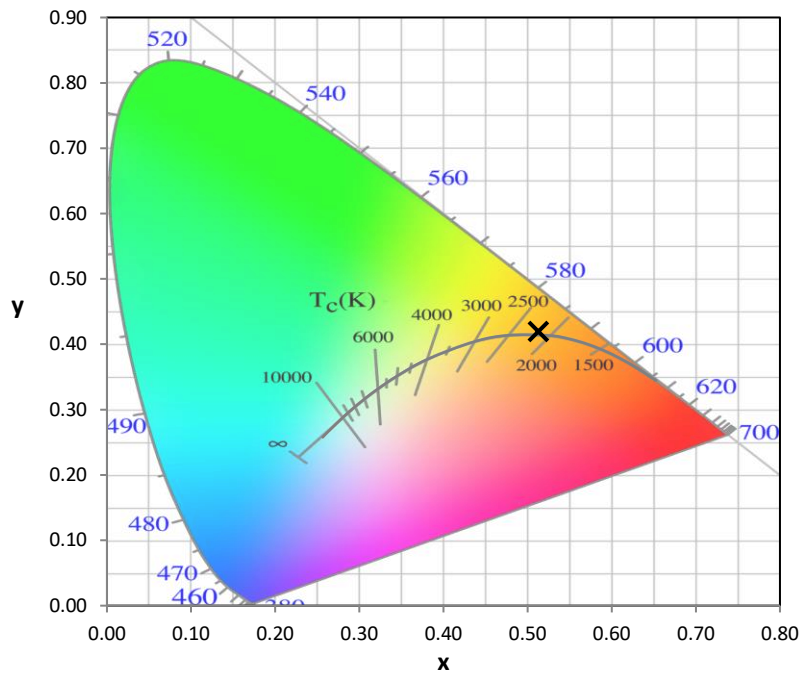
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

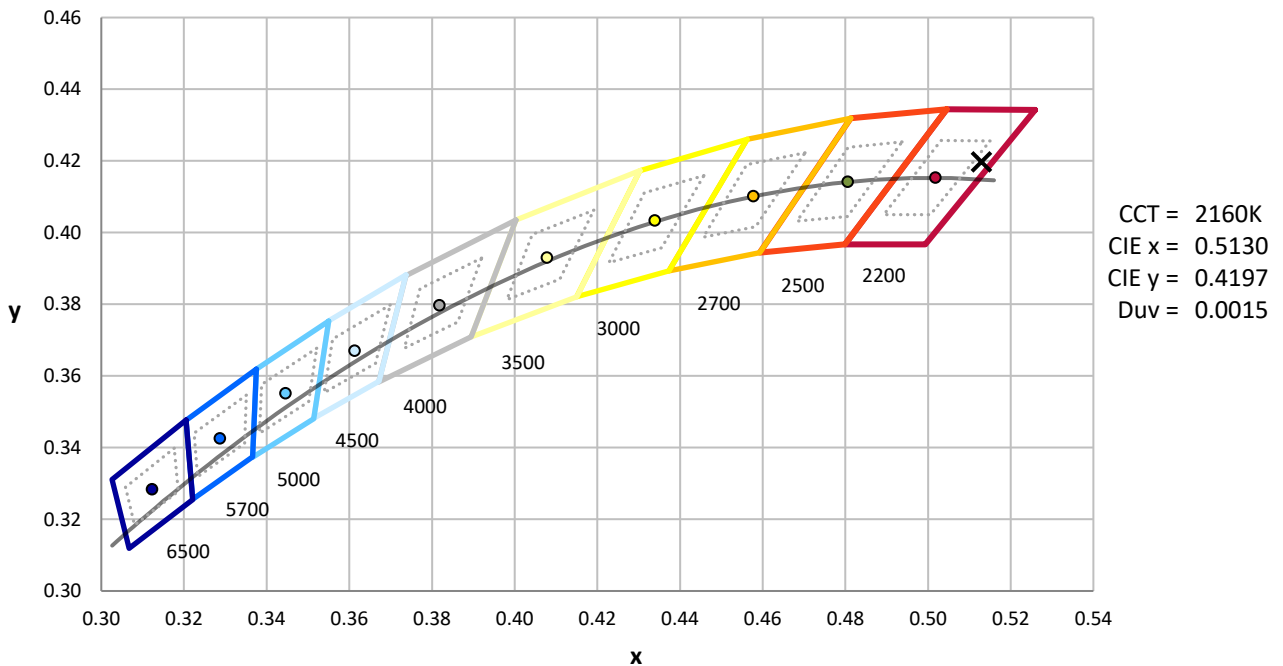
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



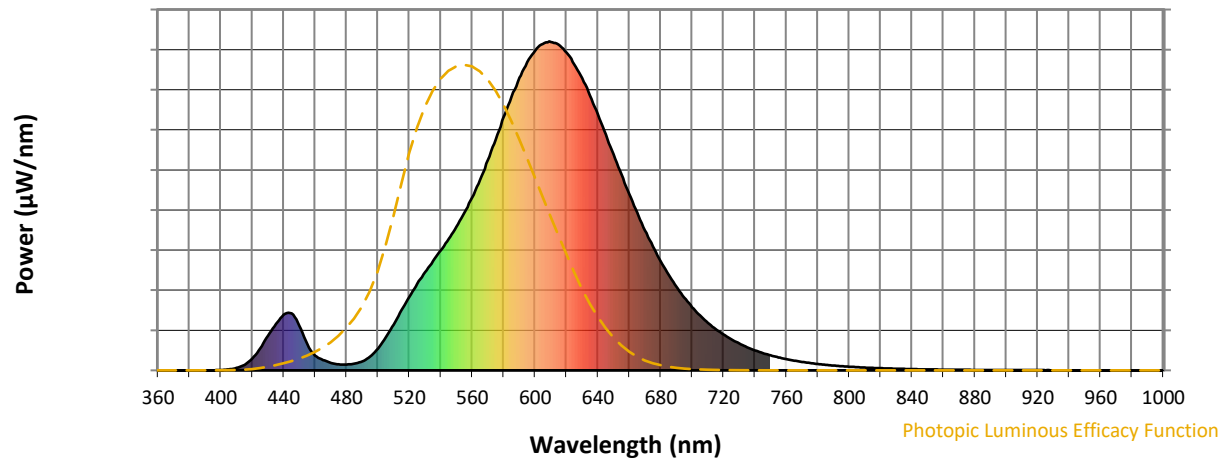
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

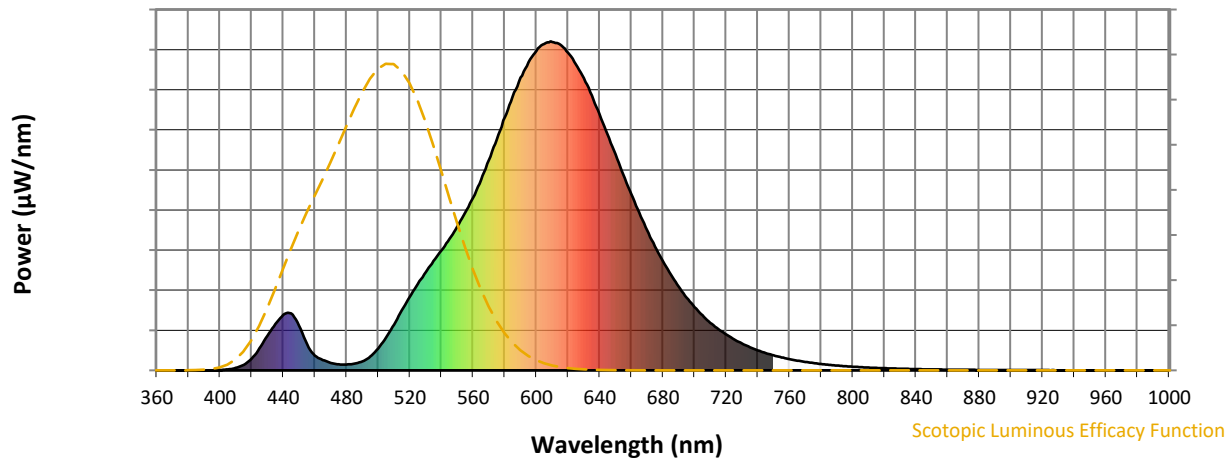


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



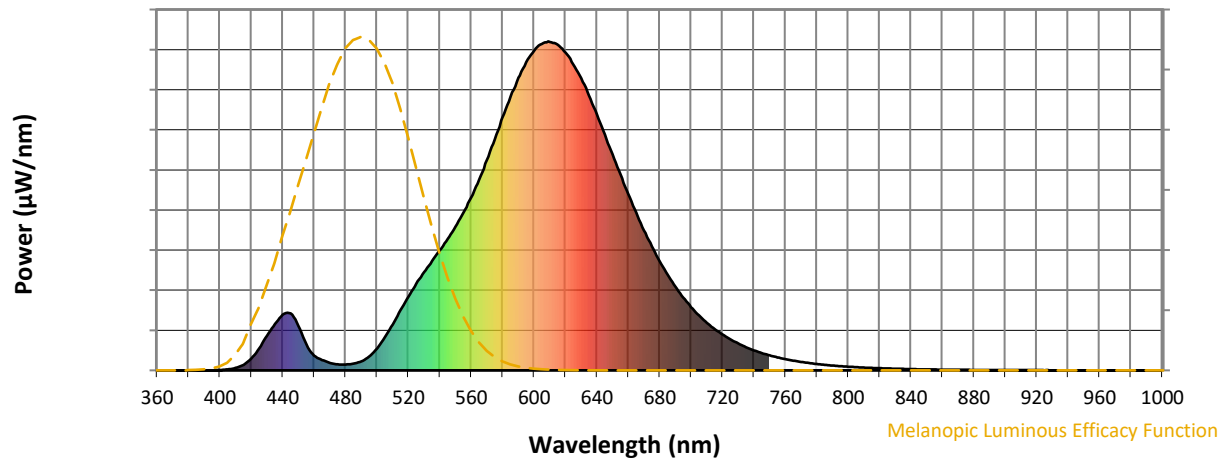
Scotopic Lumens: NR

S/P: 0.8

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

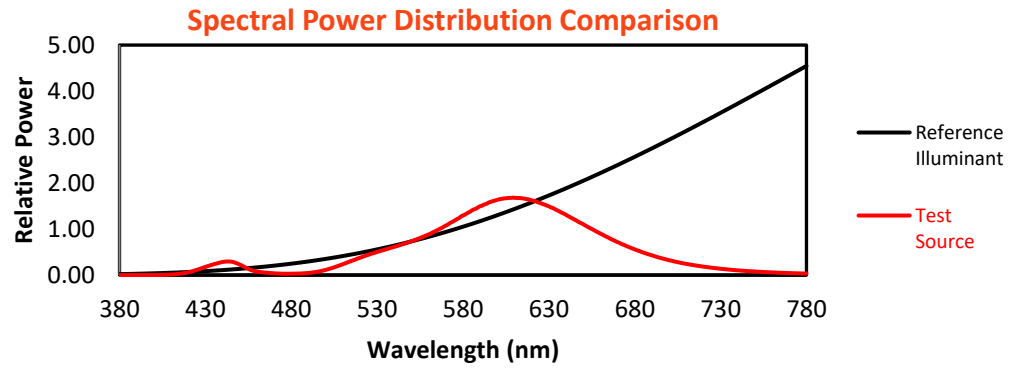
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27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

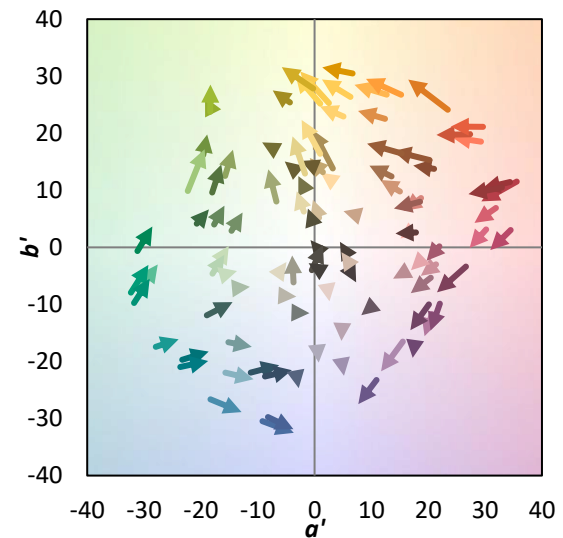
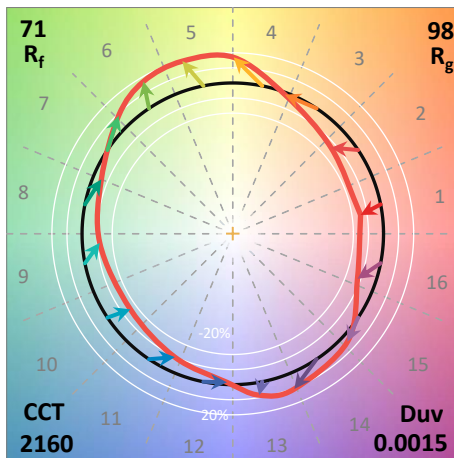
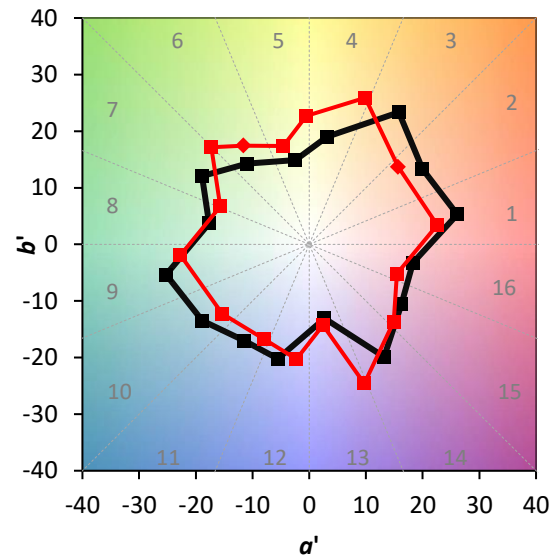
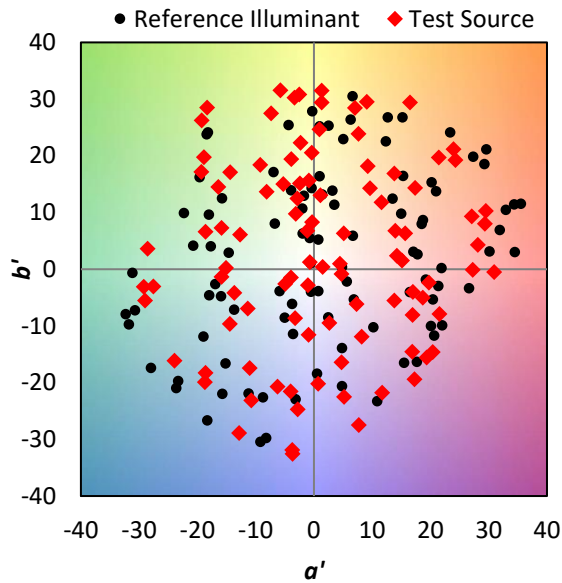
TM-30-18

Summary

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

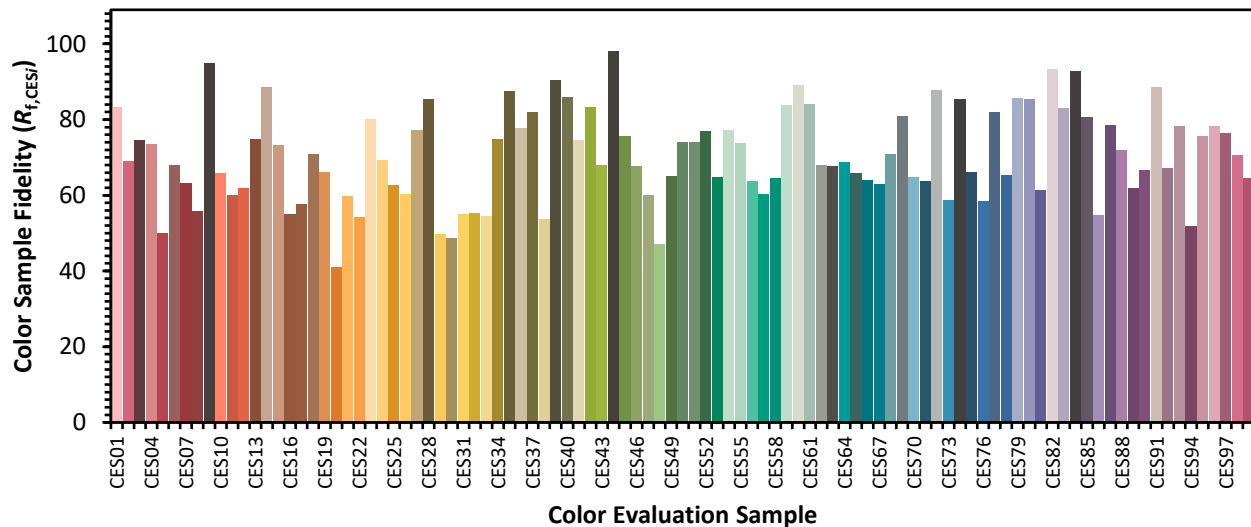


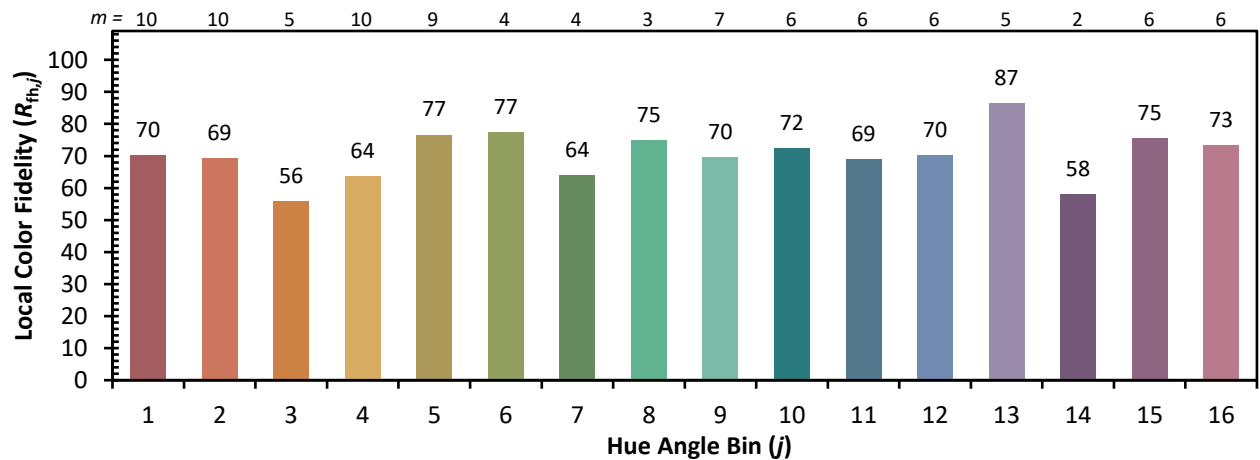
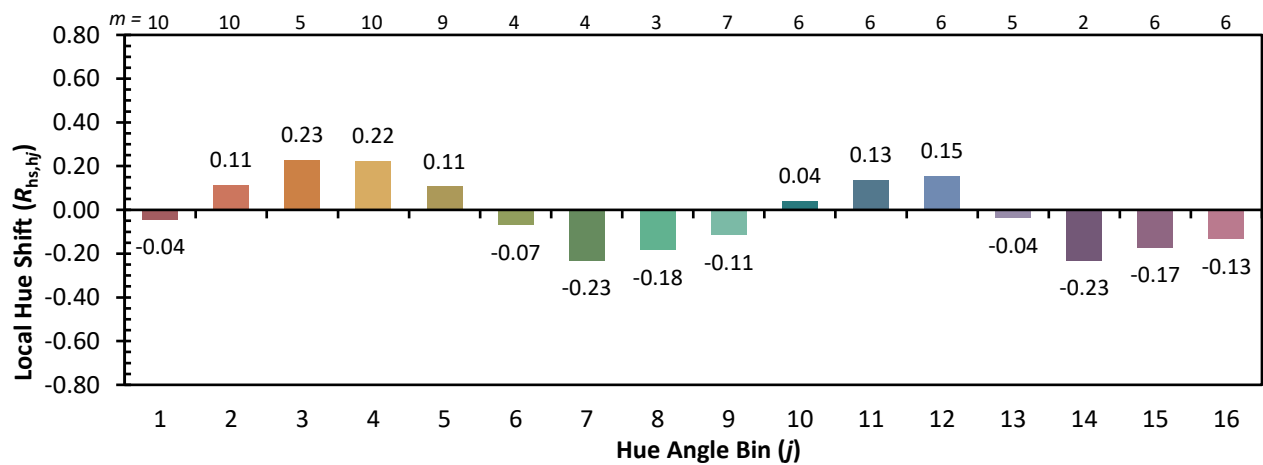
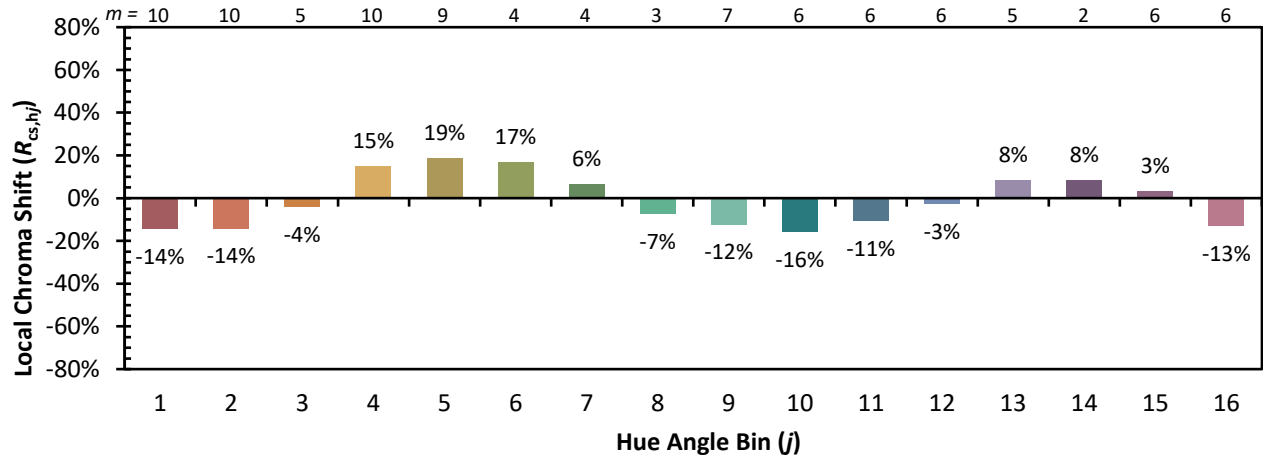
Color Vector Graphics



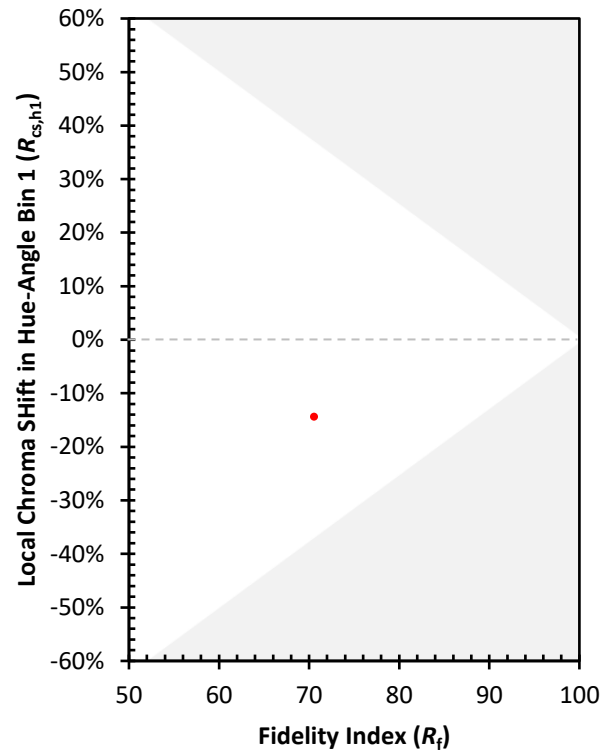
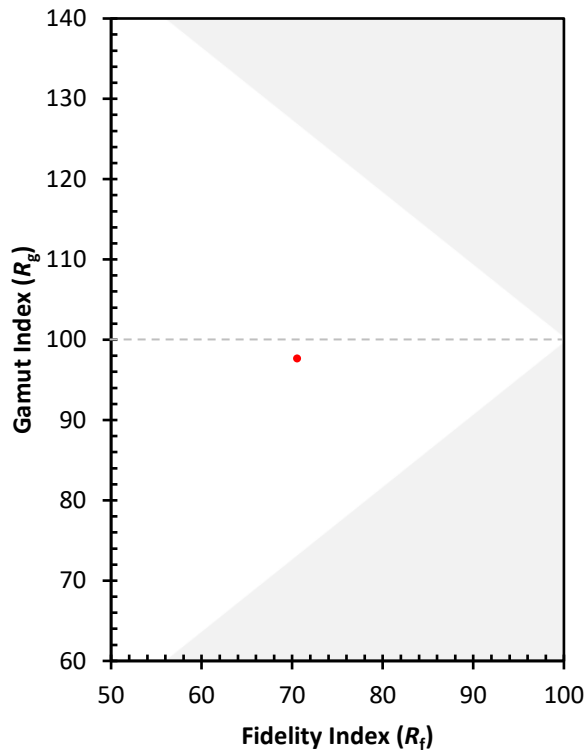
Individual Sample Fidelity Index ($R_{f,i}$)

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)