

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: P1067488

Luminaire Tested: **NAV-SA1D-735-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067488
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1D-735-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 1xLight Square PACKAGE
70CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5904.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 56.5
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

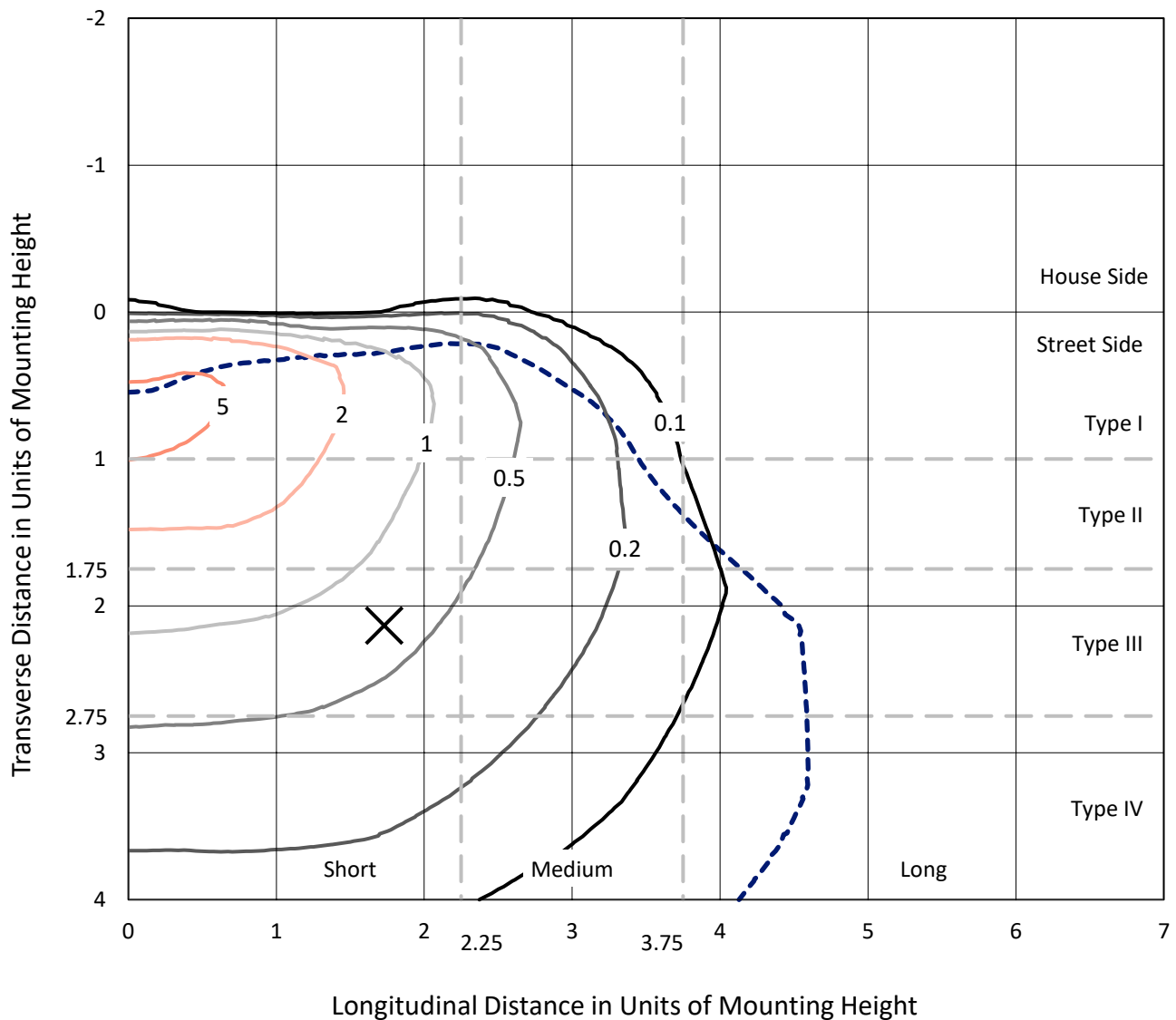


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

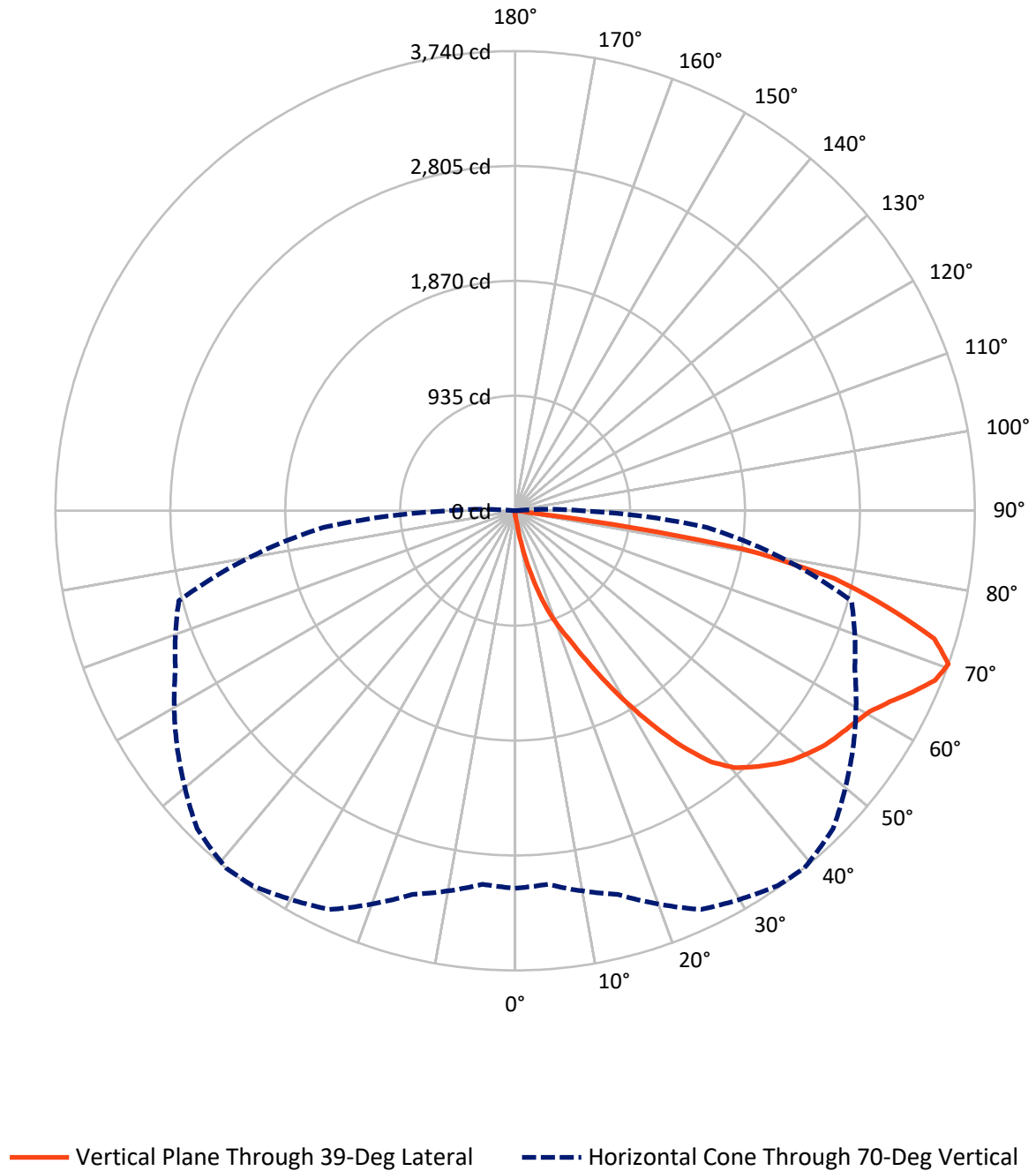


Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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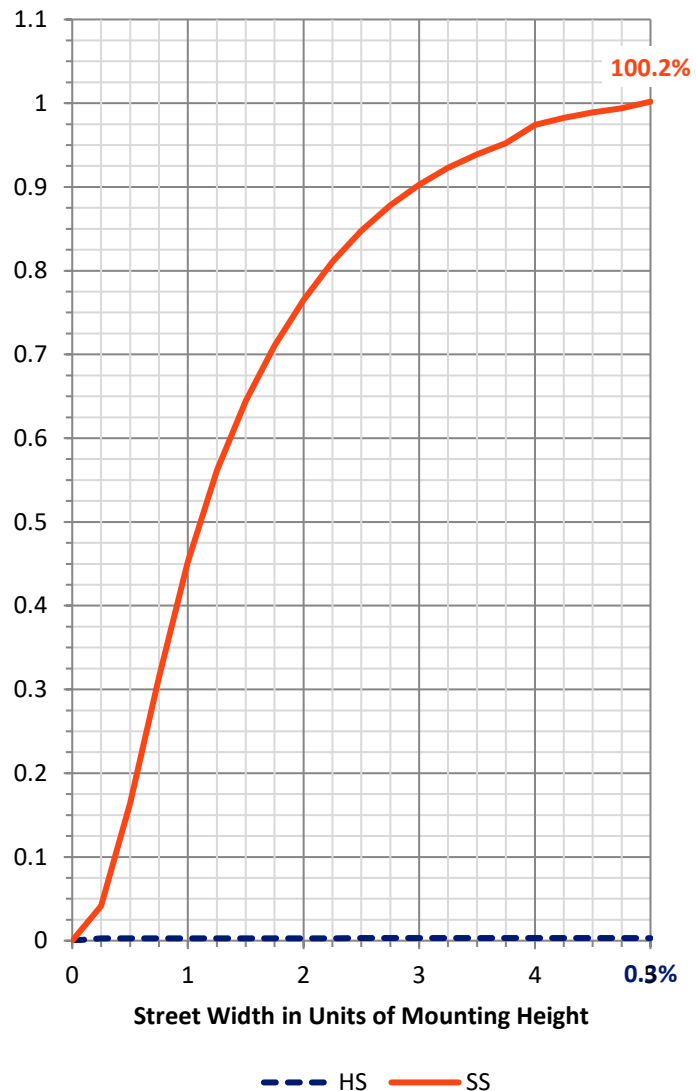
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18.2	0.0	18.2
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	5886.7	0.0	5886.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	5904.8	0.0	5904.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	72.6	1.2
20°-30°	246.3	4.2
30°-40°	578.9	9.8
40°-50°	940.1	15.9
50°-60°	1191.3	20.2
60°-70°	1513.3	25.6
70°-80°	1229.5	20.8
80°-90°	126.6	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°	5904.8	100.0
0°-180°	5904.8	100.0



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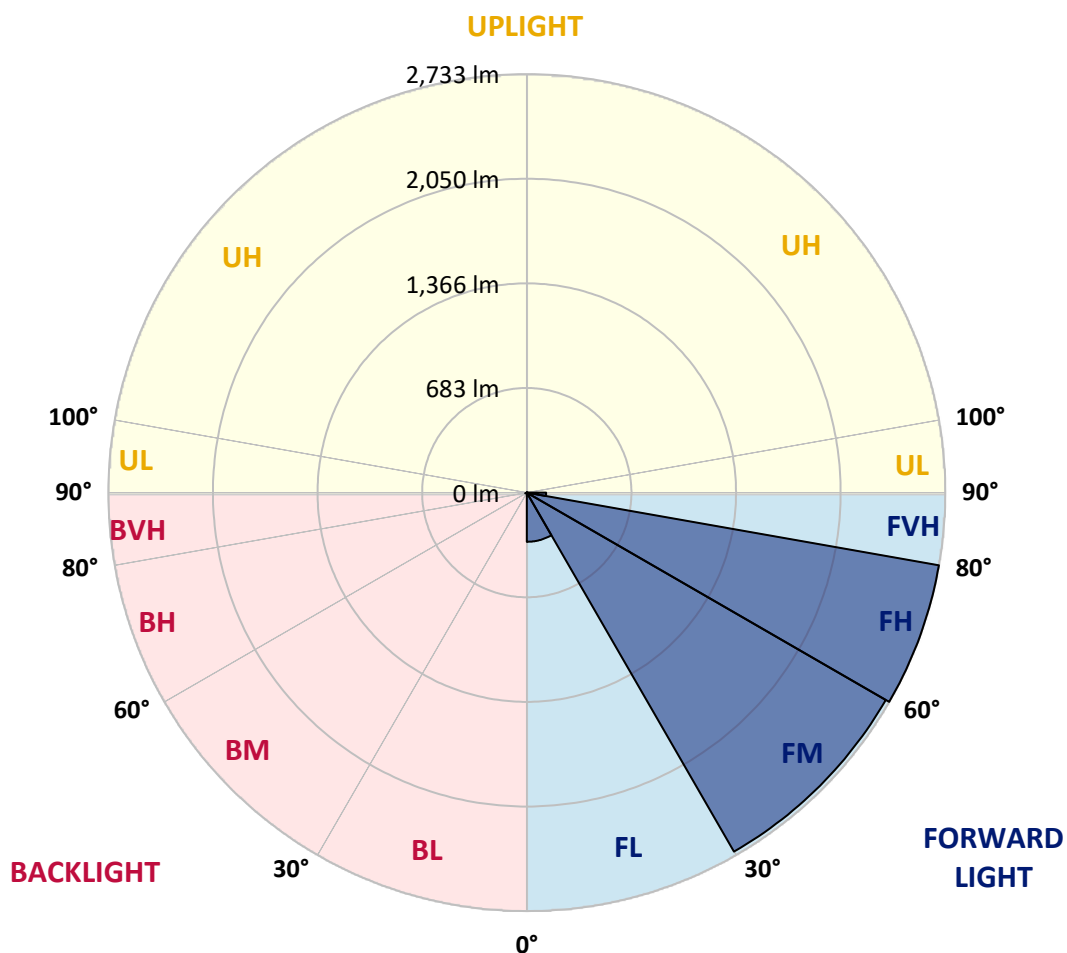
CATALOG NUMBER: NAV-SA1D-735-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.2	5.4			
FM	(30°-60°)	2706.8	45.8			
FH	(60°-80°)	2732.8	46.3			G2/5000
FVH	(80°-90°)	125.8	2.1			G2/225
BL	(0°-30°)	3.9	0.1	B0/110		
BM	(30°-60°)	3.5	0.1	B0/220		
BH	(60°-80°)	10.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	41.7	41.7	41.7	40.1	40.1	38.5	38.5	36.9	35.3	35.3	33.7
5°	78.6	80.2	75.3	65.7	59.3	56.1	52.9	44.9	40.1	36.9	33.7
7.5°	214.8	208.4	198.8	166.7	128.3	109.0	93.0	65.7	48.1	38.5	33.7
10°	452.1	434.5	407.2	363.9	288.6	258.1	200.4	120.2	67.3	43.3	33.7
12.5°	663.7	666.9	633.2	591.6	500.2	448.9	370.3	226.0	105.8	51.3	33.7
15°	824.0	820.8	808.0	774.3	692.6	642.9	572.3	379.9	177.9	64.1	35.3
17.5°	950.7	937.8	933.0	918.6	865.7	838.4	761.5	559.5	282.2	86.6	36.9
20°	1077.3	1074.1	1069.3	1053.3	1018.0	998.8	939.4	740.7	420.0	123.4	40.1
22.5°	1261.7	1244.0	1247.2	1212.0	1183.1	1149.5	1101.4	933.0	578.7	176.3	44.9
25°	1478.1	1476.5	1450.8	1434.8	1386.7	1349.8	1285.7	1119.0	755.1	254.9	49.7
27.5°	1733.0	1715.4	1704.1	1676.9	1627.2	1585.5	1497.3	1303.4	945.9	343.1	56.1
30°	1999.1	1999.1	1978.3	1936.6	1888.5	1837.2	1747.4	1497.3	1135.0	455.3	64.1
32.5°	2310.1	2316.5	2265.2	2202.7	2140.2	2104.9	1987.9	1717.0	1316.2	583.5	73.7
35°	2611.5	2603.5	2518.5	2449.6	2403.1	2364.6	2265.2	1957.4	1521.4	732.6	86.6
37.5°	2900.1	2879.2	2738.2	2640.4	2619.5	2593.9	2494.5	2197.9	1725.0	897.8	102.6
40°	3106.9	3074.8	2928.9	2794.3	2763.8	2749.4	2672.4	2415.9	1939.8	1082.1	123.4
42.5°	3196.7	3159.8	3058.8	2949.8	2882.5	2848.8	2781.5	2593.9	2154.6	1287.3	153.9
45°	3214.3	3185.4	3113.3	3087.7	2996.3	2945.0	2853.6	2720.5	2355.0	1490.9	195.6
47.5°	3150.2	3137.4	3094.1	3148.6	3102.1	3031.5	2920.9	2815.1	2533.0	1737.8	253.3
50°	2993.1	2983.5	3004.3	3147.0	3179.0	3098.9	2994.7	2888.9	2686.9	1992.7	335.1
52.5°	2781.5	2779.9	2877.6	3105.3	3212.7	3163.0	3066.8	2962.6	2808.7	2239.6	450.5
55°	2550.6	2577.9	2749.4	3066.8	3231.9	3209.5	3137.4	3028.3	2917.7	2468.8	636.4
57.5°	2531.4	2520.1	2685.3	3050.8	3243.2	3256.0	3207.9	3097.3	3010.7	2656.4	884.9
60°	2723.7	2698.1	2760.6	3084.4	3292.9	3315.3	3278.4	3150.2	3103.7	2803.9	1212.0
62.5°	2946.6	2922.5	2954.6	3214.3	3390.7	3422.7	3376.2	3204.7	3179.0	2906.5	1563.1
65°	3124.5	3105.3	3166.2	3408.3	3526.9	3554.2	3522.1	3305.7	3212.7	2989.9	1848.4
67.5°	3153.4	3129.3	3256.0	3538.1	3664.8	3684.0	3658.4	3403.5	3201.5	2996.3	1914.2
70°	3071.6	3050.8	3231.9	3579.8	3724.1	3740.1	3658.4	3357.0	3049.2	2832.8	1564.7
72.5°	2819.9	2836.0	3070.0	3478.8	3642.3	3568.6	3395.5	3122.9	2852.0	2401.5	1098.2
75°	2428.8	2446.4	2757.4	3201.5	3214.3	3124.5	3031.5	2872.8	2552.2	1582.3	761.5
77.5°	1726.6	1664.1	2129.0	2643.6	2597.1	2654.8	2662.8	2390.3	2137.0	824.0	509.8
80°	169.9	144.3	267.7	758.3	1675.3	1872.5	1949.4	1842.0	1575.9	368.7	267.7
82.5°	36.9	36.9	40.1	43.3	67.3	101.0	463.3	1135.0	1018.0	187.6	86.6
85°	20.8	20.8	25.7	30.5	40.1	44.9	52.9	70.5	274.1	67.3	16.0
87.5°	16.0	17.6	20.8	25.7	33.7	36.9	44.9	56.1	68.9	62.5	4.8
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-SA1D-735-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	33.7	32.1	30.5	28.9	27.3	27.3	25.7	25.7	25.7	25.7	25.7
5°	32.1	30.5	28.9	25.7	24.0	22.4	20.8	20.8	20.8	20.8	20.8
7.5°	32.1	30.5	27.3	24.0	20.8	19.2	17.6	16.0	16.0	17.6	17.6
10°	32.1	28.9	24.0	20.8	17.6	16.0	14.4	12.8	12.8	12.8	12.8
12.5°	30.5	27.3	22.4	19.2	16.0	12.8	9.6	8.0	8.0	8.0	8.0
15°	28.9	25.7	20.8	16.0	11.2	8.0	6.4	4.8	4.8	4.8	4.8
17.5°	28.9	24.0	19.2	14.4	8.0	4.8	3.2	1.6	1.6	1.6	3.2
20°	28.9	24.0	17.6	11.2	4.8	3.2	3.2	1.6	0.0	1.6	1.6
22.5°	28.9	22.4	14.4	8.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0
25°	30.5	22.4	12.8	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
27.5°	30.5	20.8	11.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
30°	32.1	20.8	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	32.1	19.2	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	32.1	17.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	32.1	16.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	33.7	14.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	35.3	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	36.9	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	41.7	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	48.1	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	57.7	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	75.3	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	109.0	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	182.8	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	320.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	541.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	707.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	537.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	256.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	113.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	49.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.2	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	3.2	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
85°	4.8	3.2	3.2	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

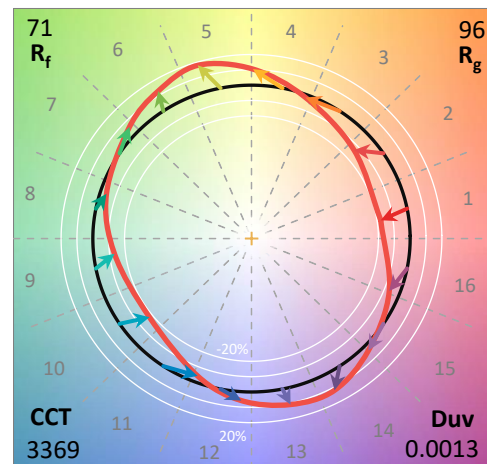
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

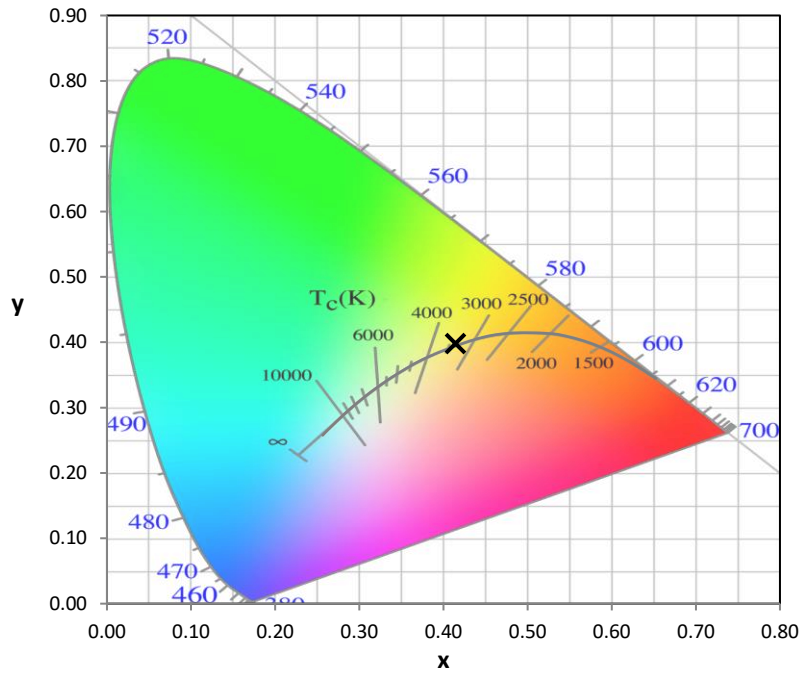
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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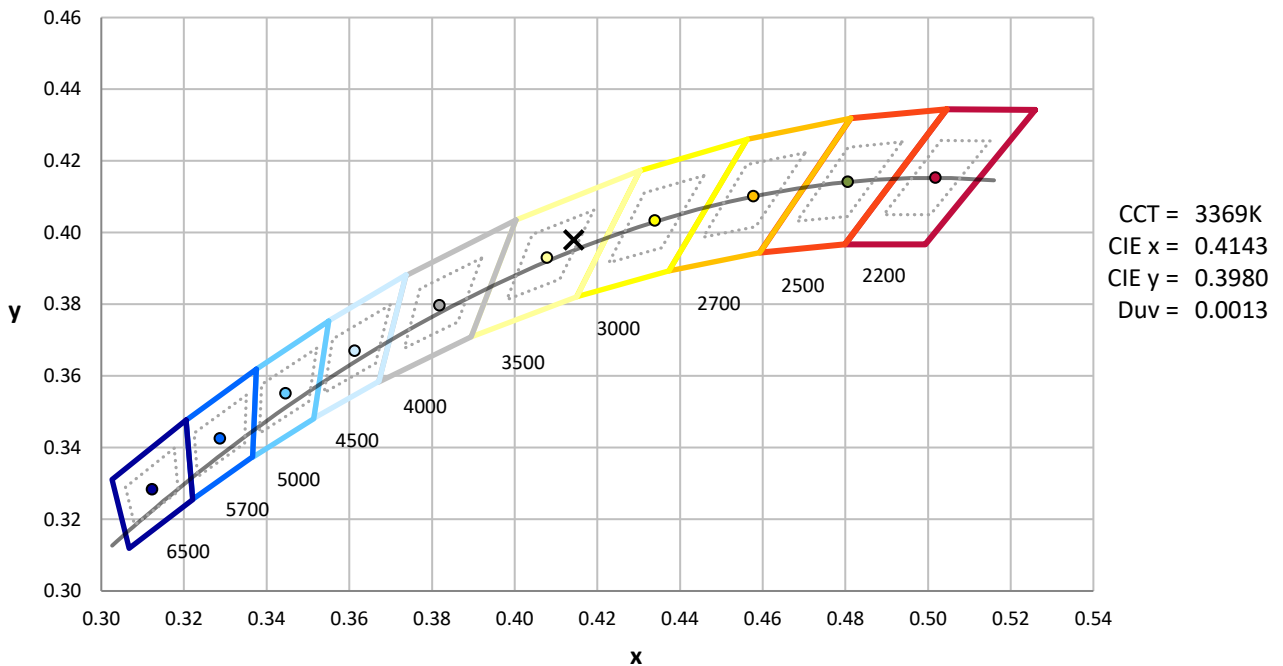
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3500K 4-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	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



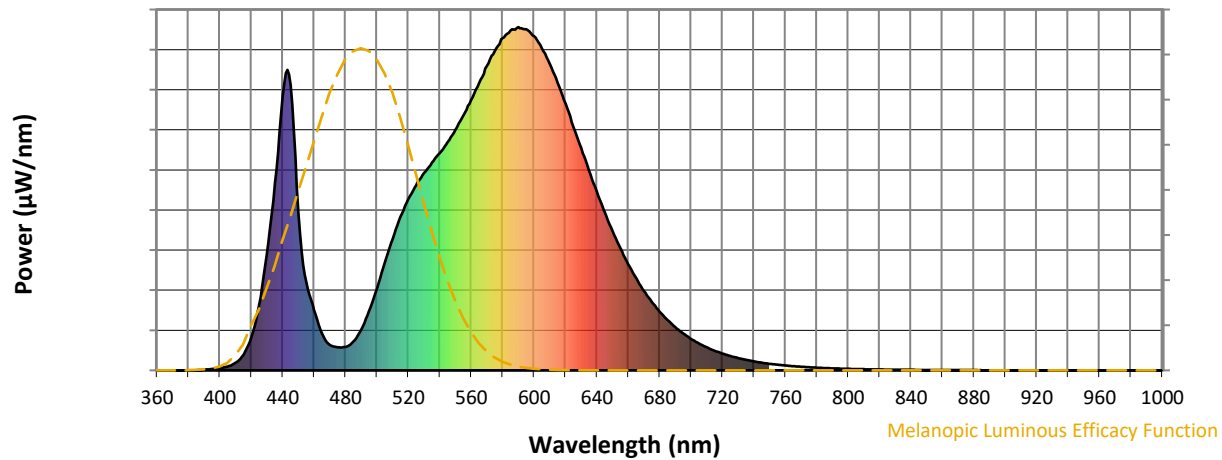
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

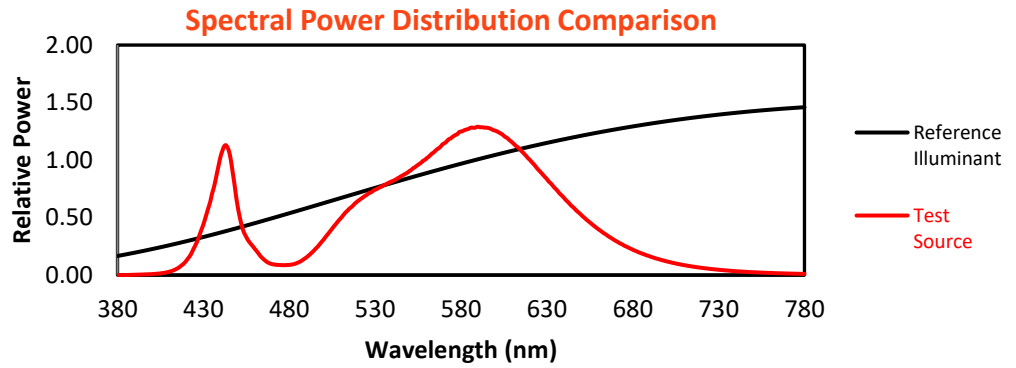
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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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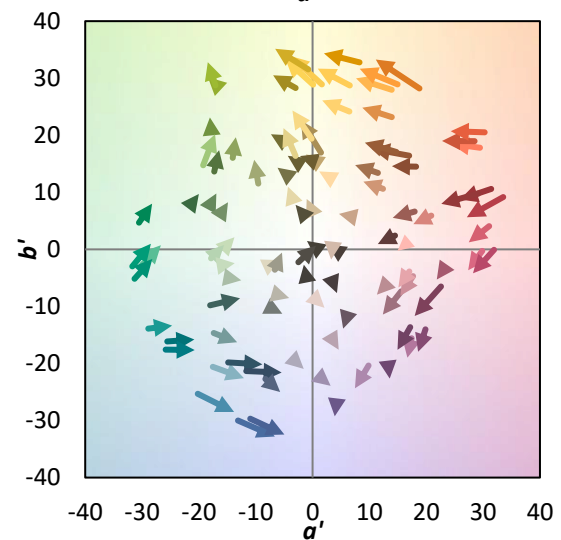
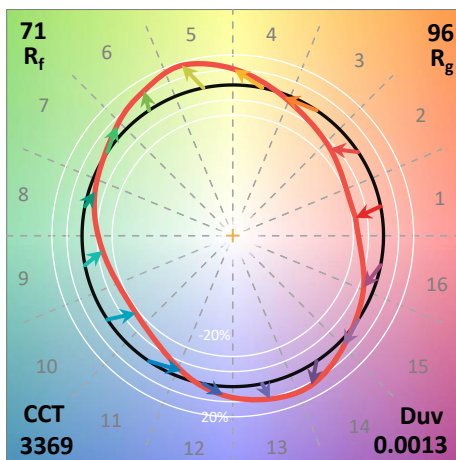
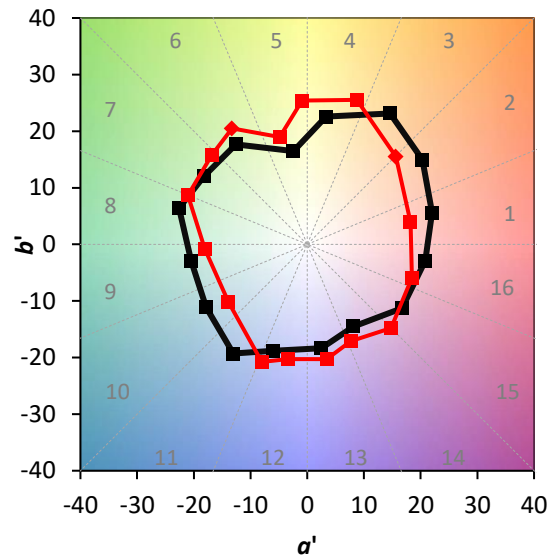
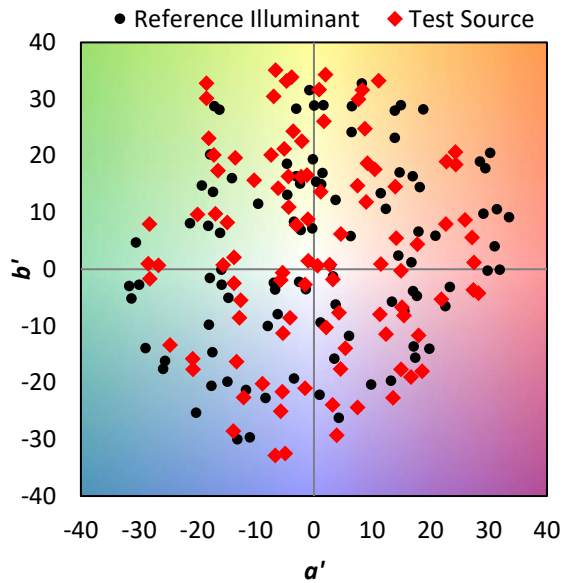
TM-30-18

Summary

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

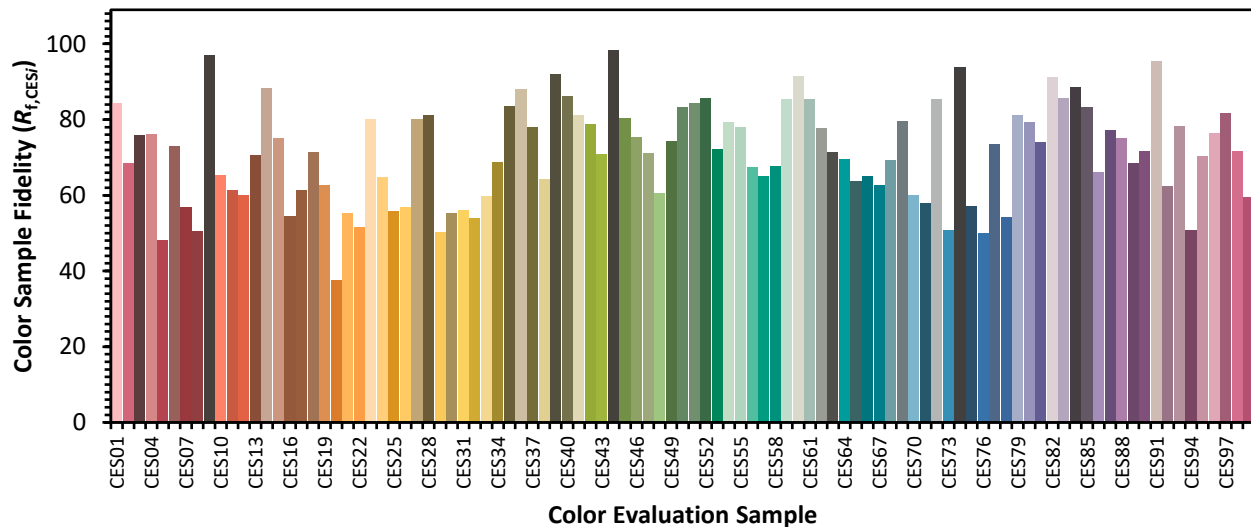


Color Vector Graphics



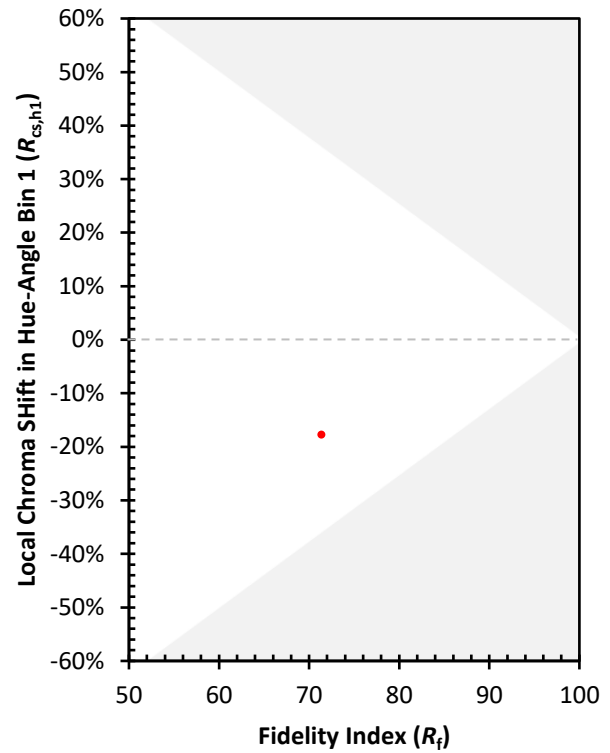
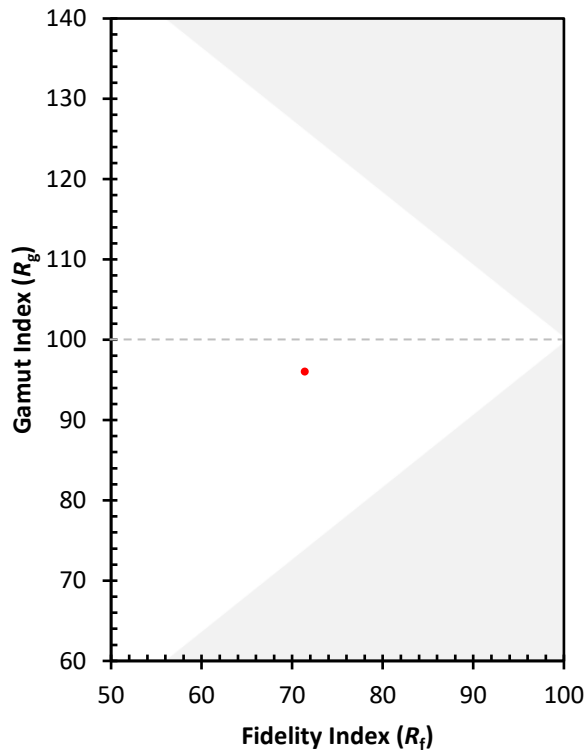
Individual Sample Fidelity Index ($R_{f,i}$)

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)