

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: P1067584

Luminaire Tested: **NAV-SA1D-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067584
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1D-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 1xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5047.7 lumens
Efficiency: N/A
Efficacy: 89.3 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

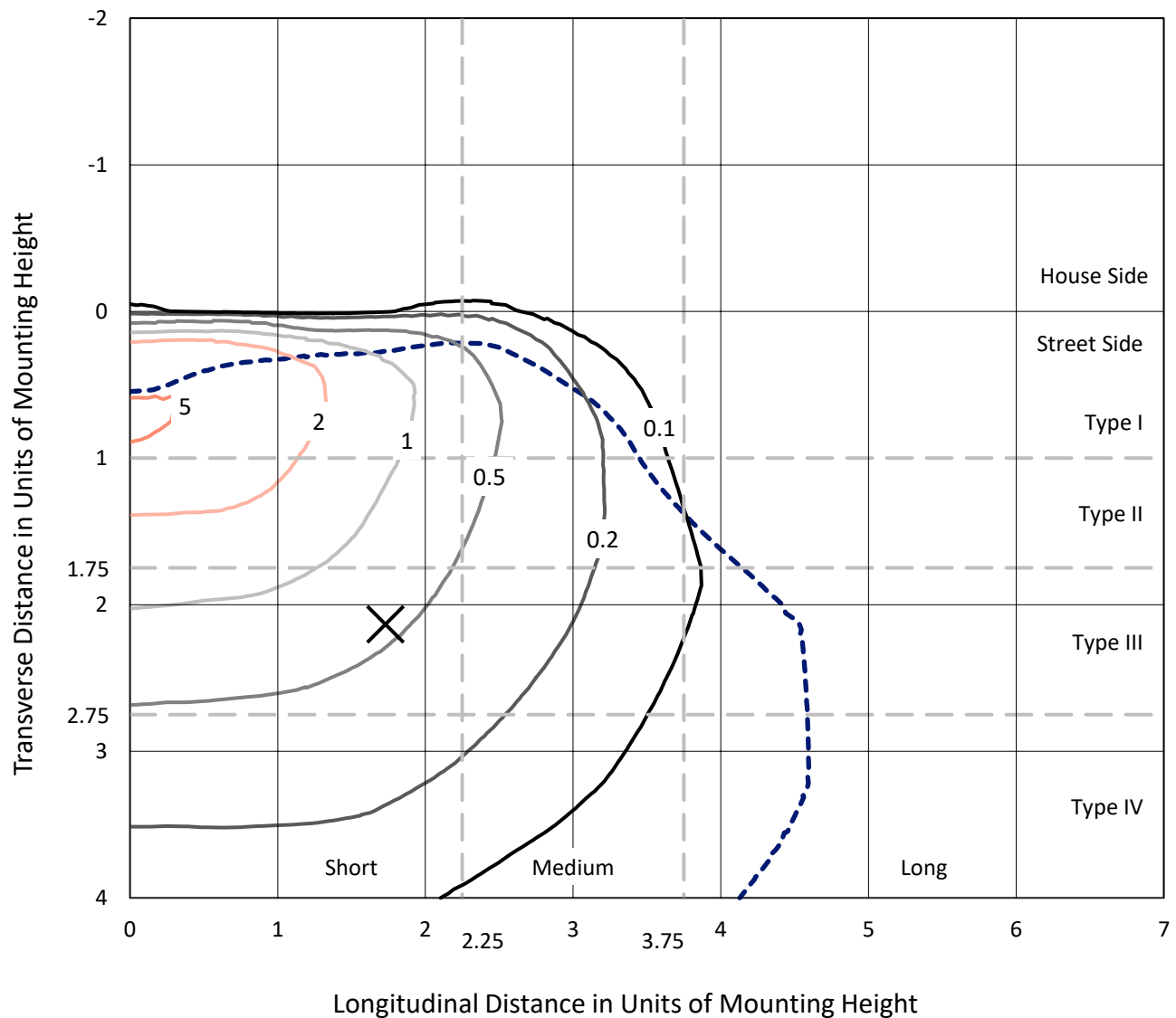


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

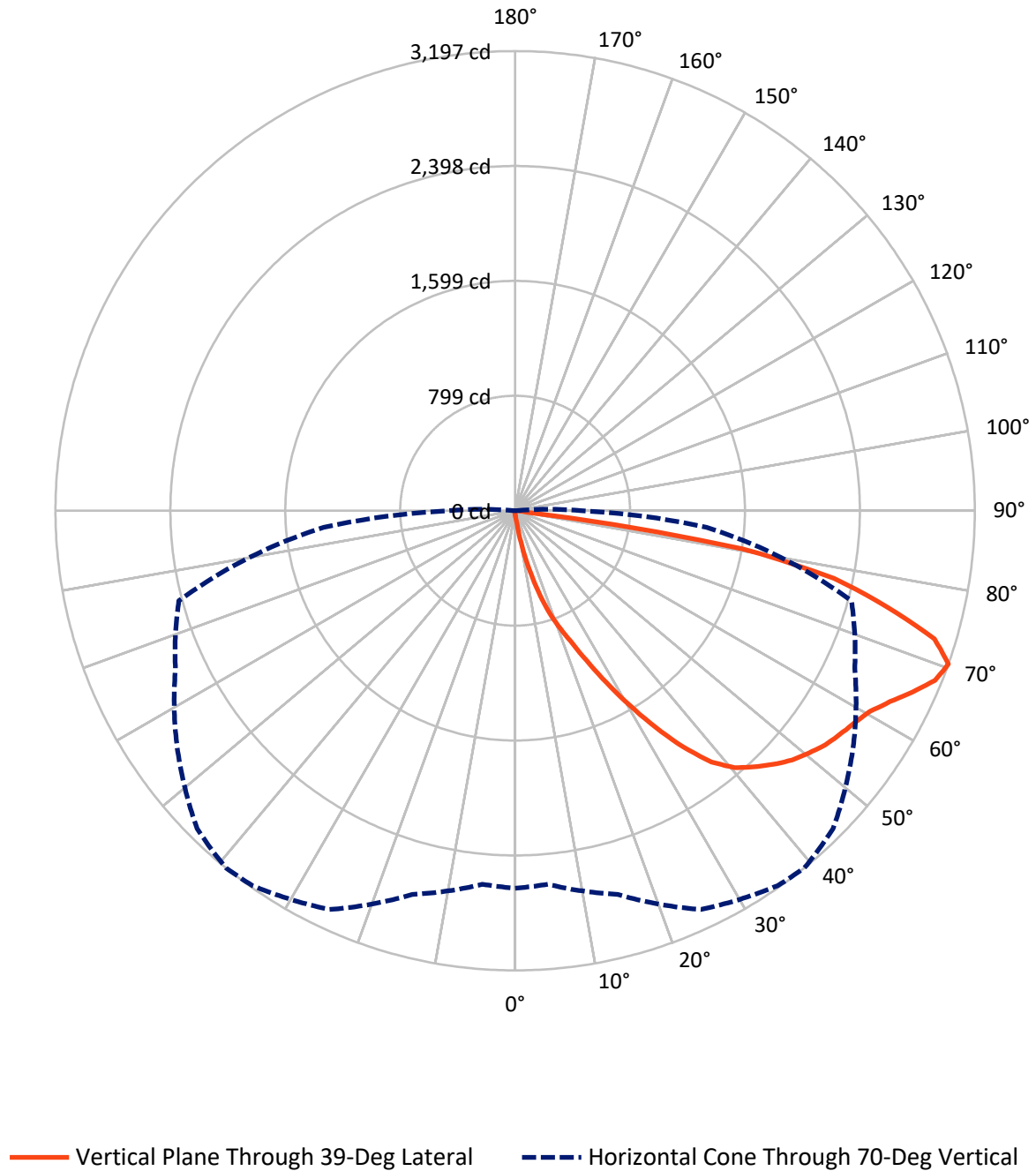


Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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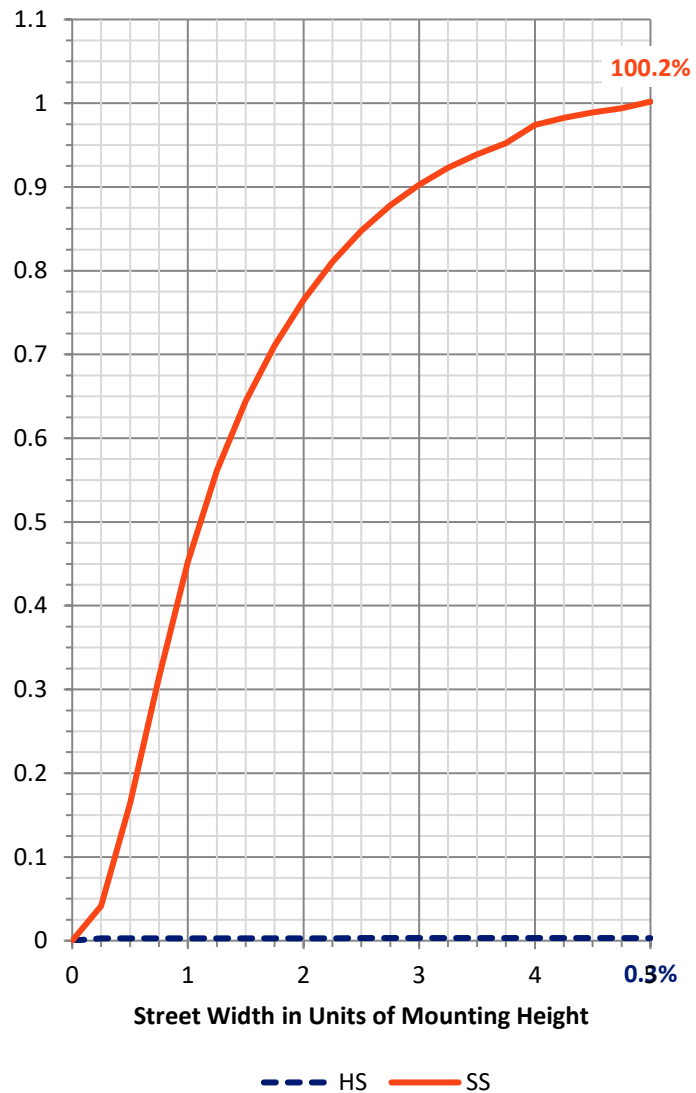
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15.5	0.0	15.5
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	5032.1	0.0	5032.1
	% Fixture	99.7	0.0	99.7
Total	Lumens	5047.7	0.0	5047.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	62.1	1.2
20°-30°	210.6	4.2
30°-40°	494.9	9.8
40°-50°	803.6	15.9
50°-60°	1018.4	20.2
60°-70°	1293.6	25.6
70°-80°	1051.0	20.8
80°-90°	108.2	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°	5047.7	100.0
0°-180°	5047.7	100.0



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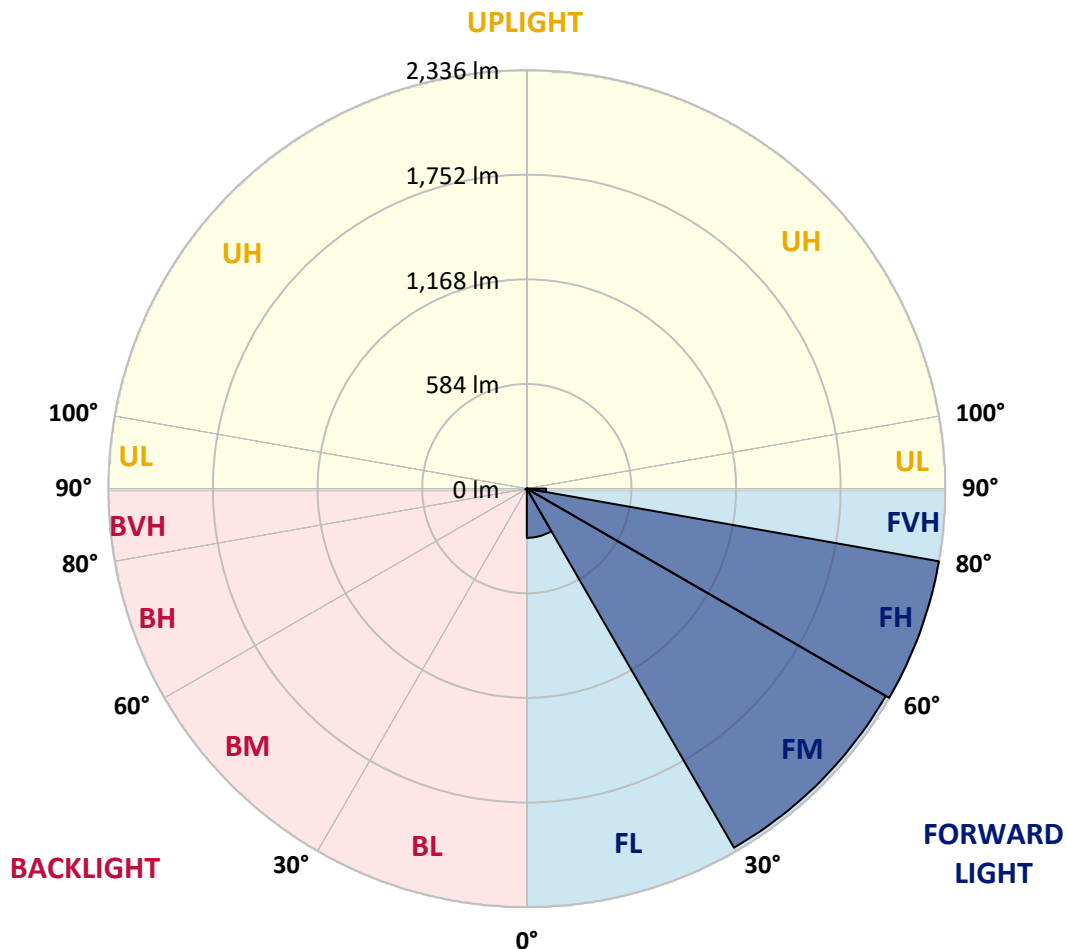
CATALOG NUMBER: NAV-SA1D-830-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.6	5.4			
FM	(30°-60°)	2313.9	45.8			
FH	(60°-80°)	2336.1	46.3			G2/5000
FVH	(80°-90°)	107.6	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



REPORT NUMBER: P1067584

CATALOG NUMBER: NAV-SA1D-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.5°	35.6	35.6	35.6	34.3	34.3	32.9	32.9	31.5	30.1	30.1	28.8
5°	67.2	68.5	64.4	56.2	50.7	48.0	45.2	38.4	34.3	31.5	28.8
7.5°	183.6	178.2	169.9	142.5	109.6	93.2	79.5	56.2	41.1	32.9	28.8
10°	386.5	371.4	348.1	311.1	246.7	220.6	171.3	102.8	57.6	37.0	28.8
12.5°	567.4	570.1	541.3	505.7	427.6	383.7	316.6	193.2	90.4	43.9	28.8
15°	704.4	701.7	690.7	661.9	592.0	549.5	489.2	324.8	152.1	54.8	30.1
17.5°	812.7	801.7	797.6	785.3	740.0	716.7	651.0	478.3	241.2	74.0	31.5
20°	920.9	918.2	914.1	900.4	870.2	853.8	803.1	633.1	359.1	105.5	34.3
22.5°	1078.5	1063.5	1066.2	1036.0	1011.4	982.6	941.5	797.6	494.7	150.7	38.4
25°	1263.5	1262.2	1240.2	1226.5	1185.4	1153.9	1099.1	956.6	645.5	217.9	42.5
27.5°	1481.4	1466.4	1456.8	1433.5	1391.0	1355.4	1280.0	1114.2	808.6	293.3	48.0
30°	1708.9	1708.9	1691.1	1655.5	1614.4	1570.5	1493.8	1280.0	970.3	389.2	54.8
32.5°	1974.8	1980.3	1936.4	1883.0	1829.5	1799.4	1699.3	1467.7	1125.1	498.8	63.0
35°	2232.4	2225.6	2152.9	2094.0	2054.3	2021.4	1936.4	1673.3	1300.5	626.3	74.0
37.5°	2479.1	2461.3	2340.7	2257.1	2239.3	2217.4	2132.4	1878.9	1474.6	767.4	87.7
40°	2655.9	2628.5	2503.8	2388.7	2362.6	2350.3	2284.5	2065.2	1658.2	925.0	105.5
42.5°	2732.6	2701.1	2614.8	2521.6	2464.0	2435.3	2377.7	2217.4	1841.9	1100.5	131.6
45°	2747.7	2723.0	2661.4	2639.4	2561.3	2517.5	2439.4	2325.6	2013.2	1274.5	167.2
47.5°	2692.9	2681.9	2644.9	2691.5	2651.8	2591.5	2496.9	2406.5	2165.3	1485.5	216.5
50°	2558.6	2550.4	2568.2	2690.2	2717.6	2649.0	2560.0	2469.5	2296.8	1703.4	286.4
52.5°	2377.7	2376.3	2459.9	2654.5	2746.3	2703.9	2621.6	2532.6	2401.0	1914.5	385.1
55°	2180.4	2203.7	2350.3	2621.6	2762.8	2743.6	2681.9	2588.7	2494.2	2110.5	544.1
57.5°	2163.9	2154.3	2295.5	2607.9	2772.4	2783.3	2742.2	2647.7	2573.7	2270.8	756.5
60°	2328.4	2306.4	2359.9	2636.7	2814.9	2834.0	2802.5	2692.9	2653.2	2396.9	1036.0
62.5°	2518.8	2498.3	2525.7	2747.7	2898.5	2925.9	2886.1	2739.5	2717.6	2484.6	1336.2
65°	2671.0	2654.5	2706.6	2913.5	3014.9	3038.2	3010.8	2825.8	2746.3	2555.9	1580.1
67.5°	2695.6	2675.1	2783.3	3024.5	3132.8	3149.2	3127.3	2909.4	2736.7	2561.3	1636.3
70°	2625.7	2607.9	2762.8	3060.2	3183.5	3197.2	3127.3	2869.7	2606.6	2421.5	1337.5
72.5°	2410.6	2424.3	2624.4	2973.8	3113.6	3050.6	2902.6	2669.6	2438.0	2052.9	938.7
75°	2076.2	2091.3	2357.1	2736.7	2747.7	2671.0	2591.5	2455.8	2181.7	1352.6	651.0
77.5°	1476.0	1422.5	1819.9	2259.8	2220.1	2269.4	2276.3	2043.3	1826.8	704.4	435.8
80°	145.3	123.3	228.9	648.2	1432.1	1600.7	1666.4	1574.6	1347.1	315.2	228.9
82.5°	31.5	31.5	34.3	37.0	57.6	86.3	396.1	970.3	870.2	160.3	74.0
85°	17.8	17.8	21.9	26.0	34.3	38.4	45.2	60.3	234.3	57.6	13.7
87.5°	13.7	15.1	17.8	21.9	28.8	31.5	38.4	48.0	58.9	53.4	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



REPORT NUMBER: P1067584

CATALOG NUMBER: NAV-SA1D-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.5°	28.8	27.4	26.0	24.7	23.3	23.3	21.9	21.9	21.9	21.9	21.9
5°	27.4	26.0	24.7	21.9	20.6	19.2	17.8	17.8	17.8	17.8	17.8
7.5°	27.4	26.0	23.3	20.6	17.8	16.4	15.1	13.7	13.7	15.1	15.1
10°	27.4	24.7	20.6	17.8	15.1	13.7	12.3	11.0	11.0	11.0	11.0
12.5°	26.0	23.3	19.2	16.4	13.7	11.0	8.2	6.9	6.9	6.9	6.9
15°	24.7	21.9	17.8	13.7	9.6	6.9	5.5	4.1	4.1	4.1	4.1
17.5°	24.7	20.6	16.4	12.3	6.9	4.1	2.7	1.4	1.4	1.4	2.7
20°	24.7	20.6	15.1	9.6	4.1	2.7	2.7	1.4	0.0	1.4	1.4
22.5°	24.7	19.2	12.3	6.9	4.1	2.7	1.4	0.0	0.0	0.0	0.0
25°	26.0	19.2	11.0	5.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
27.5°	26.0	17.8	9.6	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
30°	27.4	17.8	8.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	27.4	16.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	27.4	15.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	27.4	13.7	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	28.8	12.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	30.1	11.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	31.5	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	35.6	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.1	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	49.3	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	64.4	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	93.2	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	156.2	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	274.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	463.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	604.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	459.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	219.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	97.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.5	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°	6.9	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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

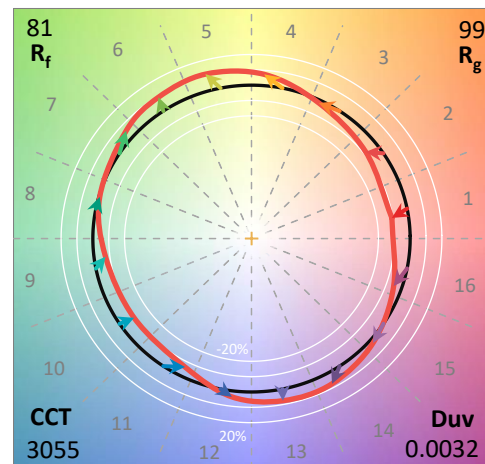
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

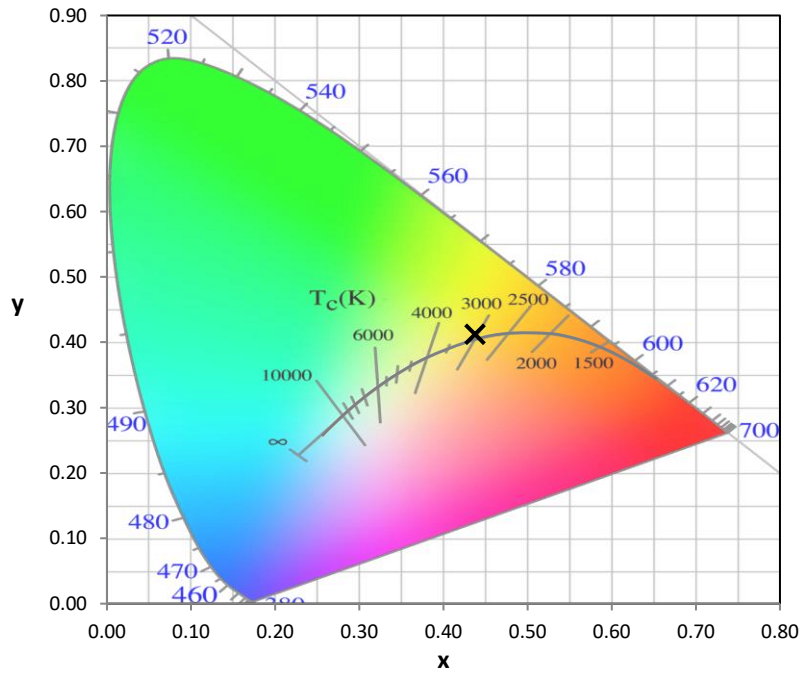
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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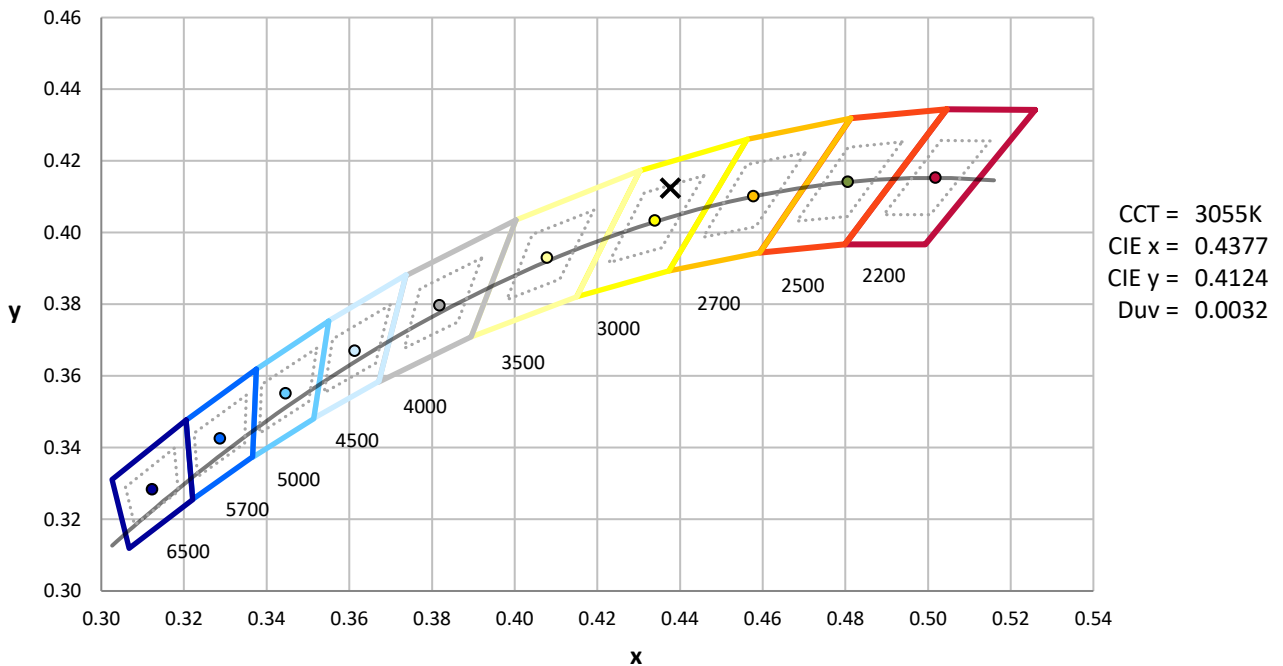
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



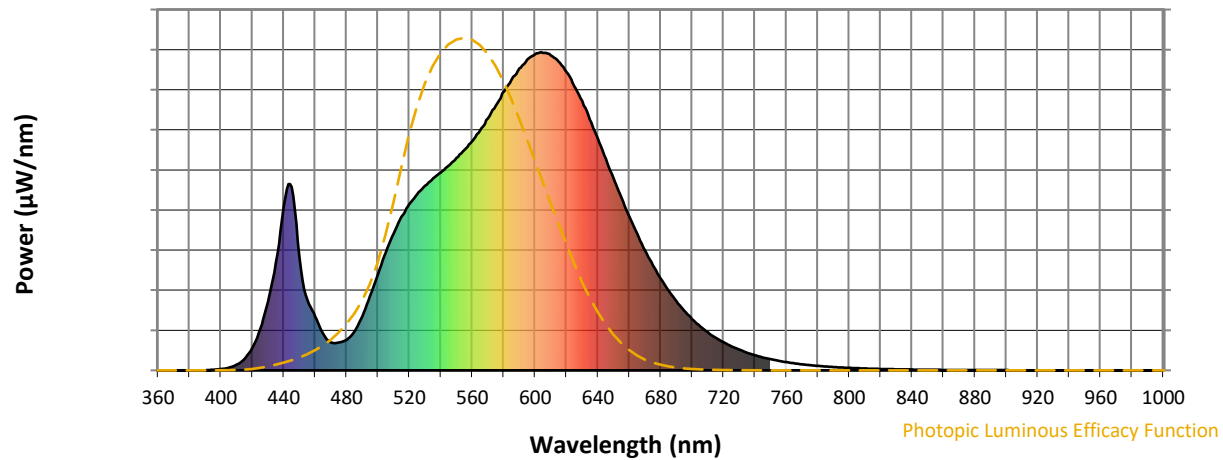
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

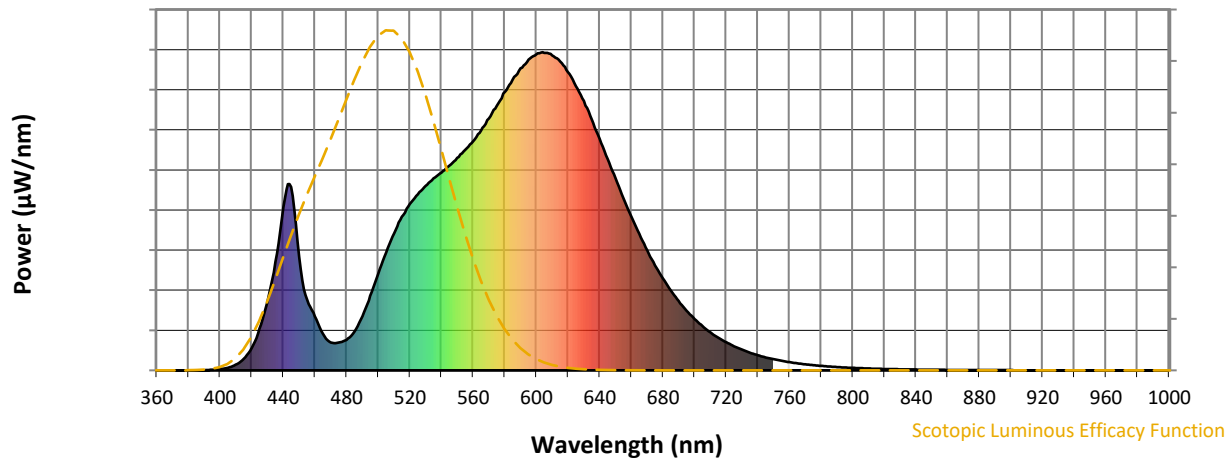


Photopic Lumens: NR

λ (nm)	Power W ^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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



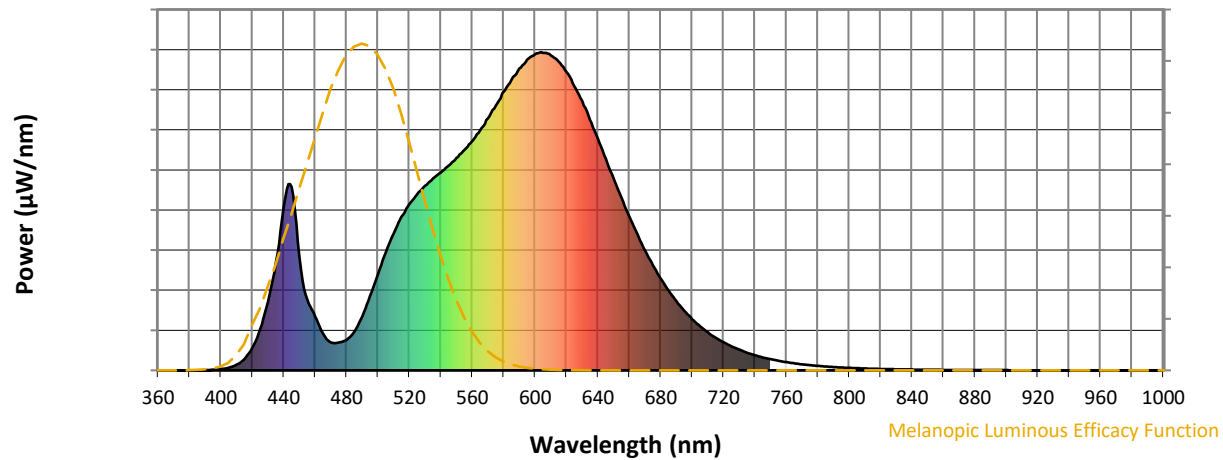
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

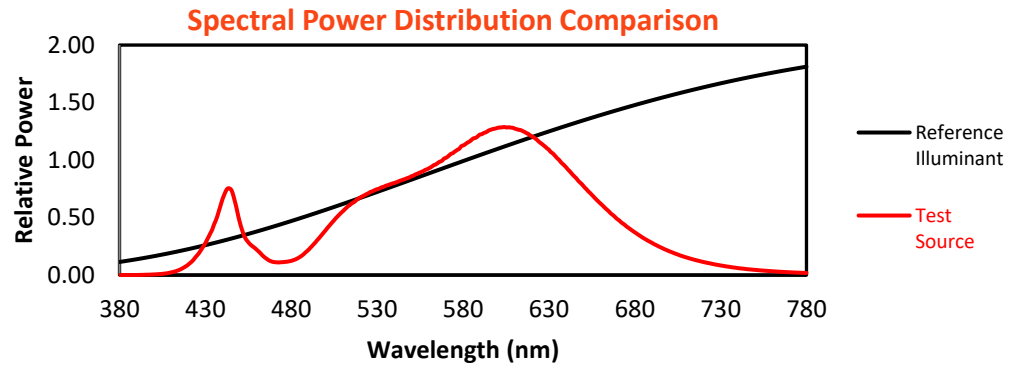
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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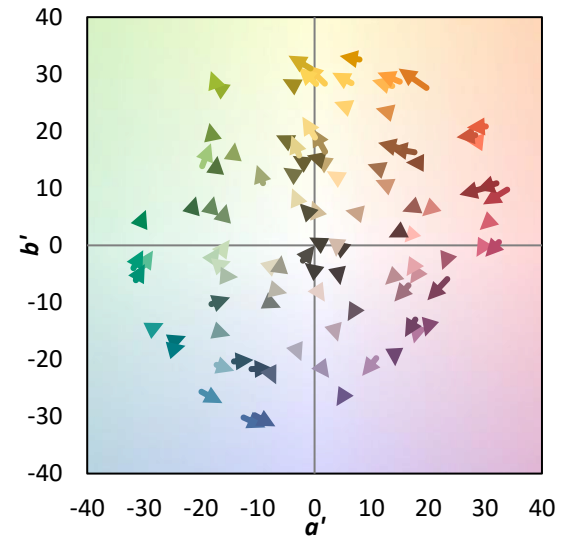
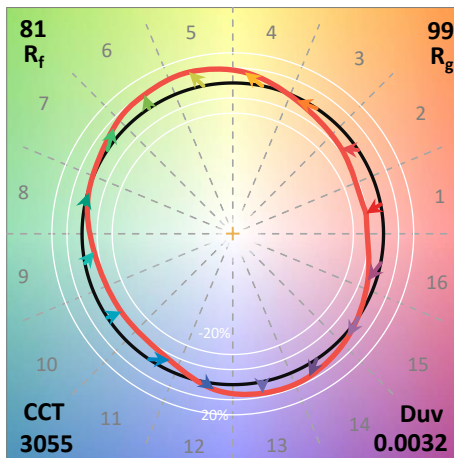
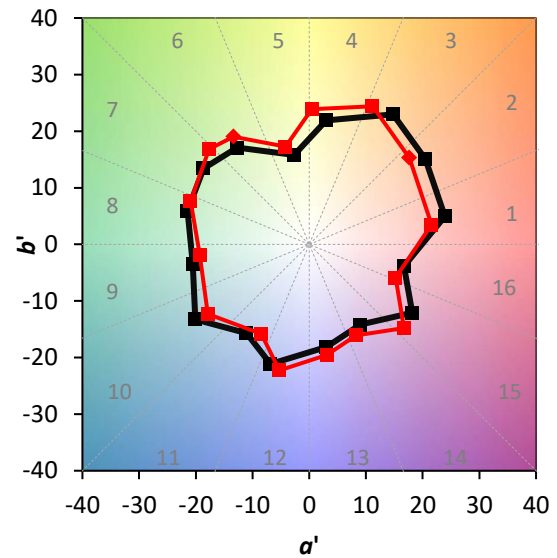
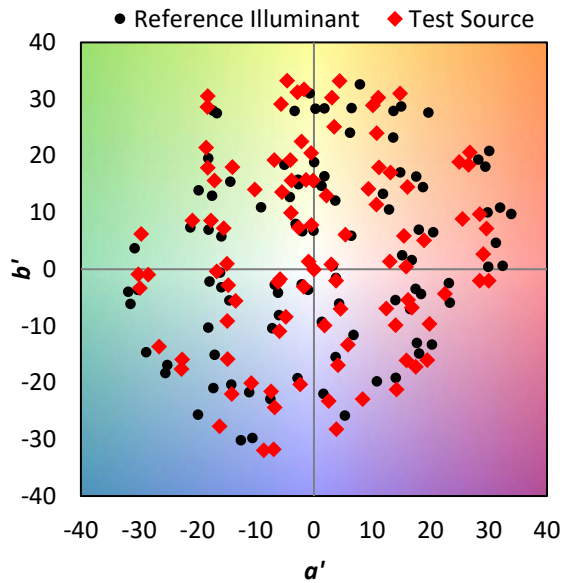
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_g = 6.8$

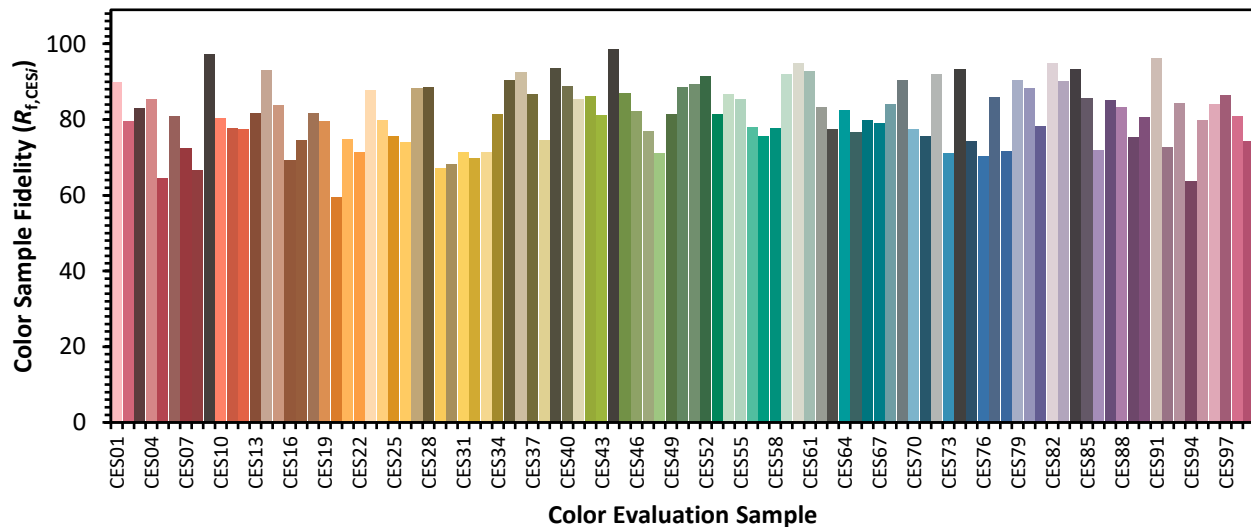


Color Vector Graphics

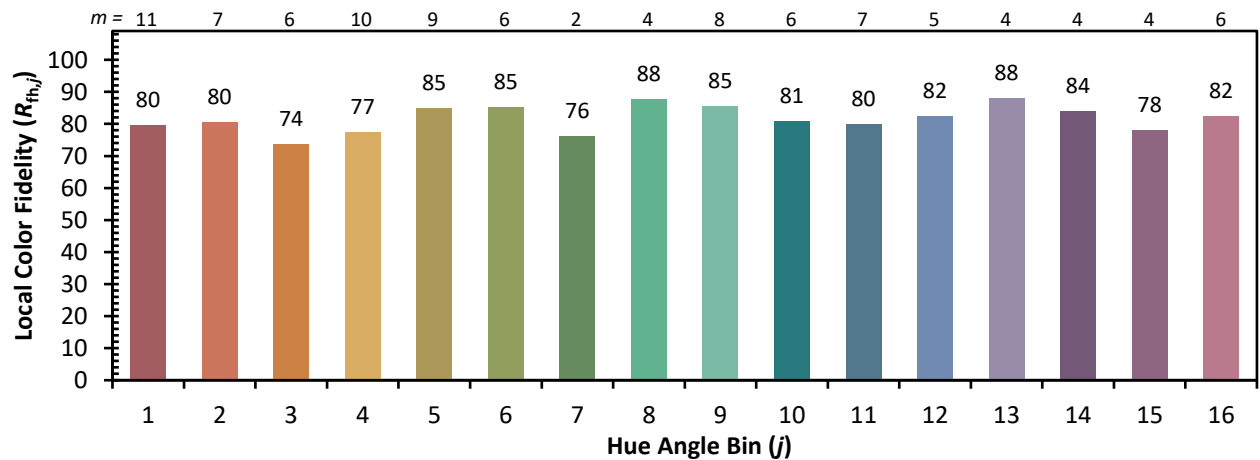
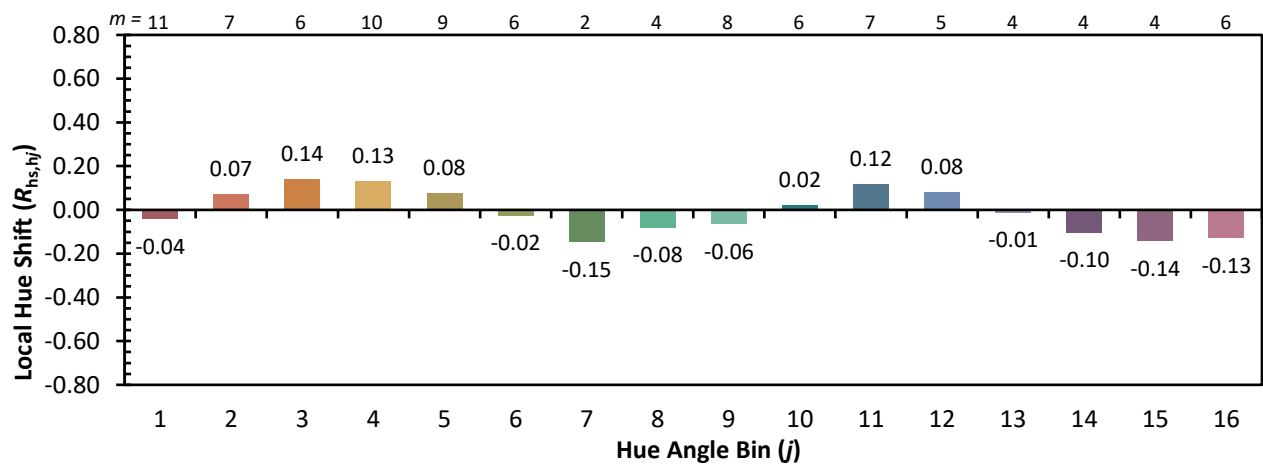
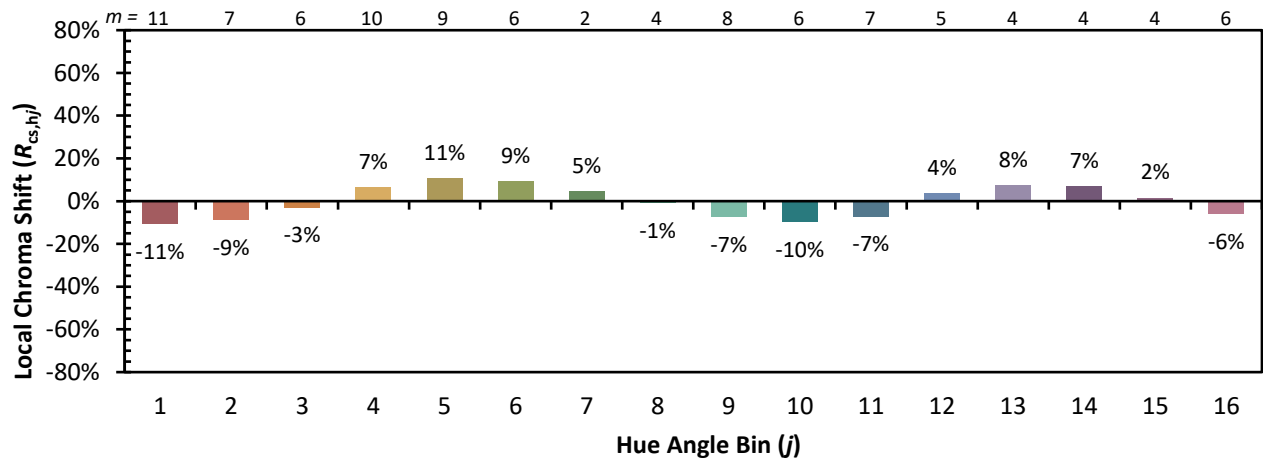


Individual Sample Fidelity Index ($R_{f,i}$)

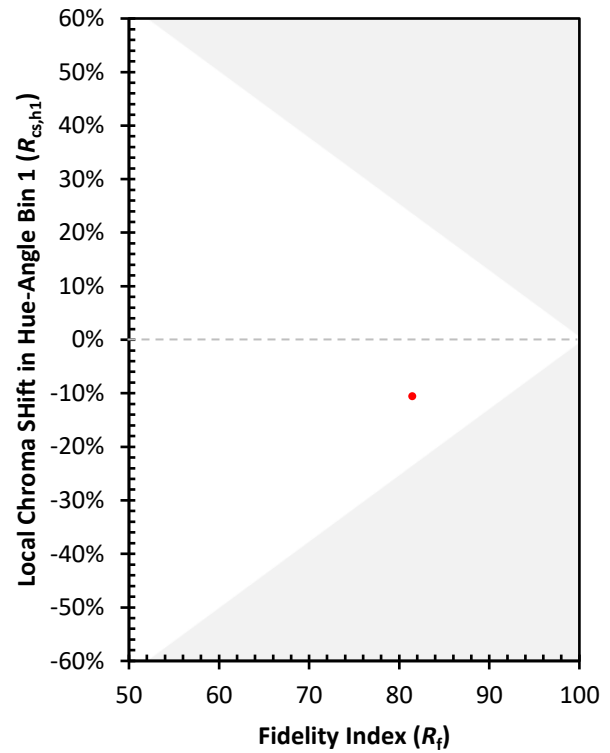
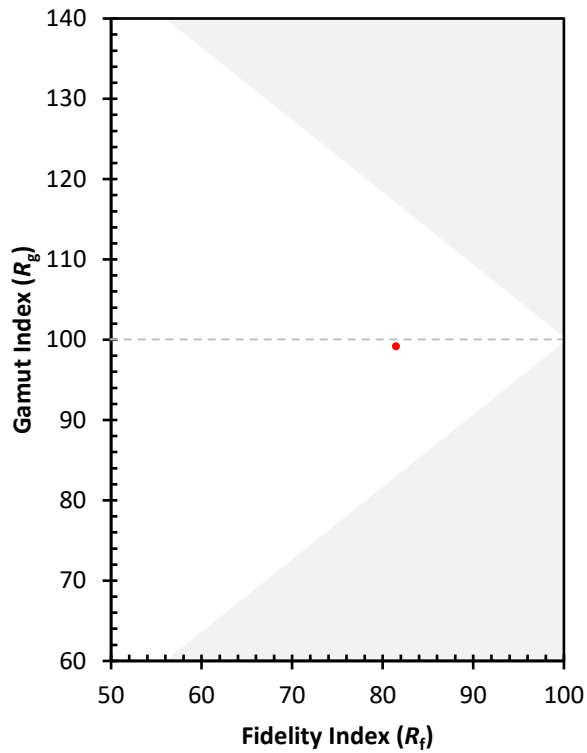
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)