

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: P1067466

Luminaire Tested: **NAV-SA2B-730-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067466
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-730-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8199.4 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.8
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

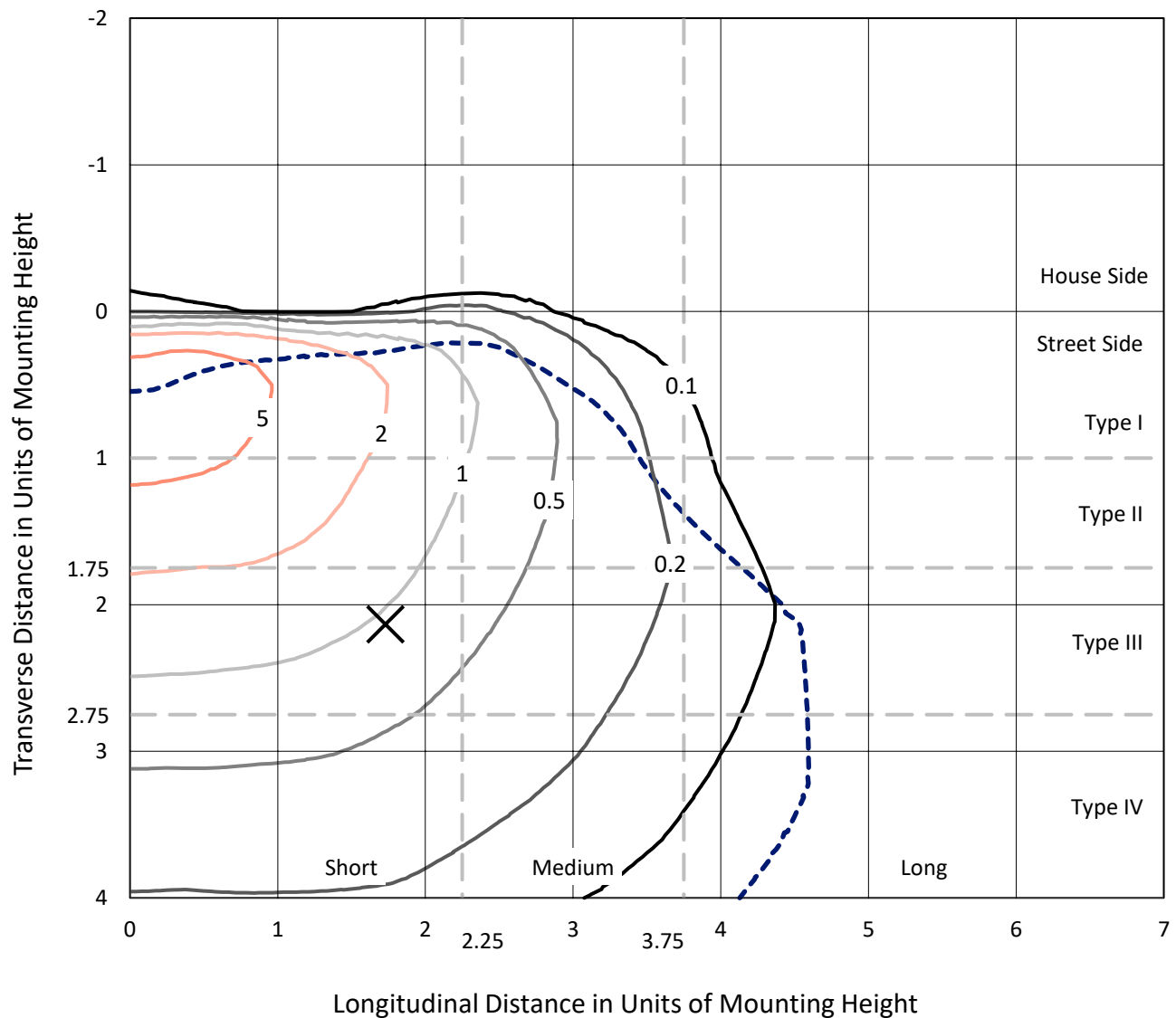


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

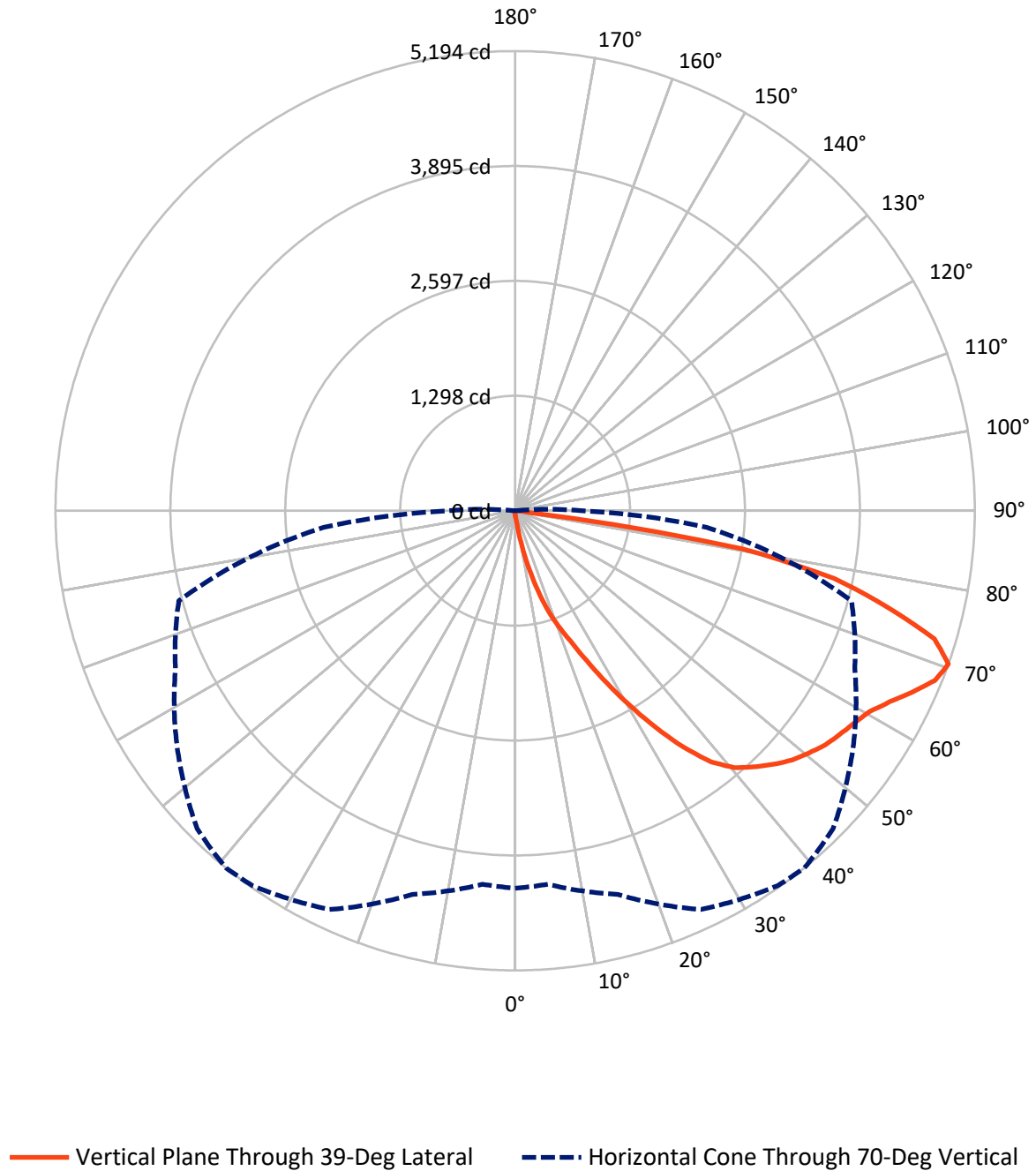


Based on 15 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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CATALOG NUMBER: NAV-SA2B-730-U-T4BC

Luminous Intensity Polar Plot



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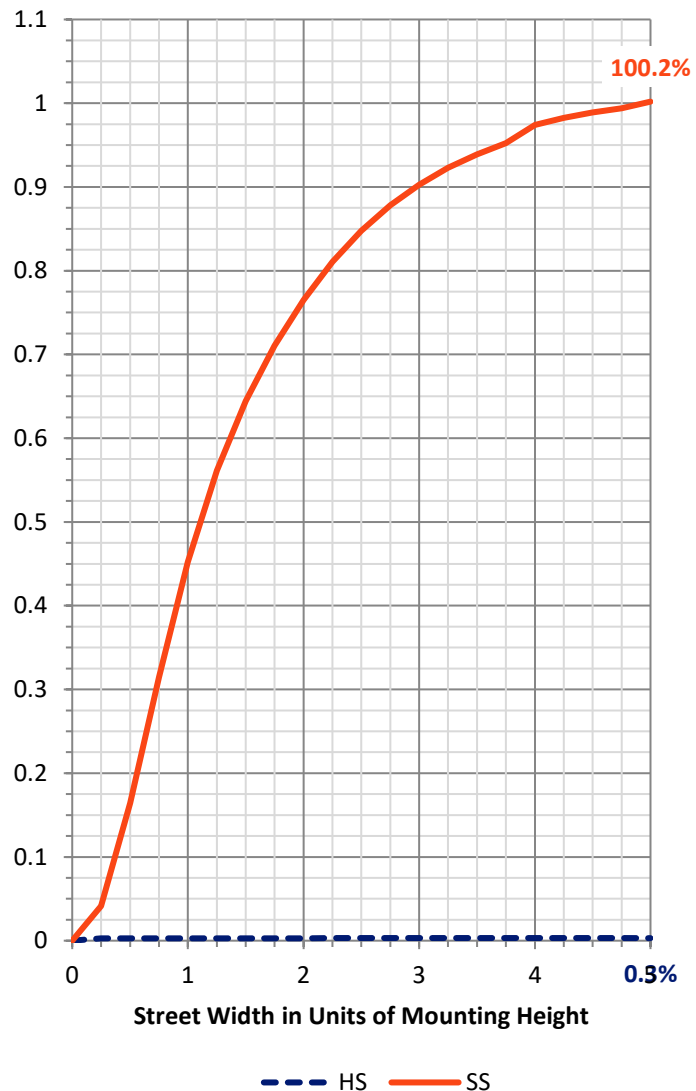
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25.3	0.0	25.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	8174.2	0.0	8174.2
	% Fixture	99.7	0.0	99.7
Total	Lumens	8199.4	0.0	8199.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.1
10°-20°	100.8	1.2
20°-30°	342.1	4.2
30°-40°	803.9	9.8
40°-50°	1305.4	15.9
50°-60°	1654.2	20.2
60°-70°	2101.3	25.6
70°-80°	1707.3	20.8
80°-90°	175.8	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°	8199.4	100.0
0°-180°	8199.4	100.0



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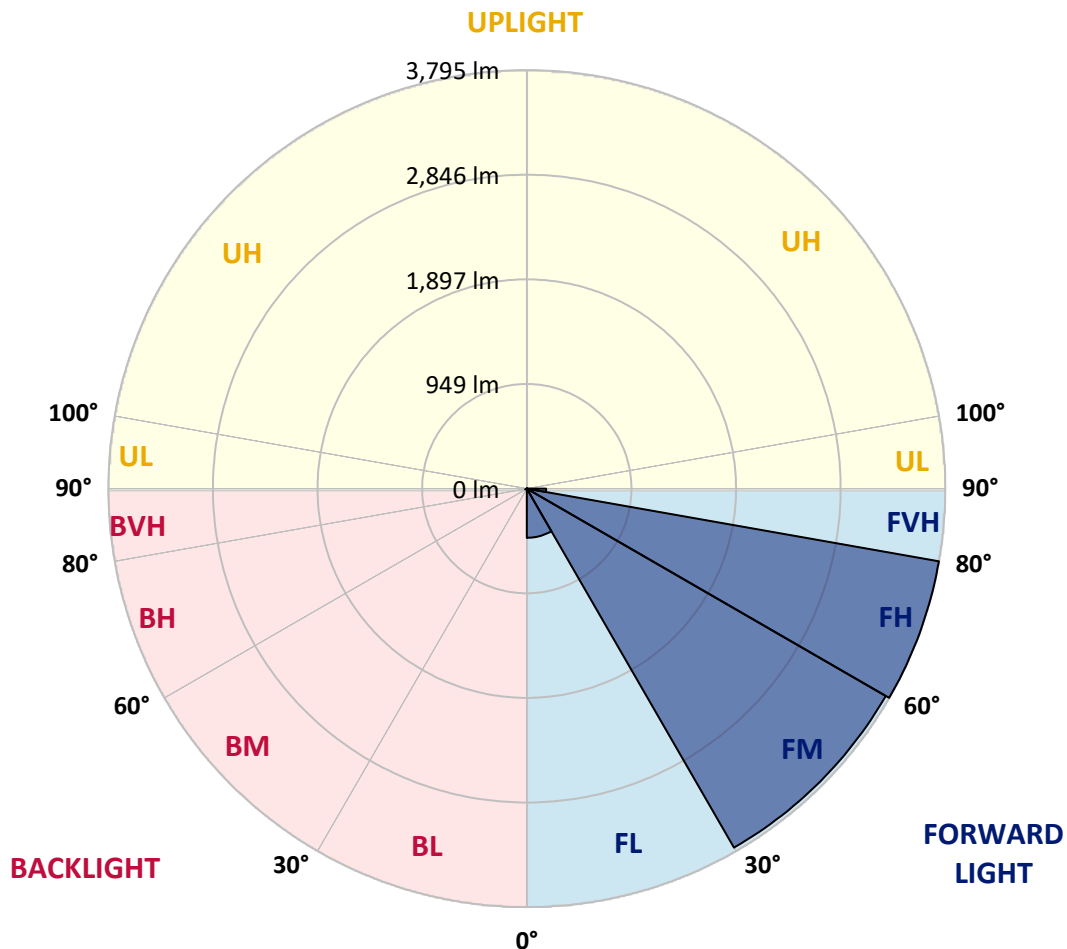
CATALOG NUMBER: NAV-SA2B-730-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.0	5.4			
FM	(30°-60°)	3758.7	45.8			
FH	(60°-80°)	3794.7	46.3			G2/5000
FVH	(80°-90°)	174.7	2.1			G2/225
BL	(0°-30°)	5.5	0.1	B0/110		
BM	(30°-60°)	4.9	0.1	B0/220		
BH	(60°-80°)	13.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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 IV Short



REPORT NUMBER: P1067466

CATALOG NUMBER: NAV-SA2B-730-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	57.9	57.9	57.9	55.7	55.7	53.4	53.4	51.2	49.0	49.0	46.7
5°	109.1	111.3	104.6	91.3	82.4	77.9	73.5	62.3	55.7	51.2	46.7
7.5°	298.3	289.4	276.0	231.5	178.1	151.4	129.1	91.3	66.8	53.4	46.7
10°	627.8	603.3	565.4	505.3	400.7	358.4	278.3	167.0	93.5	60.1	46.7
12.5°	921.6	926.1	879.3	821.4	694.5	623.3	514.2	313.9	146.9	71.2	46.7
15°	1144.2	1139.8	1122.0	1075.2	961.7	892.7	794.7	527.6	247.1	89.0	49.0
17.5°	1320.1	1302.3	1295.6	1275.6	1202.1	1164.3	1057.4	776.9	391.8	120.2	51.2
20°	1496.0	1491.5	1484.8	1462.6	1413.6	1386.9	1304.5	1028.5	583.2	171.4	55.7
22.5°	1752.0	1727.5	1731.9	1682.9	1642.9	1596.1	1529.3	1295.6	803.6	244.9	62.3
25°	2052.5	2050.3	2014.6	1992.4	1925.6	1874.4	1785.3	1553.8	1048.5	354.0	69.0
27.5°	2406.4	2381.9	2366.4	2328.5	2259.5	2201.6	2079.2	1809.8	1313.4	476.4	77.9
30°	2776.0	2776.0	2747.0	2689.2	2622.4	2551.1	2426.5	2079.2	1576.1	632.2	89.0
32.5°	3207.8	3216.7	3145.5	3058.7	2971.9	2922.9	2760.4	2384.2	1827.6	810.3	102.4
35°	3626.4	3615.2	3497.2	3401.5	3337.0	3283.5	3145.5	2718.1	2112.6	1017.3	120.2
37.5°	4027.1	3998.1	3802.2	3666.4	3637.5	3601.9	3463.8	3052.0	2395.3	1246.6	142.5
40°	4314.2	4269.7	4067.1	3880.1	3837.8	3817.8	3710.9	3354.8	2693.6	1502.6	171.4
42.5°	4438.9	4387.7	4247.4	4096.1	4002.6	3955.8	3862.3	3601.9	2991.9	1787.6	213.7
45°	4463.4	4423.3	4323.1	4287.5	4160.6	4089.4	3962.5	3777.7	3270.2	2070.3	271.6
47.5°	4374.3	4356.5	4296.4	4372.1	4307.5	4209.6	4056.0	3909.1	3517.3	2413.1	351.7
50°	4156.2	4142.8	4171.8	4369.9	4414.4	4303.1	4158.4	4011.5	3731.0	2767.1	465.3
52.5°	3862.3	3860.1	3995.9	4312.0	4461.1	4392.1	4258.6	4113.9	3900.2	3109.9	625.5
55°	3541.8	3579.6	3817.8	4258.6	4487.9	4456.7	4356.5	4205.1	4051.5	3428.2	883.8
57.5°	3515.0	3499.5	3728.8	4236.3	4503.4	4521.3	4454.5	4300.9	4180.7	3688.7	1228.8
60°	3782.2	3746.6	3833.4	4283.1	4572.5	4603.6	4552.4	4374.3	4309.8	3893.5	1682.9
62.5°	4091.6	4058.2	4102.7	4463.4	4708.2	4752.8	4688.2	4450.0	4414.4	4036.0	2170.5
65°	4338.7	4312.0	4396.6	4732.7	4897.5	4935.3	4890.8	4590.3	4461.1	4151.7	2566.7
67.5°	4378.8	4345.4	4521.3	4913.0	5088.9	5115.6	5080.0	4726.1	4445.6	4160.6	2658.0
70°	4265.2	4236.3	4487.9	4970.9	5171.3	5193.5	5080.0	4661.5	4234.1	3933.6	2172.7
72.5°	3915.7	3938.0	4263.0	4830.7	5057.7	4955.3	4714.9	4336.5	3960.3	3334.7	1524.9
75°	3372.6	3397.1	3828.9	4445.6	4463.4	4338.7	4209.6	3989.2	3544.0	2197.2	1057.4
77.5°	2397.5	2310.7	2956.3	3670.9	3606.3	3686.5	3697.6	3319.1	2967.4	1144.2	707.9
80°	236.0	200.4	371.8	1053.0	2326.3	2600.1	2707.0	2557.8	2188.3	512.0	371.8
82.5°	51.2	51.2	55.7	60.1	93.5	140.2	643.3	1576.1	1413.6	260.5	120.2
85°	28.9	28.9	35.6	42.3	55.7	62.3	73.5	97.9	380.7	93.5	22.3
87.5°	22.3	24.5	28.9	35.6	46.7	51.2	62.3	77.9	95.7	86.8	6.7
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: NAV-SA2B-730-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	46.7	44.5	42.3	40.1	37.8	37.8	35.6	35.6	35.6	35.6	35.6
5°	44.5	42.3	40.1	35.6	33.4	31.2	28.9	28.9	28.9	28.9	28.9
7.5°	44.5	42.3	37.8	33.4	28.9	26.7	24.5	22.3	22.3	24.5	24.5
10°	44.5	40.1	33.4	28.9	24.5	22.3	20.0	17.8	17.8	17.8	17.8
12.5°	42.3	37.8	31.2	26.7	22.3	17.8	13.4	11.1	11.1	11.1	11.1
15°	40.1	35.6	28.9	22.3	15.6	11.1	8.9	6.7	6.7	6.7	6.7
17.5°	40.1	33.4	26.7	20.0	11.1	6.7	4.5	2.2	2.2	2.2	4.5
20°	40.1	33.4	24.5	15.6	6.7	4.5	4.5	2.2	0.0	2.2	2.2
22.5°	40.1	31.2	20.0	11.1	6.7	4.5	2.2	0.0	0.0	0.0	0.0
25°	42.3	31.2	17.8	8.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0
27.5°	42.3	28.9	15.6	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	44.5	28.9	13.4	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	44.5	26.7	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	44.5	24.5	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	44.5	22.3	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	46.7	20.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	49.0	17.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	51.2	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	57.9	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	66.8	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	80.1	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	104.6	13.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	151.4	13.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	253.8	13.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	445.2	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	752.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	981.7	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	745.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	356.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	158.1	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	69.0	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.7	4.5	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	4.5	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0
85°	6.7	4.5	4.5	4.5	2.2	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

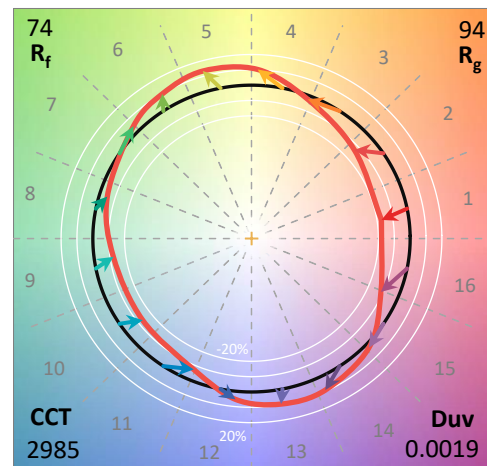
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

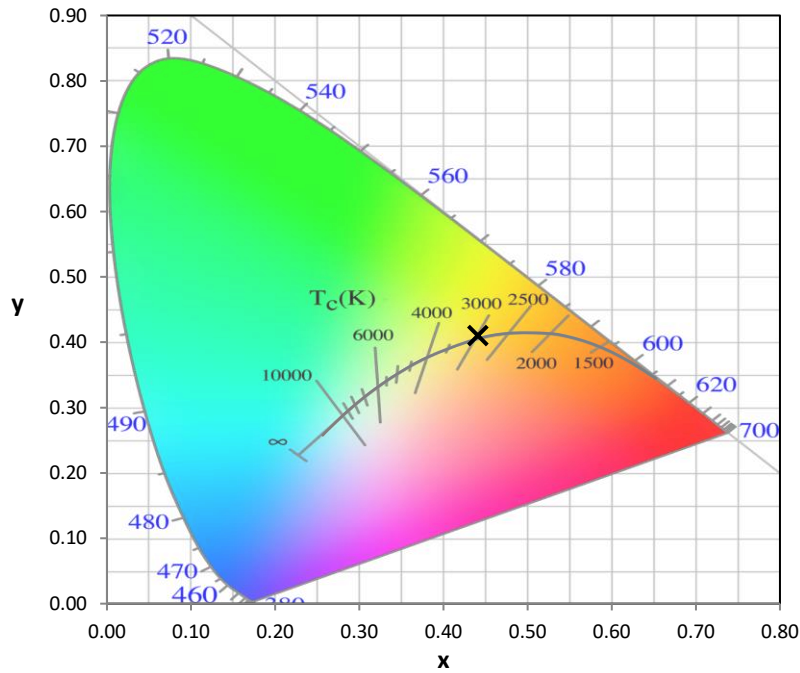
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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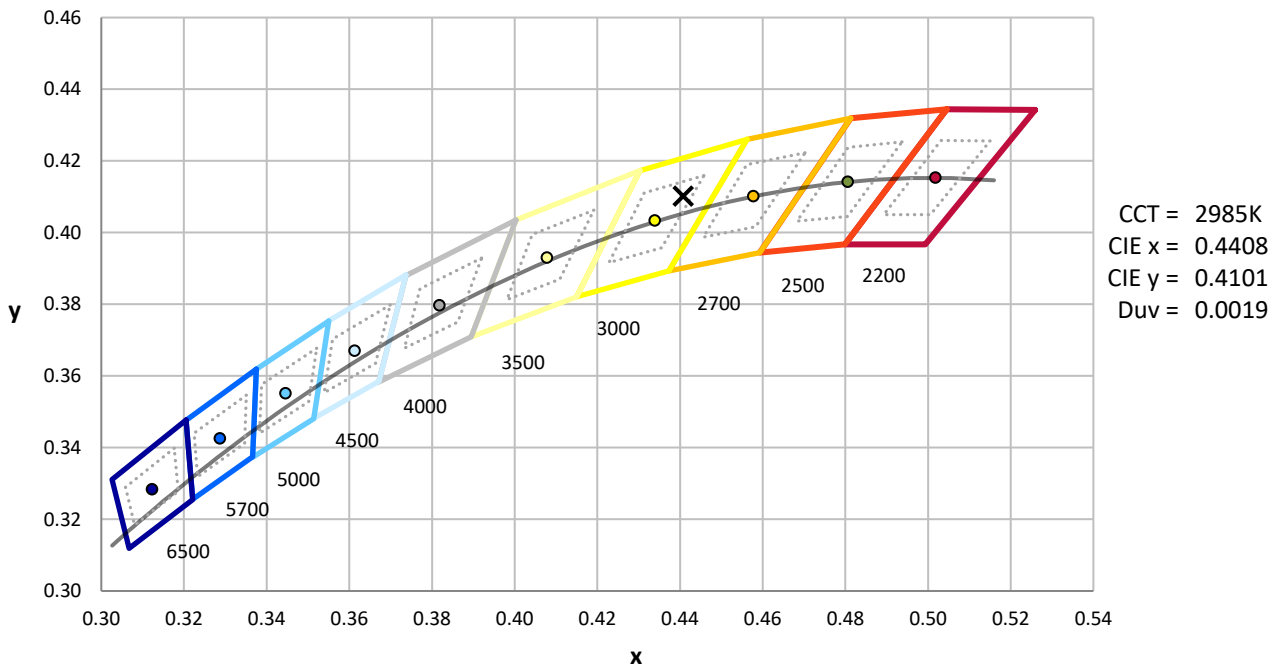
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



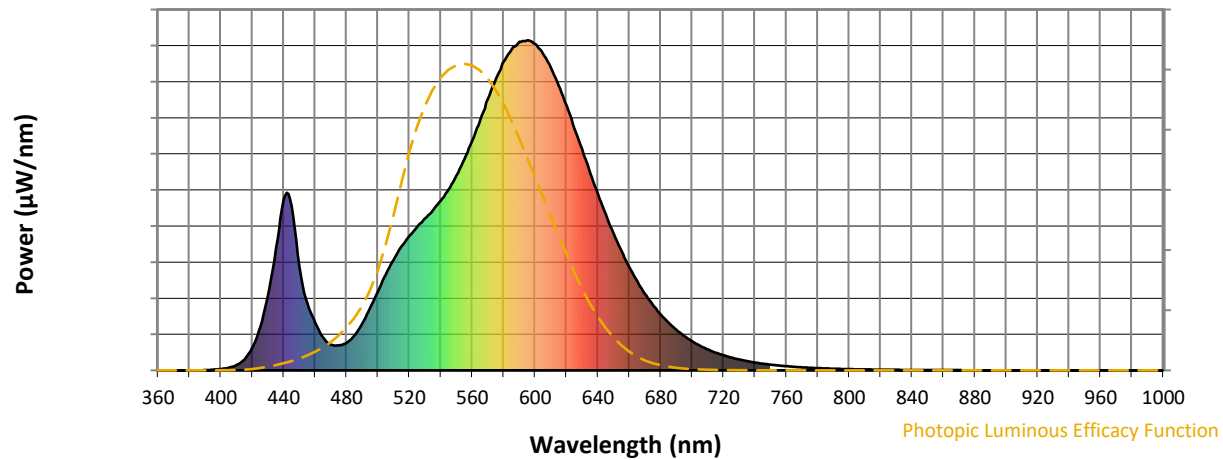
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

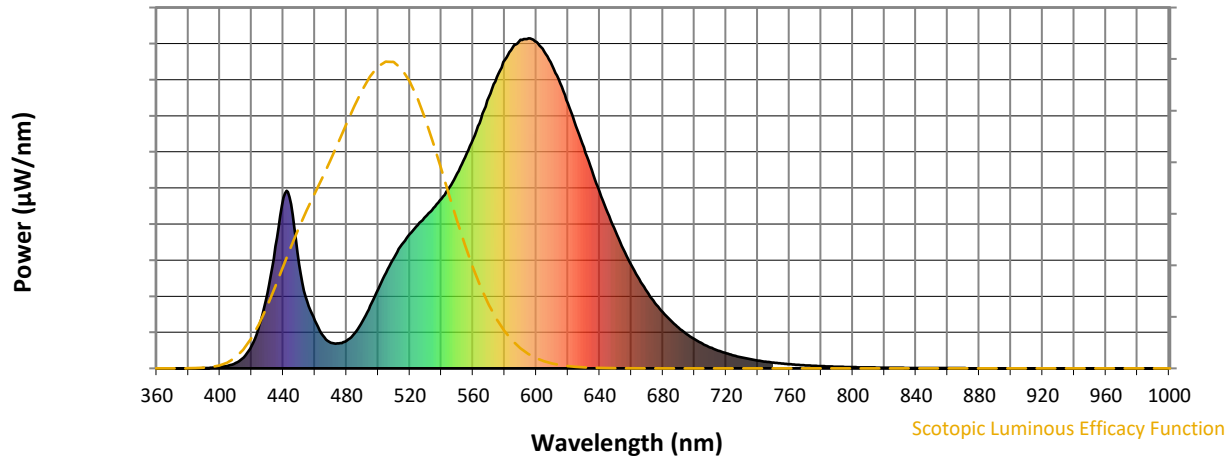


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



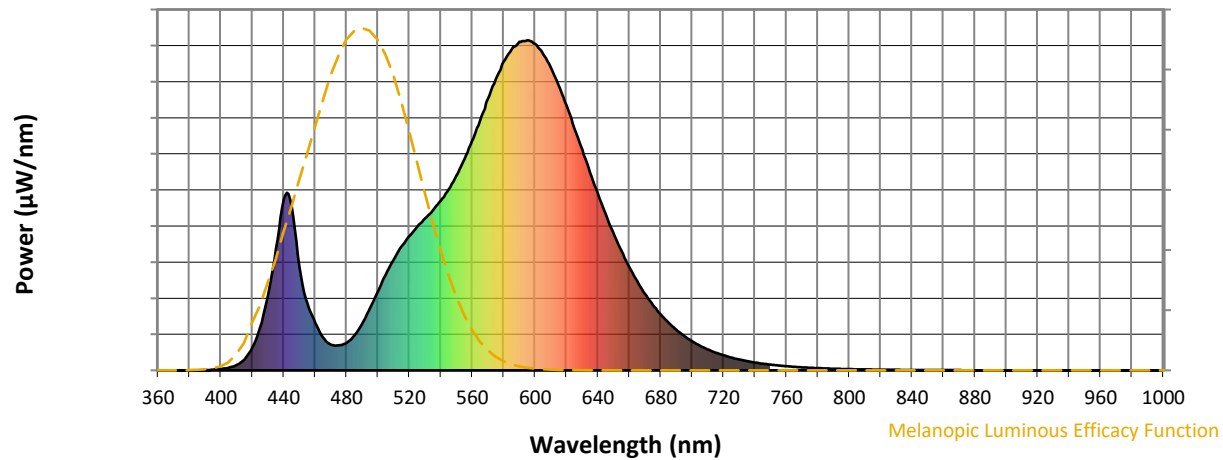
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

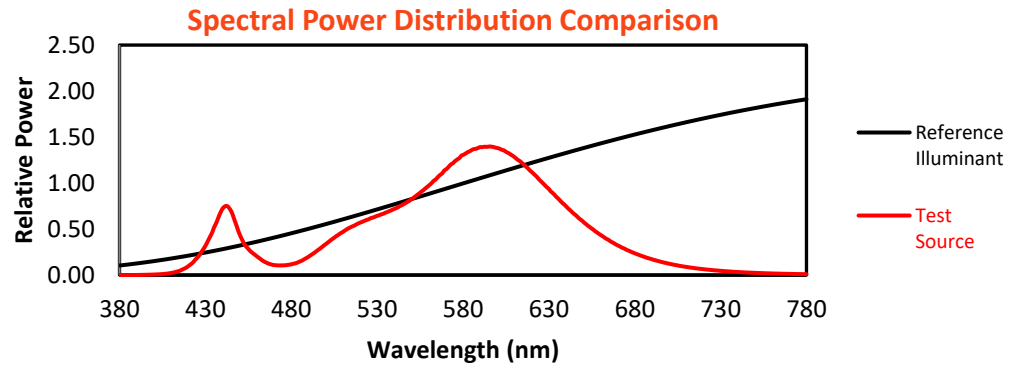
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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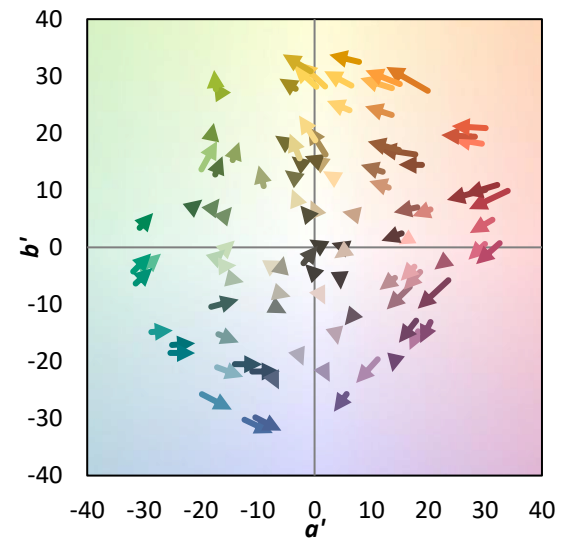
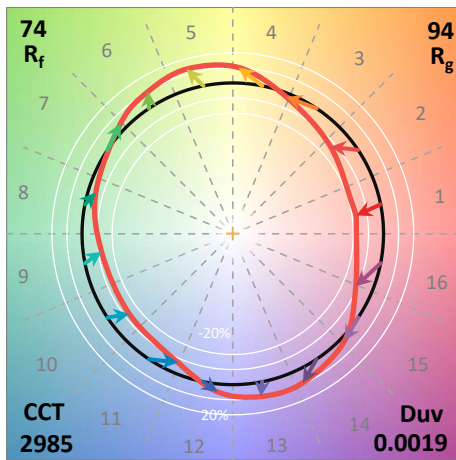
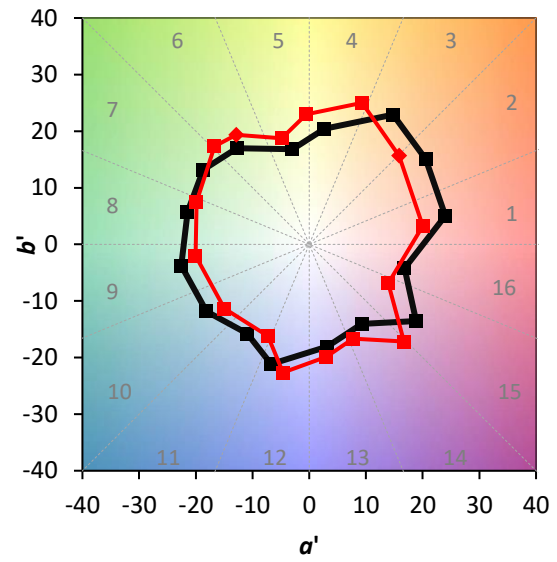
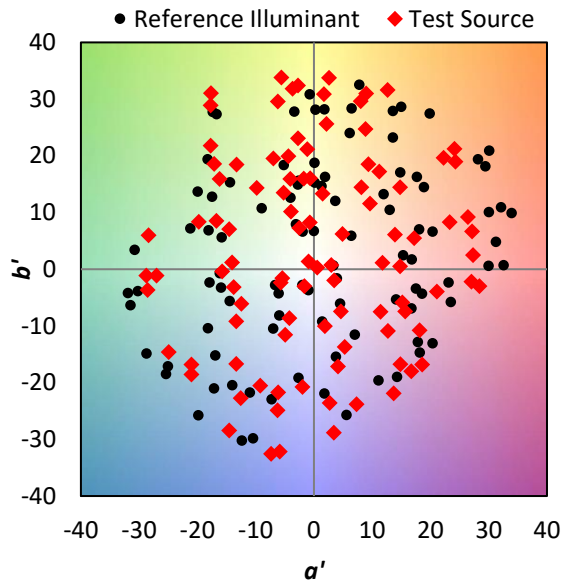
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

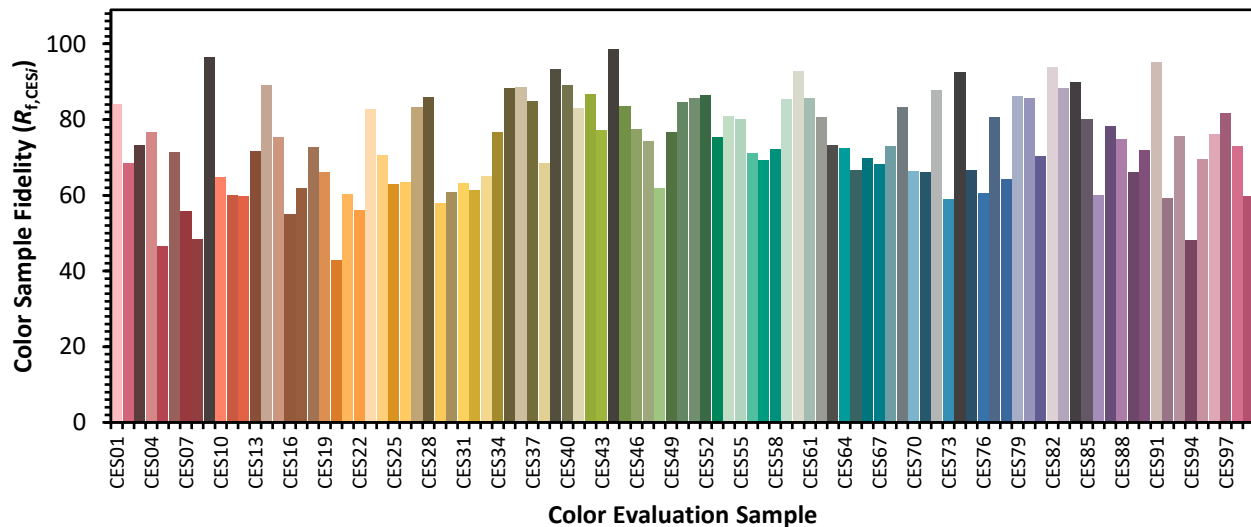


Color Vector Graphics

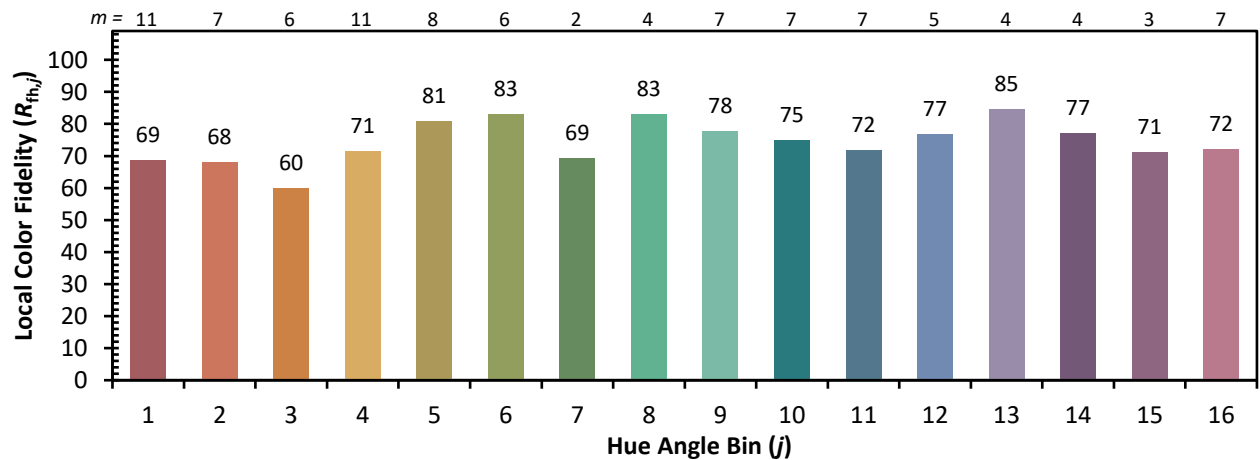
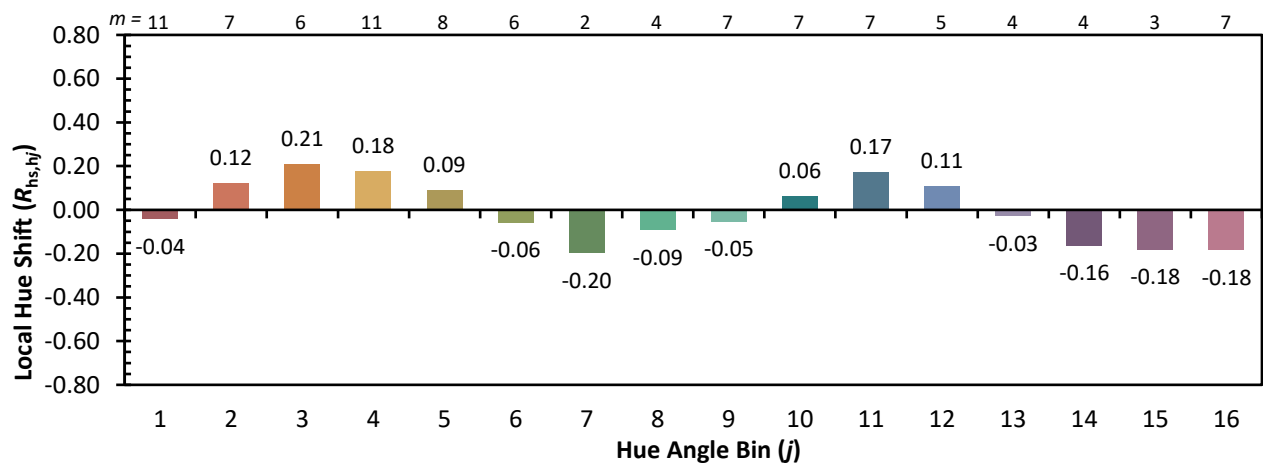
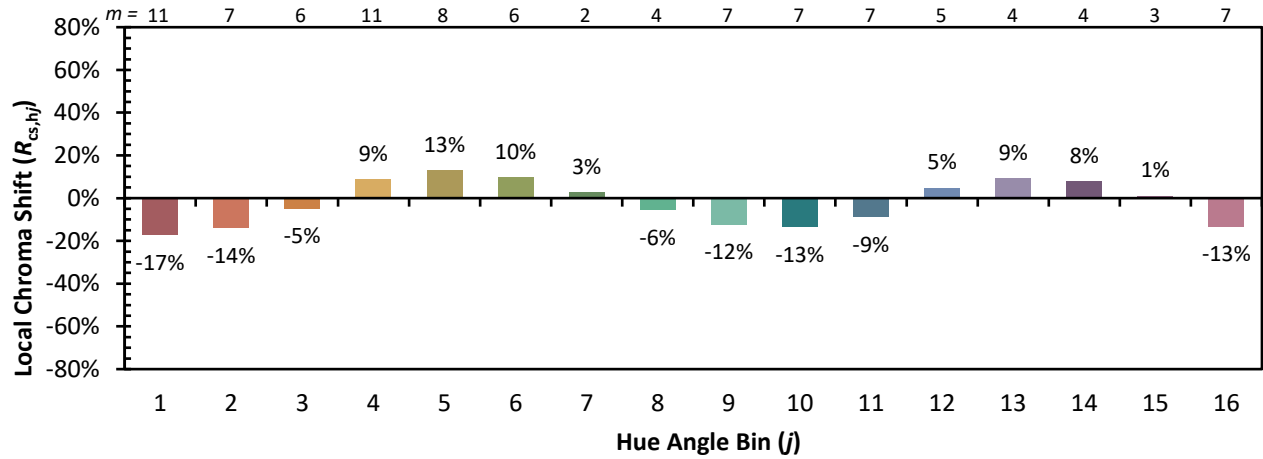


Individual Sample Fidelity Index ($R_{f,i}$)

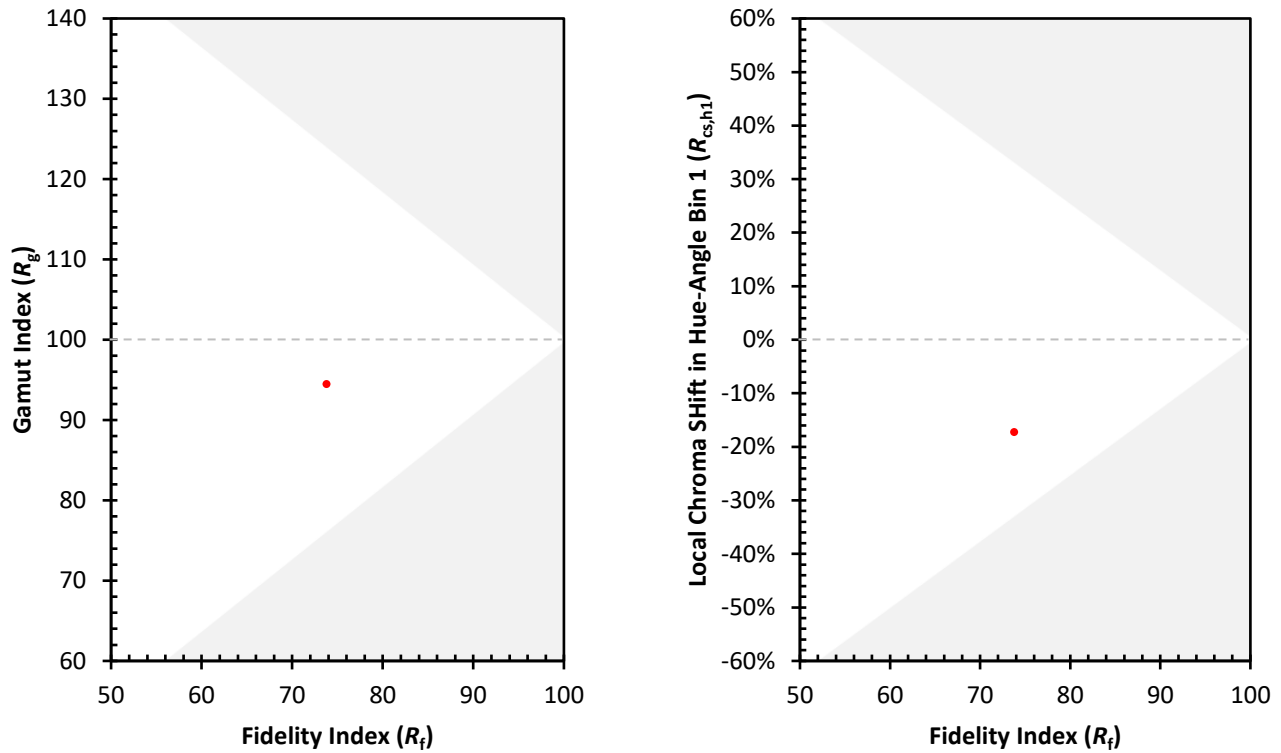
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)