

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: P1067019

Luminaire Tested: **NAV-SA4C-735-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067019
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4C-735-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21338.9 lumens
Efficiency: N/A
Efficacy: 112.1 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): 190.4
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



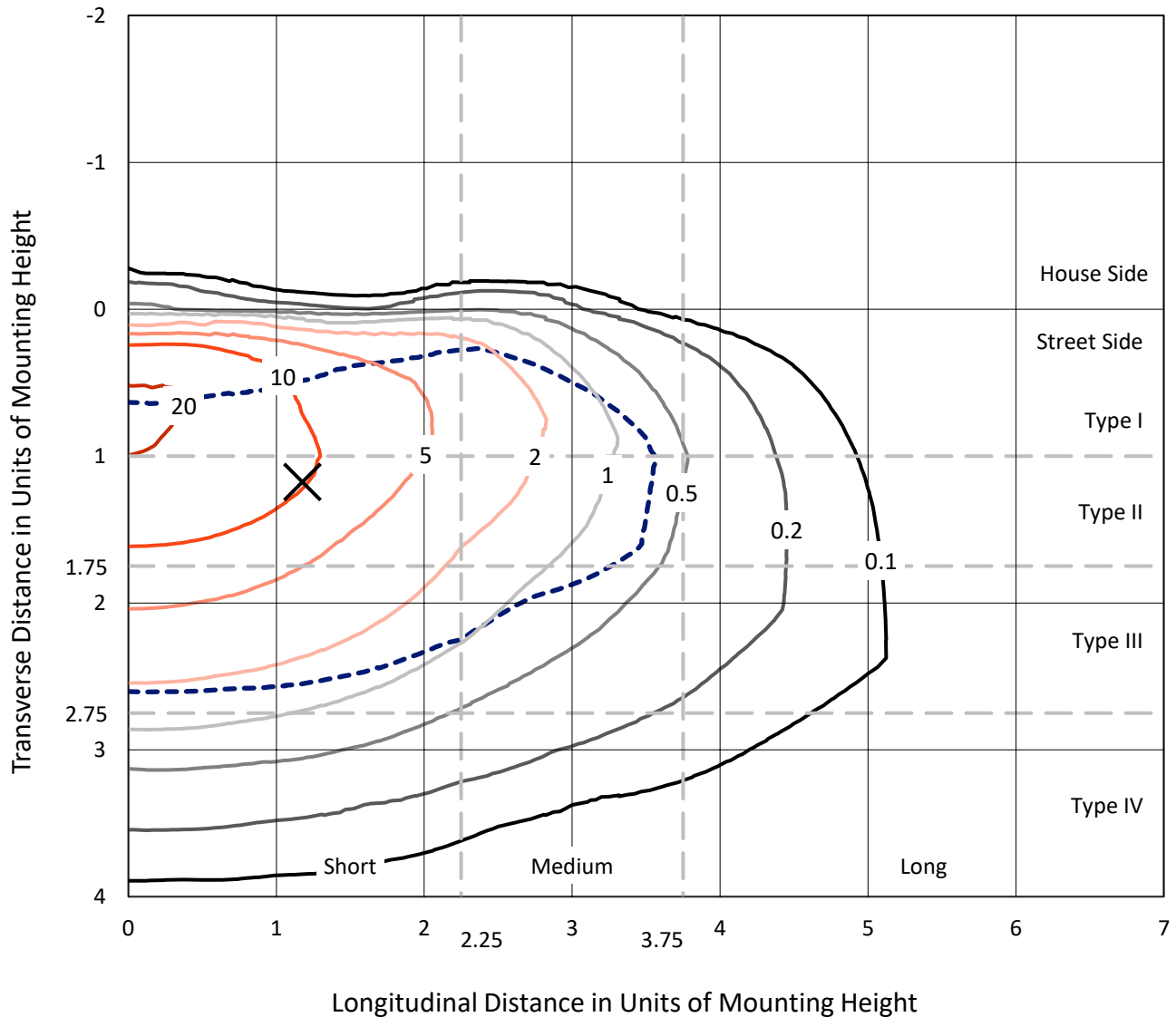
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

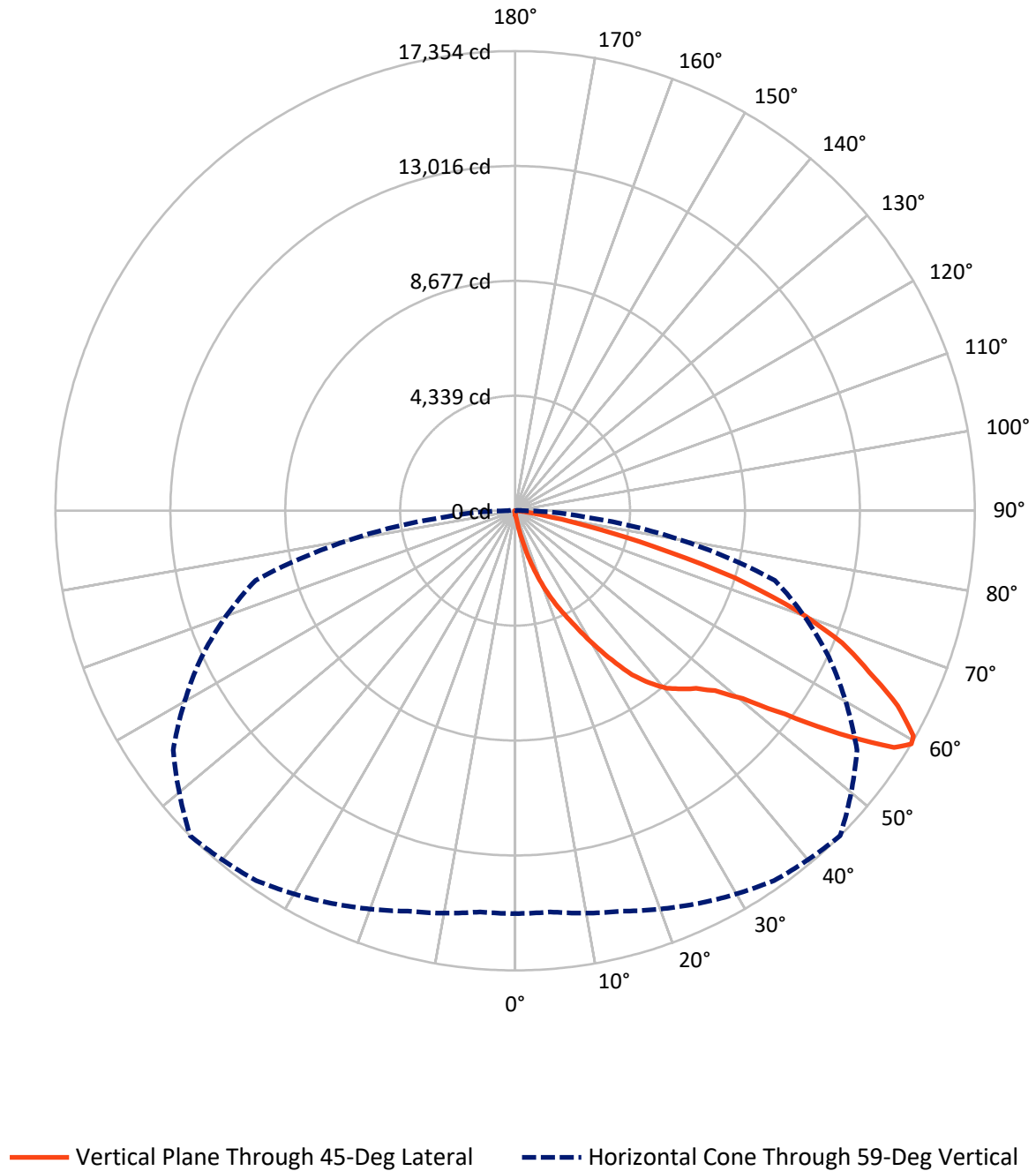


Based on 15 foot mounting height. Maximum calculated value = 23.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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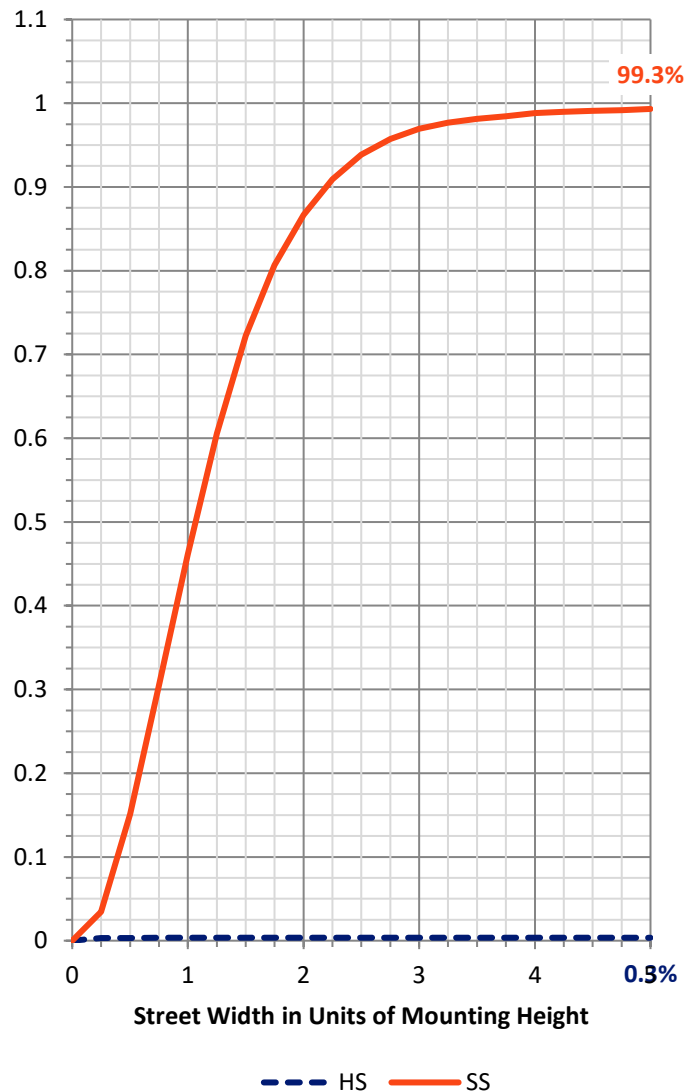
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	75.8	0.0	75.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	21263.1	0.0	21263.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	21338.9	0.0	21338.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.1
10°-20°	235.8	1.1
20°-30°	847.5	4.0
30°-40°	1969.3	9.2
40°-50°	3356.5	15.7
50°-60°	5530.6	25.9
60°-70°	6394.6	30.0
70°-80°	2747.3	12.9
80°-90°	237.4	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°	21338.9	100.0
0°-180°	21338.9	100.0



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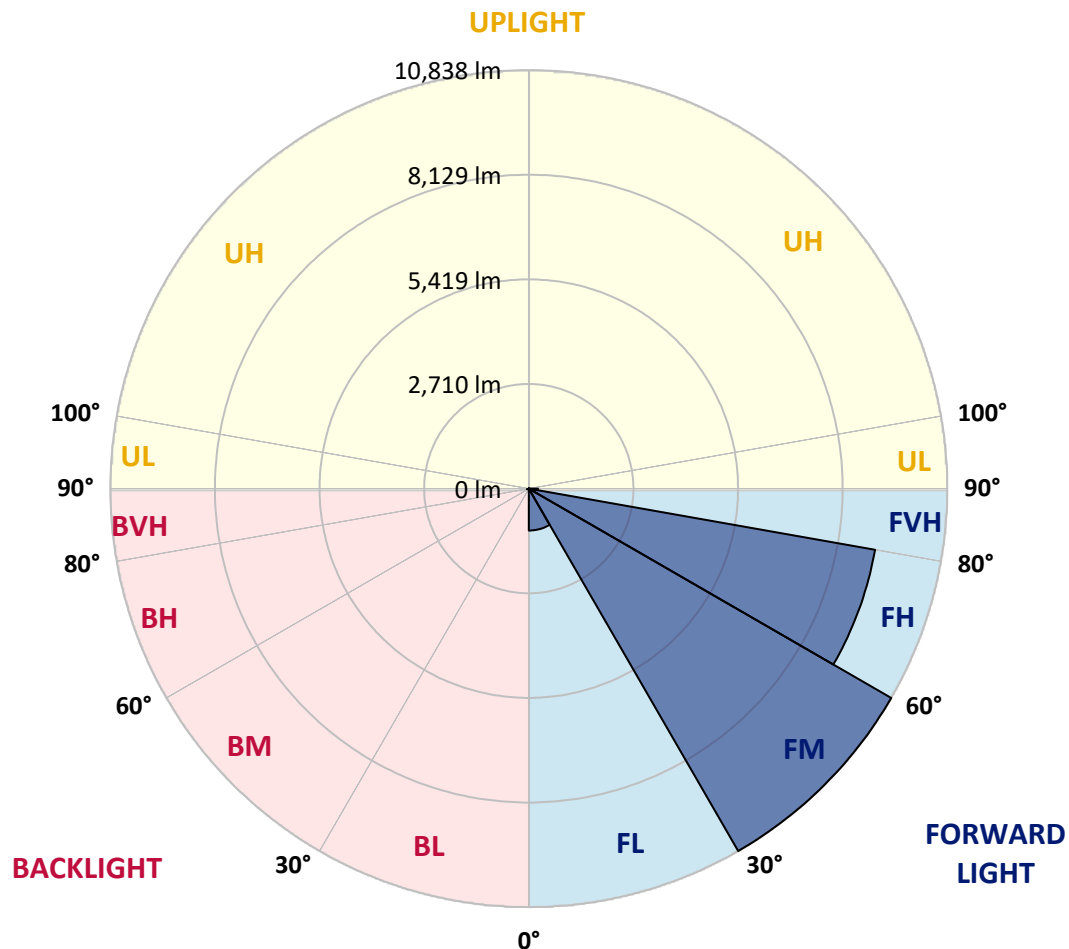
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.5	5.1			
FM	(30°-60°)	10838.1	50.8			
FH	(60°-80°)	9106.3	42.7			G4/12000
FVH	(80°-90°)	234.3	1.1			G3/500
BL	(0°-30°)	18.7	0.1	B0/110		
BM	(30°-60°)	18.3	0.1	B0/220		
BH	(60°-80°)	35.6	0.2	B0/110		G0/110
BVH	(80°-90°)	3.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	175.0	175.0	170.7	165.0	163.6	159.3	159.3	155.0	149.2	144.9	139.2
5°	254.0	252.5	241.1	226.7	208.1	196.6	196.6	180.8	166.4	153.5	142.0
7.5°	555.3	542.4	500.8	431.9	341.5	281.2	276.9	225.3	190.8	165.0	143.5
10°	1274.1	1229.7	1170.8	1005.8	743.2	519.4	509.4	328.6	228.1	177.9	146.4
12.5°	2087.7	2123.6	2005.9	1746.2	1439.1	1070.4	998.6	553.8	301.3	195.1	149.2
15°	2828.1	2819.4	2753.4	2541.1	2186.7	1696.0	1651.5	962.8	431.9	222.4	152.1
17.5°	3381.9	3371.9	3308.7	3172.4	2899.8	2409.1	2370.3	1535.3	677.2	261.1	155.0
20°	3965.9	3953.0	3864.0	3755.0	3516.8	3099.2	3053.3	2175.2	1060.3	324.3	155.0
22.5°	4666.1	4641.7	4547.0	4361.9	4110.8	3747.8	3706.2	2829.5	1535.3	427.6	162.1
25°	5512.6	5471.0	5340.5	5174.0	4871.3	4389.2	4344.7	3558.4	2107.8	584.0	169.3
27.5°	6478.3	6485.4	6309.0	6027.7	5621.7	5129.5	5046.3	4211.2	2700.4	807.8	177.9
30°	7624.7	7553.0	7304.7	6977.6	6583.0	5956.0	5875.6	4861.2	3366.1	1137.8	192.3
32.5°	8698.0	8620.5	8286.2	7874.4	7451.1	6789.6	6723.6	5591.5	3971.6	1528.1	218.1
35°	9619.1	9564.6	9096.8	8594.7	8218.7	7627.6	7607.5	6406.5	4683.3	1948.5	246.8
37.5°	10429.8	10330.8	9729.6	9208.8	8827.1	8297.6	8254.6	7152.6	5369.1	2436.3	289.8
40°	11121.4	11066.9	10333.7	9649.3	9339.3	8865.8	8811.3	7806.9	6078.0	3003.1	342.9
42.5°	11861.8	11790.0	11078.4	10310.7	9739.7	9233.2	9197.3	8346.4	6709.3	3625.8	421.8
45°	12698.3	12564.8	11940.7	11252.0	10383.9	9613.4	9573.2	8827.1	7356.4	4294.5	518.0
47.5°	13592.2	13476.0	12970.9	12487.4	11488.7	10240.4	10154.3	9236.0	7999.2	5066.4	639.9
50°	14501.9	14504.7	14125.9	13893.5	12838.9	11259.1	11137.2	9837.2	8675.0	5892.9	820.7
52.5°	15560.8	15588.0	15582.3	15410.1	14592.3	12925.0	12761.4	10749.8	9459.9	6857.1	1070.4
55°	16004.1	16052.9	16370.0	16751.7	16529.3	15037.1	14862.0	12323.8	10500.1	7931.8	1440.6
57.5°	15641.1	15695.6	16133.3	16801.9	17312.7	16886.6	16866.5	14372.7	11870.4	9234.6	2046.1
59°	15209.2	15202.1	15651.2	16360.0	17048.7	17325.6	17354.3	15758.8	13064.2	10148.6	2568.4
60°	14922.3	14928.0	15226.5	15953.9	16685.7	17166.4	17278.3	16575.2	13761.5	10805.7	3016.0
62.5°	13814.6	13880.6	14117.3	14793.1	15487.6	16024.2	16215.1	17302.7	15757.3	12358.2	4572.8
65°	12610.8	12615.1	12952.2	13530.5	14196.2	14573.6	14694.1	16170.6	17090.3	13939.4	6614.6
67.5°	10462.8	10550.3	10933.4	11870.4	12749.9	13227.7	13319.6	14075.7	16537.9	14969.6	7637.6
70°	7322.0	7436.7	7983.4	9198.7	10508.7	11293.6	11287.8	11701.1	14555.0	14510.5	6475.4
72.5°	3656.0	3854.0	4300.2	5601.6	7188.5	8421.0	8680.7	9412.5	11692.5	12052.6	4831.1
75°	1615.6	1627.1	1881.1	2536.8	3572.7	5138.1	5370.6	7471.2	8970.6	8376.6	3489.5
77.5°	939.8	948.4	994.3	1139.3	1447.7	2518.1	2779.3	4900.0	6339.1	4868.4	2275.6
80°	341.5	350.1	348.7	431.9	634.2	991.5	1104.8	2374.7	4228.5	2564.0	1192.3
82.5°	209.5	209.5	202.3	203.7	231.0	380.2	416.1	1011.6	2059.0	1262.7	341.5
85°	103.3	109.0	116.2	130.6	155.0	188.0	199.4	289.8	693.0	305.6	81.8
87.5°	61.7	63.1	68.9	83.2	103.3	134.9	143.5	196.6	248.2	205.2	20.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	136.3	134.9	127.7	122.0	116.2	110.5	106.2	101.9	101.9	103.3	101.9
5°	136.3	130.6	119.1	109.0	100.4	93.3	86.1	80.4	78.9	78.9	80.4
7.5°	134.9	127.7	111.9	99.0	87.5	77.5	70.3	63.1	61.7	63.1	61.7
10°	133.4	124.8	106.2	90.4	74.6	64.6	54.5	47.3	47.3	47.3	48.8
12.5°	133.4	120.5	100.4	81.8	64.6	53.1	43.0	35.9	34.4	34.4	34.4
15°	132.0	117.7	94.7	71.7	54.5	40.2	31.6	24.4	24.4	24.4	24.4
17.5°	129.1	113.4	87.5	63.1	43.0	30.1	21.5	14.3	14.3	17.2	17.2
20°	126.3	109.0	78.9	51.7	35.9	23.0	14.3	8.6	8.6	12.9	14.3
22.5°	127.7	109.0	73.2	45.9	28.7	17.2	11.5	7.2	5.7	10.0	12.9
25°	129.1	106.2	66.0	40.2	21.5	12.9	8.6	2.9	1.4	2.9	4.3
27.5°	129.1	103.3	57.4	31.6	15.8	10.0	4.3	0.0	0.0	0.0	0.0
30°	127.7	99.0	50.2	25.8	11.5	5.7	1.4	0.0	0.0	0.0	0.0
32.5°	126.3	94.7	45.9	20.1	10.0	2.9	0.0	0.0	0.0	0.0	0.0
35°	127.7	89.0	40.2	15.8	5.7	0.0	0.0	0.0	0.0	0.0	2.9
37.5°	132.0	83.2	34.4	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	137.7	78.9	28.7	10.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	149.2	78.9	25.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	163.6	78.9	21.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	182.2	80.4	18.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	205.2	83.2	17.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	222.4	80.4	15.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	252.5	77.5	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	292.7	73.2	14.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	332.9	67.4	14.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	378.8	64.6	12.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	625.6	57.4	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1208.1	54.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1952.8	54.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2053.2	54.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1366.0	44.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	731.8	40.2	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	394.6	37.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.6	27.3	7.2	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.9	18.7	8.6	7.2	5.7	2.9	0.0	0.0	0.0	0.0	0.0
85°	33.0	14.3	11.5	10.0	7.2	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	14.3	12.9	11.5	10.0	7.2	1.4	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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

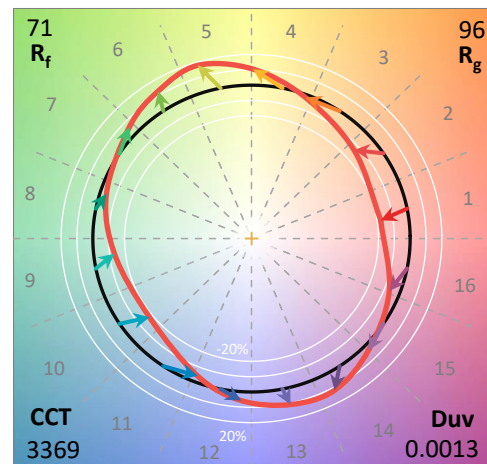
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

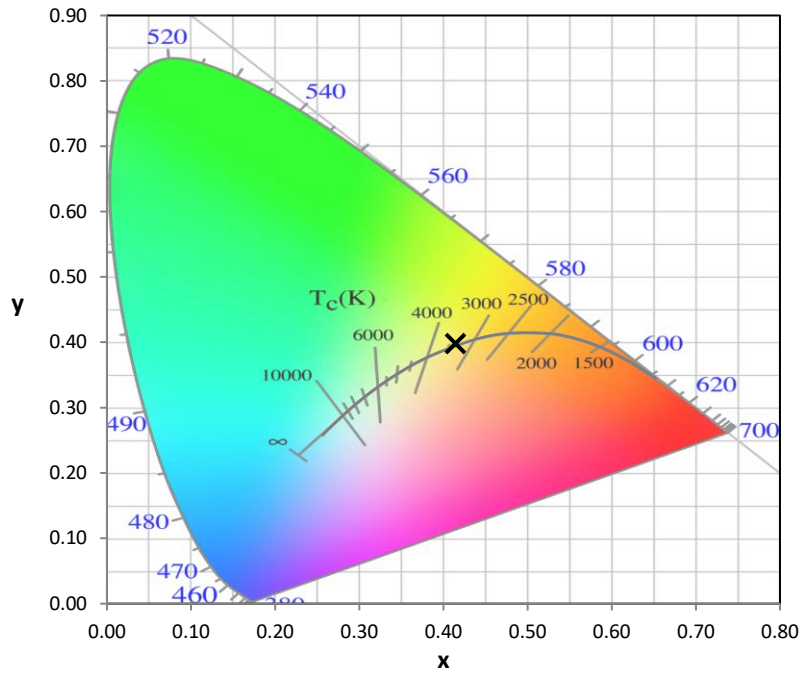
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

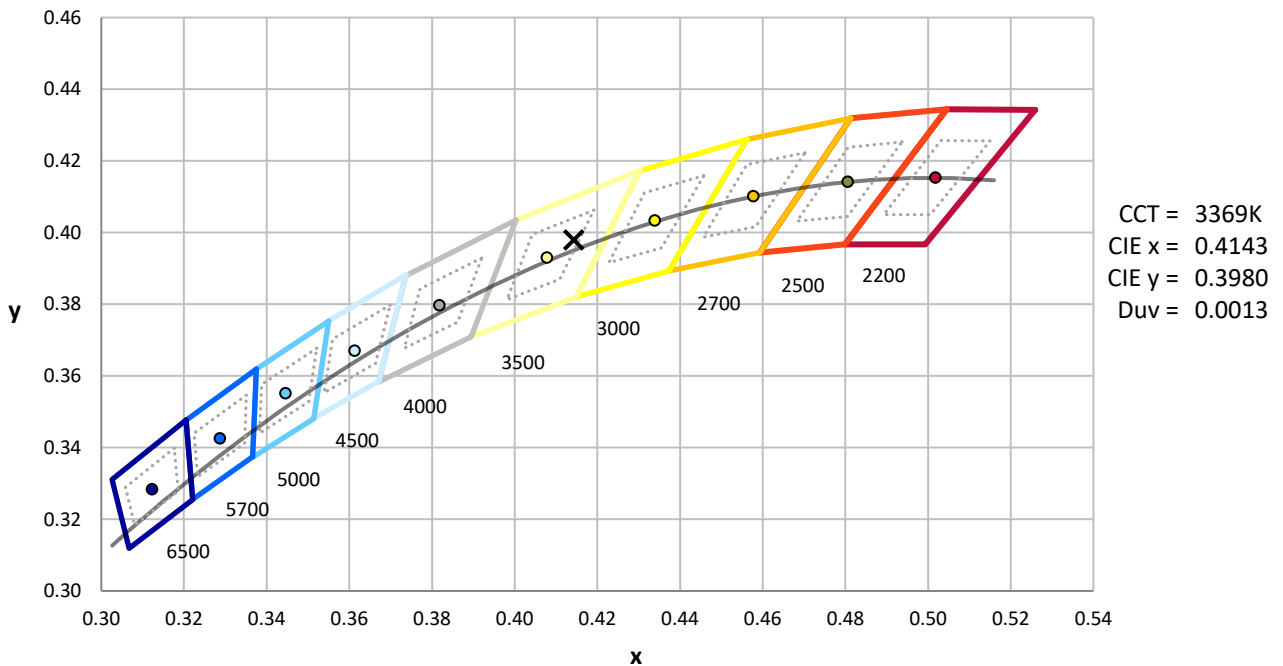
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



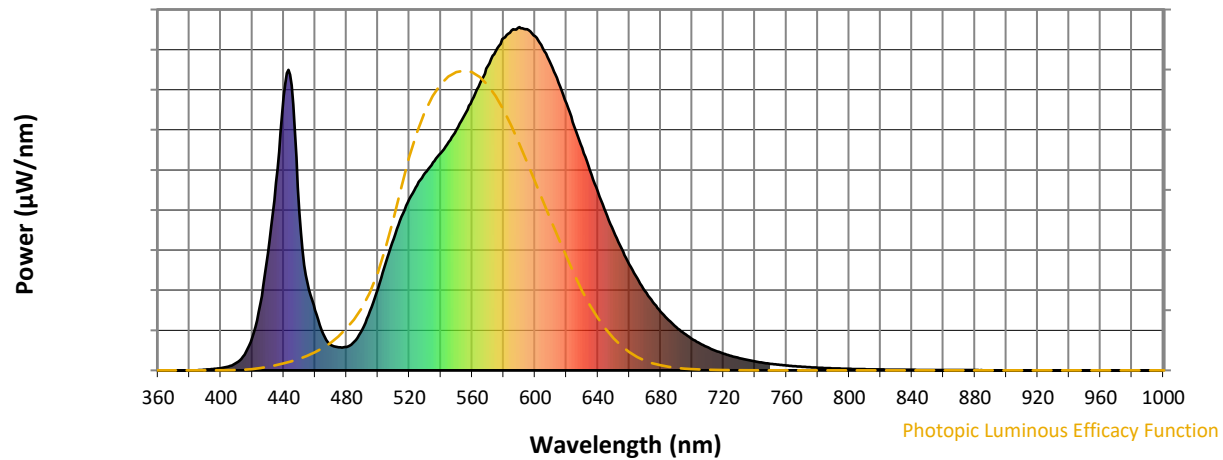
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

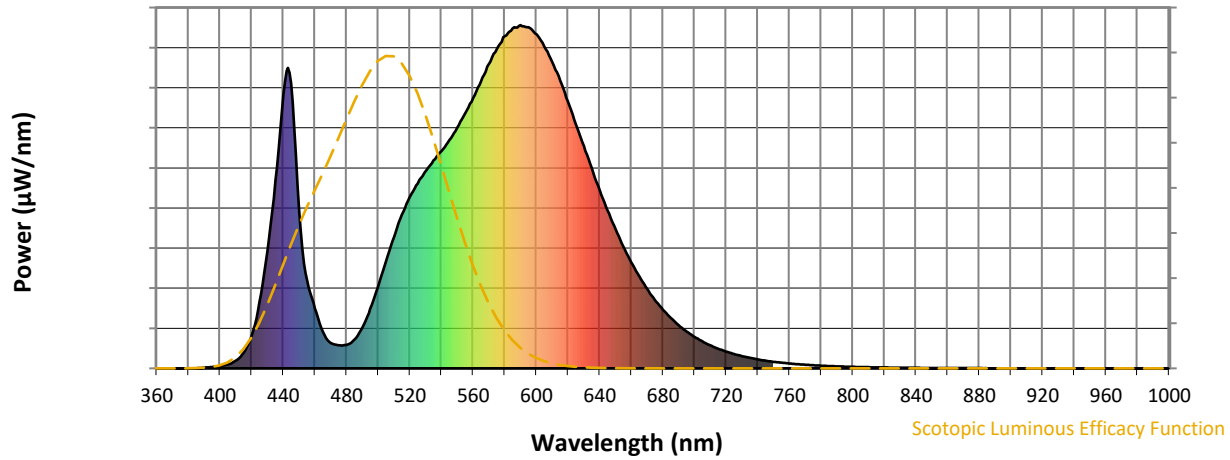


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



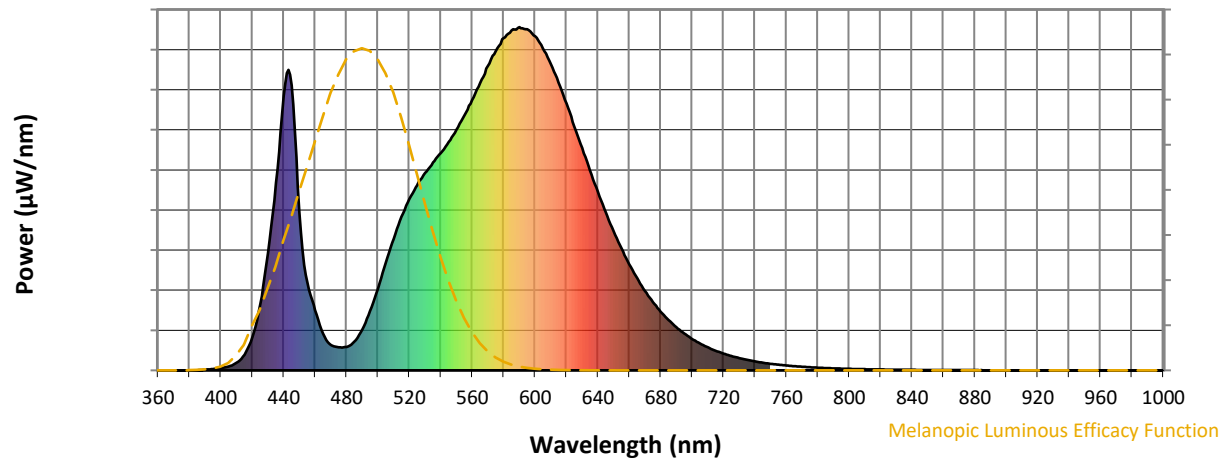
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

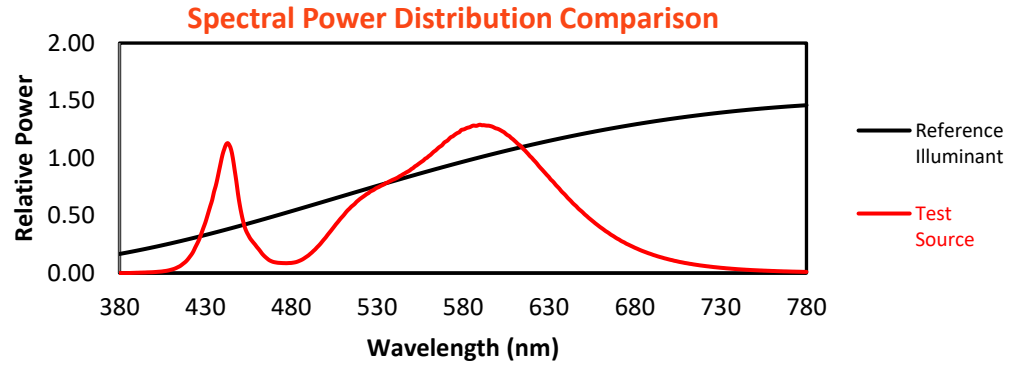
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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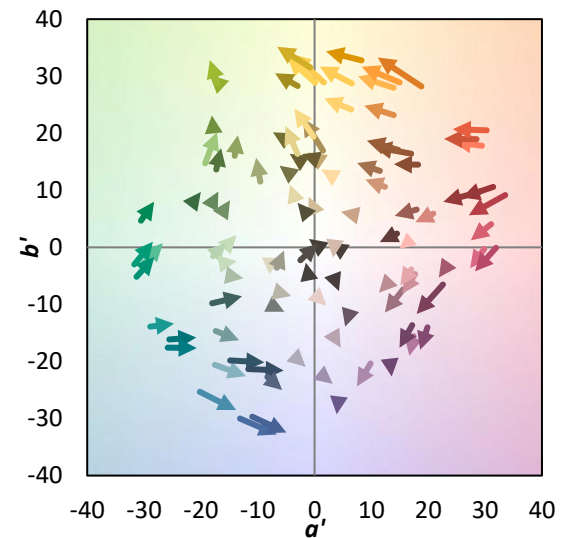
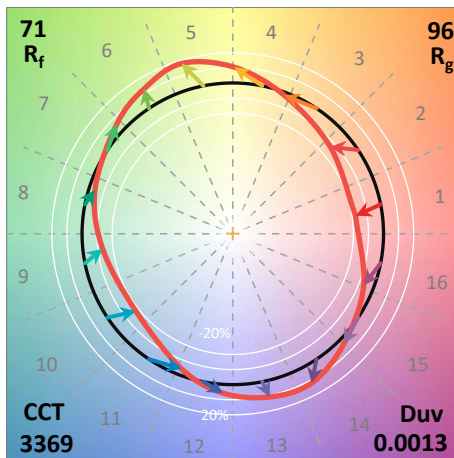
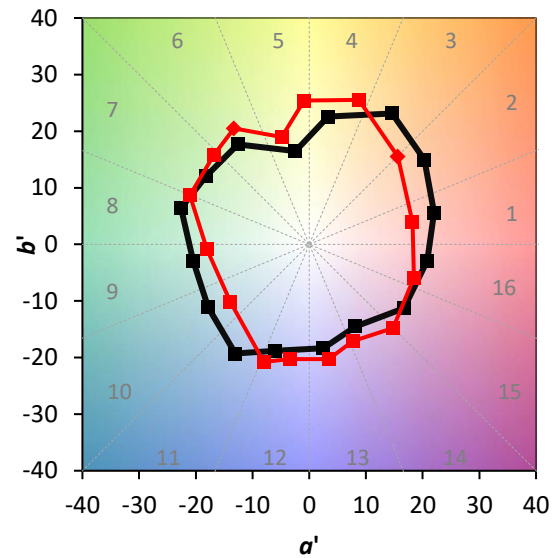
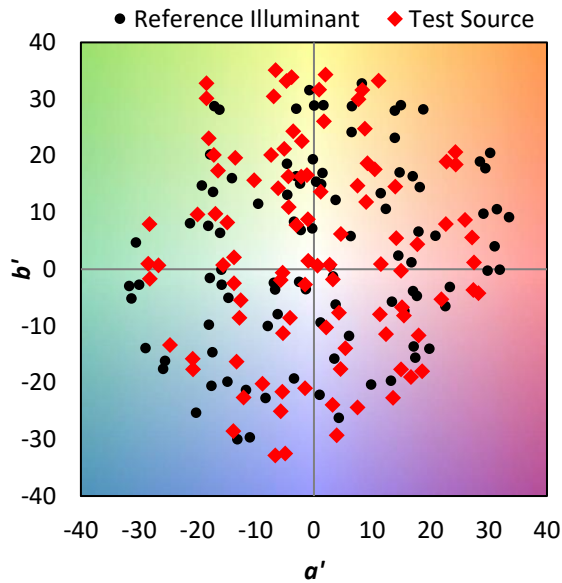
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

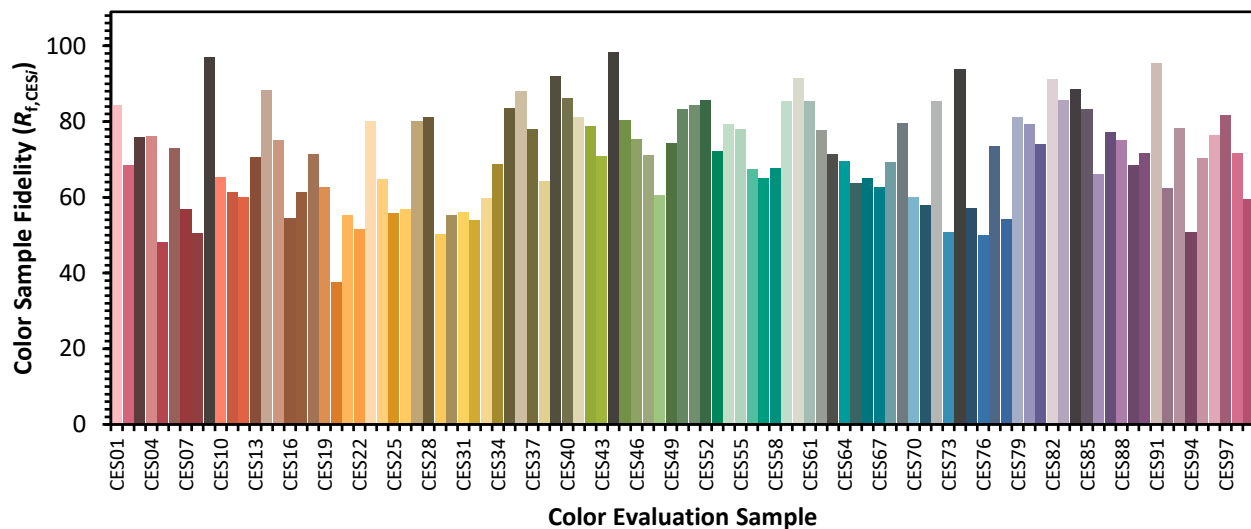


Color Vector Graphics

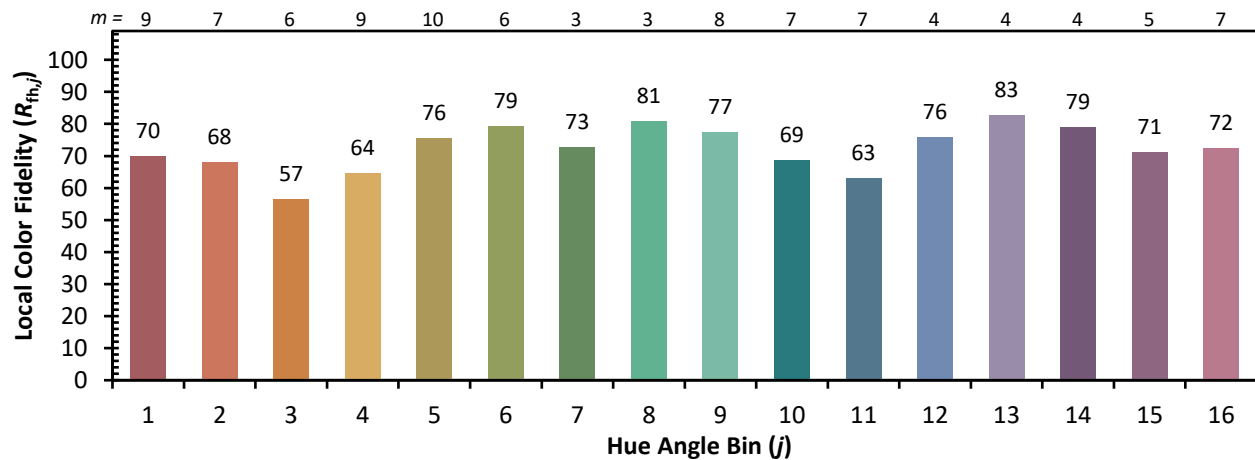
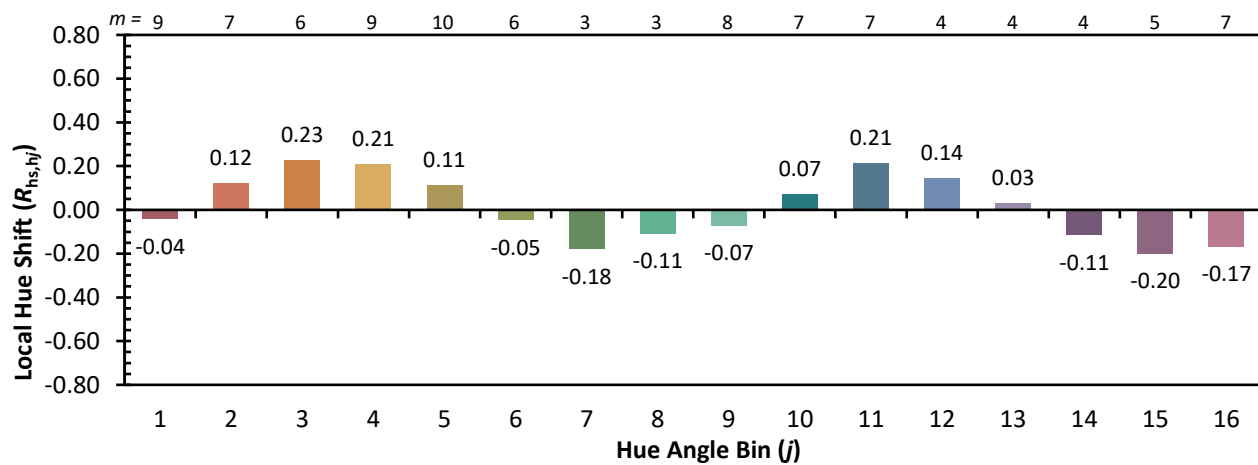
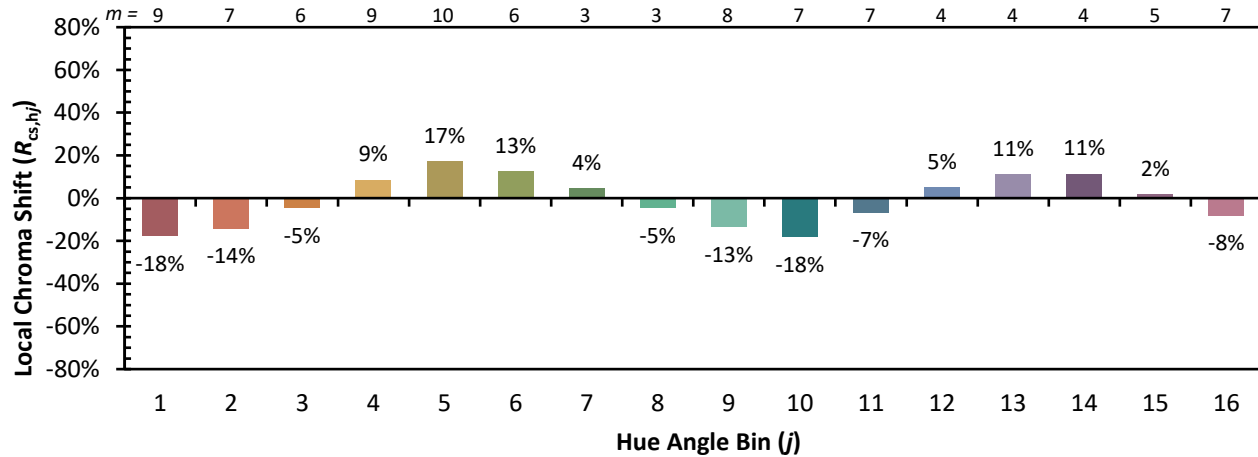


Individual Sample Fidelity Index ($R_{f,i}$)

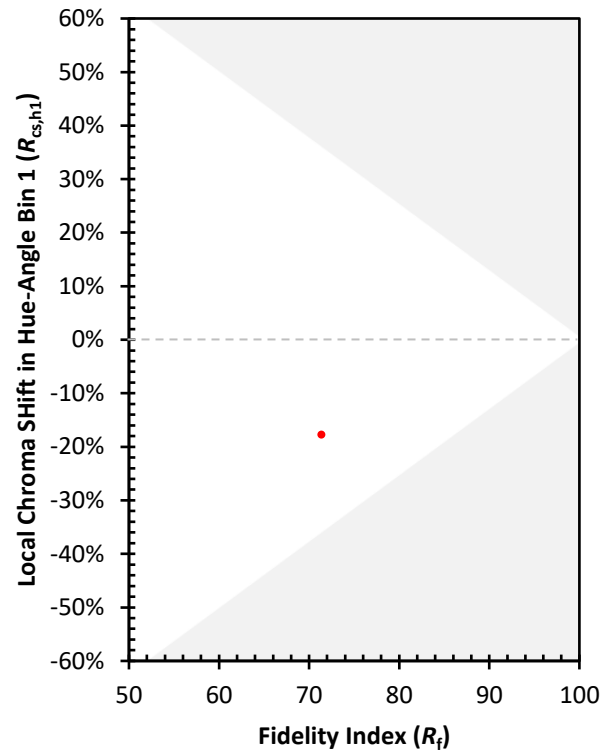
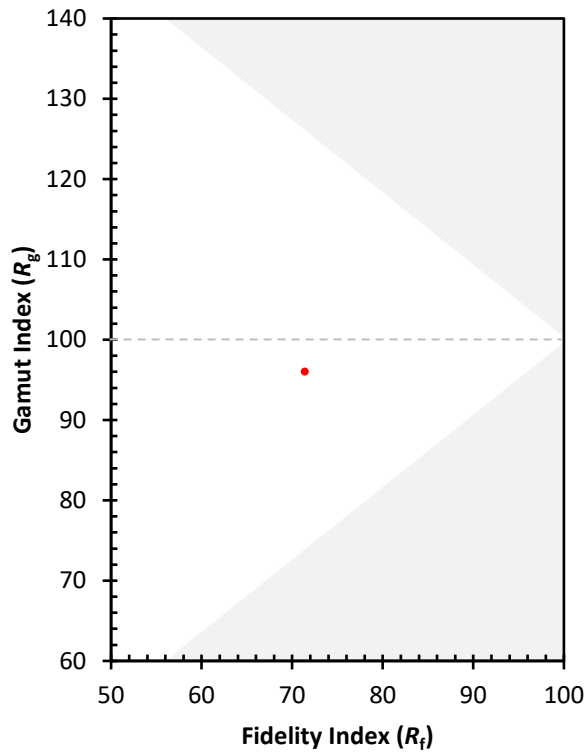
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)