

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: P1067607

Luminaire Tested: **NAV-SA1C-835-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067607
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1C-835-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5030 lumens
Efficiency: N/A
Efficacy: 100.4 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): 50.1
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

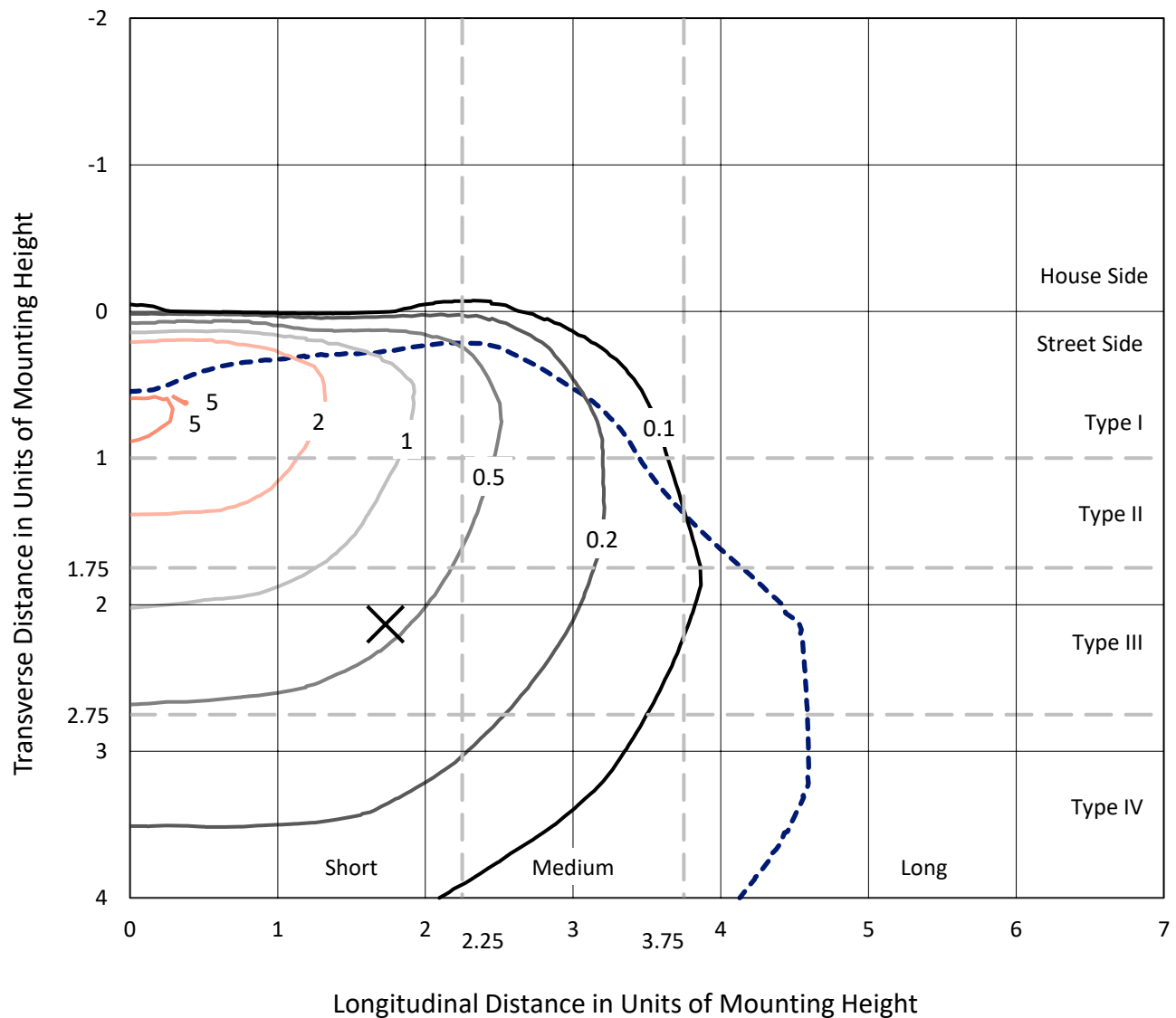


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

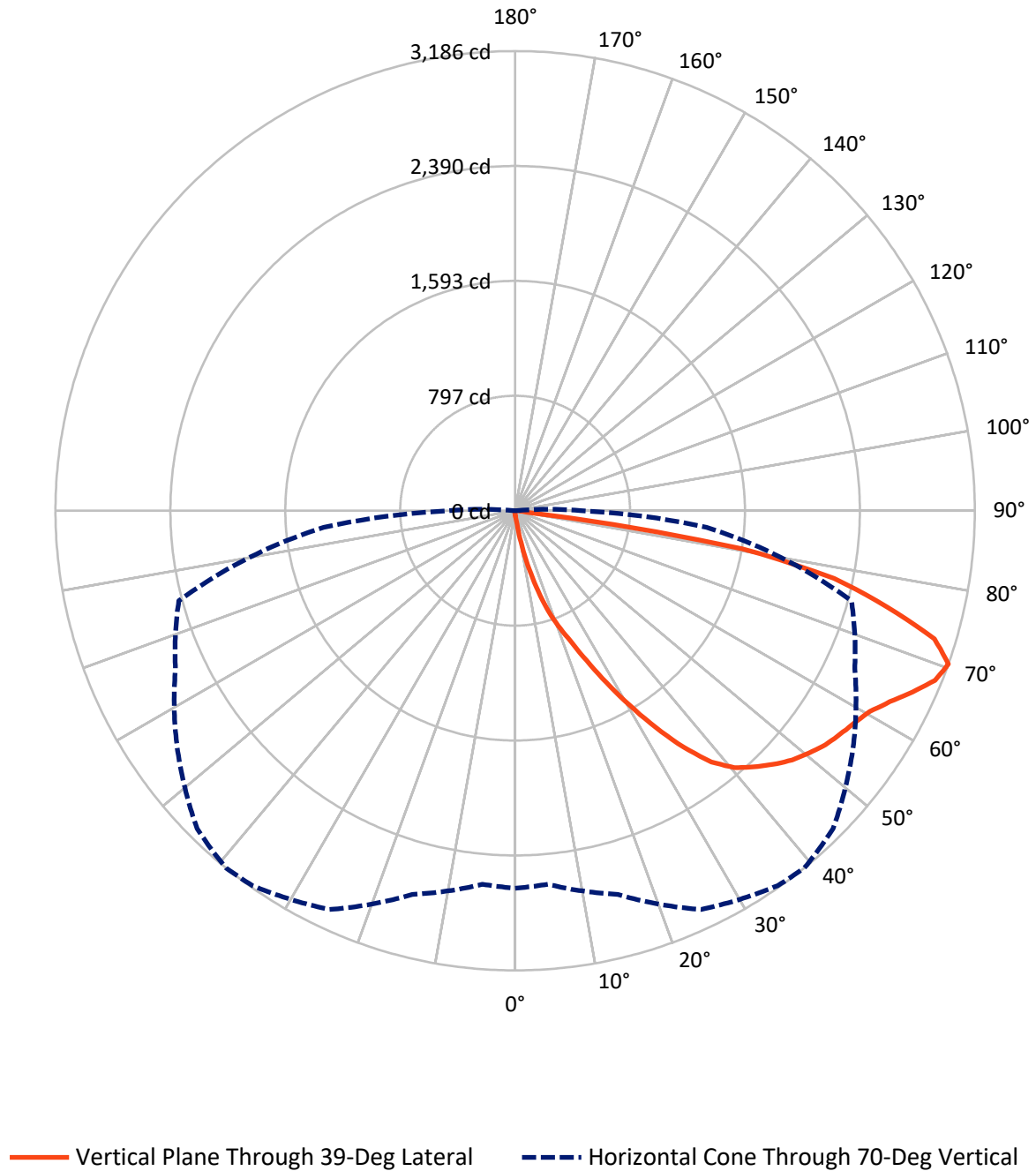


Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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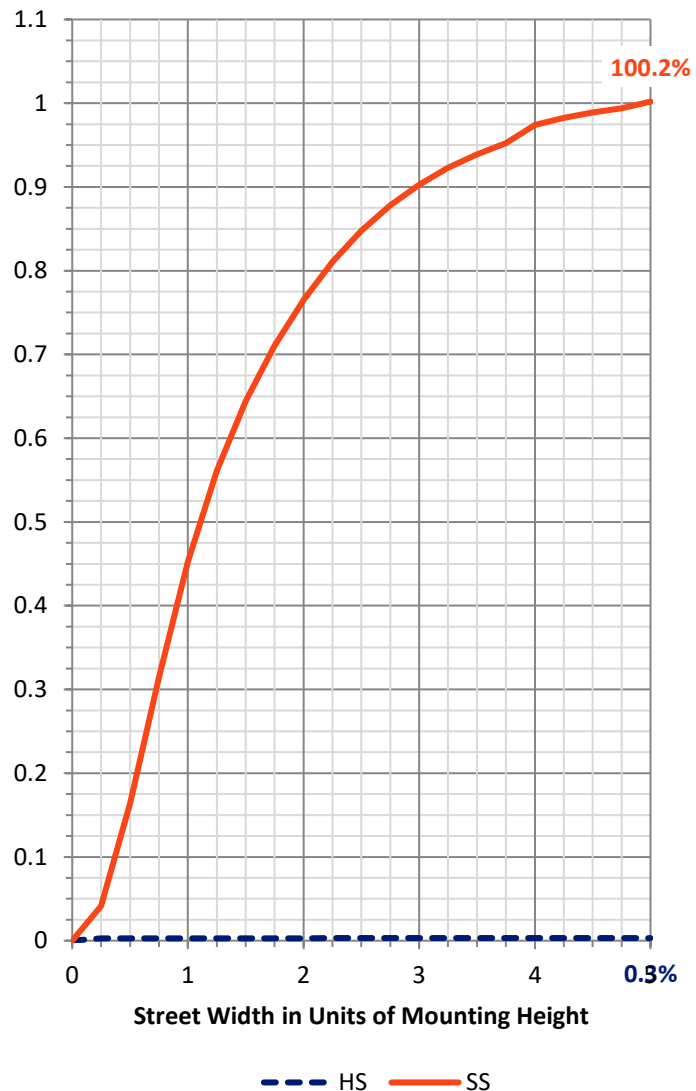
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15.5	0.0	15.5
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	5014.5	0.0	5014.5
	% Fixture	99.7	0.0	99.7
Total	Lumens	5030.0	0.0	5030.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	61.8	1.2
20°-30°	209.8	4.2
30°-40°	493.2	9.8
40°-50°	800.8	15.9
50°-60°	1014.8	20.2
60°-70°	1289.1	25.6
70°-80°	1047.4	20.8
80°-90°	107.8	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°	5030.0	100.0
0°-180°	5030.0	100.0



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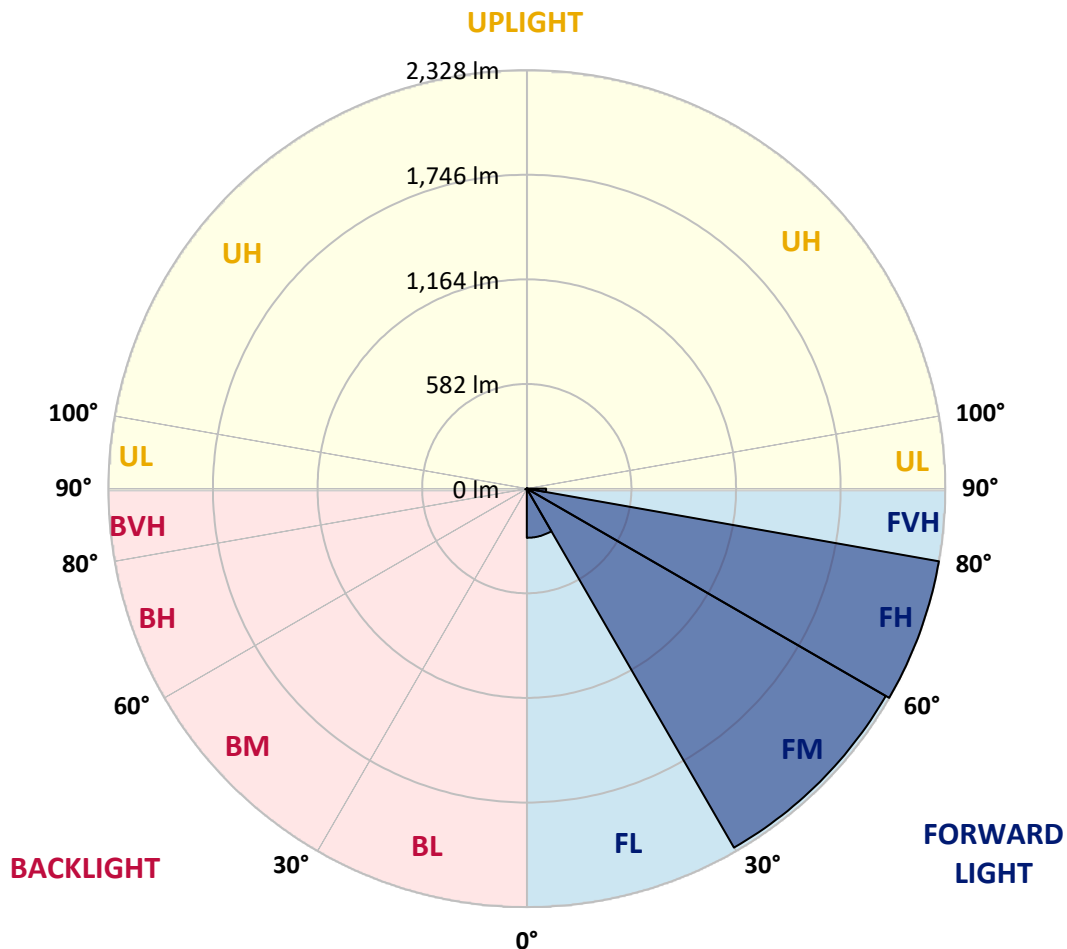
CATALOG NUMBER: NAV-SA1C-835-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.6	5.4			
FM	(30°-60°)	2305.8	45.8			
FH	(60°-80°)	2327.9	46.3			G2/5000
FVH	(80°-90°)	107.2	2.1			G2/225
BL	(0°-30°)	3.4	0.1	B0/110		
BM	(30°-60°)	3.0	0.1	B0/220		
BH	(60°-80°)	8.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	35.5	35.5	35.5	34.1	34.1	32.8	32.8	31.4	30.0	30.0	28.7
5°	66.9	68.3	64.2	56.0	50.5	47.8	45.1	38.2	34.1	31.4	28.7
7.5°	183.0	177.5	169.3	142.0	109.3	92.9	79.2	56.0	41.0	32.8	28.7
10°	385.1	370.1	346.9	310.0	245.8	219.9	170.7	102.4	57.4	36.9	28.7
12.5°	565.4	568.1	539.4	503.9	426.1	382.4	315.5	192.6	90.1	43.7	28.7
15°	701.9	699.2	688.3	659.6	590.0	547.6	487.5	323.7	151.6	54.6	30.0
17.5°	809.8	798.9	794.8	782.5	737.4	714.2	648.7	476.6	240.4	73.7	31.4
20°	917.7	915.0	910.9	897.2	867.2	850.8	800.3	630.9	357.8	105.2	34.1
22.5°	1074.8	1059.7	1062.5	1032.4	1007.8	979.2	938.2	794.8	493.0	150.2	38.2
25°	1259.1	1257.7	1235.9	1222.2	1181.3	1149.9	1095.2	953.2	643.2	217.1	42.3
27.5°	1476.3	1461.2	1451.7	1428.5	1386.1	1350.6	1275.5	1110.3	805.7	292.2	47.8
30°	1702.9	1702.9	1685.2	1649.7	1608.7	1565.0	1488.5	1275.5	966.9	387.8	54.6
32.5°	1967.9	1973.3	1929.6	1876.4	1823.1	1793.1	1693.4	1462.6	1121.2	497.1	62.8
35°	2224.6	2217.8	2145.4	2086.7	2047.1	2014.3	1929.6	1667.4	1296.0	624.1	73.7
37.5°	2470.4	2452.7	2332.5	2249.2	2231.4	2209.6	2124.9	1872.3	1469.4	764.8	87.4
40°	2646.6	2619.3	2495.0	2380.3	2354.4	2342.1	2276.5	2058.0	1652.4	921.8	105.2
42.5°	2723.1	2691.7	2605.6	2512.8	2455.4	2426.7	2369.4	2209.6	1835.4	1096.6	131.1
45°	2738.1	2713.5	2652.1	2630.2	2552.4	2508.7	2430.8	2317.5	2006.1	1270.0	166.6
47.5°	2683.5	2672.5	2635.7	2682.1	2642.5	2582.4	2488.2	2398.1	2157.7	1480.3	215.8
50°	2549.6	2541.4	2559.2	2680.7	2708.1	2639.8	2551.0	2460.9	2288.8	1697.5	285.4
52.5°	2369.4	2368.0	2451.3	2645.2	2736.7	2694.4	2612.5	2523.7	2392.6	1907.8	383.7
55°	2172.7	2195.9	2342.1	2612.5	2753.1	2734.0	2672.5	2579.7	2485.5	2103.1	542.2
57.5°	2156.3	2146.8	2287.4	2598.8	2762.7	2773.6	2732.6	2638.4	2564.7	2262.9	753.8
60°	2320.2	2298.4	2351.6	2627.5	2805.0	2824.1	2792.7	2683.5	2643.9	2388.5	1032.4
62.5°	2510.0	2489.6	2516.9	2738.1	2888.3	2915.6	2876.0	2729.9	2708.1	2475.9	1331.5
65°	2661.6	2645.2	2697.1	2903.3	3004.4	3027.6	3000.3	2815.9	2736.7	2546.9	1574.6
67.5°	2686.2	2665.7	2773.6	3014.0	3121.8	3138.2	3116.4	2899.2	2727.2	2552.4	1630.6
70°	2616.6	2598.8	2753.1	3049.5	3172.4	3186.0	3116.4	2859.6	2597.4	2413.1	1332.9
72.5°	2402.2	2415.8	2615.2	2963.4	3102.7	3039.9	2892.4	2660.3	2429.5	2045.7	935.5
75°	2068.9	2084.0	2348.9	2727.2	2738.1	2661.6	2582.4	2447.2	2174.1	1347.9	648.7
77.5°	1470.8	1417.5	1813.6	2251.9	2212.3	2261.5	2268.3	2036.2	1820.4	701.9	434.3
80°	144.8	122.9	228.1	645.9	1427.1	1595.1	1660.6	1569.1	1342.4	314.1	228.1
82.5°	31.4	31.4	34.1	36.9	57.4	86.0	394.7	966.9	867.2	159.8	73.7
85°	17.8	17.8	21.9	25.9	34.1	38.2	45.1	60.1	233.5	57.4	13.7
87.5°	13.7	15.0	17.8	21.9	28.7	31.4	38.2	47.8	58.7	53.3	4.1
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°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	28.7	27.3	25.9	24.6	23.2	23.2	21.9	21.9	21.9	21.9	21.9
5°	27.3	25.9	24.6	21.9	20.5	19.1	17.8	17.8	17.8	17.8	17.8
7.5°	27.3	25.9	23.2	20.5	17.8	16.4	15.0	13.7	13.7	15.0	15.0
10°	27.3	24.6	20.5	17.8	15.0	13.7	12.3	10.9	10.9	10.9	10.9
12.5°	25.9	23.2	19.1	16.4	13.7	10.9	8.2	6.8	6.8	6.8	6.8
15°	24.6	21.9	17.8	13.7	9.6	6.8	5.5	4.1	4.1	4.1	4.1
17.5°	24.6	20.5	16.4	12.3	6.8	4.1	2.7	1.4	1.4	1.4	2.7
20°	24.6	20.5	15.0	9.6	4.1	2.7	2.7	1.4	0.0	1.4	1.4
22.5°	24.6	19.1	12.3	6.8	4.1	2.7	1.4	0.0	0.0	0.0	0.0
25°	25.9	19.1	10.9	5.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
27.5°	25.9	17.8	9.6	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
30°	27.3	17.8	8.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	27.3	16.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	27.3	15.0	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	27.3	13.7	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	28.7	12.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	30.0	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	31.4	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	35.5	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.0	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	49.2	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	64.2	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	92.9	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	155.7	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	273.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	461.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	602.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	457.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	218.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	97.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.4	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	2.7	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
85°	4.1	2.7	2.7	2.7	1.4	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	1.4	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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

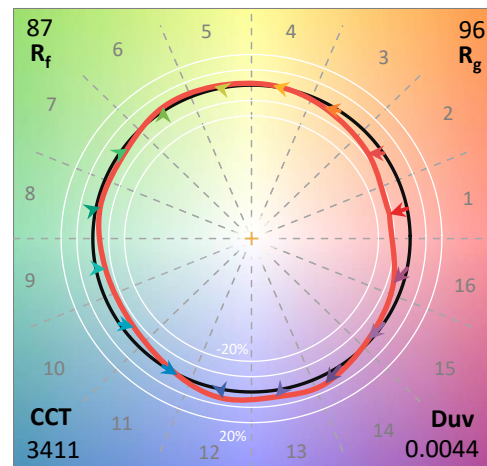
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

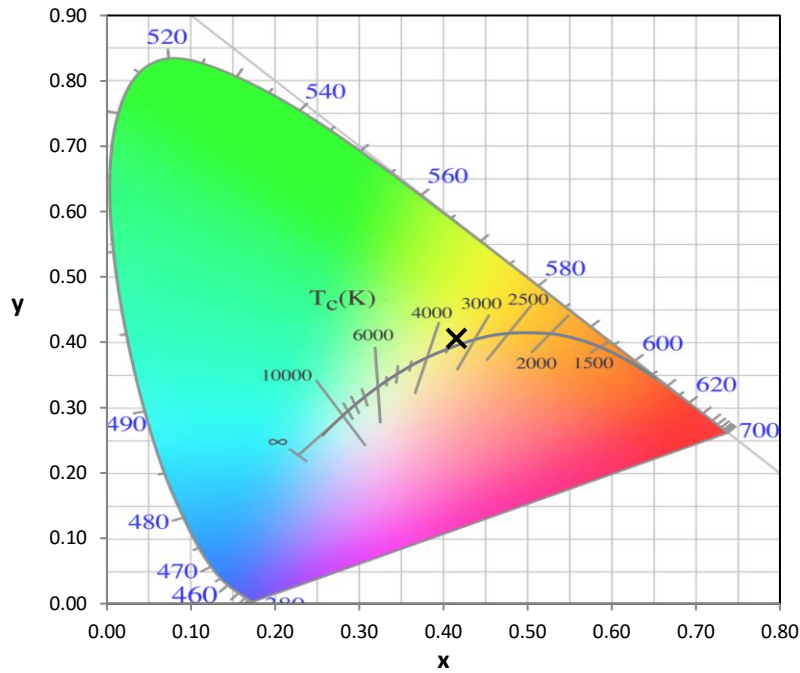
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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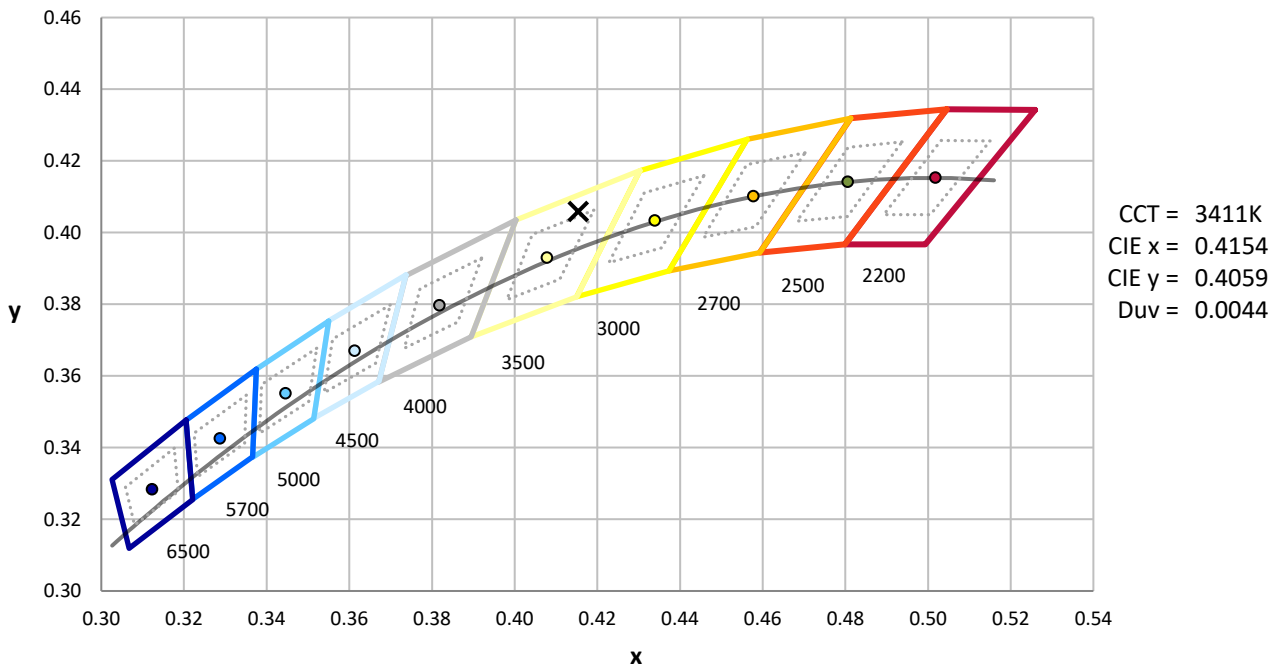
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



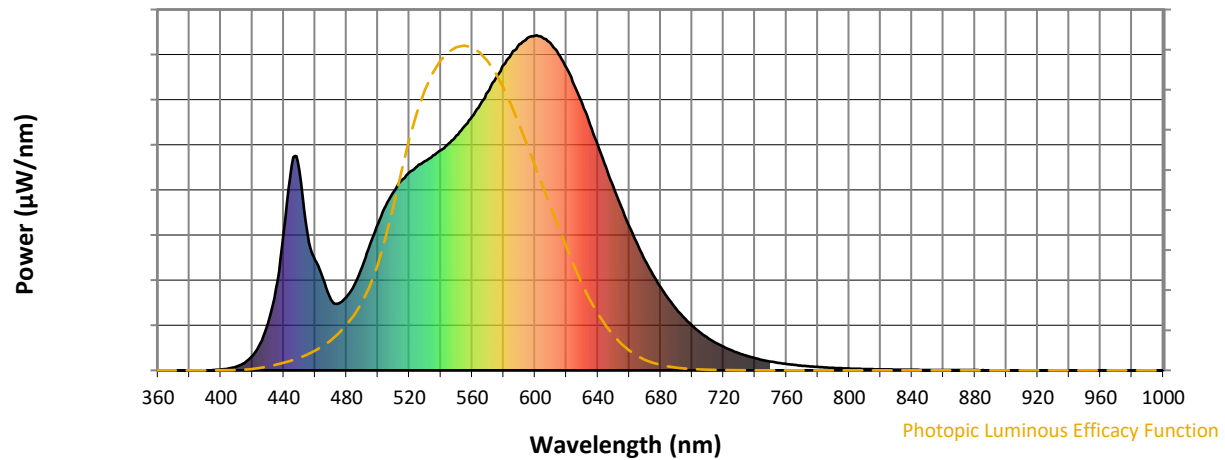
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

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Photopic Flux vs. Wavelength

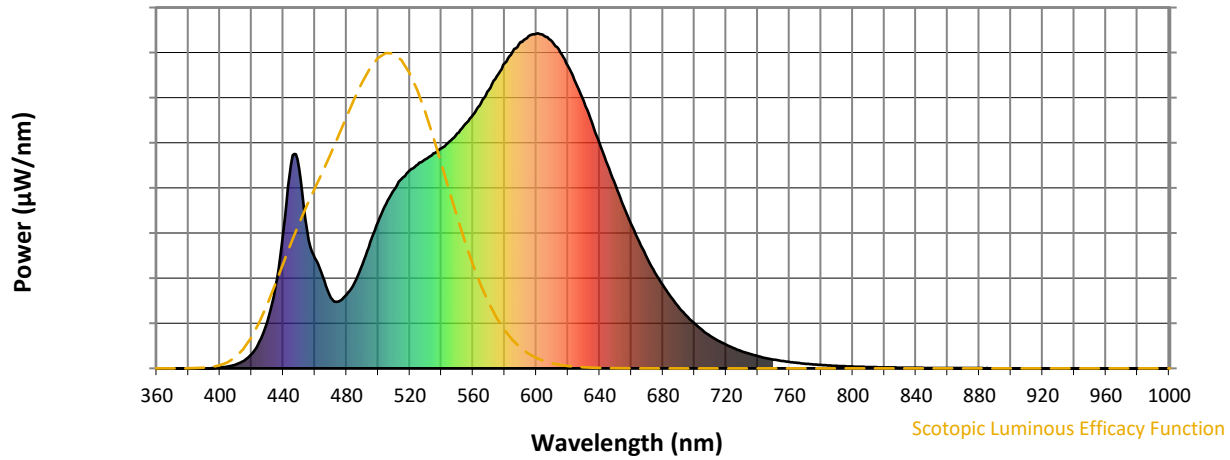


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



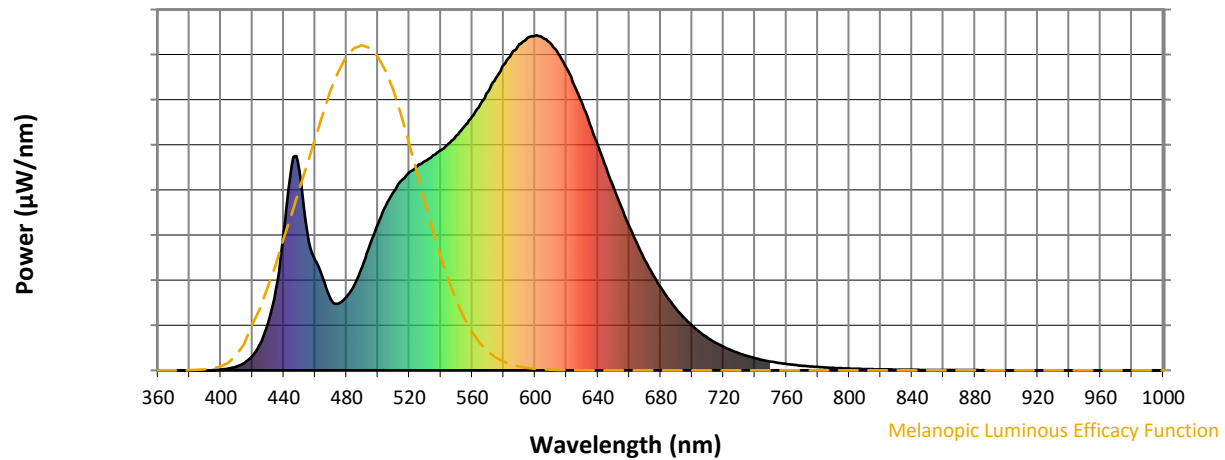
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

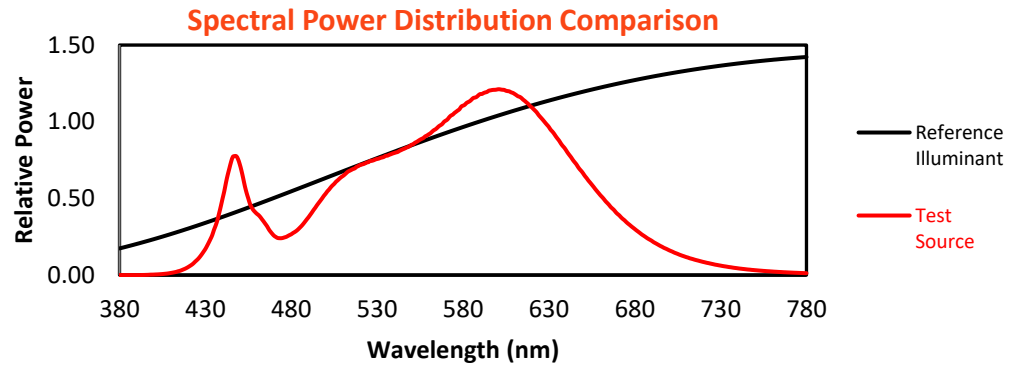
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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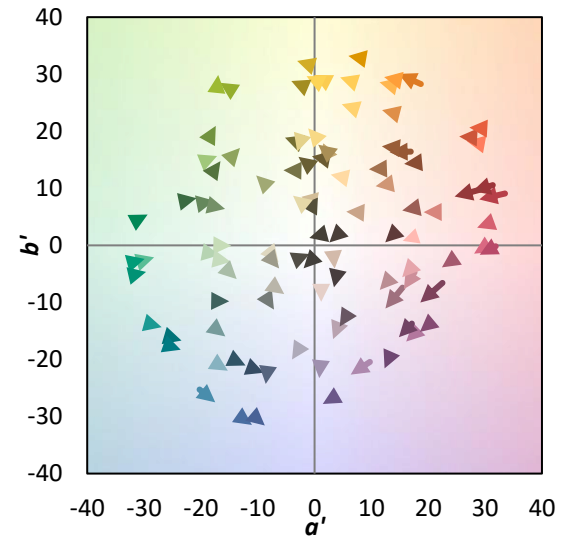
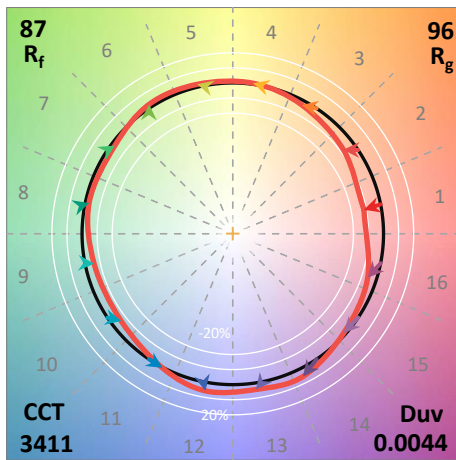
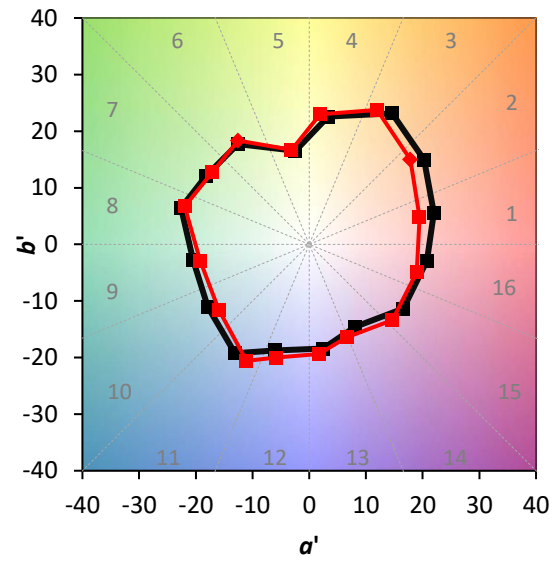
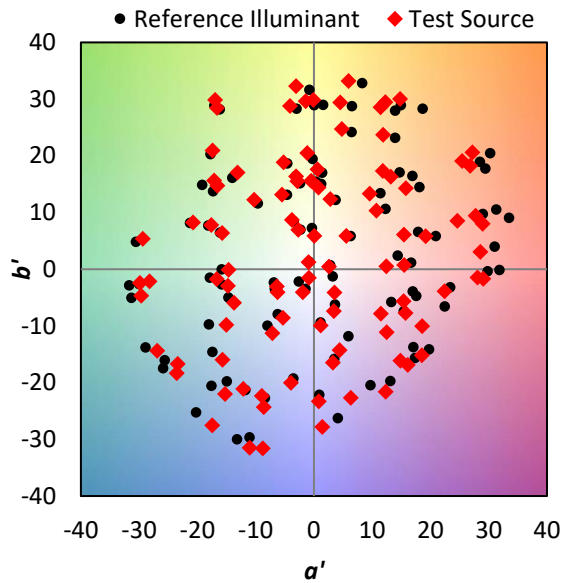
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

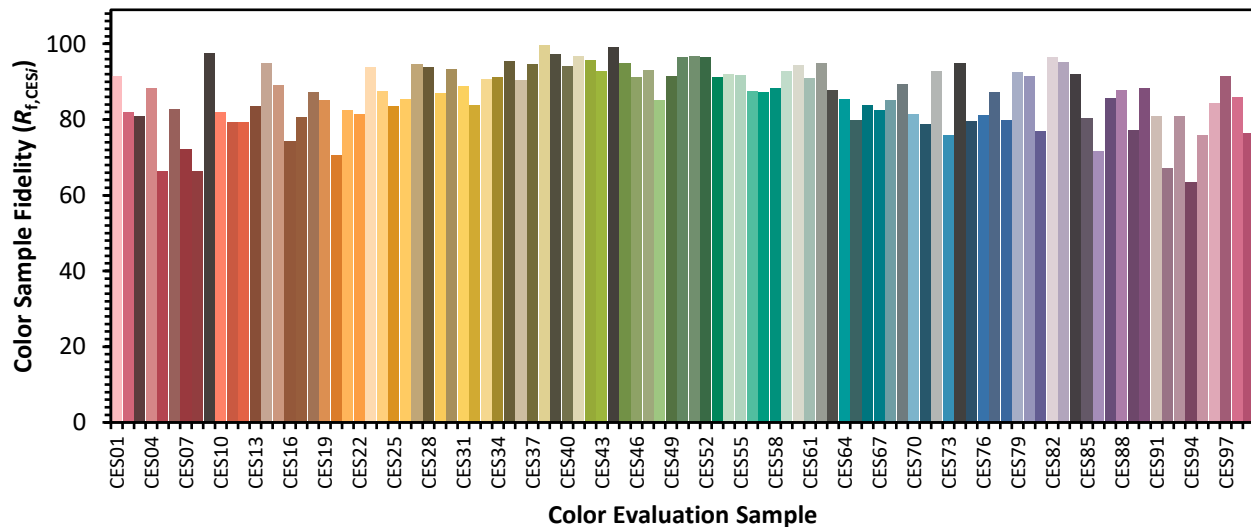


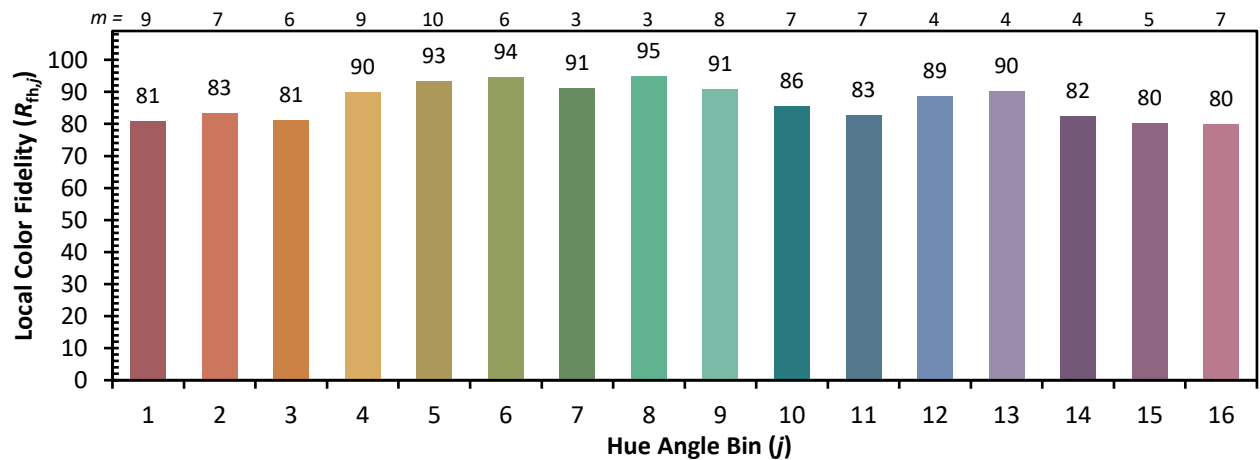
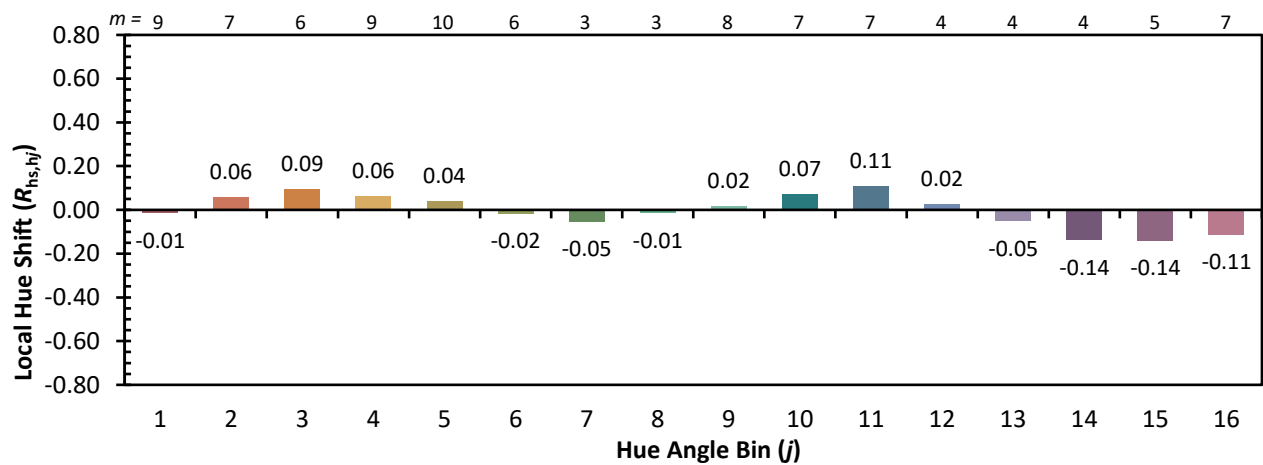
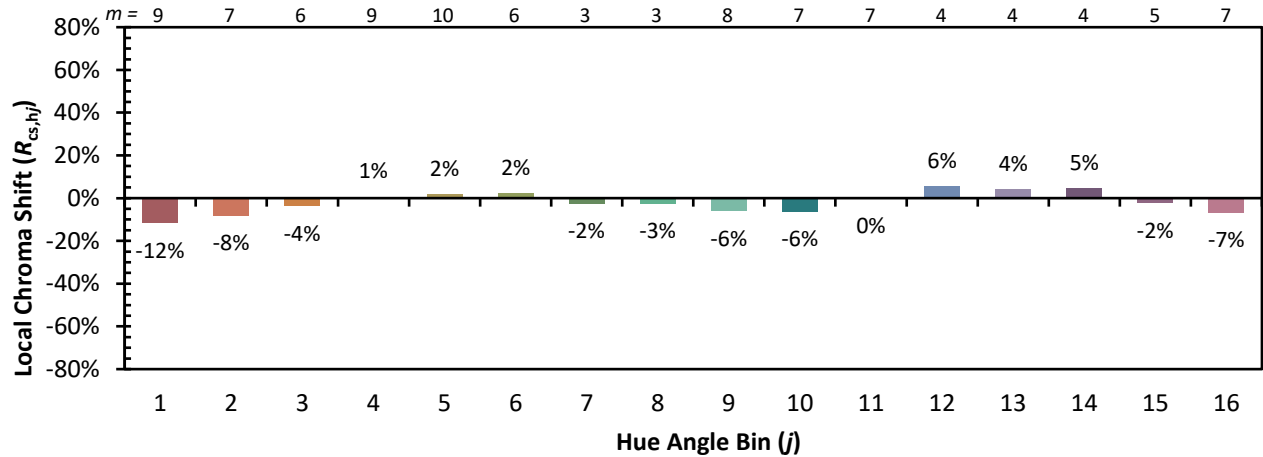
Color Vector Graphics



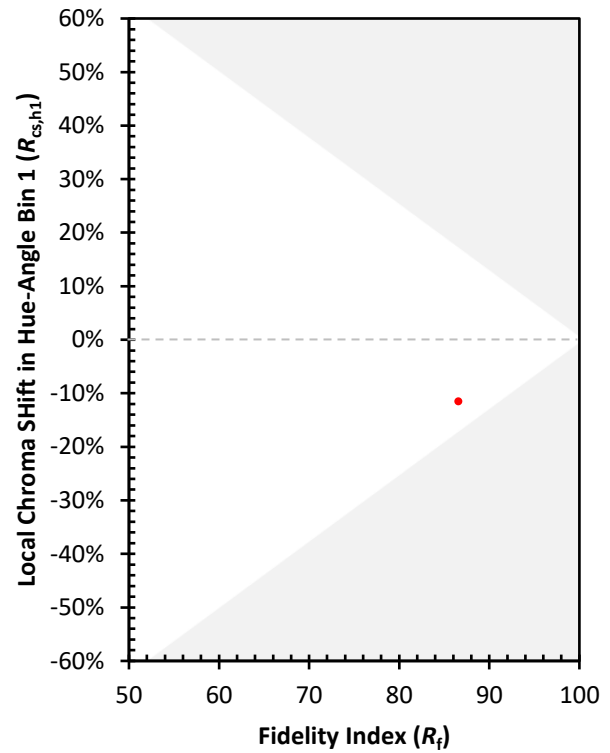
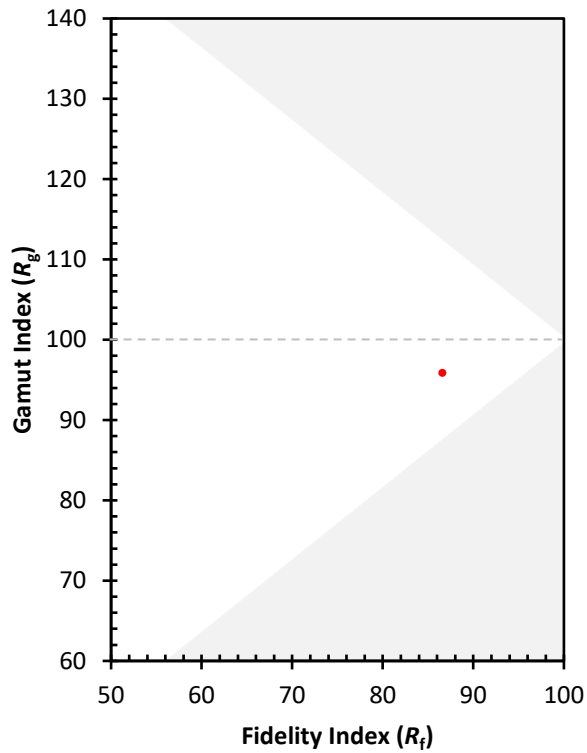
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)