

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: P1065986

Luminaire Tested: **NVN-SA4B-722-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065986
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4B-722-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12745.7 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 144.1
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

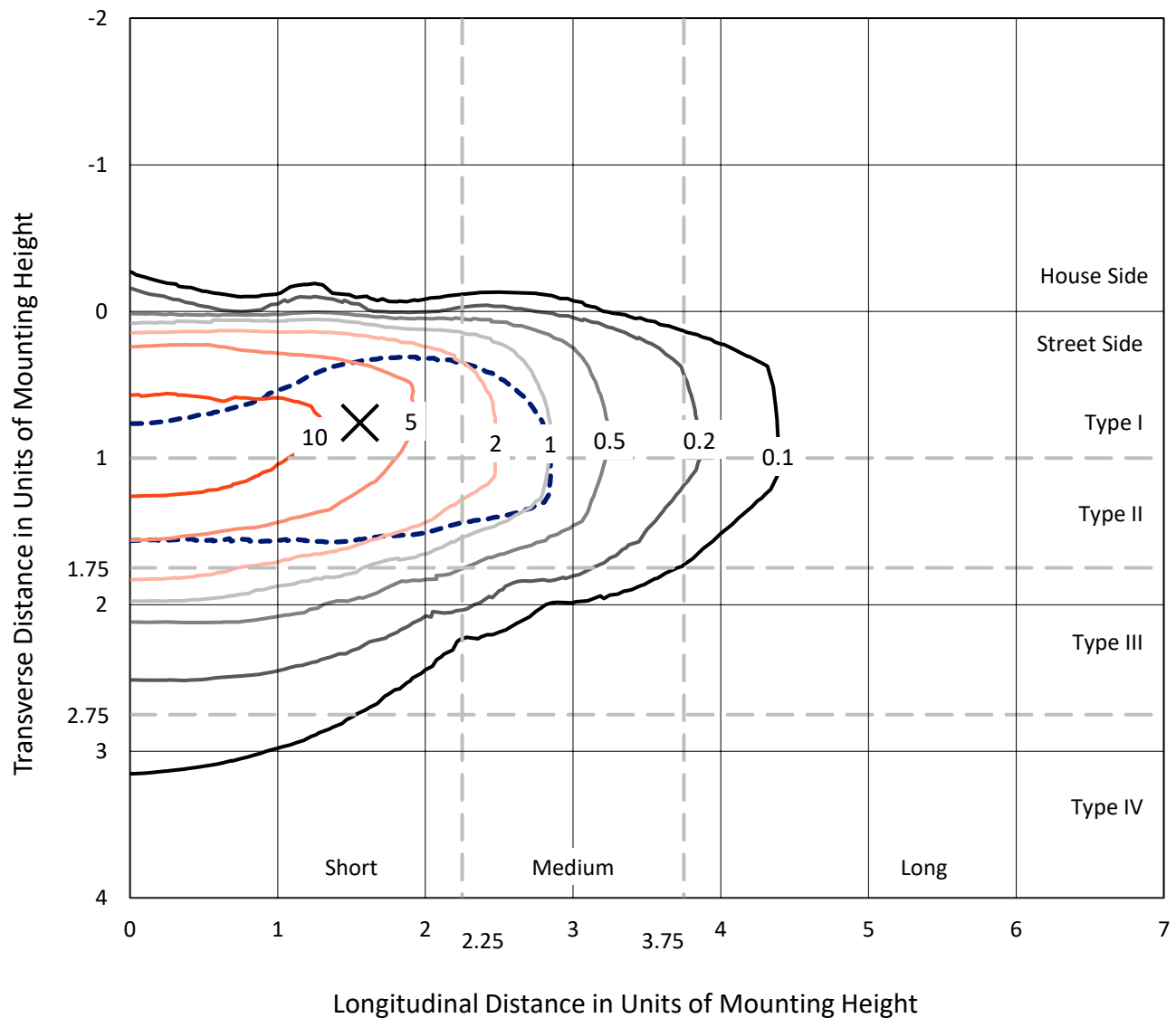


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

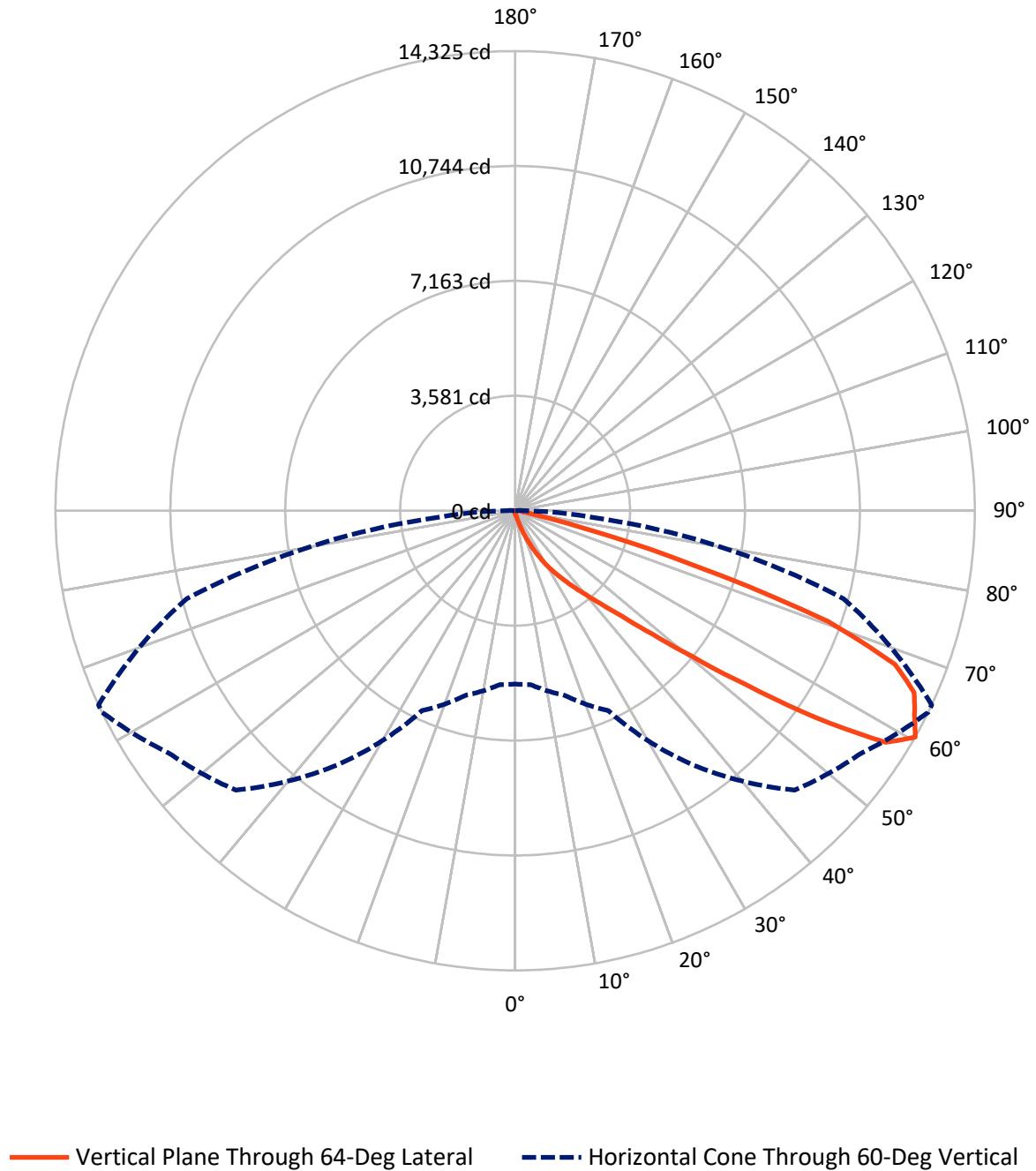


Based on 15 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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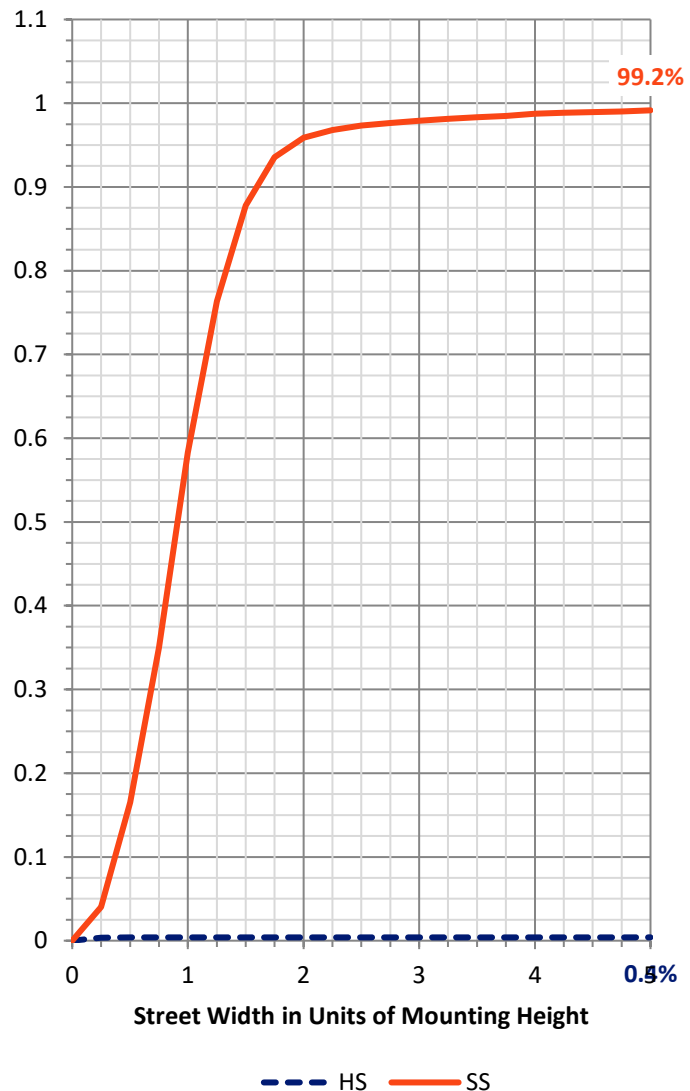
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.7	0.0	51.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	12694.1	0.0	12694.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	12745.7	0.0	12745.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.1
10°-20°	125.3	1.0
20°-30°	416.0	3.3
30°-40°	1110.0	8.7
40°-50°	2821.3	22.1
50°-60°	4112.9	32.3
60°-70°	3176.8	24.9
70°-80°	872.4	6.8
80°-90°	98.5	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°	12745.7	100.0
0°-180°	12745.7	100.0



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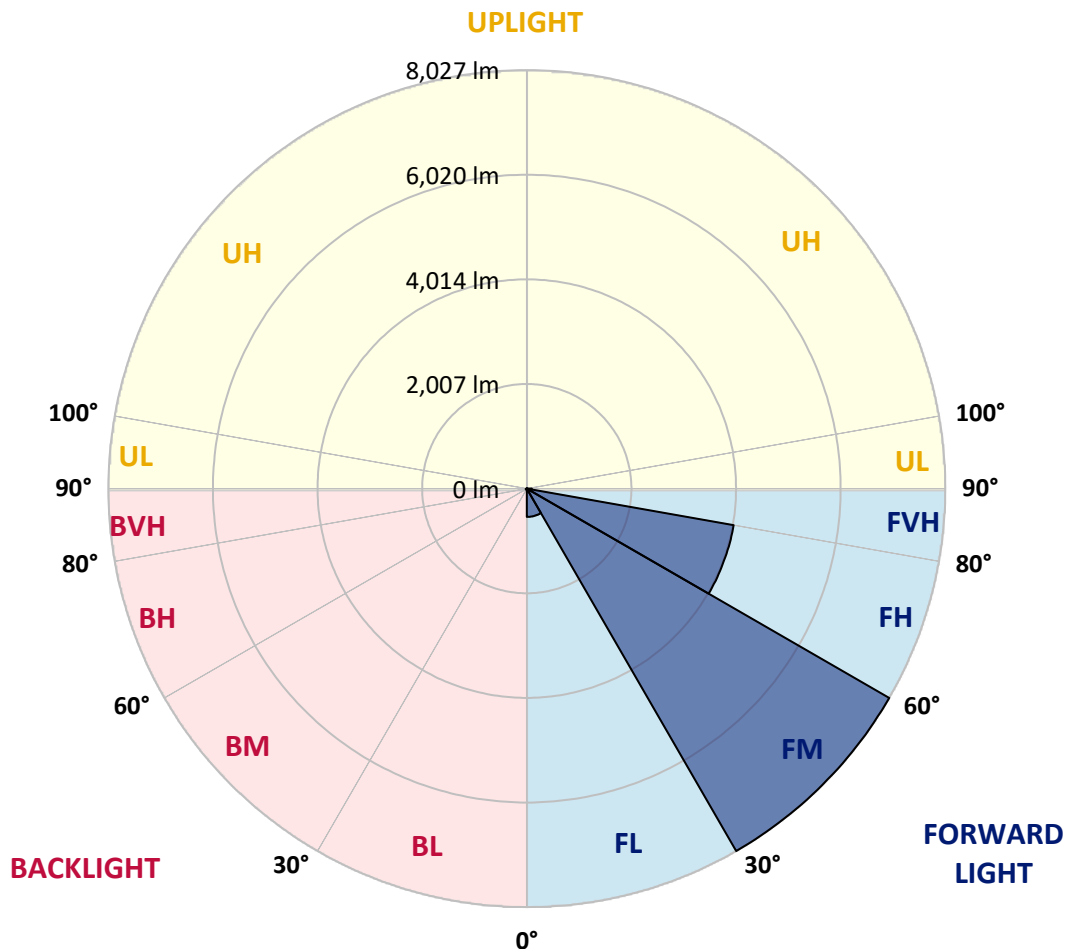
CATALOG NUMBER: NVN-SA4B-722-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	542.3	4.3			
FM	(30°-60°)	8027.0	63.0			
FH	(60°-80°)	4028.6	31.6			G2/5000
FVH	(80°-90°)	96.1	0.8			G1/100
BL	(0°-30°)	11.6	0.1	B0/110		
BM	(30°-60°)	17.1	0.1	B0/220		
BH	(60°-80°)	20.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
2.5°	112.3	112.3	112.3	108.8	105.3	105.3	101.7	98.2	98.2	91.2	87.7
5°	171.9	171.9	164.9	157.9	147.4	133.3	119.3	108.8	108.8	98.2	91.2
7.5°	336.8	347.3	315.8	277.2	224.5	189.5	150.9	126.3	122.8	105.3	91.2
10°	729.8	722.7	673.6	578.9	456.1	329.8	210.5	154.4	147.4	112.3	91.2
12.5°	1098.1	1108.7	1056.0	950.8	803.4	585.9	361.4	200.0	193.0	122.8	91.2
15°	1413.9	1413.9	1378.8	1326.2	1164.8	936.8	582.4	298.2	273.7	133.3	87.7
17.5°	1631.4	1627.9	1613.9	1599.9	1505.1	1270.1	891.1	477.1	421.0	157.9	87.7
20°	1877.0	1866.5	1884.0	1856.0	1782.3	1596.3	1217.4	708.7	656.1	200.0	87.7
22.5°	2133.1	2143.7	2157.7	2129.6	2048.9	1887.5	1561.3	1006.9	950.8	277.2	91.2
25°	2459.4	2452.4	2484.0	2459.4	2357.7	2168.2	1884.0	1333.2	1252.5	385.9	98.2
27.5°	2859.4	2845.4	2866.4	2803.3	2669.9	2477.0	2171.7	1666.5	1571.8	554.3	112.3
30°	3389.2	3399.7	3305.0	3231.3	3041.8	2785.7	2491.0	2024.4	1926.1	754.3	126.3
32.5°	4224.2	4150.5	4003.1	3704.9	3455.8	3129.5	2810.3	2336.6	2248.9	1010.4	147.4
35°	5525.8	5539.8	5217.1	4480.3	3940.0	3561.1	3161.1	2680.5	2617.3	1301.6	175.4
37.5°	7111.6	7073.0	6788.9	5859.1	4648.7	4097.9	3561.1	3055.9	2964.6	1617.4	210.5
40°	8908.0	8746.6	8581.7	7950.1	6125.8	4771.5	4066.3	3490.9	3420.7	1982.3	266.6
42.5°	10346.4	10304.3	10332.4	10069.3	8588.7	5918.8	4736.4	4024.2	3940.0	2434.9	364.9
45°	11055.1	10995.5	11163.9	11360.4	10981.5	8360.6	5817.0	4704.8	4592.6	2968.1	515.7
47.5°	10865.7	10823.6	11184.9	11570.9	12076.1	11192.0	7581.8	5722.3	5529.3	3652.3	740.3
50°	9932.4	9935.9	10528.9	11248.1	12048.0	12626.9	10195.6	7115.1	6873.1	4561.0	1091.1
52.5°	9023.7	9051.8	9679.8	10728.8	11630.5	12795.3	12490.1	8992.2	8599.2	5631.1	1505.1
55°	8090.5	8104.5	8658.9	10135.9	11434.0	12293.6	13668.9	11409.5	10992.0	6964.3	1908.6
57.5°	7192.3	7192.3	7399.3	8711.5	11220.0	12248.0	13528.6	13619.8	13279.5	8486.9	2206.8
60°	5403.0	5438.1	5953.8	6873.1	9676.3	12314.7	13170.7	14325.0	14325.0	10599.0	2434.9
62.5°	2729.6	2782.2	3424.2	4318.9	6638.0	11395.4	13226.9	13970.7	14026.8	12462.0	2954.1
65°	1280.6	1340.2	1684.1	2315.6	3571.6	8020.3	12644.5	13668.9	13651.4	12107.7	4048.8
67.5°	919.2	936.8	1052.5	1350.8	1922.6	3515.5	9651.7	12767.3	12774.3	10286.8	4655.7
70°	824.5	824.5	852.6	940.3	1157.8	1571.8	4690.8	10339.4	10841.1	7943.1	4315.4
72.5°	814.0	806.9	799.9	803.4	782.4	789.4	1610.4	5838.1	6553.8	5557.4	3441.8
75°	792.9	792.9	785.9	761.3	624.5	508.7	554.3	2361.2	2729.6	3711.9	2554.2
77.5°	628.0	691.2	764.8	719.2	571.9	382.4	322.8	684.1	863.1	2277.0	1852.5
80°	291.2	294.7	291.2	305.2	364.9	273.7	238.6	333.3	336.8	1263.0	1147.3
82.5°	210.5	214.0	203.5	182.4	161.4	147.4	196.5	245.6	263.1	578.9	428.0
85°	63.2	59.6	70.2	94.7	112.3	129.8	164.9	207.0	217.5	214.0	63.2
87.5°	28.1	28.1	35.1	49.1	66.7	98.2	143.8	189.5	193.0	221.0	17.5
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-SA4B-722-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
2.5°	87.7	84.2	80.7	77.2	73.7	70.2	66.7	66.7	70.2	70.2	70.2
5°	84.2	80.7	73.7	66.7	63.2	59.6	56.1	56.1	59.6	59.6	59.6
7.5°	84.2	77.2	70.2	63.2	56.1	52.6	49.1	49.1	49.1	52.6	52.6
10°	84.2	77.2	66.7	56.1	49.1	45.6	42.1	38.6	42.1	42.1	42.1
12.5°	80.7	73.7	63.2	52.6	42.1	35.1	31.6	31.6	31.6	31.6	31.6
15°	77.2	70.2	59.6	45.6	35.1	28.1	21.1	21.1	21.1	24.6	24.6
17.5°	73.7	66.7	52.6	35.1	24.6	17.5	14.0	14.0	14.0	17.5	17.5
20°	73.7	63.2	45.6	28.1	17.5	10.5	7.0	7.0	7.0	10.5	14.0
22.5°	73.7	63.2	42.1	21.1	10.5	7.0	3.5	3.5	3.5	3.5	3.5
25°	73.7	59.6	38.6	17.5	7.0	3.5	0.0	0.0	3.5	7.0	10.5
27.5°	73.7	56.1	31.6	10.5	7.0	3.5	0.0	3.5	7.0	7.0	7.0
30°	73.7	56.1	28.1	10.5	3.5	0.0	0.0	3.5	7.0	7.0	10.5
32.5°	77.2	52.6	24.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	80.7	49.1	21.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	87.7	49.1	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	98.2	52.6	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	122.8	56.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	171.9	70.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	252.6	105.3	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	368.4	143.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	452.6	143.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	449.1	91.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	343.8	63.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	291.2	45.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	350.8	35.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	624.5	31.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1003.4	31.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1122.7	31.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	877.1	28.1	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	480.7	24.6	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	242.1	17.5	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.7	14.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.1	14.0	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	17.5	10.5	10.5	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	10.5	10.5	10.5	7.0	7.0	3.5	3.5	0.0	0.0	0.0	3.5
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

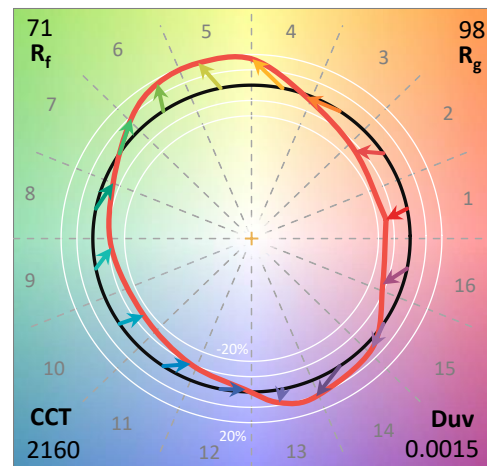
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

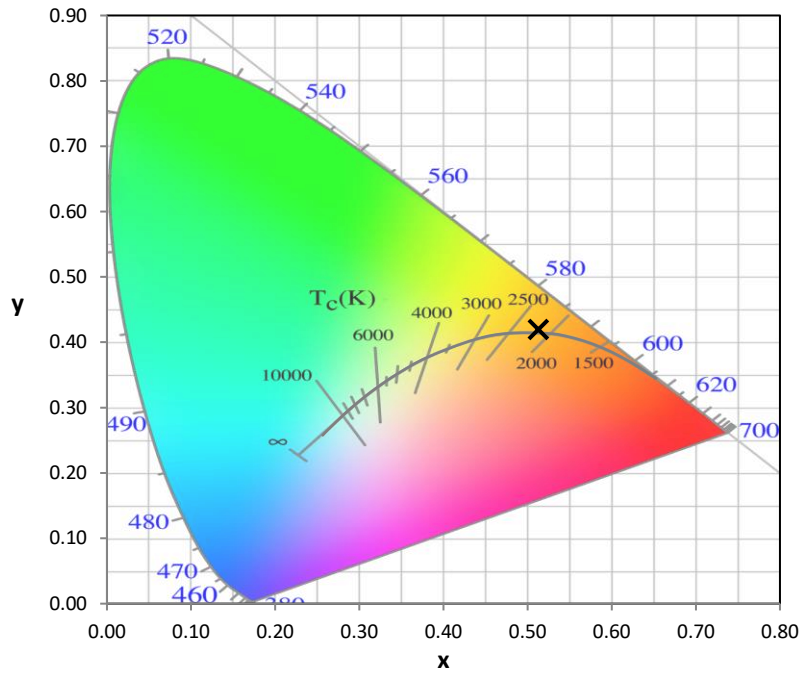
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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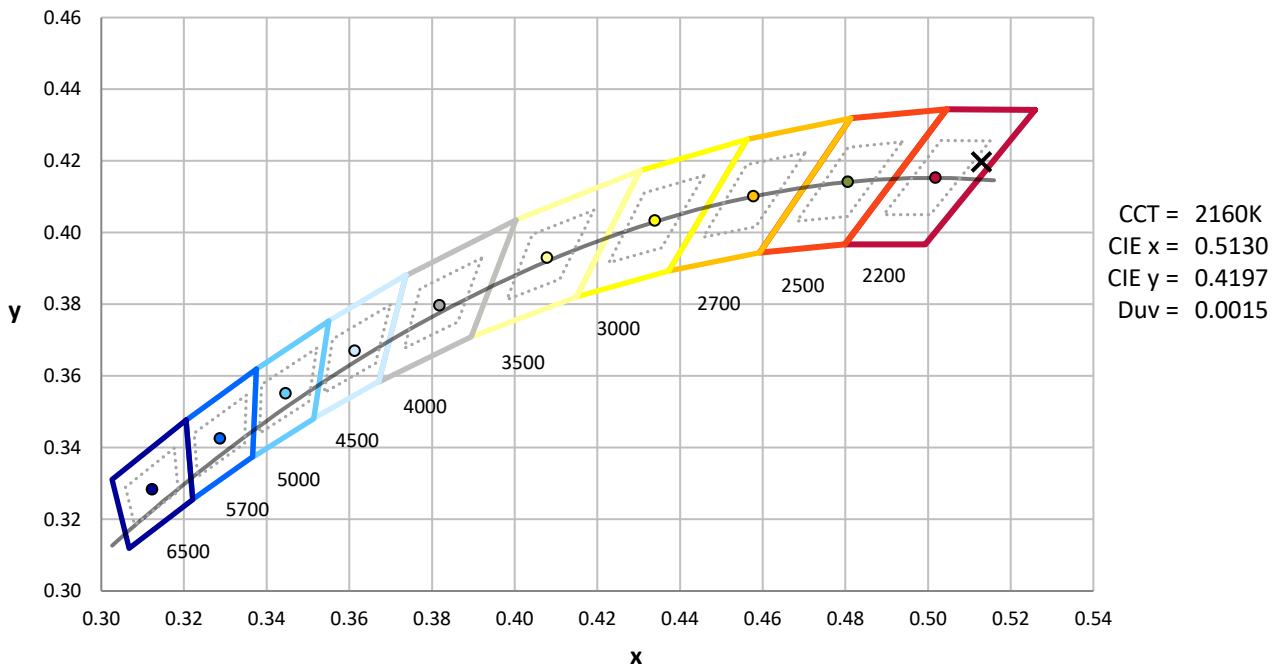
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



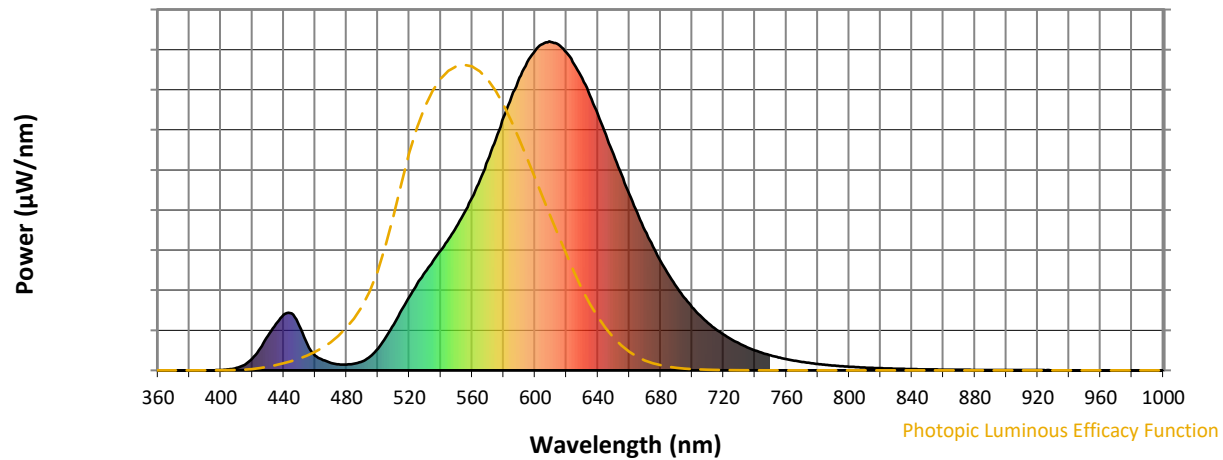
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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Photopic Flux vs. Wavelength

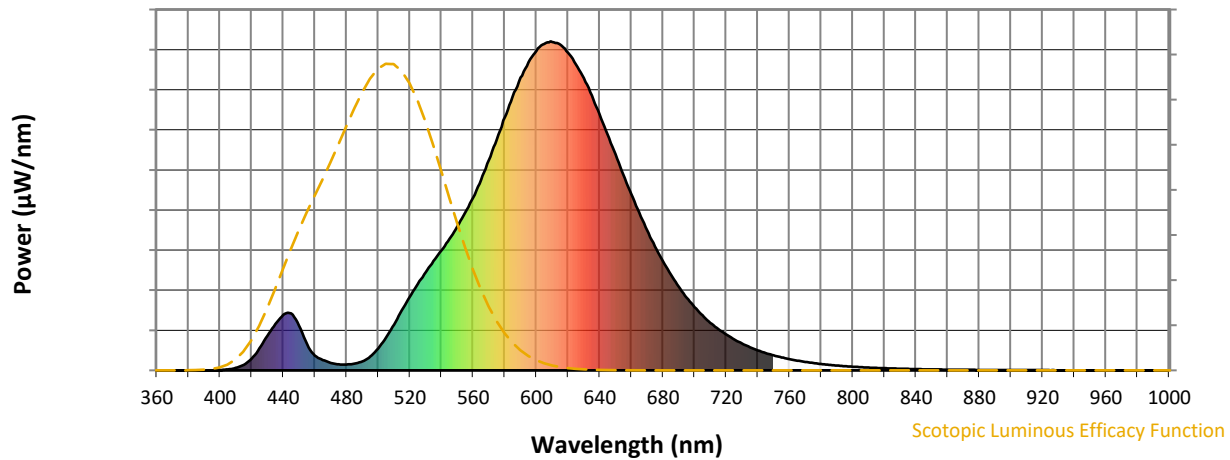


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-2

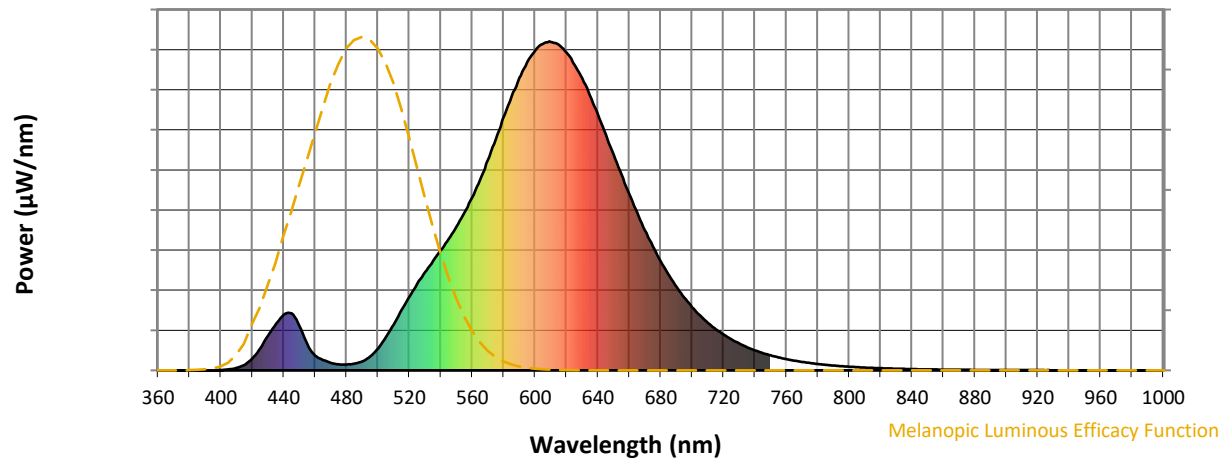
Scotopic Flux vs. Wavelength


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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

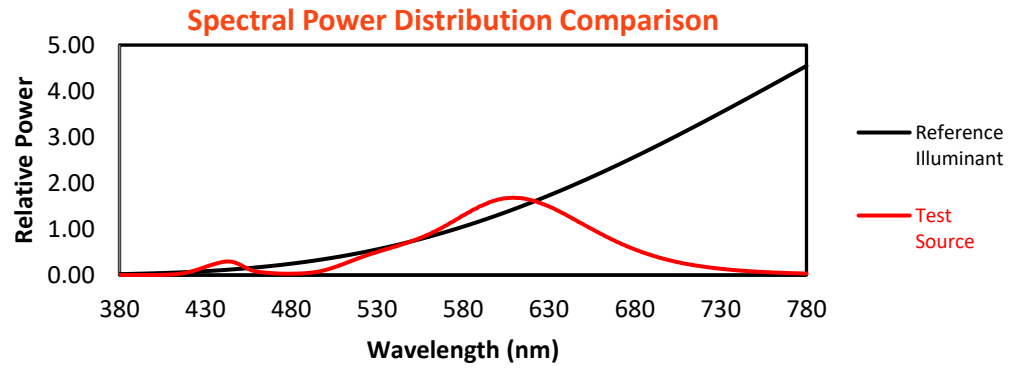
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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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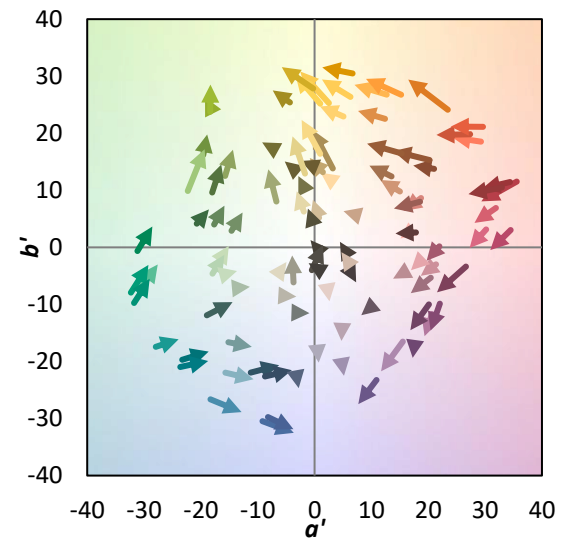
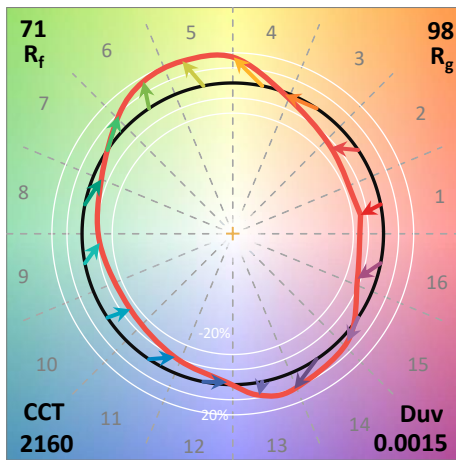
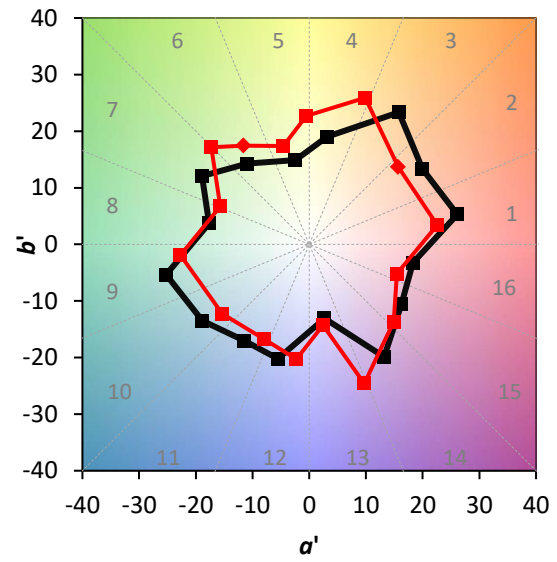
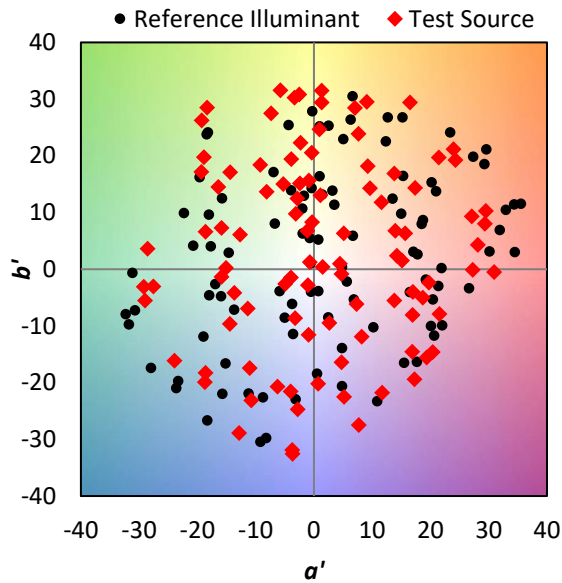
TM-30-18

Summary

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

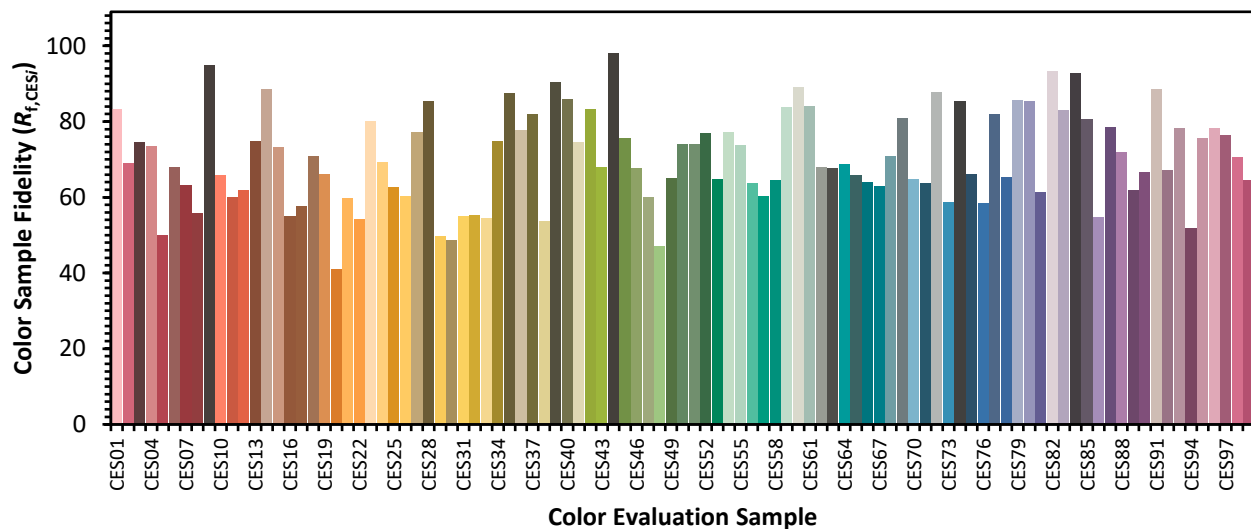


Color Vector Graphics

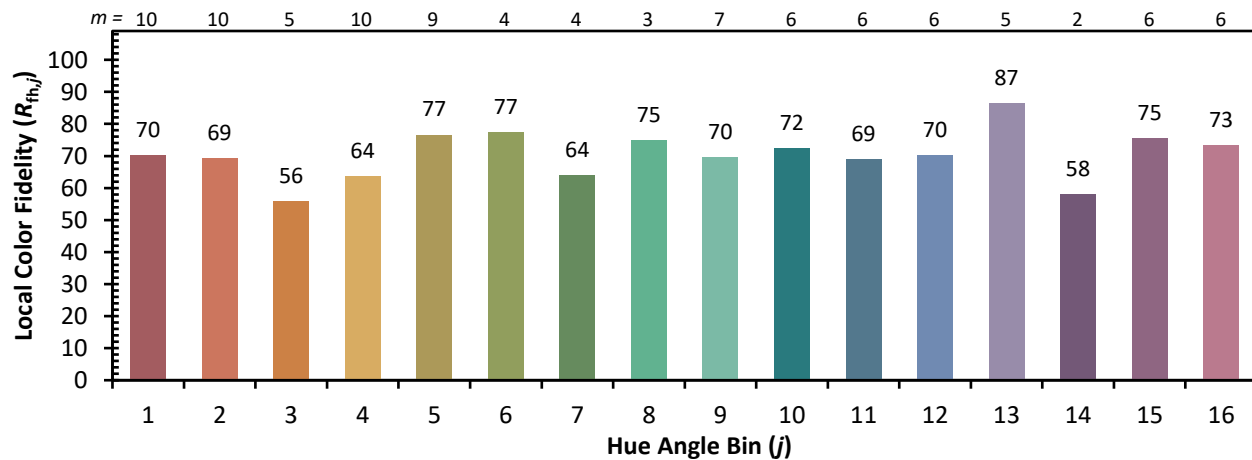
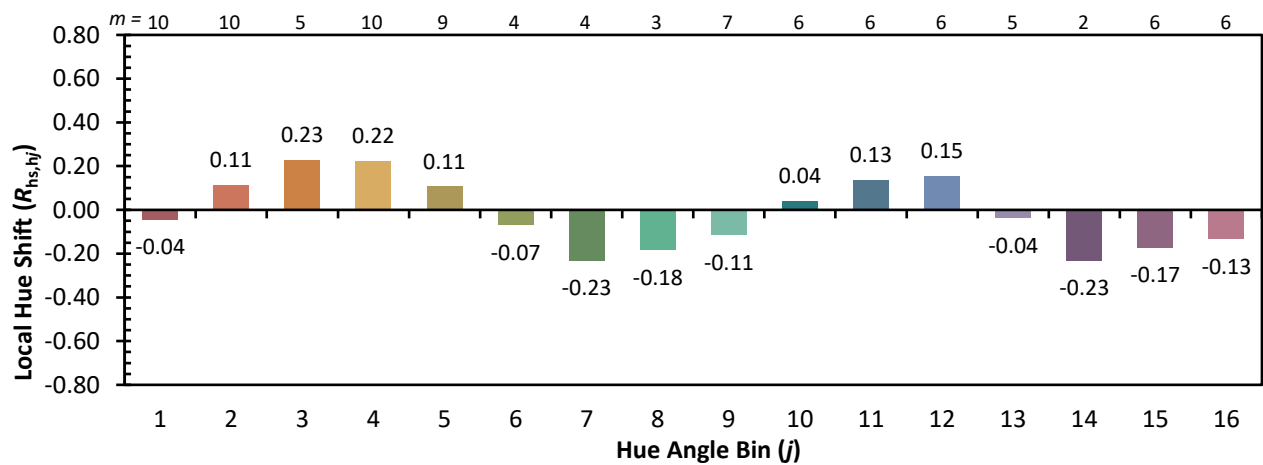
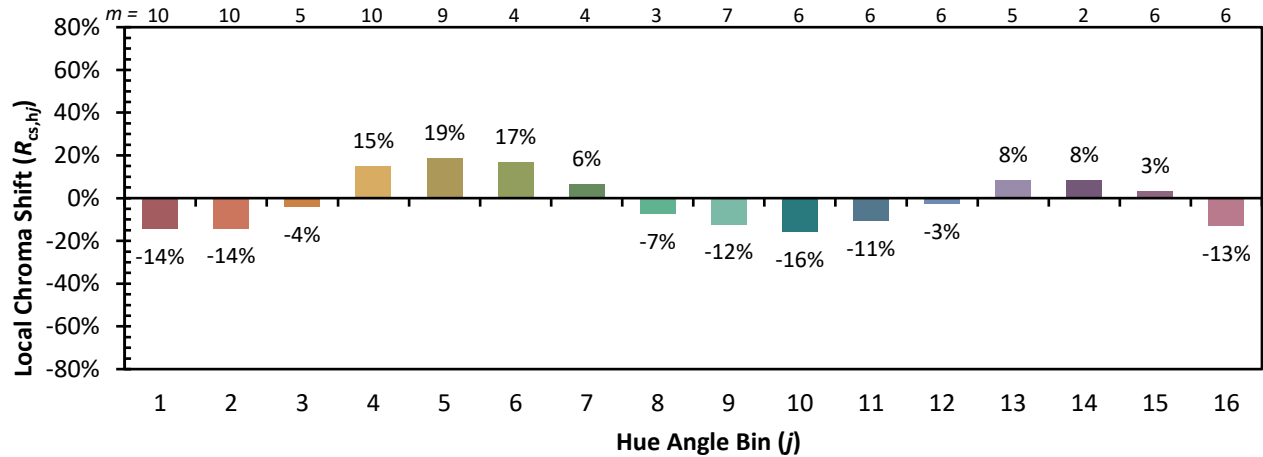


Individual Sample Fidelity Index ($R_{f,i}$)

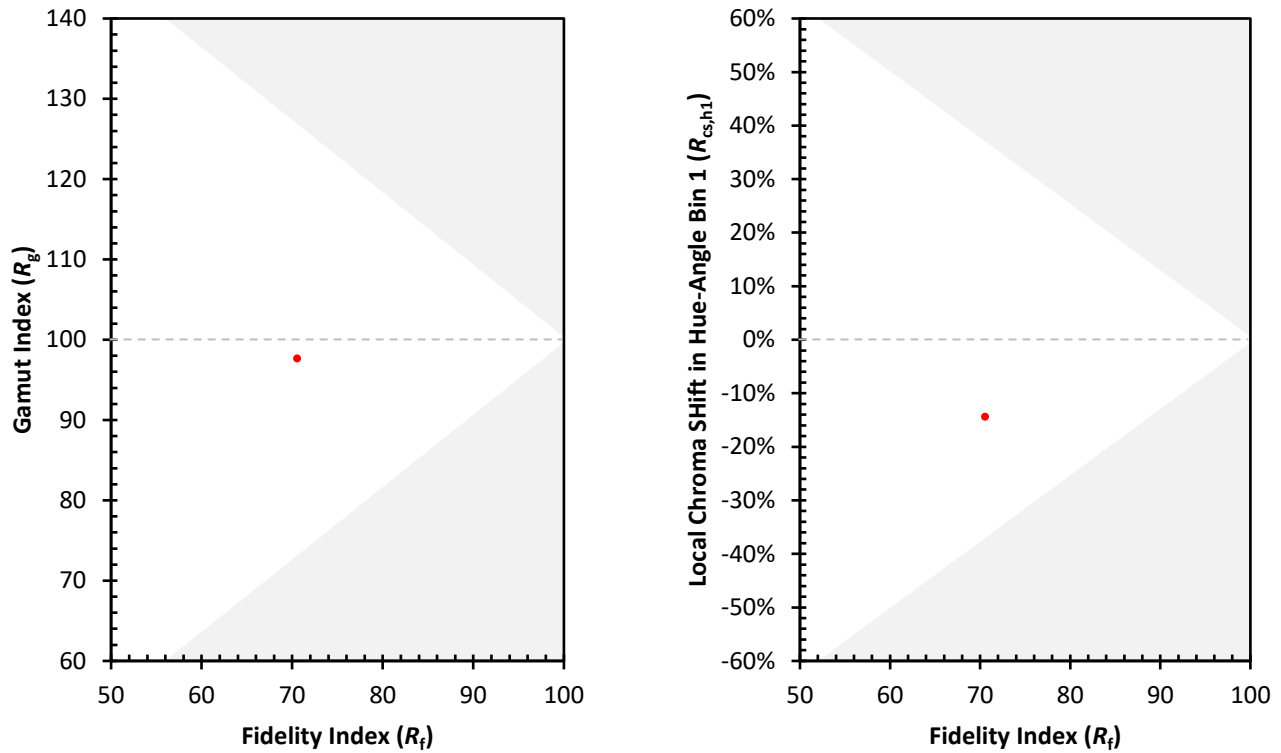
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82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