

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: P1067413

Luminaire Tested: **NAV-SA1A-722-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067413
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-722-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708.3 lumens
Efficiency: N/A
Efficacy: 92.7 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

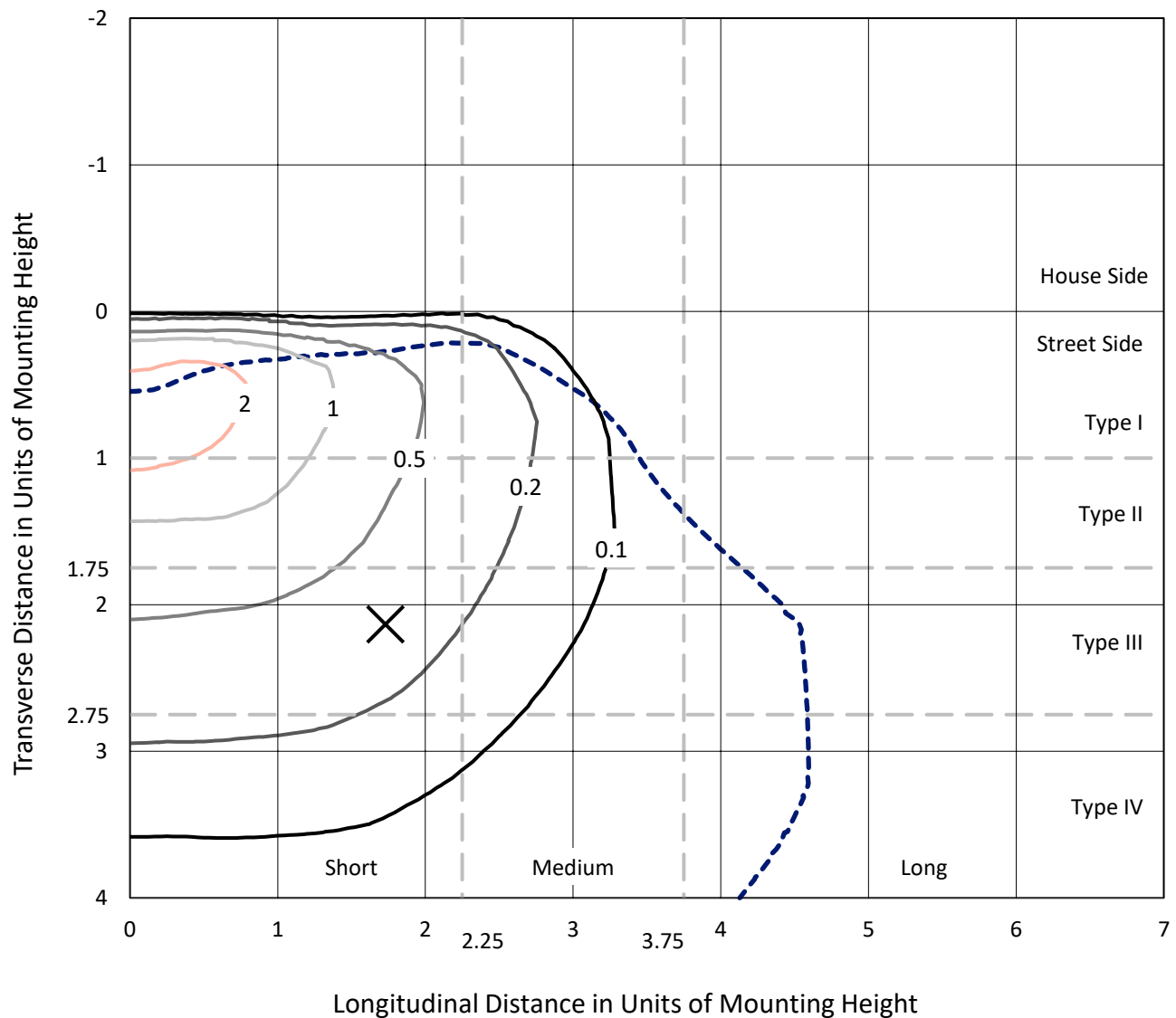


REPORT NUMBER: P1067413

CATALOG NUMBER: NAV-SA1A-722-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

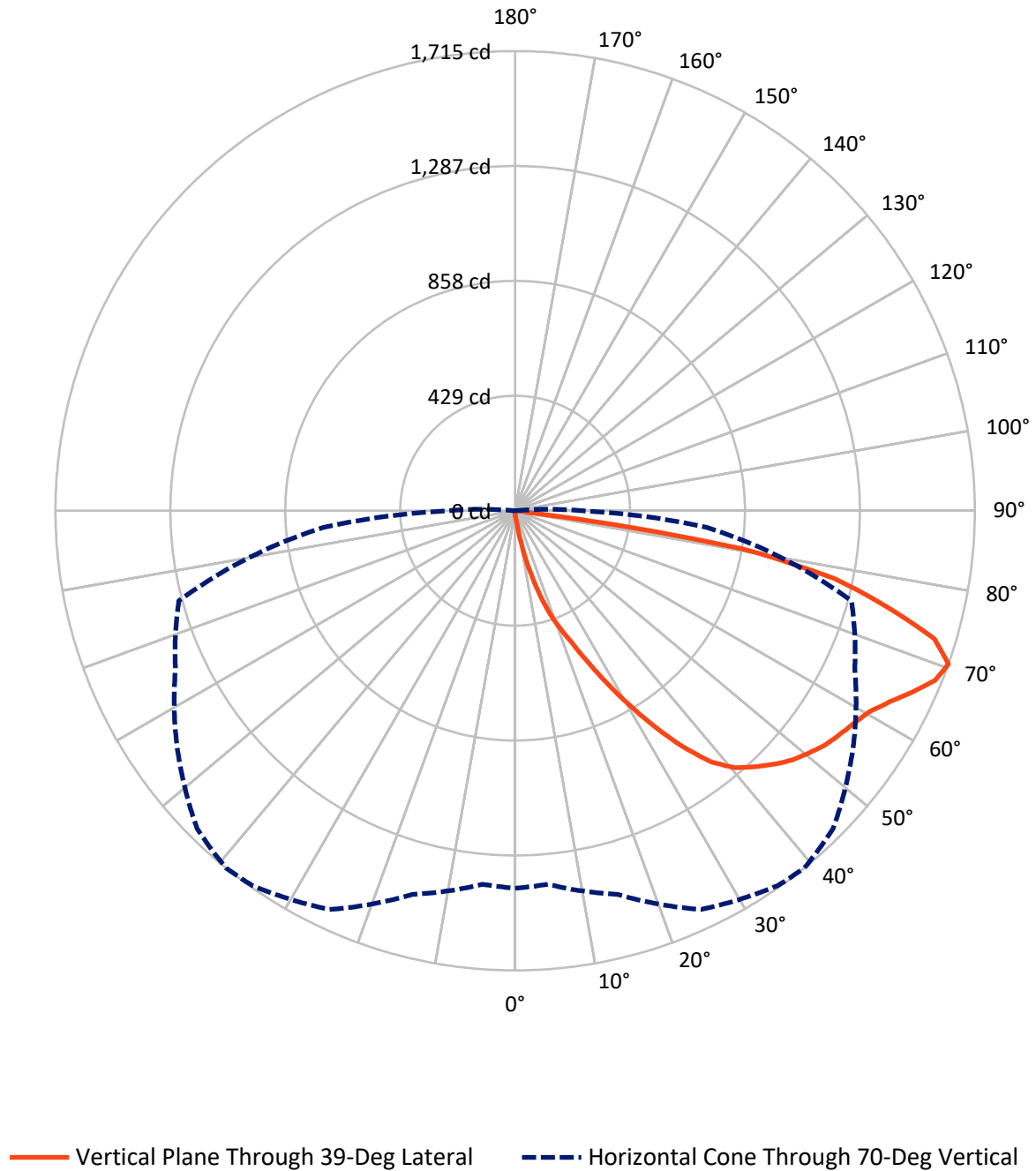


Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P1067413

CATALOG NUMBER: NAV-SA1A-722-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067413

CATALOG NUMBER: NAV-SA1A-722-U-T4BC

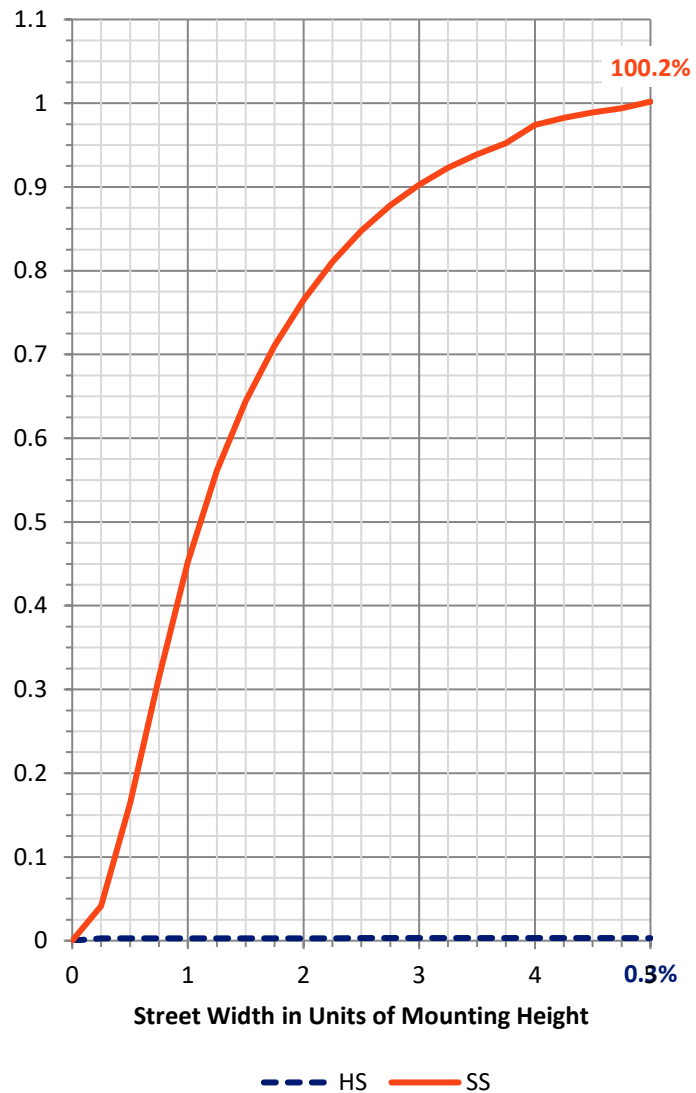
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8.3	0.0	8.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	2699.9	0.0	2699.9
	% Fixture	99.7	0.0	99.7
Total	Lumens	2708.3	0.0	2708.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	33.3	1.2
20°-30°	113.0	4.2
30°-40°	265.5	9.8
40°-50°	431.2	15.9
50°-60°	546.4	20.2
60°-70°	694.1	25.6
70°-80°	563.9	20.8
80°-90°	58.1	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°	2708.3	100.0
0°-180°	2708.3	100.0



REPORT NUMBER: P1067413

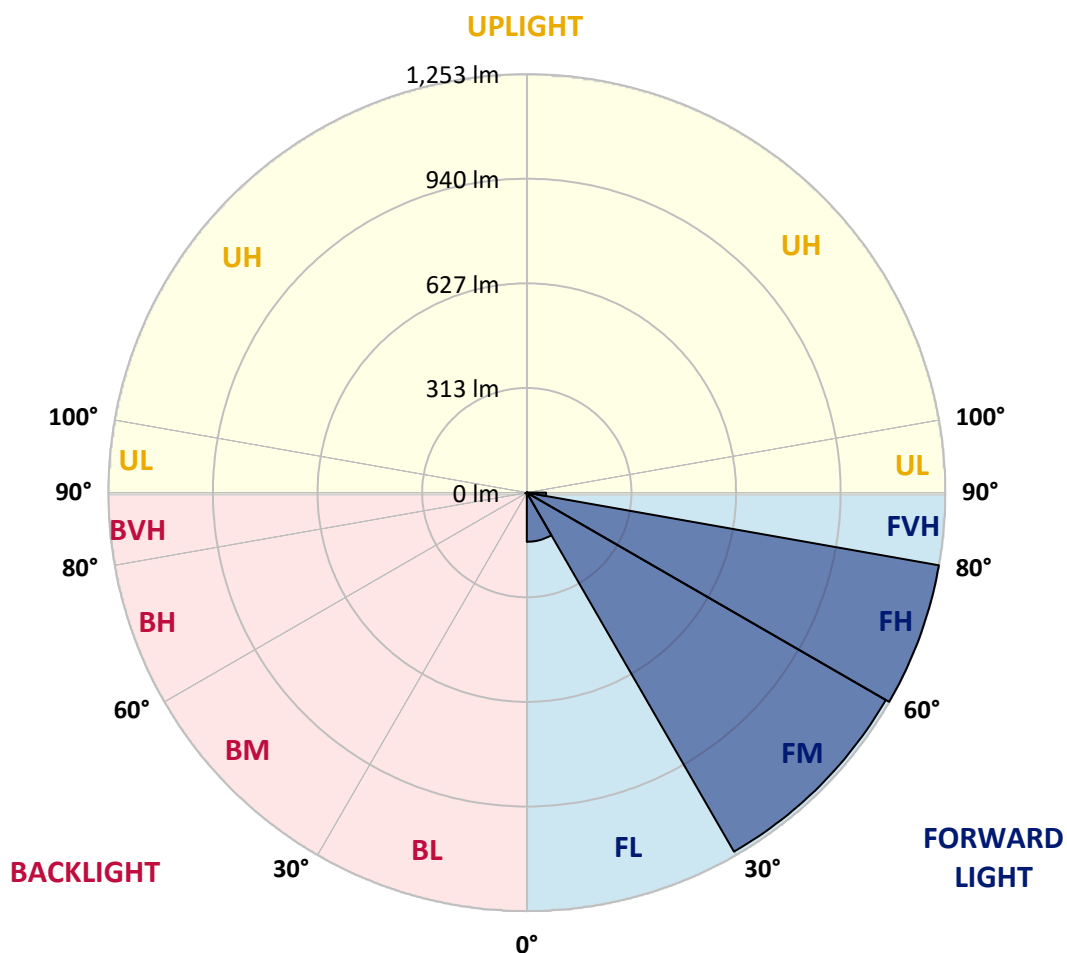
CATALOG NUMBER: NAV-SA1A-722-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.3	5.4			
FM	(30°-60°)	1241.5	45.8			
FH	(60°-80°)	1253.4	46.3			G1/1800
FVH	(80°-90°)	57.7	2.1			G1/100
BL	(0°-30°)	1.8	0.1	B0/110		
BM	(30°-60°)	1.6	0.1	B0/220		
BH	(60°-80°)	4.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type IV Short



REPORT NUMBER: P1067413

CATALOG NUMBER: NAV-SA1A-722-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
2.5°	19.1	19.1	19.1	18.4	18.4	17.6	17.6	16.9	16.2	16.2	15.4
5°	36.0	36.8	34.6	30.1	27.2	25.7	24.3	20.6	18.4	16.9	15.4
7.5°	98.5	95.6	91.2	76.5	58.8	50.0	42.6	30.1	22.1	17.6	15.4
10°	207.4	199.3	186.8	166.9	132.4	118.4	91.9	55.1	30.9	19.9	15.4
12.5°	304.4	305.9	290.4	271.3	229.4	205.9	169.9	103.7	48.5	23.5	15.4
15°	377.9	376.5	370.6	355.1	317.6	294.8	262.5	174.3	81.6	29.4	16.2
17.5°	436.0	430.1	427.9	421.3	397.1	384.6	349.3	256.6	129.4	39.7	16.9
20°	494.1	492.6	490.4	483.1	466.9	458.1	430.9	339.7	192.6	56.6	18.4
22.5°	578.7	570.6	572.1	555.9	542.6	527.2	505.1	427.9	265.4	80.9	20.6
25°	677.9	677.2	665.4	658.1	636.0	619.1	589.7	513.2	346.3	116.9	22.8
27.5°	794.8	786.8	781.6	769.1	746.3	727.2	686.8	597.8	433.8	157.4	25.7
30°	916.9	916.9	907.3	888.2	866.2	842.6	801.5	686.8	520.6	208.8	29.4
32.5°	1059.5	1062.5	1039.0	1010.3	981.6	965.4	911.8	787.5	603.7	267.6	33.8
35°	1197.8	1194.1	1155.1	1123.5	1102.2	1084.5	1039.0	897.8	697.8	336.0	39.7
37.5°	1330.1	1320.6	1255.9	1211.0	1201.5	1189.7	1144.1	1008.1	791.2	411.8	47.1
40°	1425.0	1410.3	1343.4	1281.6	1267.6	1261.0	1225.7	1108.1	889.7	496.3	56.6
42.5°	1466.2	1449.2	1402.9	1352.9	1322.0	1306.6	1275.7	1189.7	988.2	590.4	70.6
45°	1474.2	1461.0	1427.9	1416.2	1374.2	1350.7	1308.8	1247.8	1080.1	683.8	89.7
47.5°	1444.8	1439.0	1419.1	1444.1	1422.8	1390.4	1339.7	1291.2	1161.7	797.0	116.2
50°	1372.8	1368.4	1377.9	1443.4	1458.1	1421.3	1373.5	1325.0	1232.3	914.0	153.7
52.5°	1275.7	1275.0	1319.8	1424.2	1473.5	1450.7	1406.6	1358.8	1288.2	1027.2	206.6
55°	1169.8	1182.3	1261.0	1406.6	1482.3	1472.0	1439.0	1389.0	1338.2	1132.3	291.9
57.5°	1161.0	1155.9	1231.6	1399.2	1487.5	1493.4	1471.3	1420.6	1380.9	1218.4	405.9
60°	1249.2	1237.5	1266.2	1414.7	1510.3	1520.6	1503.7	1444.8	1423.5	1286.0	555.9
62.5°	1351.5	1340.4	1355.1	1474.2	1555.1	1569.8	1548.5	1469.8	1458.1	1333.1	716.9
65°	1433.1	1424.2	1452.2	1563.2	1617.6	1630.1	1615.4	1516.2	1473.5	1371.3	847.8
67.5°	1446.3	1435.3	1493.4	1622.8	1680.9	1689.7	1677.9	1561.0	1468.4	1374.2	877.9
70°	1408.8	1399.2	1482.3	1641.9	1708.1	1715.4	1677.9	1539.7	1398.5	1299.2	717.6
72.5°	1293.4	1300.7	1408.1	1595.6	1670.6	1636.7	1557.3	1432.3	1308.1	1101.5	503.7
75°	1114.0	1122.0	1264.7	1468.4	1474.2	1433.1	1390.4	1317.6	1170.6	725.7	349.3
77.5°	791.9	763.2	976.5	1212.5	1191.2	1217.6	1221.3	1096.3	980.1	377.9	233.8
80°	77.9	66.2	122.8	347.8	768.4	858.8	894.1	844.8	722.8	169.1	122.8
82.5°	16.9	16.9	18.4	19.9	30.9	46.3	212.5	520.6	466.9	86.0	39.7
85°	9.6	9.6	11.8	14.0	18.4	20.6	24.3	32.4	125.7	30.9	7.4
87.5°	7.4	8.1	9.6	11.8	15.4	16.9	20.6	25.7	31.6	28.7	2.2
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: P1067413

CATALOG NUMBER: NAV-SA1A-722-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
2.5°	15.4	14.7	14.0	13.2	12.5	12.5	11.8	11.8	11.8	11.8	11.8
5°	14.7	14.0	13.2	11.8	11.0	10.3	9.6	9.6	9.6	9.6	9.6
7.5°	14.7	14.0	12.5	11.0	9.6	8.8	8.1	7.4	7.4	8.1	8.1
10°	14.7	13.2	11.0	9.6	8.1	7.4	6.6	5.9	5.9	5.9	5.9
12.5°	14.0	12.5	10.3	8.8	7.4	5.9	4.4	3.7	3.7	3.7	3.7
15°	13.2	11.8	9.6	7.4	5.1	3.7	2.9	2.2	2.2	2.2	2.2
17.5°	13.2	11.0	8.8	6.6	3.7	2.2	1.5	0.7	0.7	0.7	1.5
20°	13.2	11.0	8.1	5.1	2.2	1.5	1.5	0.7	0.0	0.7	0.7
22.5°	13.2	10.3	6.6	3.7	2.2	1.5	0.7	0.0	0.0	0.0	0.0
25°	14.0	10.3	5.9	2.9	1.5	0.7	0.0	0.0	0.0	0.0	0.0
27.5°	14.0	9.6	5.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
30°	14.7	9.6	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	14.7	8.8	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	14.7	8.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	14.7	7.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	15.4	6.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	16.2	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	16.9	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	19.1	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	22.1	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	26.5	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	34.6	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	50.0	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	83.8	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	147.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	248.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	324.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	246.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	117.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.8	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.8	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	1.5	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
85°	2.2	1.5	1.5	1.5	0.7	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	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

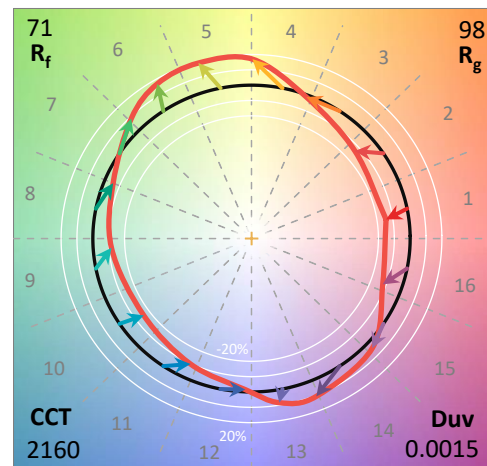
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

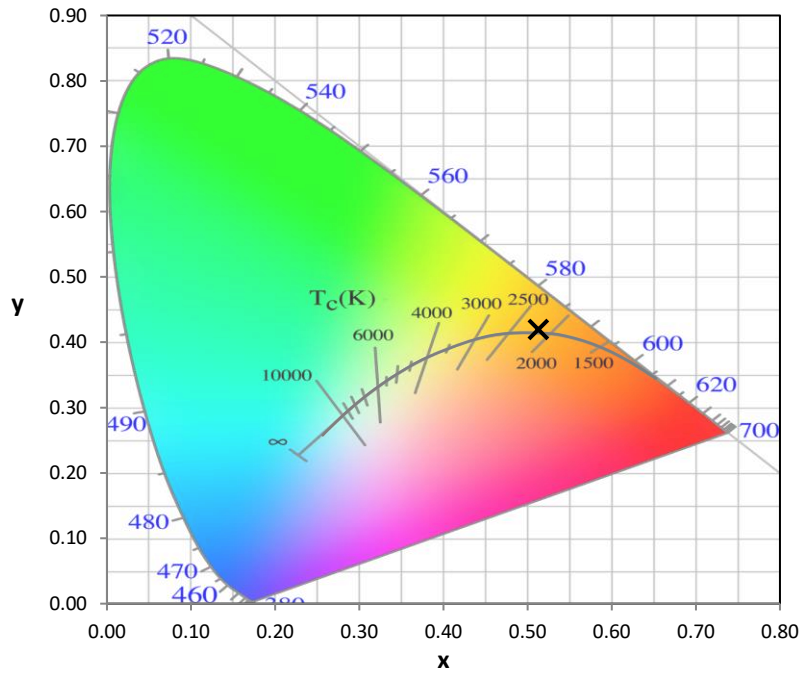
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

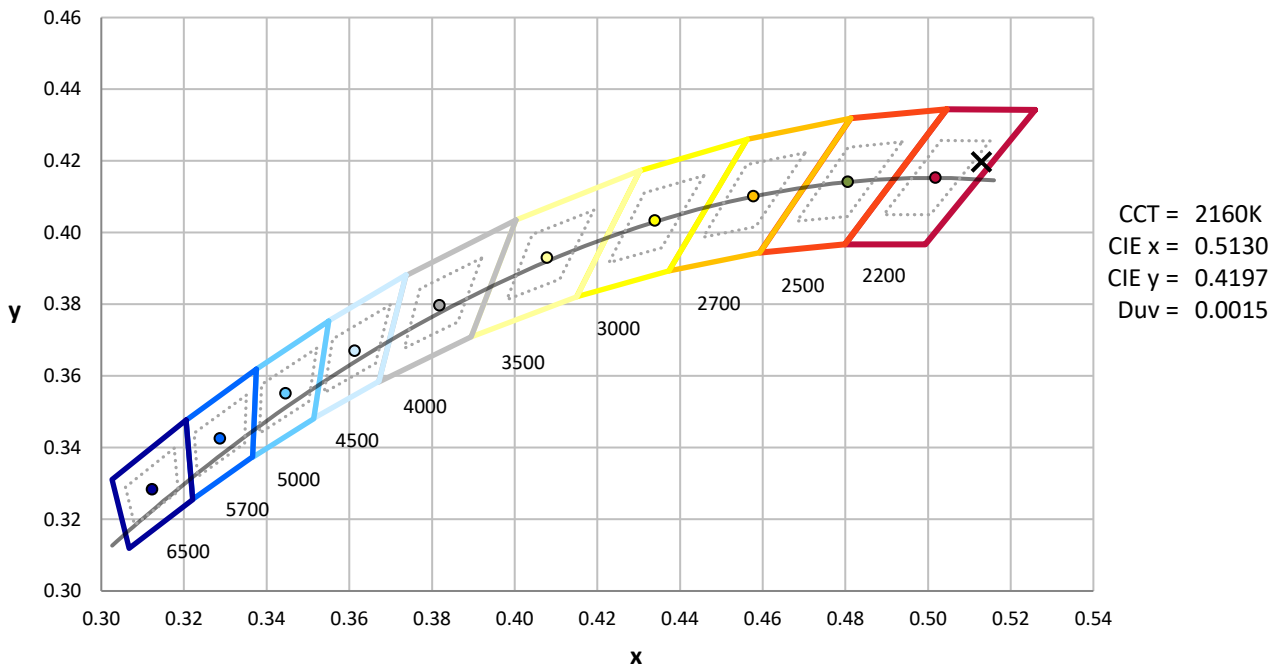
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

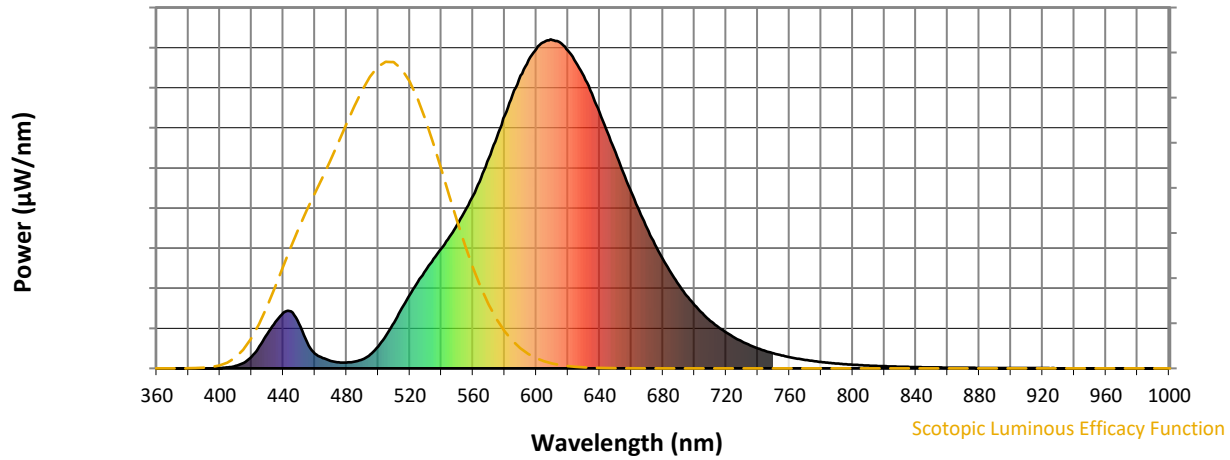


Photopic Lumens: NR

λ (nm)	Power 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



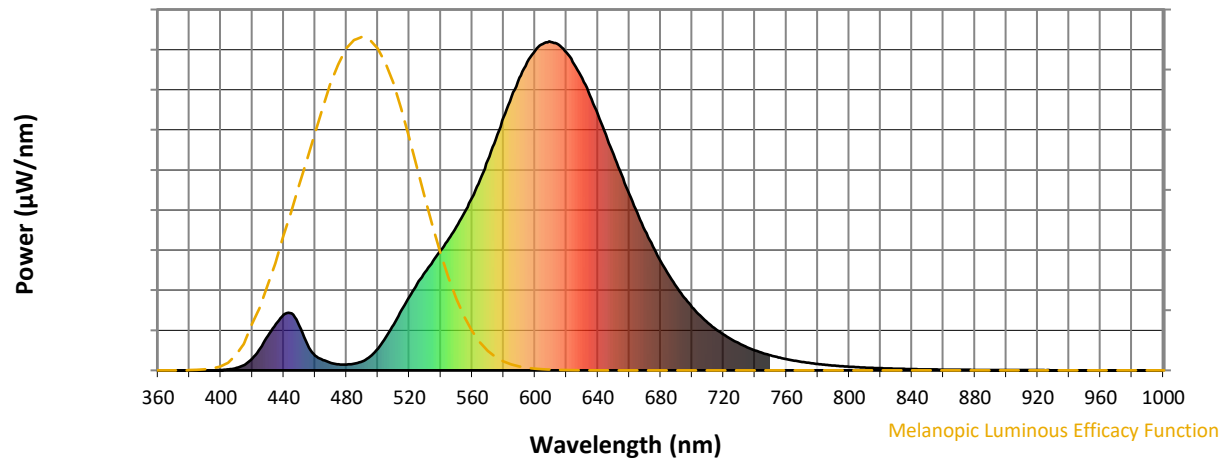
Scotopic Lumens: NR

S/P: 0.8

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

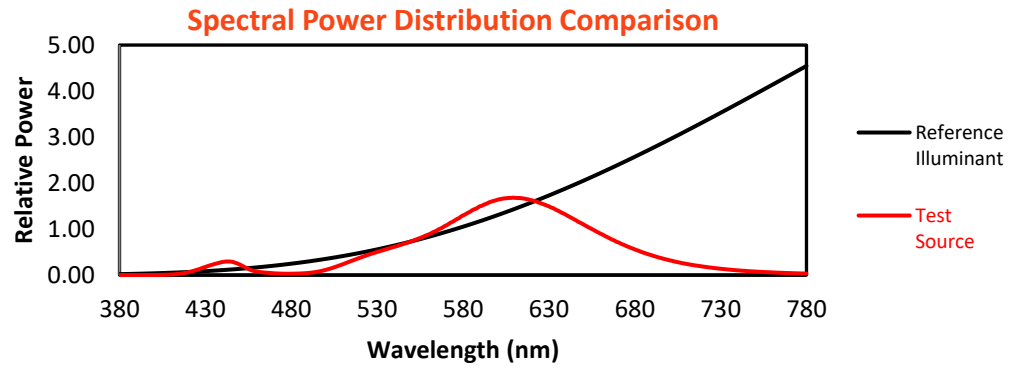
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27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

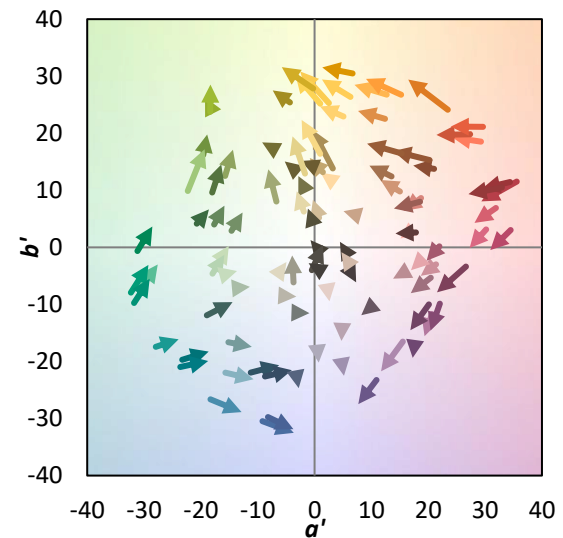
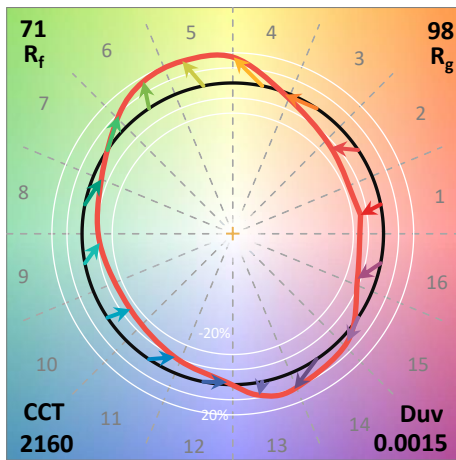
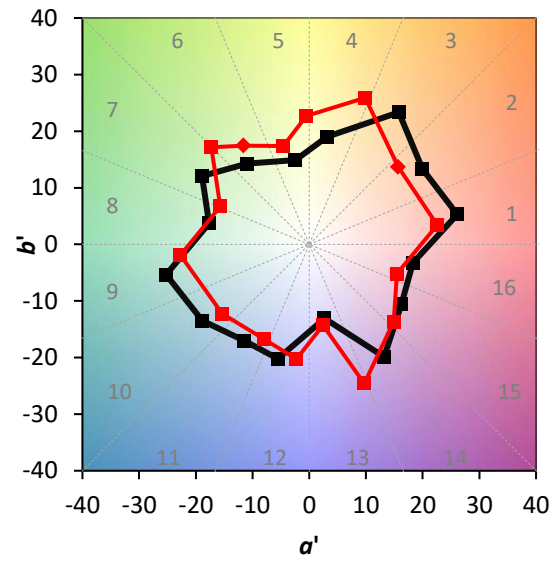
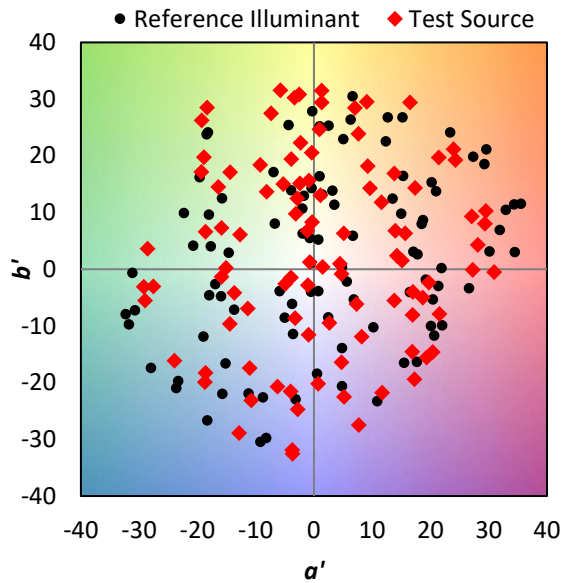
TM-30-18

Summary

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

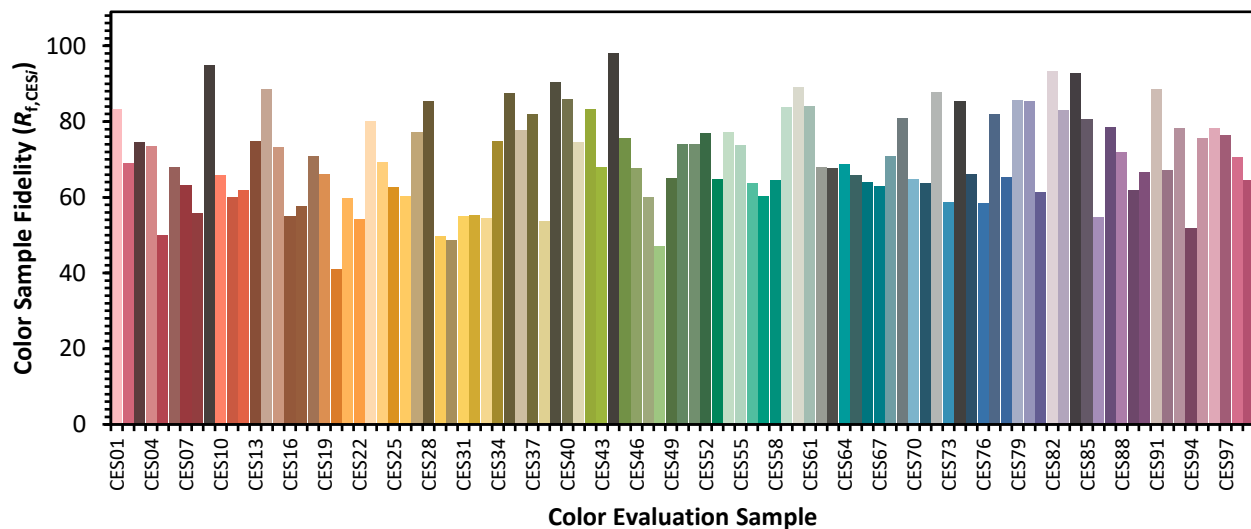


Color Vector Graphics

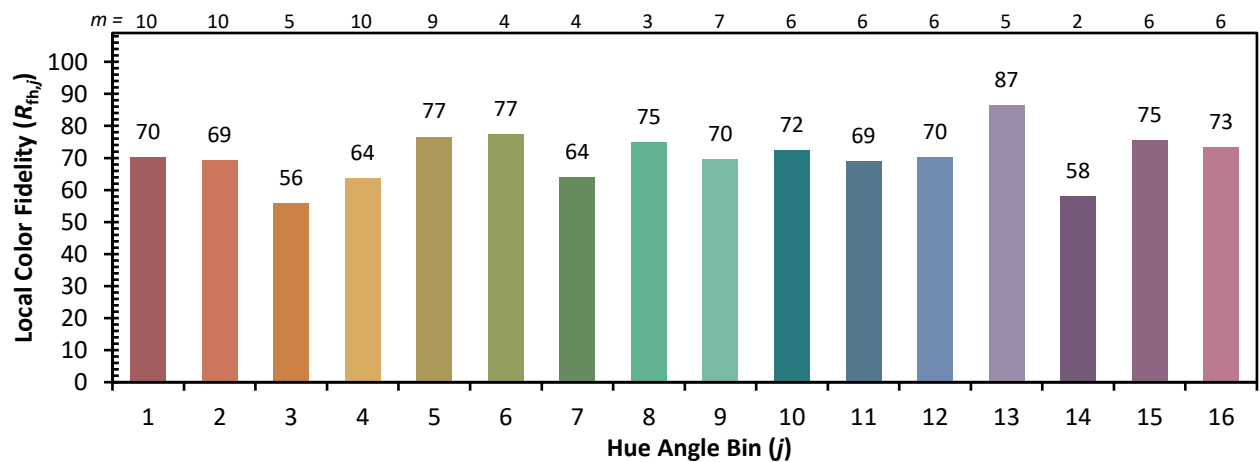
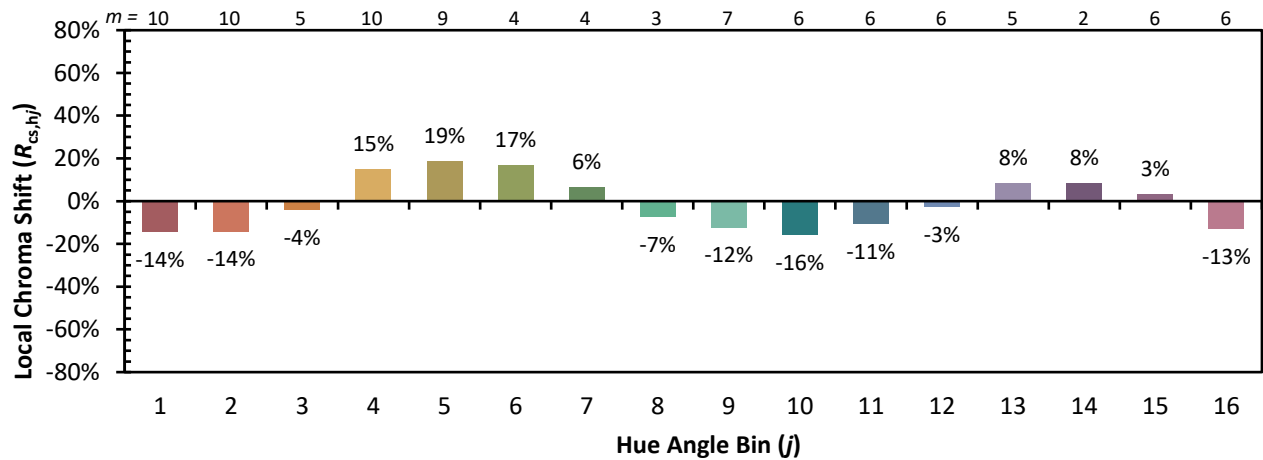


Individual Sample Fidelity Index ($R_{f,i}$)

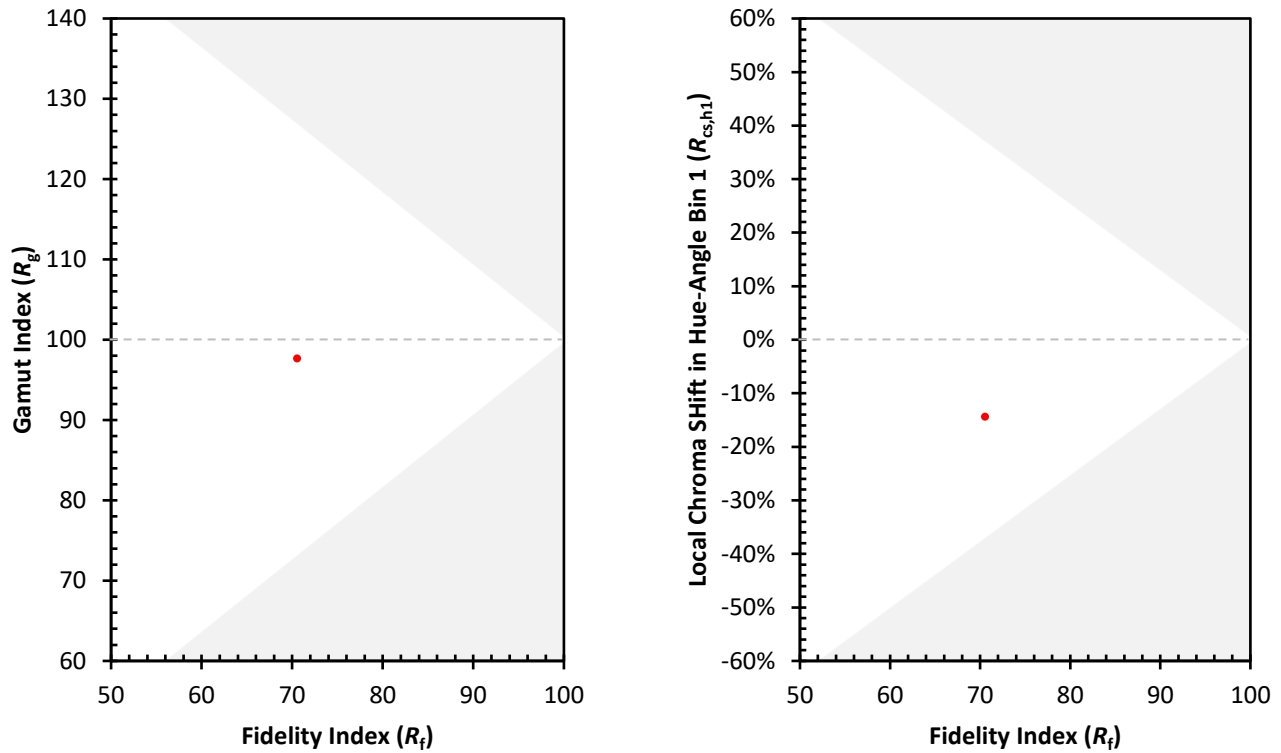
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82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