

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: P1067191

Luminaire Tested: **NAV-SA5C-722-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067191
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-722-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19978.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 236
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

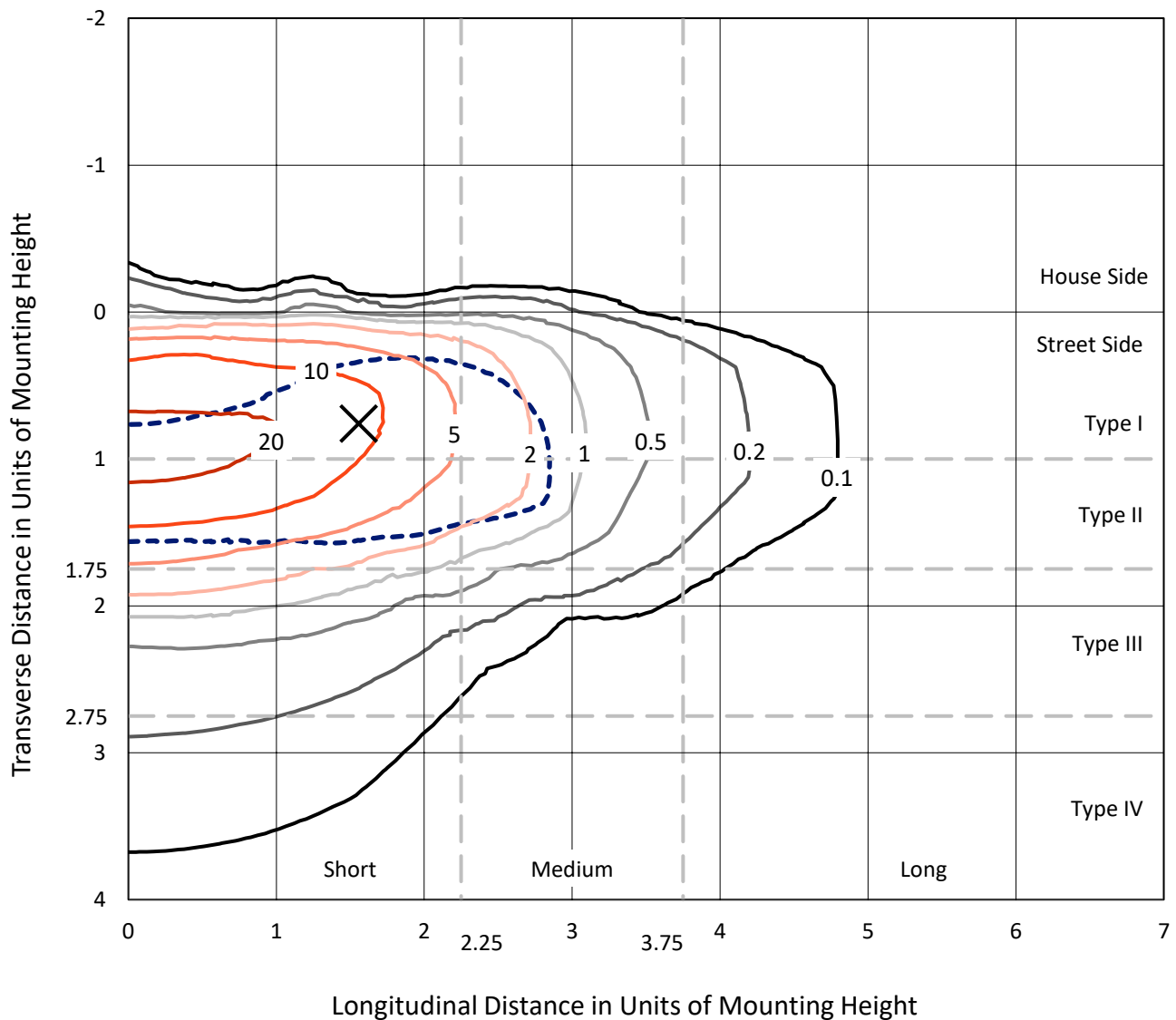


REPORT NUMBER: P1067191

CATALOG NUMBER: NAV-SA5C-722-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

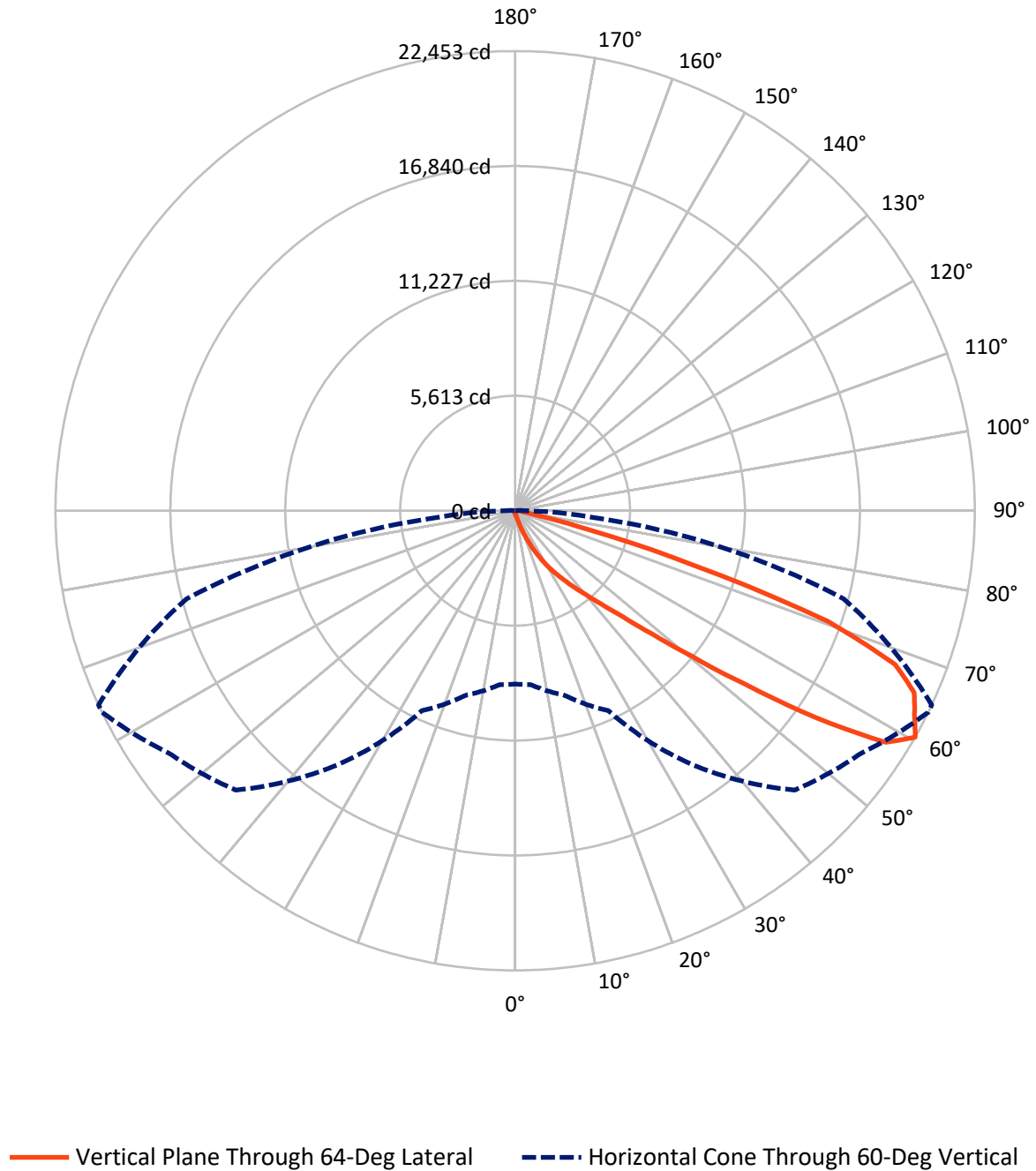


Based on 15 foot mounting height. Maximum calculated value = 28.7 fc
Type II - Short - N/A

REPORT NUMBER: P1067191

CATALOG NUMBER: NAV-SA5C-722-U-T2BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067191

CATALOG NUMBER: NAV-SA5C-722-U-T2BC

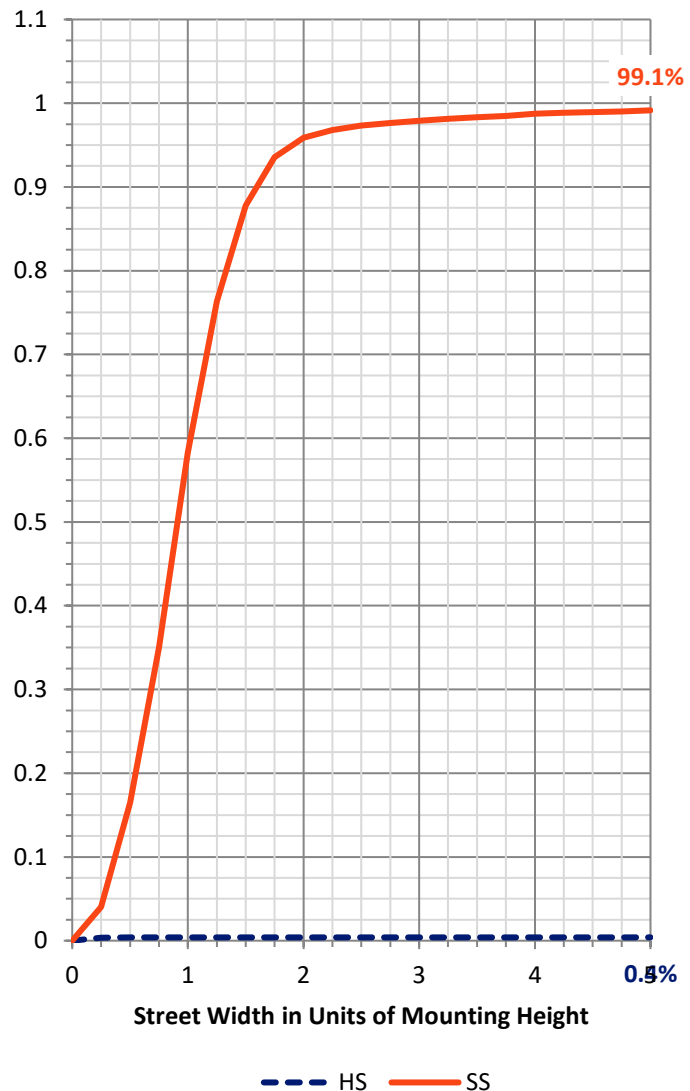
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.0	0.0	81.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	19897.1	0.0	19897.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	19978.1	0.0	19978.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.1
10°-20°	196.3	1.0
20°-30°	652.0	3.3
30°-40°	1739.8	8.7
40°-50°	4422.2	22.1
50°-60°	6446.6	32.3
60°-70°	4979.4	24.9
70°-80°	1367.4	6.8
80°-90°	154.4	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°	19978.1	100.0
0°-180°	19978.1	100.0



REPORT NUMBER: P1067191

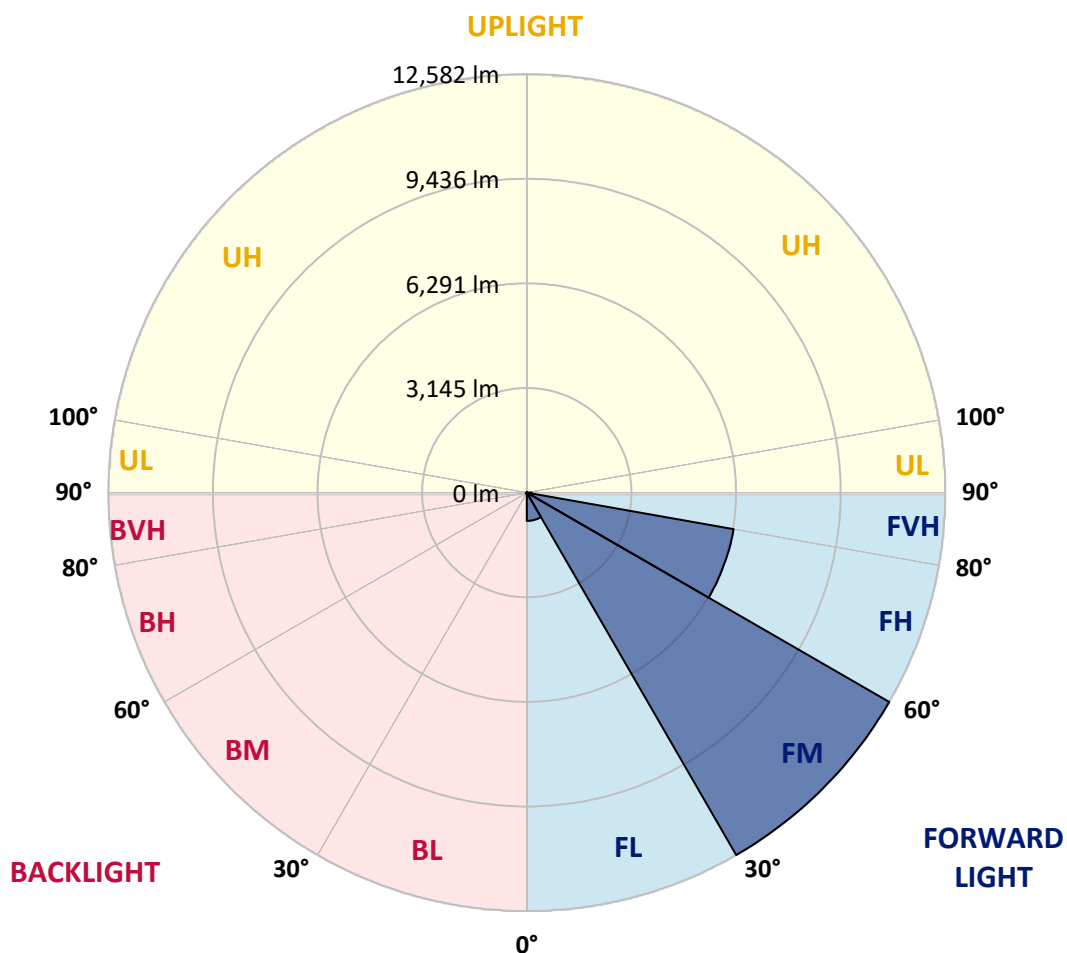
CATALOG NUMBER: NAV-SA5C-722-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.1	4.3			
FM	(30°-60°)	12581.8	63.0			
FH	(60°-80°)	6314.5	31.6			G3/7500
FVH	(80°-90°)	150.7	0.8			G2/225
BL	(0°-30°)	18.2	0.1	B0/110		
BM	(30°-60°)	26.8	0.1	B0/220		
BH	(60°-80°)	32.3	0.2	B0/110		G0/110
BVH	(80°-90°)	3.7	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 II Short



REPORT NUMBER: P1067191

CATALOG NUMBER: NAV-SA5C-722-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	176.0	176.0	176.0	170.5	165.0	165.0	159.5	154.0	154.0	143.0	137.5
5°	269.5	269.5	258.5	247.5	231.0	209.0	187.0	170.5	170.5	154.0	143.0
7.5°	527.9	544.4	494.9	434.4	352.0	297.0	236.5	198.0	192.5	165.0	143.0
10°	1143.8	1132.8	1055.9	907.4	714.9	516.9	330.0	242.0	231.0	176.0	143.0
12.5°	1721.3	1737.8	1655.3	1490.3	1259.3	918.4	566.4	313.5	302.5	192.5	143.0
15°	2216.2	2216.2	2161.2	2078.7	1825.7	1468.3	912.9	467.4	428.9	209.0	137.5
17.5°	2557.1	2551.6	2529.7	2507.7	2359.2	1990.7	1396.8	747.9	659.9	247.5	137.5
20°	2942.1	2925.6	2953.1	2909.1	2793.6	2502.2	1908.2	1110.8	1028.4	313.5	137.5
22.5°	3343.5	3360.0	3382.0	3338.0	3211.6	2958.6	2447.2	1578.3	1490.3	434.4	143.0
25°	3855.0	3844.0	3893.5	3855.0	3695.5	3398.5	2953.1	2089.7	1963.2	604.9	154.0
27.5°	4481.9	4459.9	4492.9	4393.9	4184.9	3882.5	3404.0	2612.1	2463.7	868.9	176.0
30°	5312.3	5328.8	5180.3	5064.8	4767.8	4366.4	3904.5	3173.1	3019.1	1182.3	198.0
32.5°	6621.1	6505.6	6274.6	5807.2	5416.8	4905.3	4404.9	3662.5	3525.0	1583.8	231.0
35°	8661.3	8683.3	8177.4	7022.5	6175.7	5581.7	4954.8	4201.4	4102.4	2040.2	275.0
37.5°	11147.0	11086.5	10641.0	9183.7	7286.5	6423.1	5581.7	4789.8	4646.9	2535.2	330.0
40°	13962.6	13709.6	13451.1	12461.3	9601.7	7479.0	6373.6	5471.7	5361.8	3107.1	417.9
42.5°	16217.3	16151.3	16195.3	15782.8	13462.1	9277.2	7424.0	6307.6	6175.7	3816.5	571.9
45°	17328.1	17234.6	17498.6	17806.6	17212.6	13104.7	9117.7	7374.5	7198.5	4652.4	808.4
47.5°	17031.2	16965.2	17531.6	18136.5	18928.4	17542.6	11883.9	8969.3	8666.8	5724.7	1160.3
50°	15568.4	15573.9	16503.2	17630.6	18884.4	19791.8	15980.8	11152.5	10773.0	7149.0	1710.3
52.5°	14144.1	14188.0	15172.4	16816.7	18230.0	20055.7	19577.3	14094.6	13478.6	8826.3	2359.2
55°	12681.3	12703.3	13572.1	15887.3	17922.0	19269.3	21425.1	17883.5	17229.1	10916.0	2991.6
57.5°	11273.4	11273.4	11597.9	13654.6	17586.6	19197.9	21205.1	21348.1	20814.6	13302.7	3459.0
60°	8468.8	8523.8	9332.2	10773.0	15166.9	19302.3	20644.2	22453.4	22453.4	16613.2	3816.5
62.5°	4278.4	4360.9	5367.3	6769.6	10404.6	17861.5	20732.1	21898.0	21986.0	19533.3	4630.4
65°	2007.2	2100.7	2639.6	3629.5	5598.2	12571.3	19819.3	21425.1	21397.6	18977.9	6346.1
67.5°	1440.8	1468.3	1649.8	2117.2	3013.6	5510.2	15128.4	20011.7	20022.7	16123.8	7297.5
70°	1292.3	1292.3	1336.3	1473.8	1814.8	2463.7	7352.5	16206.3	16992.7	12450.3	6764.1
72.5°	1275.8	1264.8	1253.8	1259.3	1226.3	1237.3	2524.2	9150.7	10272.6	8710.8	5394.8
75°	1242.8	1242.8	1231.8	1193.3	978.9	797.4	868.9	3701.0	4278.4	5818.2	4003.4
77.5°	984.4	1083.4	1198.8	1127.3	896.4	599.4	505.9	1072.4	1352.8	3569.0	2903.6
80°	456.4	461.9	456.4	478.4	571.9	428.9	373.9	522.4	527.9	1979.7	1798.3
82.5°	330.0	335.5	319.0	286.0	253.0	231.0	308.0	384.9	412.4	907.4	670.9
85°	99.0	93.5	110.0	148.5	176.0	203.5	258.5	324.5	341.0	335.5	99.0
87.5°	44.0	44.0	55.0	77.0	104.5	154.0	225.5	297.0	302.5	346.5	27.5
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: P1067191

CATALOG NUMBER: NAV-SA5C-722-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	137.5	132.0	126.5	121.0	115.5	110.0	104.5	104.5	110.0	110.0	110.0
5°	132.0	126.5	115.5	104.5	99.0	93.5	88.0	88.0	93.5	93.5	93.5
7.5°	132.0	121.0	110.0	99.0	88.0	82.5	77.0	77.0	77.0	82.5	82.5
10°	132.0	121.0	104.5	88.0	77.0	71.5	66.0	60.5	66.0	66.0	66.0
12.5°	126.5	115.5	99.0	82.5	66.0	55.0	49.5	49.5	49.5	49.5	49.5
15°	121.0	110.0	93.5	71.5	55.0	44.0	33.0	33.0	33.0	38.5	38.5
17.5°	115.5	104.5	82.5	55.0	38.5	27.5	22.0	22.0	22.0	27.5	27.5
20°	115.5	99.0	71.5	44.0	27.5	16.5	11.0	11.0	11.0	16.5	22.0
22.5°	115.5	99.0	66.0	33.0	16.5	11.0	5.5	5.5	5.5	5.5	5.5
25°	115.5	93.5	60.5	27.5	11.0	5.5	0.0	0.0	5.5	11.0	16.5
27.5°	115.5	88.0	49.5	16.5	11.0	5.5	0.0	5.5	11.0	11.0	11.0
30°	115.5	88.0	44.0	16.5	5.5	0.0	0.0	5.5	11.0	11.0	16.5
32.5°	121.0	82.5	38.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	126.5	77.0	33.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	137.5	77.0	22.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	154.0	82.5	22.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	192.5	88.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	269.5	110.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	395.9	165.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	577.4	225.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	709.4	225.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	703.9	143.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	538.9	99.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	456.4	71.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	549.9	55.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	978.9	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1572.8	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1759.8	49.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1374.8	44.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	753.4	38.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	379.4	27.5	11.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.5	22.0	11.0	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	55.0	22.0	11.0	11.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0
85°	27.5	16.5	16.5	11.0	11.0	5.5	5.5	0.0	0.0	0.0	0.0
87.5°	16.5	16.5	16.5	11.0	11.0	5.5	5.5	0.0	0.0	0.0	5.5
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

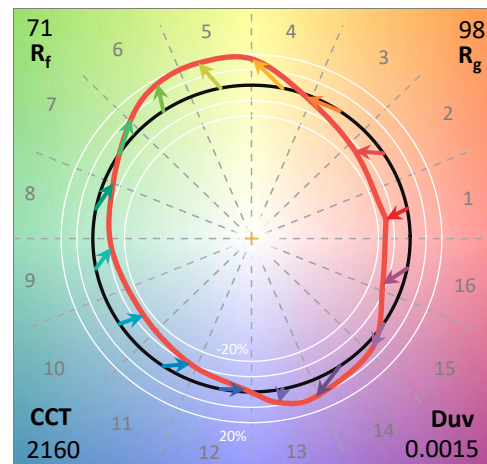
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

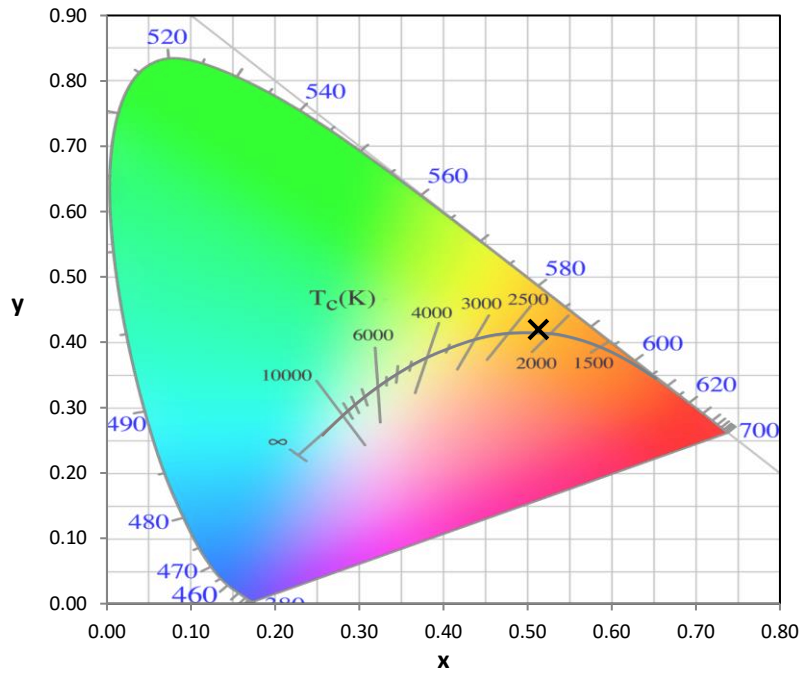
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

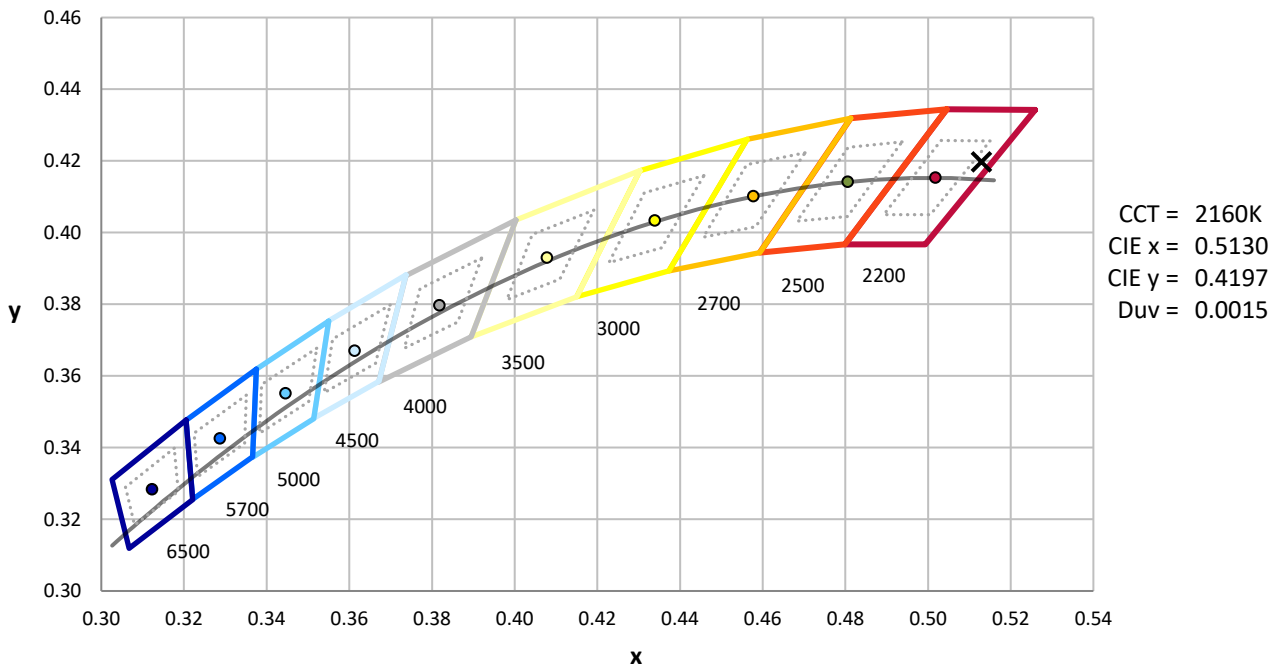
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



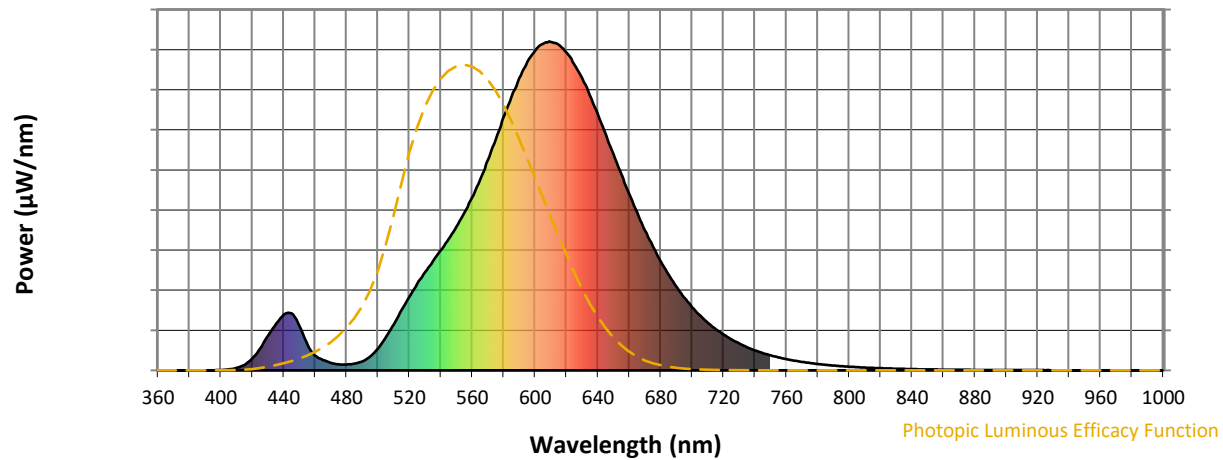
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

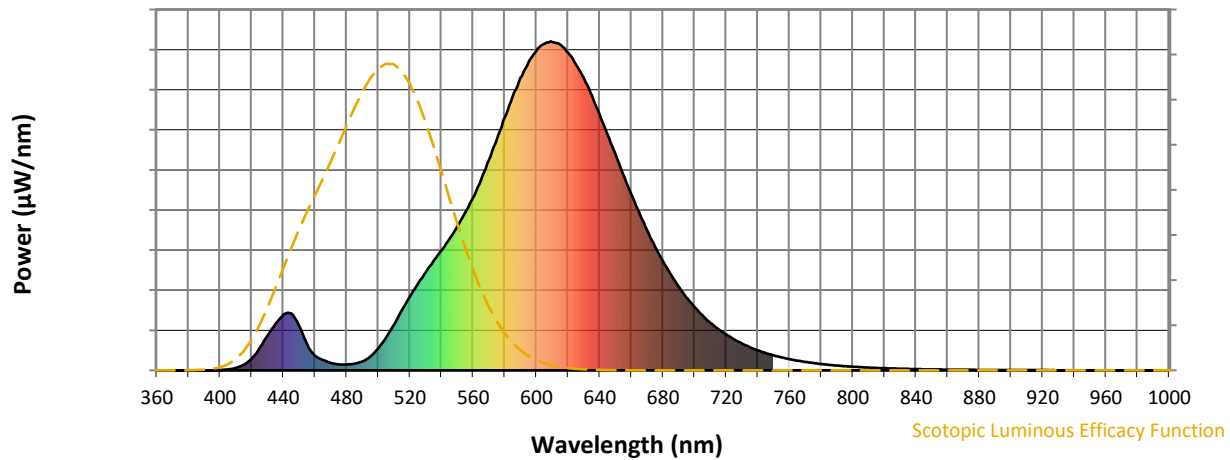


Photopic Lumens: NR

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



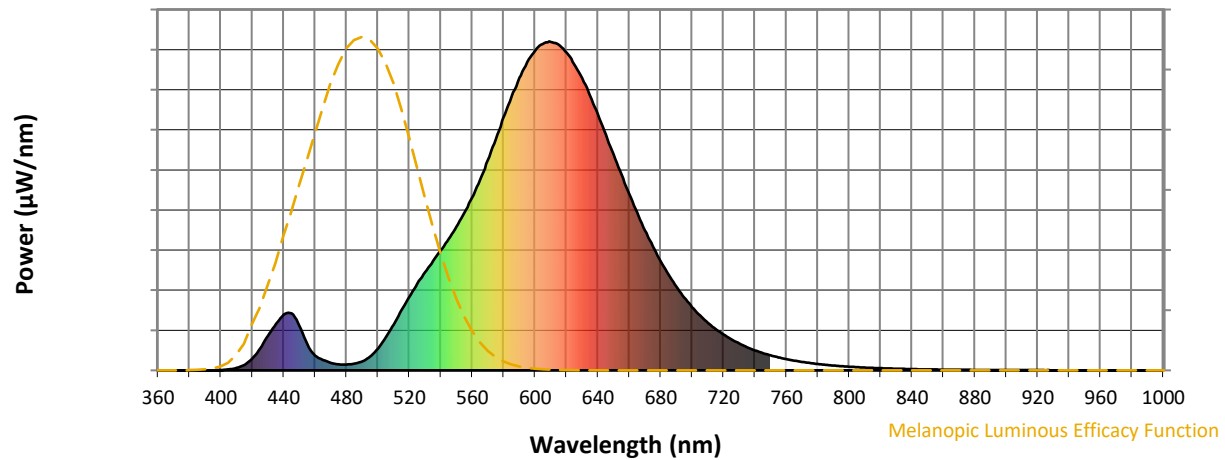
Scotopic Lumens: NR

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

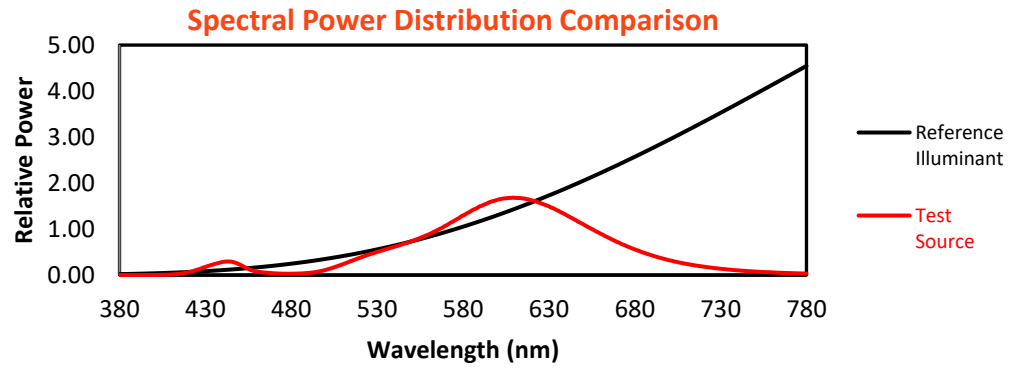
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27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

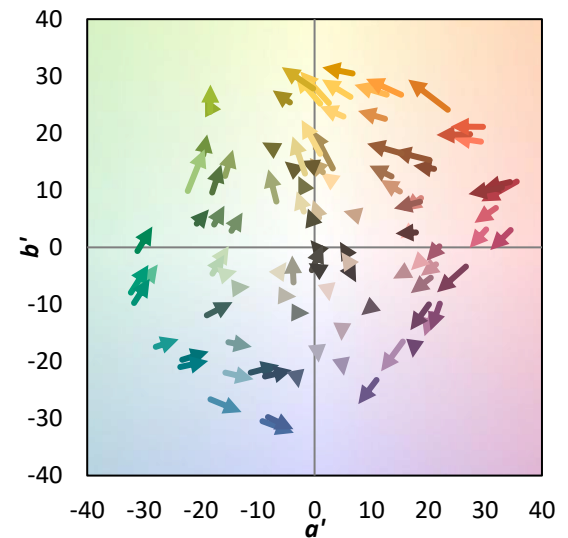
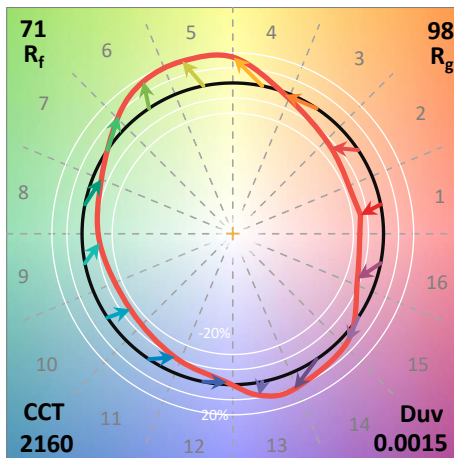
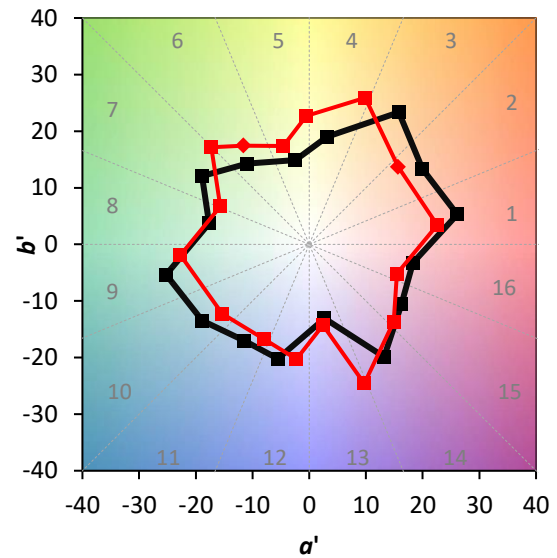
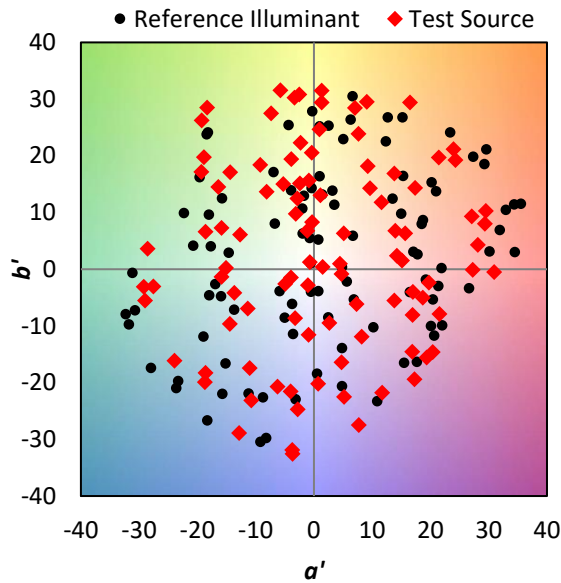
TM-30-18

Summary

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

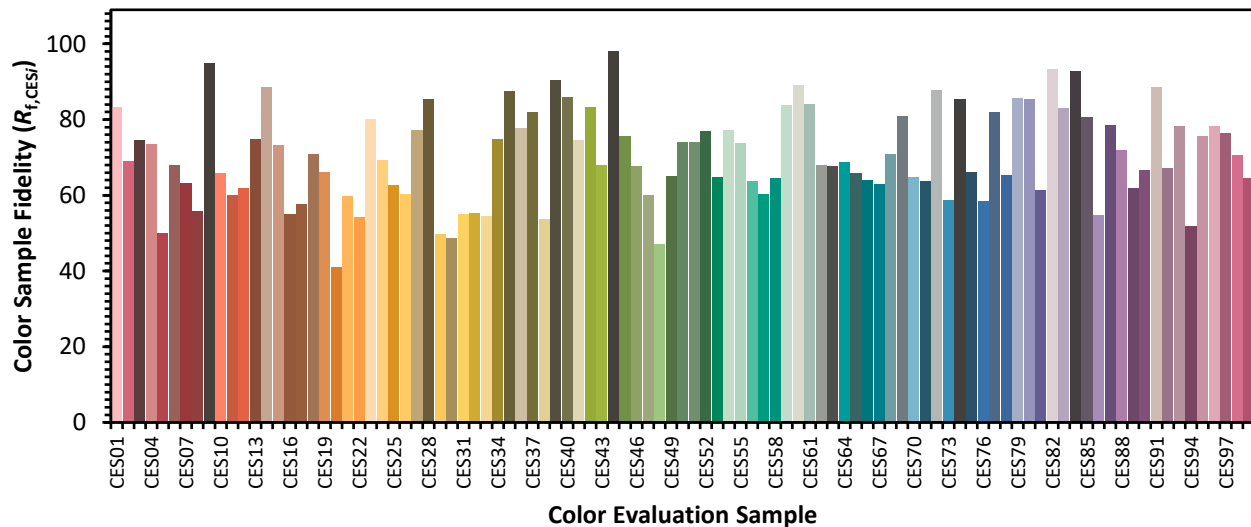


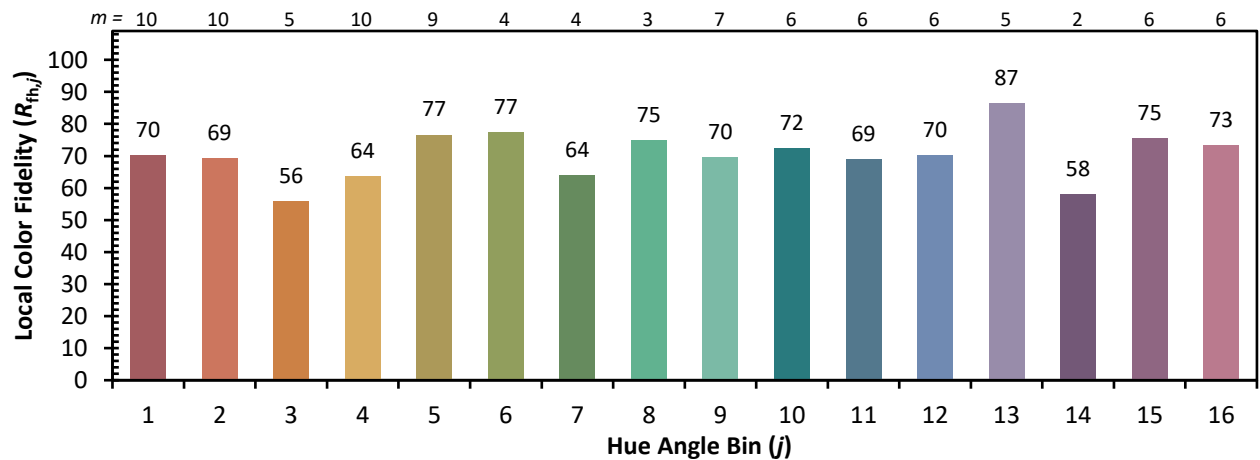
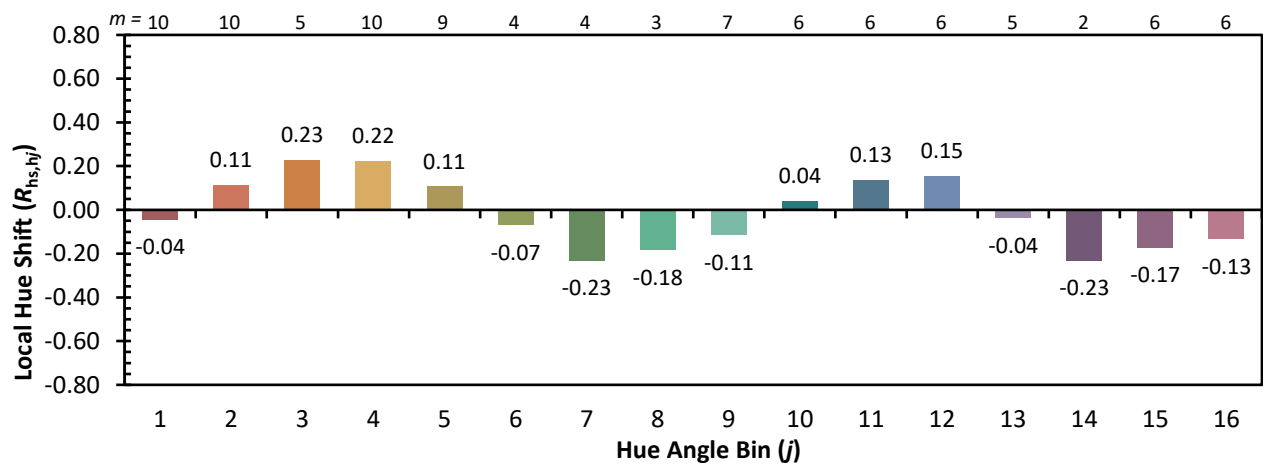
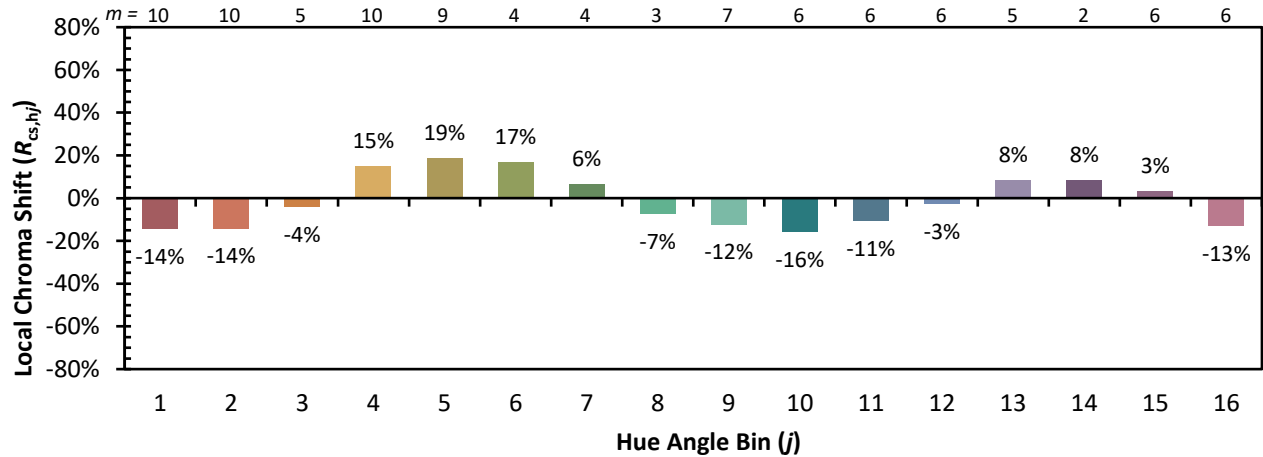
Color Vector Graphics



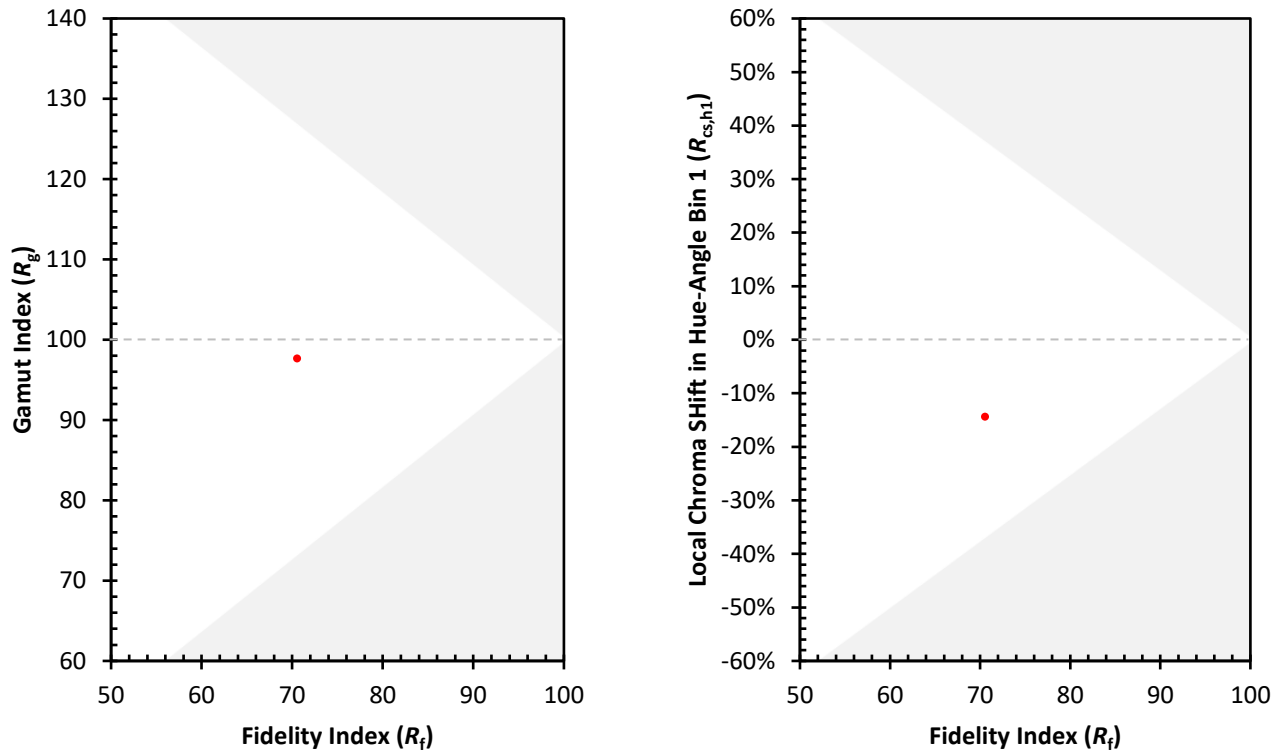
Individual Sample Fidelity Index ($R_{f,i}$)

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)