

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: P1067042

Luminaire Tested: **NAV-SA4B-750-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067042
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-750-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 5000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18390 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

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

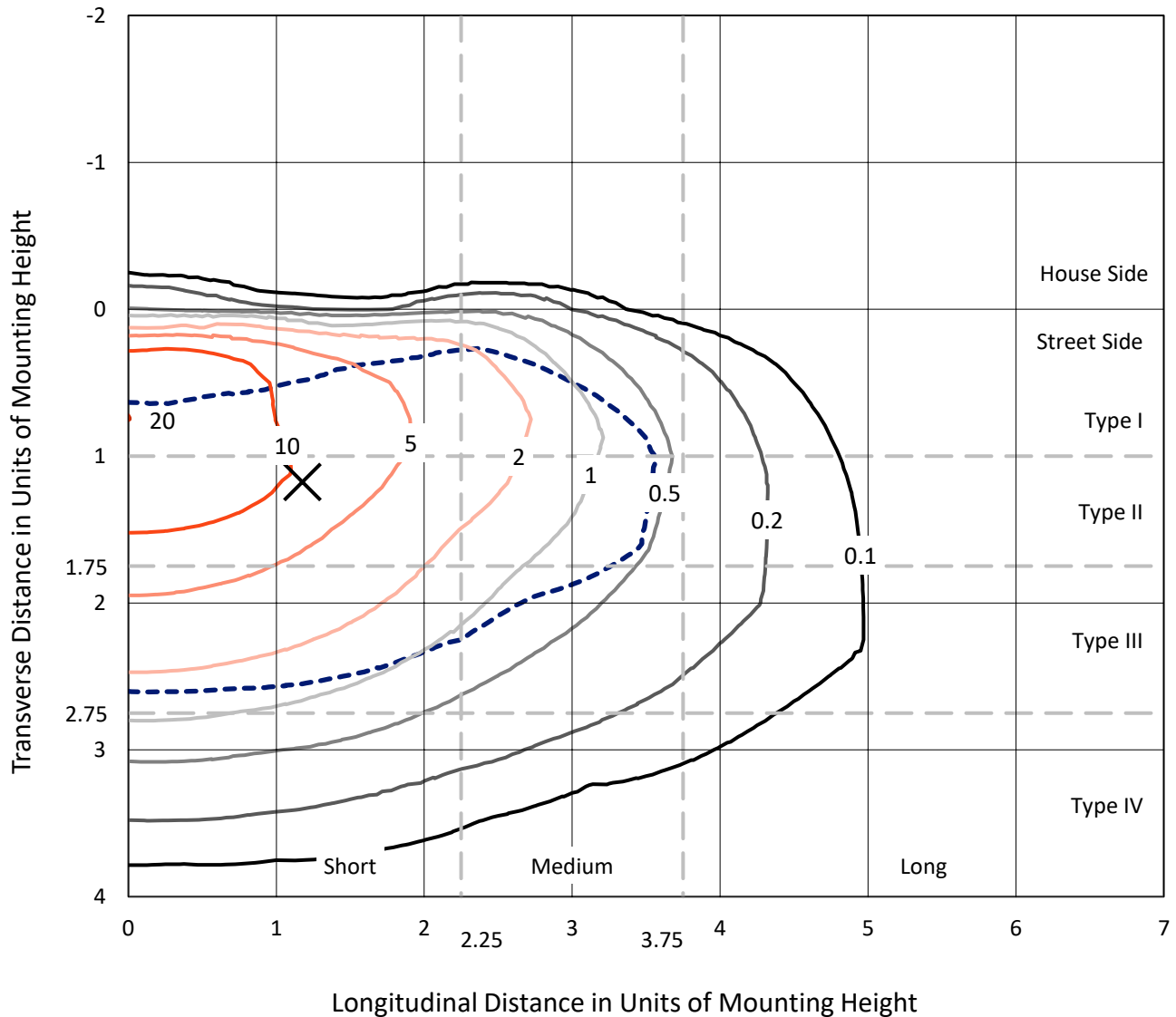


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

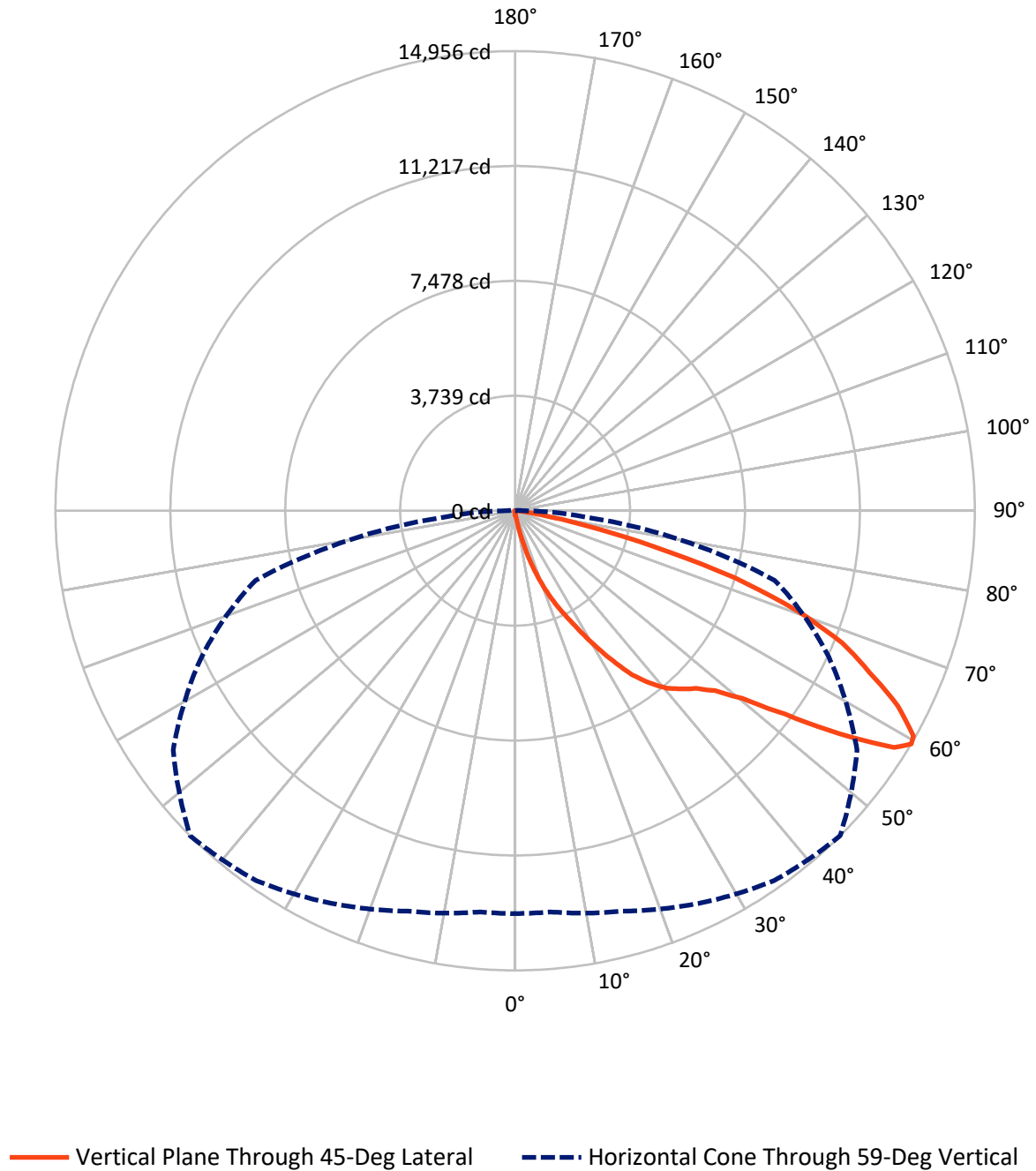


Based on 15 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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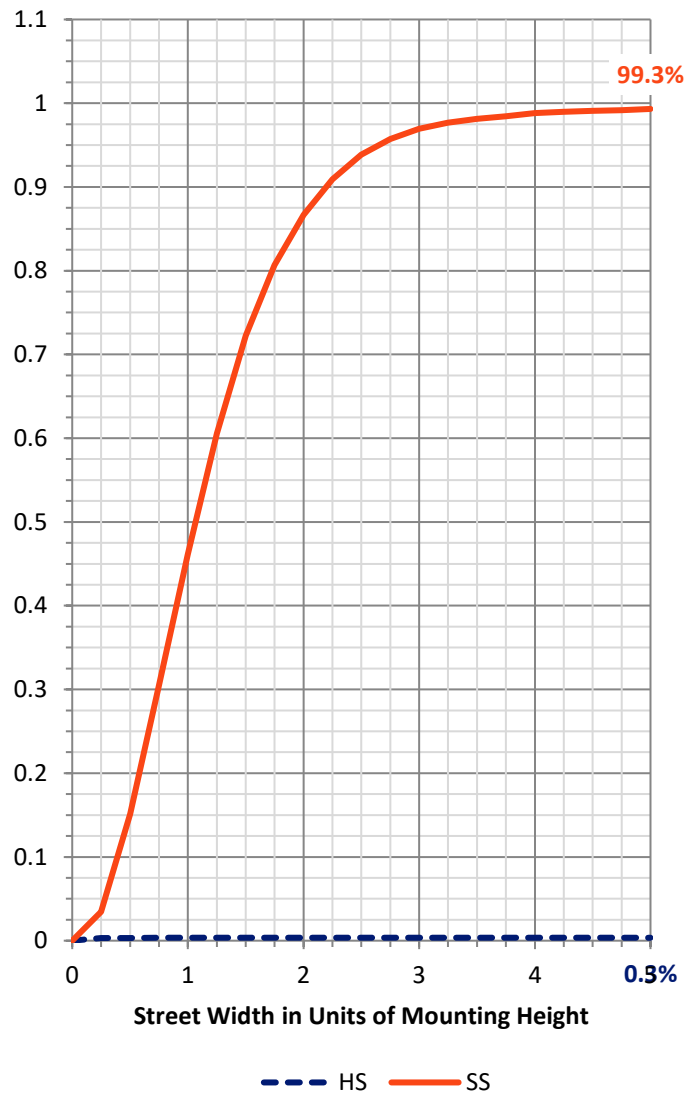
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.3	0.0	65.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	18324.7	0.0	18324.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	18390.0	0.0	18390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.1
10°-20°	203.3	1.1
20°-30°	730.4	4.0
30°-40°	1697.1	9.2
40°-50°	2892.7	15.7
50°-60°	4766.3	25.9
60°-70°	5510.9	30.0
70°-80°	2367.7	12.9
80°-90°	204.6	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°	18390.0	100.0
0°-180°	18390.0	100.0



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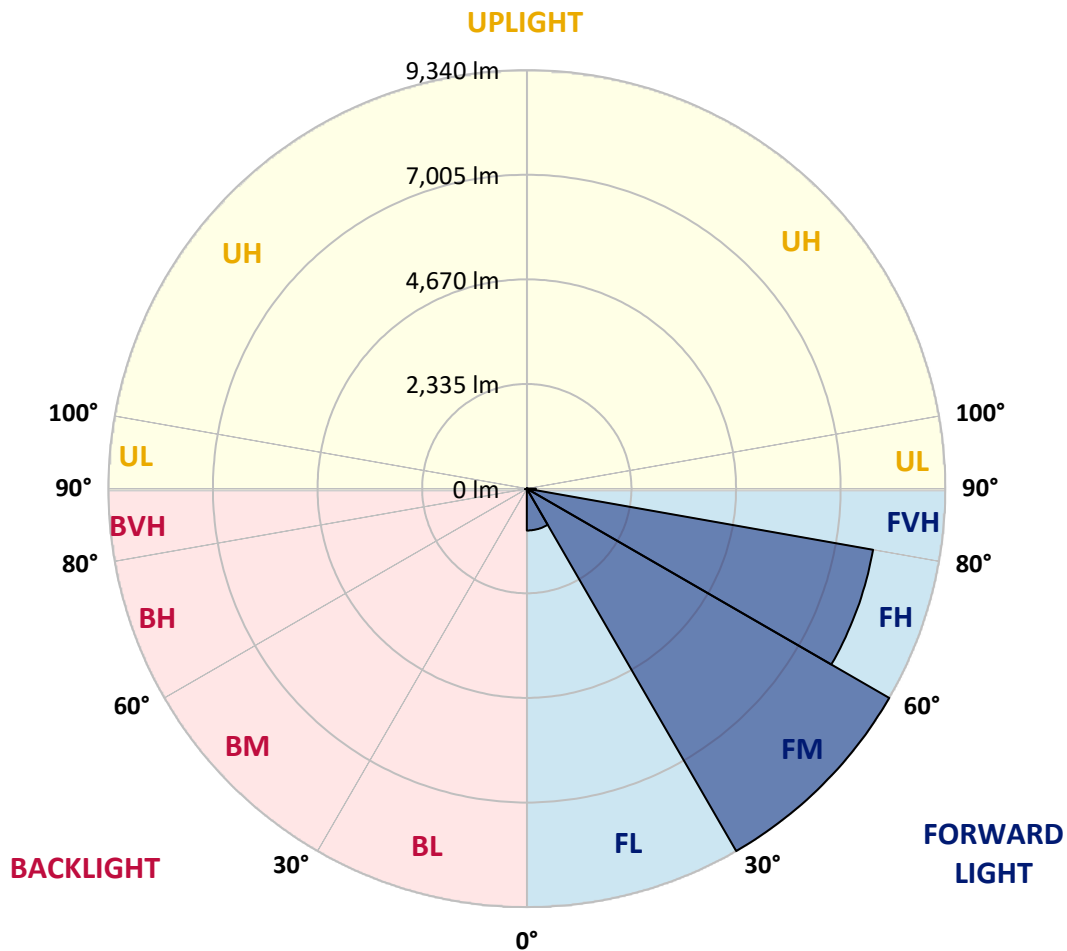
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.6	5.1			
FM	(30°-60°)	9340.3	50.8			
FH	(60°-80°)	7847.9	42.7			G4/12000
FVH	(80°-90°)	201.9	1.1			G2/225
BL	(0°-30°)	16.1	0.1	B0/110		
BM	(30°-60°)	15.8	0.1	B0/220		
BH	(60°-80°)	30.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2
2.5°	150.9	150.9	147.1	142.2	141.0	137.3	137.3	133.5	128.6	124.9	119.9
5°	218.9	217.6	207.7	195.4	179.3	169.4	169.4	155.8	143.4	132.3	122.4
7.5°	478.5	467.4	431.6	372.2	294.3	242.4	238.7	194.1	164.5	142.2	123.7
10°	1098.1	1059.7	1009.0	866.8	640.5	447.6	439.0	283.2	196.6	153.3	126.1
12.5°	1799.2	1830.1	1728.7	1504.9	1240.3	922.5	860.6	477.3	259.7	168.2	128.6
15°	2437.2	2429.8	2372.9	2189.9	1884.5	1461.6	1423.3	829.7	372.2	191.7	131.1
17.5°	2914.6	2905.9	2851.5	2734.0	2499.1	2076.2	2042.8	1323.1	583.7	225.1	133.5
20°	3417.8	3406.7	3330.0	3236.1	3030.8	2671.0	2631.4	1874.6	913.8	279.5	133.5
22.5°	4021.3	4000.2	3918.6	3759.1	3542.7	3229.9	3194.0	2438.5	1323.1	368.5	139.7
25°	4750.8	4715.0	4602.4	4459.0	4198.1	3782.6	3744.3	3066.6	1816.5	503.3	145.9
27.5°	5583.0	5589.2	5437.1	5194.8	4844.8	4420.7	4349.0	3629.3	2327.2	696.2	153.3
30°	6571.0	6509.2	6295.3	6013.4	5673.3	5132.9	5063.7	4189.4	2901.0	980.6	165.7
32.5°	7496.0	7429.2	7141.1	6786.2	6421.4	5851.4	5794.5	4818.8	3422.8	1316.9	188.0
35°	8289.8	8242.9	7839.7	7406.9	7083.0	6573.5	6556.2	5521.2	4036.1	1679.2	212.7
37.5°	8988.5	8903.2	8385.1	7936.2	7607.3	7151.0	7113.9	6164.2	4627.2	2099.7	249.8
40°	9584.5	9537.5	8905.6	8315.8	8048.7	7640.7	7593.7	6728.1	5238.0	2588.1	295.5
42.5°	10222.6	10160.7	9547.4	8885.9	8393.7	7957.2	7926.3	7193.0	5782.1	3124.8	363.5
45°	10943.5	10828.5	10290.6	9697.0	8948.9	8284.9	8250.3	7607.3	6339.8	3701.0	446.4
47.5°	11713.9	11613.7	11178.4	10761.7	9901.1	8825.3	8751.1	7959.7	6893.8	4366.3	551.5
50°	12497.8	12500.3	12173.9	11973.5	11064.7	9703.2	9598.1	8477.8	7476.2	5078.5	707.3
52.5°	13410.4	13433.9	13429.0	13280.6	12575.7	11138.9	10997.9	9264.2	8152.6	5909.5	922.5
55°	13792.5	13834.5	14107.8	14436.7	14245.1	12959.1	12808.2	10620.7	9049.1	6835.7	1241.5
57.5°	13479.7	13526.6	13903.8	14480.0	14920.2	14553.0	14535.7	12386.5	10230.0	7958.4	1763.3
59°	13107.5	13101.3	13488.3	14099.2	14692.7	14931.4	14956.1	13581.0	11258.8	8746.1	2213.4
60°	12860.1	12865.1	13122.3	13749.2	14379.9	14794.1	14890.6	14284.6	11859.8	9312.5	2599.2
62.5°	11905.5	11962.4	12166.4	12748.9	13347.3	13809.8	13974.3	14911.6	13579.8	10650.4	3940.9
65°	10868.1	10871.8	11162.4	11660.7	12234.4	12559.7	12663.5	13935.9	14728.6	12013.1	5700.5
67.5°	9016.9	9092.4	9422.5	10230.0	10988.0	11399.8	11478.9	12130.6	14252.5	12900.9	6582.2
70°	6310.1	6409.0	6880.2	7927.5	9056.5	9732.9	9728.0	10084.1	12543.6	12505.2	5580.6
72.5°	3150.7	3321.4	3705.9	4827.5	6195.1	7257.3	7481.1	8111.8	10076.7	10387.0	4163.5
75°	1392.4	1402.2	1621.1	2186.2	3079.0	4428.1	4628.4	6438.7	7730.9	7219.0	3007.3
77.5°	809.9	817.4	856.9	981.8	1247.7	2170.1	2395.2	4222.8	5463.1	4195.6	1961.2
80°	294.3	301.7	300.5	372.2	546.6	854.5	952.1	2046.5	3644.1	2209.7	1027.6
82.5°	180.5	180.5	174.4	175.6	199.1	327.7	358.6	871.8	1774.5	1088.2	294.3
85°	89.0	94.0	100.2	112.5	133.5	162.0	171.9	249.8	597.3	263.4	70.5
87.5°	53.2	54.4	59.4	71.7	89.0	116.2	123.7	169.4	213.9	176.8	17.3
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-SA4B-750-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2
2.5°	117.5	116.2	110.1	105.1	100.2	95.2	91.5	87.8	87.8	89.0	87.8
5°	117.5	112.5	102.6	94.0	86.6	80.4	74.2	69.2	68.0	68.0	69.2
7.5°	116.2	110.1	96.5	85.3	75.4	66.8	60.6	54.4	53.2	54.4	53.2
10°	115.0	107.6	91.5	77.9	64.3	55.6	47.0	40.8	40.8	40.8	42.0
12.5°	115.0	103.9	86.6	70.5	55.6	45.8	37.1	30.9	29.7	29.7	29.7
15°	113.8	101.4	81.6	61.8	47.0	34.6	27.2	21.0	21.0	21.0	21.0
17.5°	111.3	97.7	75.4	54.4	37.1	26.0	18.5	12.4	12.4	14.8	14.8
20°	108.8	94.0	68.0	44.5	30.9	19.8	12.4	7.4	7.4	11.1	12.4
22.5°	110.1	94.0	63.1	39.6	24.7	14.8	9.9	6.2	4.9	8.7	11.1
25°	111.3	91.5	56.9	34.6	18.5	11.1	7.4	2.5	1.2	2.5	3.7
27.5°	111.3	89.0	49.5	27.2	13.6	8.7	3.7	0.0	0.0	0.0	0.0
30°	110.1	85.3	43.3	22.3	9.9	4.9	1.2	0.0	0.0	0.0	0.0
32.5°	108.8	81.6	39.6	17.3	8.7	2.5	0.0	0.0	0.0	0.0	0.0
35°	110.1	76.7	34.6	13.6	4.9	0.0	0.0	0.0	0.0	0.0	2.5
37.5°	113.8	71.7	29.7	11.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	118.7	68.0	24.7	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	128.6	68.0	22.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	141.0	68.0	18.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	157.0	69.2	16.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	176.8	71.7	14.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	191.7	69.2	13.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	217.6	66.8	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	252.3	63.1	12.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	286.9	58.1	12.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	326.4	55.6	11.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	539.1	49.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1041.2	47.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1682.9	47.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1769.5	47.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1177.2	38.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	630.6	34.6	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	340.1	32.2	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	149.6	23.5	6.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.4	16.1	7.4	6.2	4.9	2.5	0.0	0.0	0.0	0.0	0.0
85°	28.4	12.4	9.9	8.7	6.2	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	12.4	11.1	9.9	8.7	6.2	1.2	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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

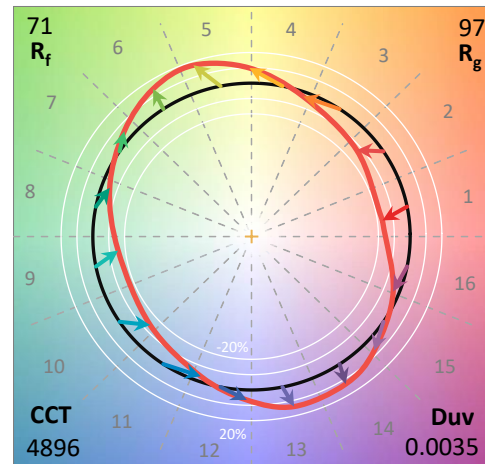
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

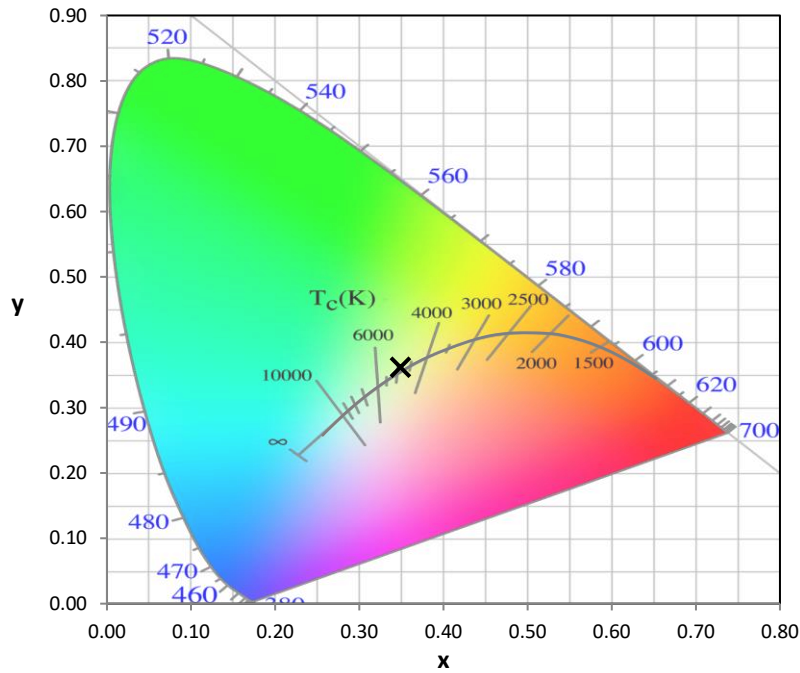
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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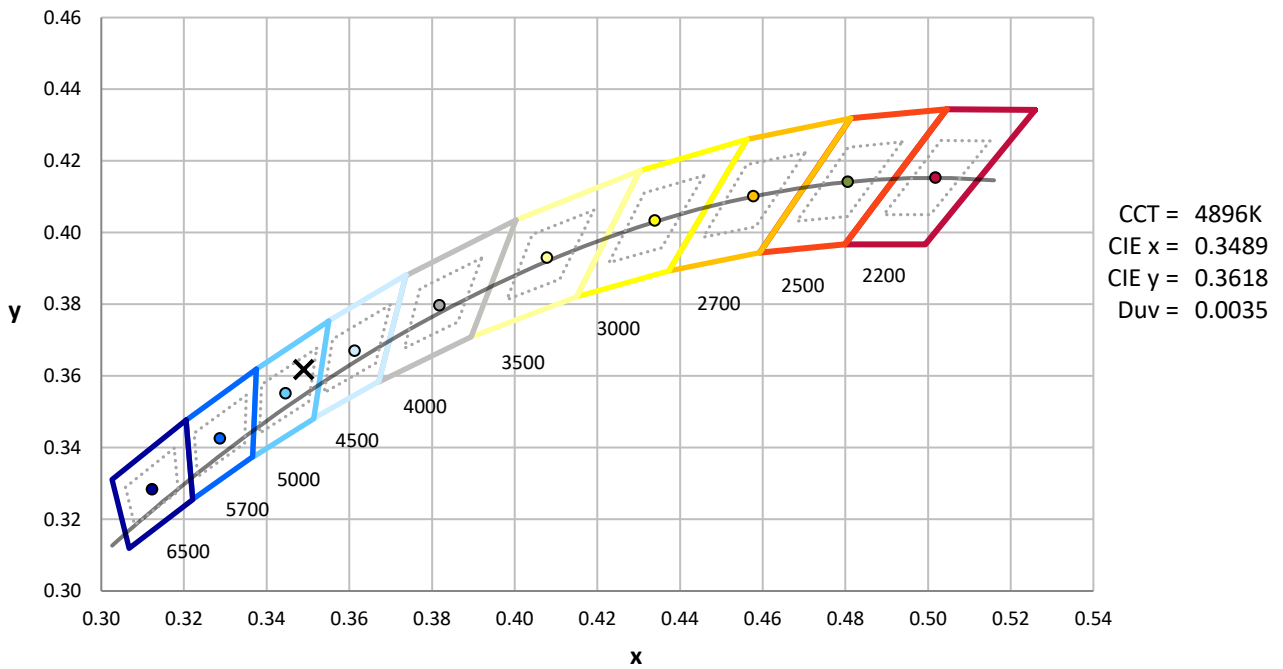
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



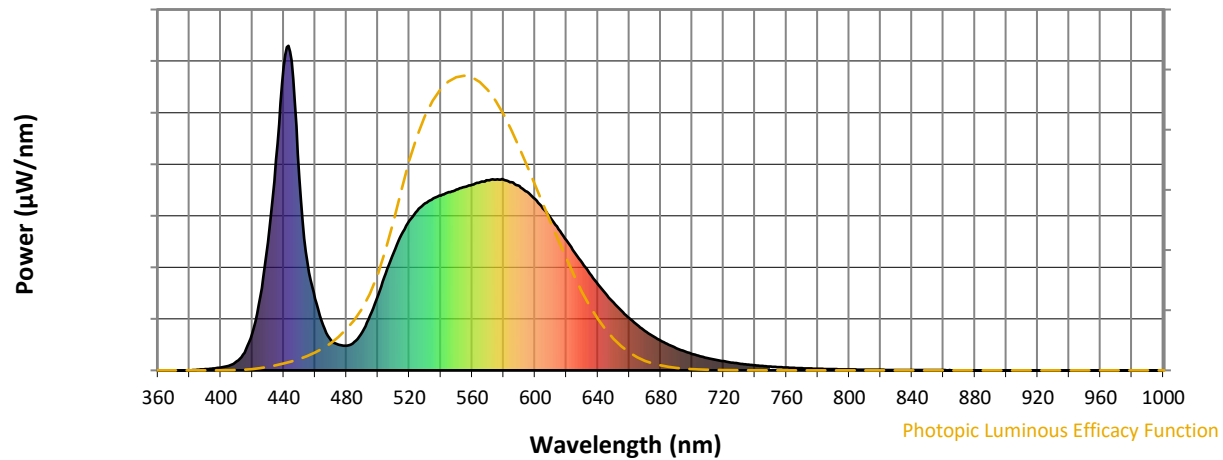
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

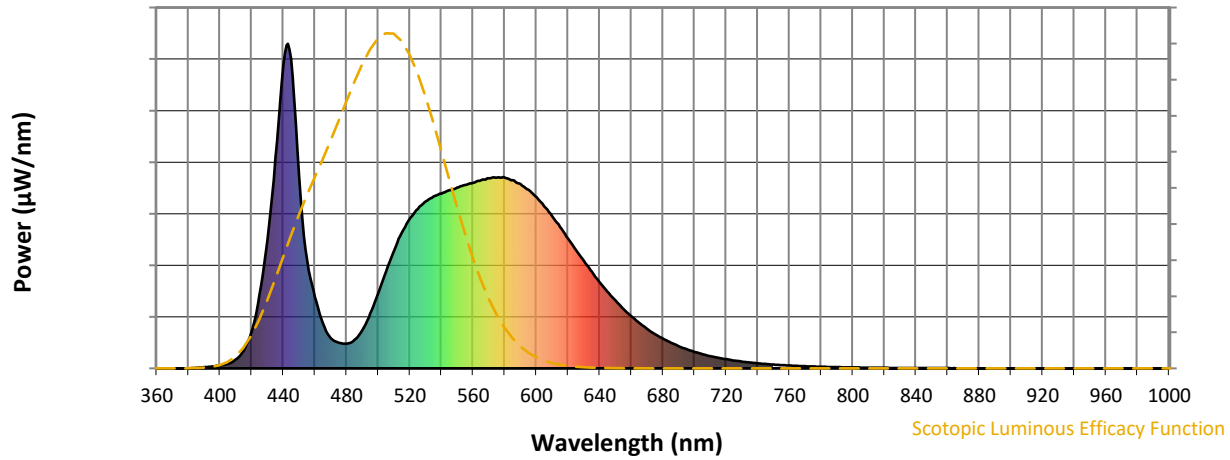


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



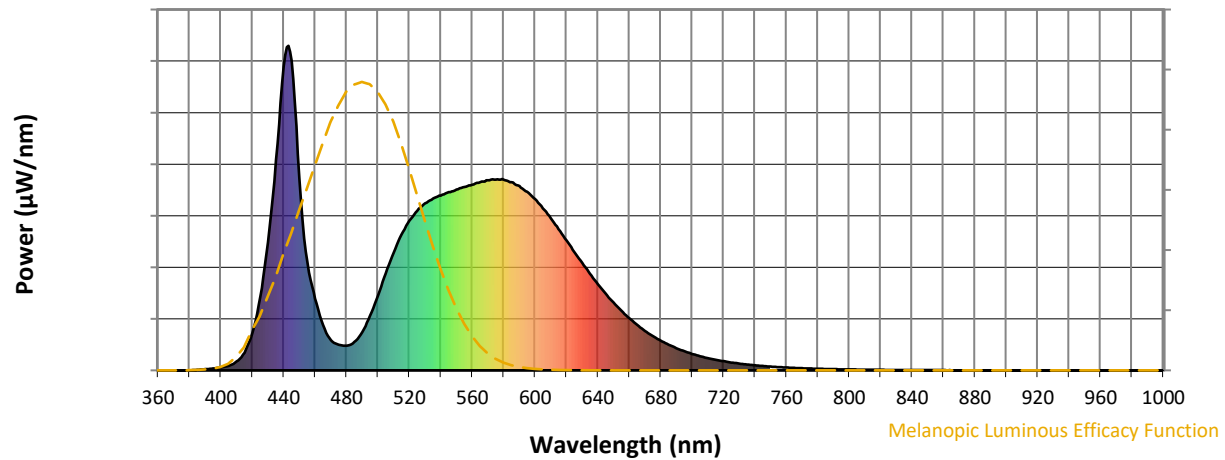
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.37

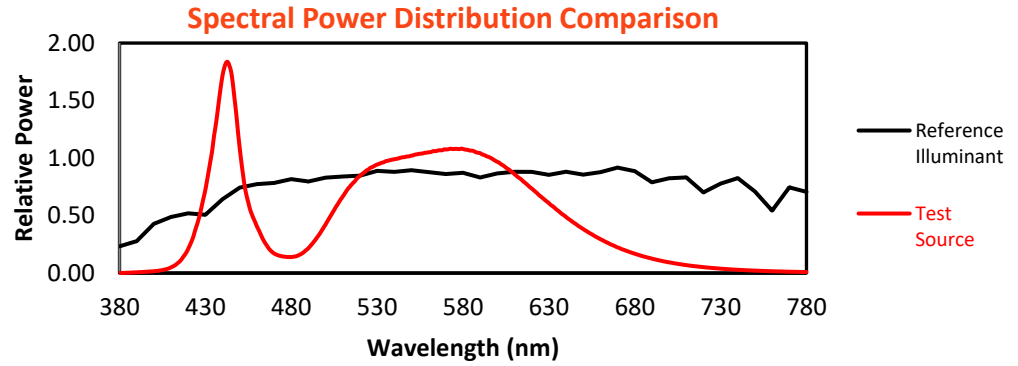
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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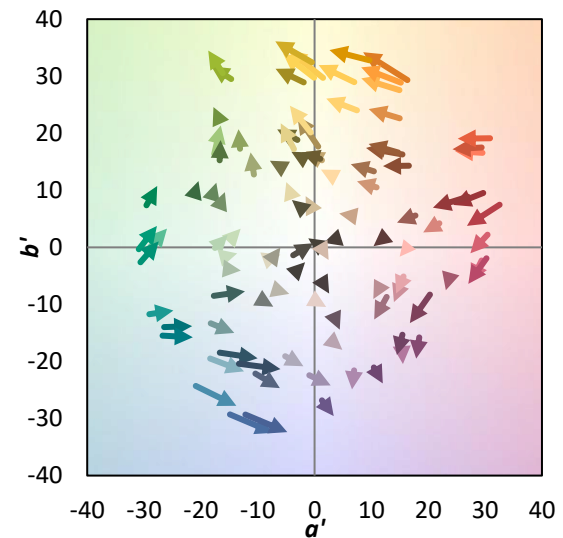
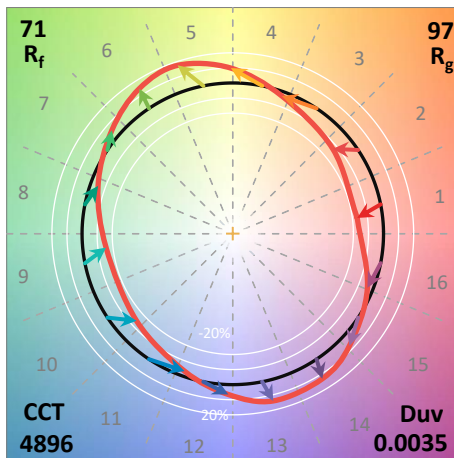
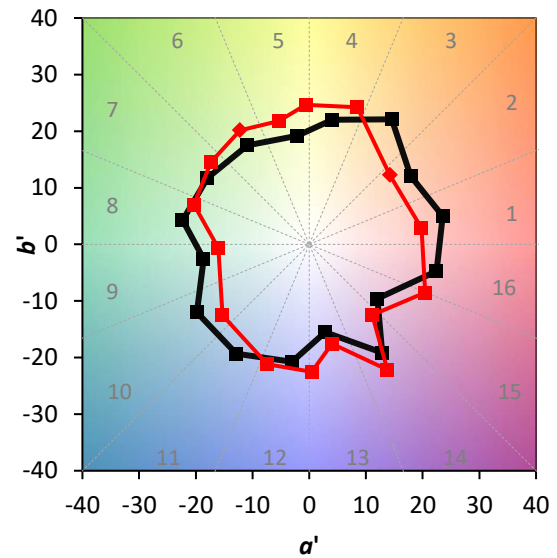
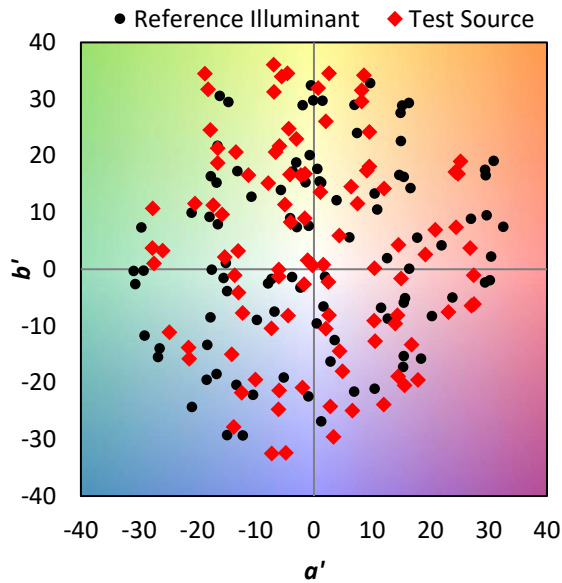
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

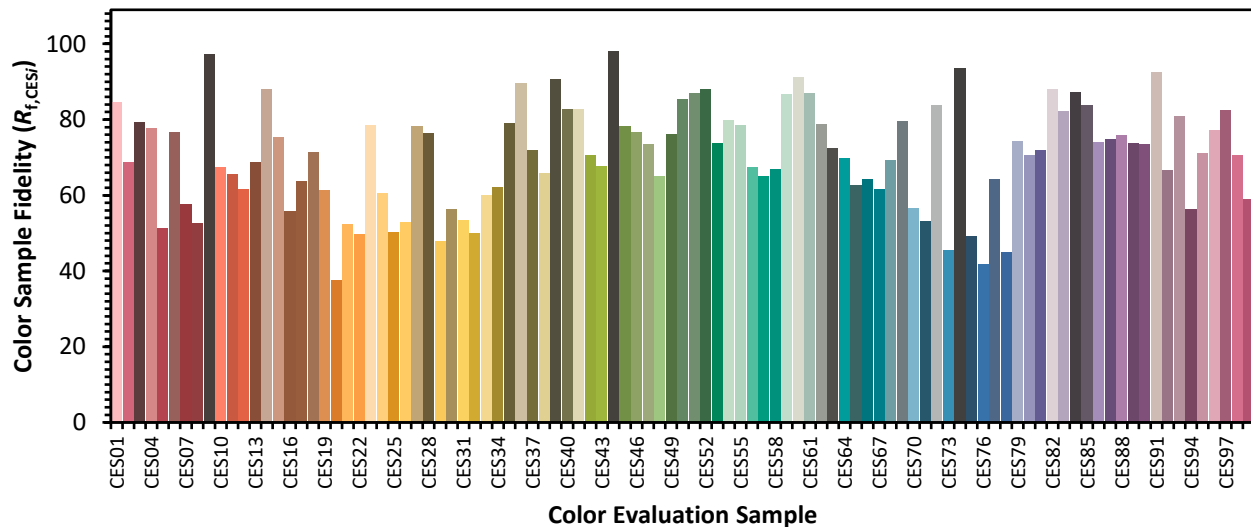


Color Vector Graphics

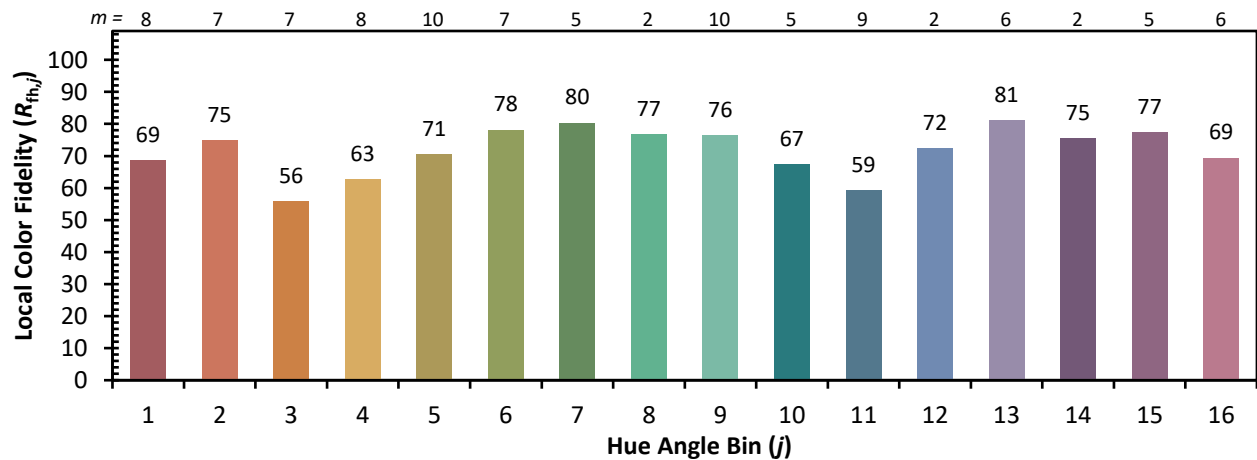
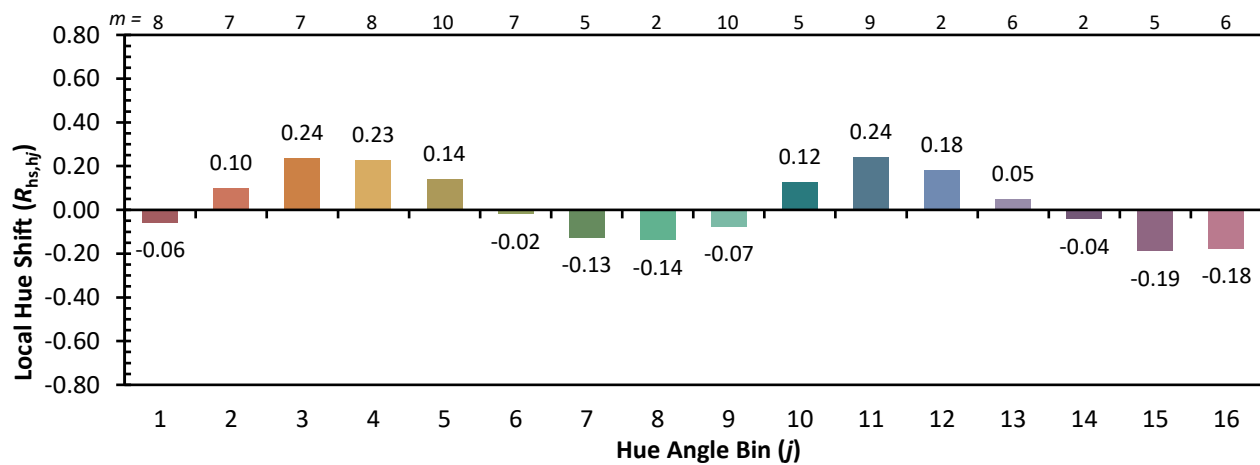
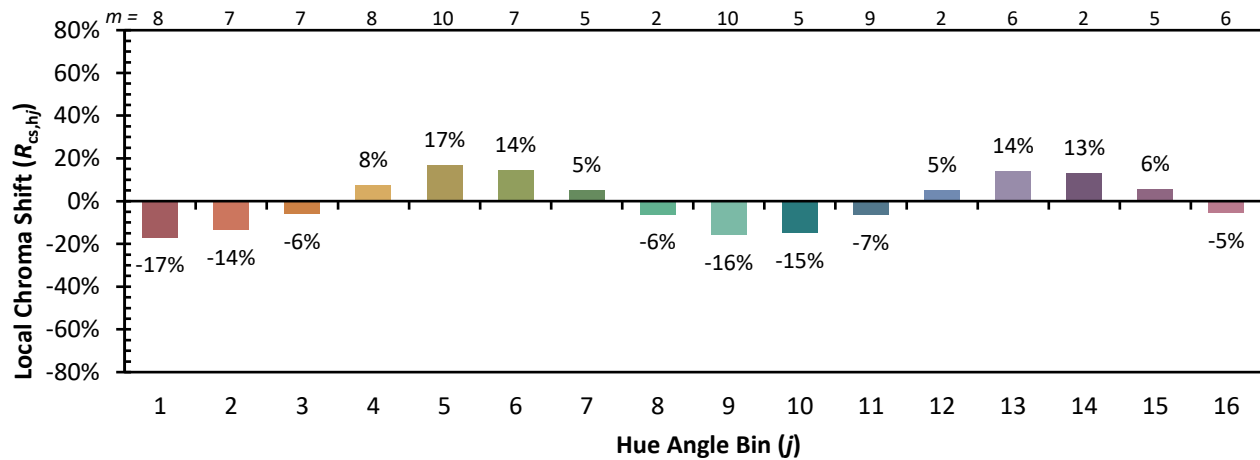


Individual Sample Fidelity Index ($R_{f,i}$)

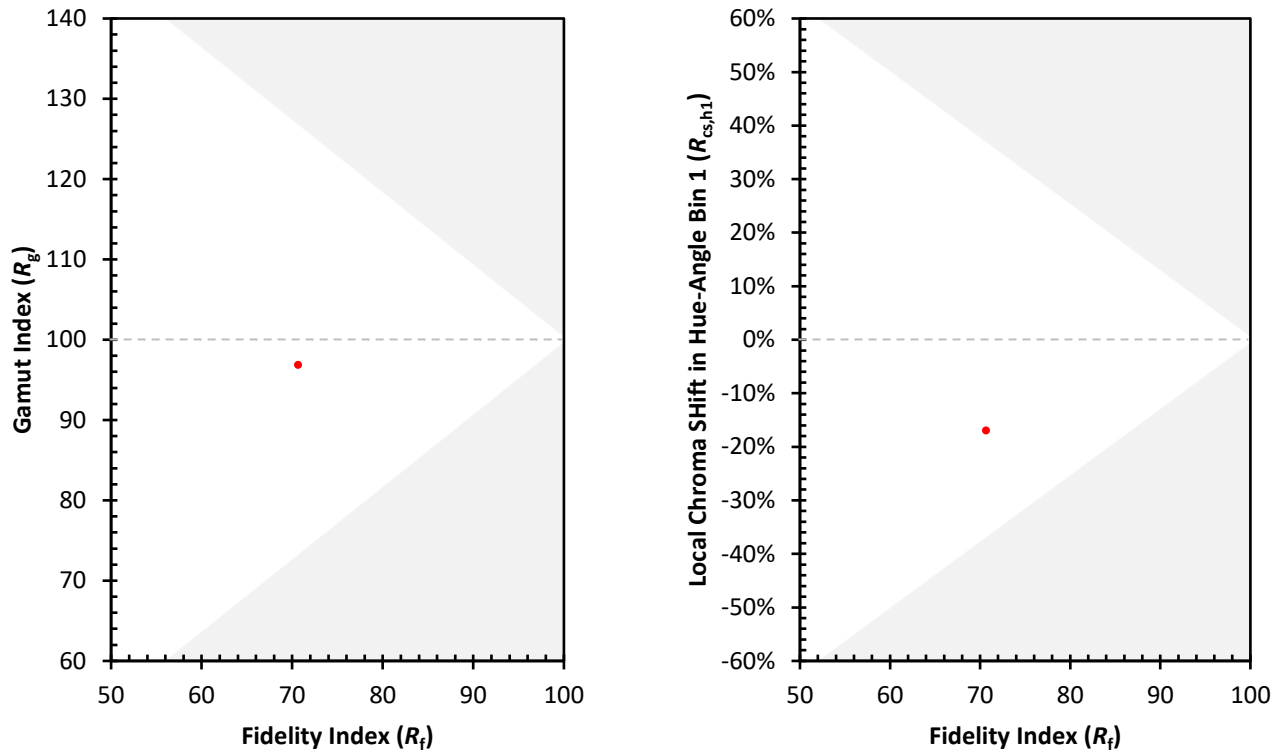
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)