

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: P1067345

Luminaire Tested: **NAV-SA2A-830-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067345
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2A-830-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5639 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 55.3
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



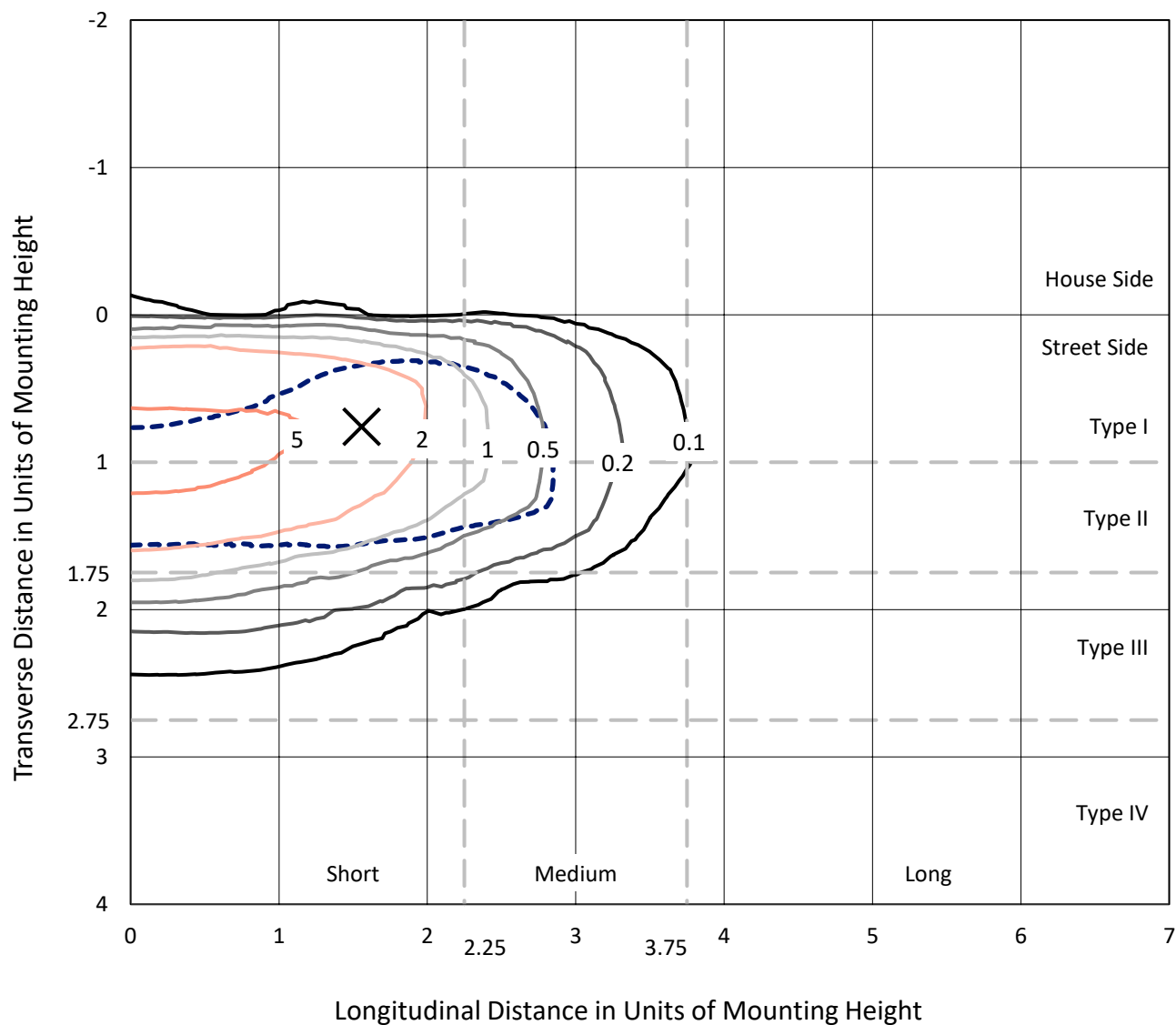
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CATALOG NUMBER: NAV-SA2A-830-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

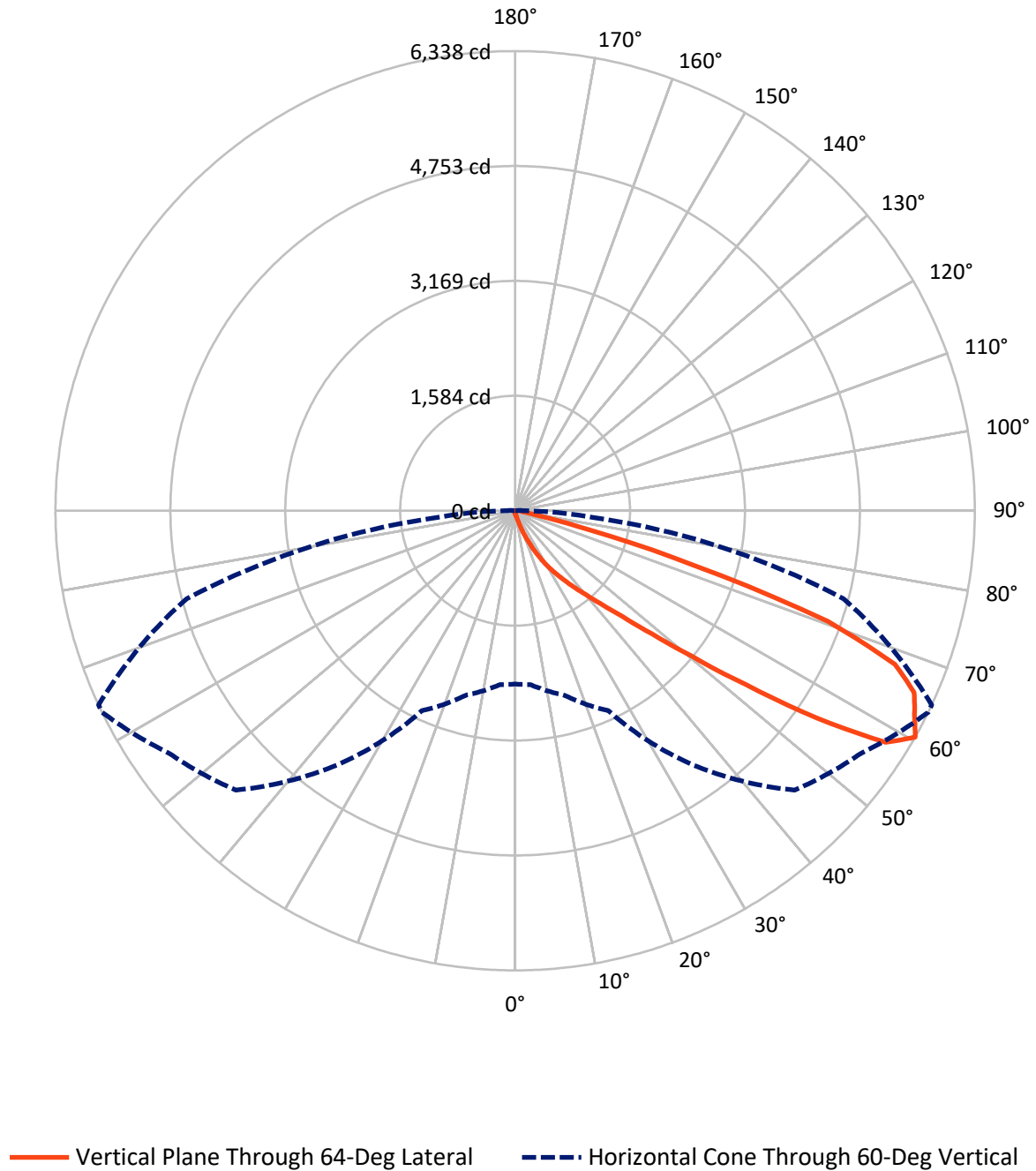


Based on 15 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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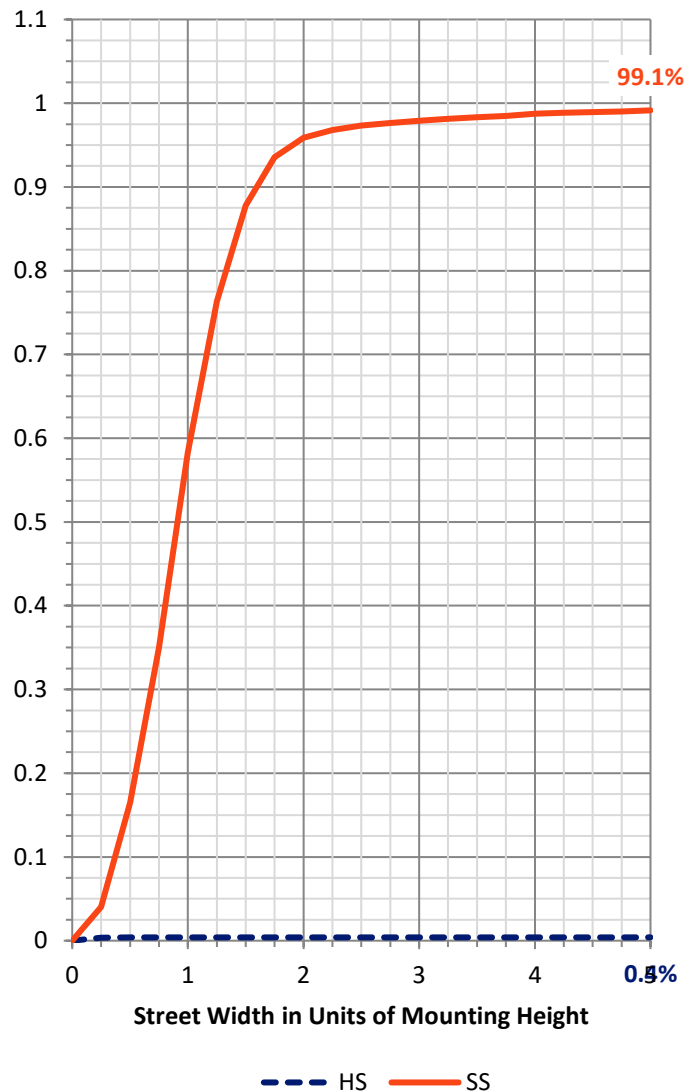
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.9	0.0	22.9
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	5616.1	0.0	5616.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	5639.0	0.0	5639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	55.4	1.0
20°-30°	184.0	3.3
30°-40°	491.1	8.7
40°-50°	1248.2	22.1
50°-60°	1819.6	32.3
60°-70°	1405.5	24.9
70°-80°	386.0	6.8
80°-90°	43.6	0.8
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°	5639.0	100.0
0°-180°	5639.0	100.0



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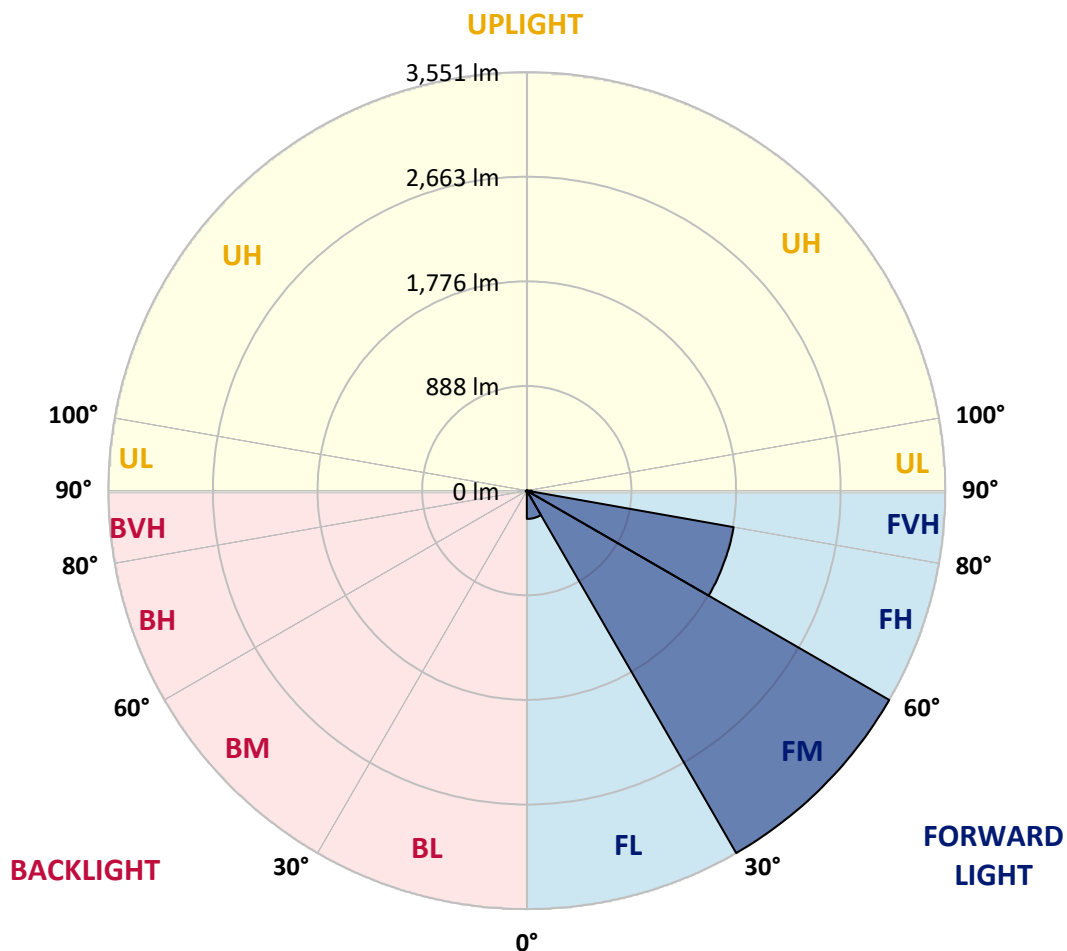
CATALOG NUMBER: NAV-SA2A-830-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.9	4.3			
FM	(30°-60°)	3551.3	63.0			
FH	(60°-80°)	1782.3	31.6			G1/1800
FVH	(80°-90°)	42.5	0.8			G1/100
BL	(0°-30°)	5.1	0.1	B0/110		
BM	(30°-60°)	7.6	0.1	B0/220		
BH	(60°-80°)	9.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	49.7	49.7	49.7	48.1	46.6	46.6	45.0	43.5	43.5	40.4	38.8
5°	76.1	76.1	73.0	69.8	65.2	59.0	52.8	48.1	48.1	43.5	40.4
7.5°	149.0	153.7	139.7	122.6	99.3	83.8	66.7	55.9	54.3	46.6	40.4
10°	322.9	319.8	298.0	256.1	201.8	145.9	93.1	68.3	65.2	49.7	40.4
12.5°	485.8	490.5	467.2	420.6	355.5	259.2	159.9	88.5	85.4	54.3	40.4
15°	625.5	625.5	610.0	586.7	515.3	414.4	257.7	131.9	121.1	59.0	38.8
17.5°	721.8	720.2	714.0	707.8	665.9	561.9	394.3	211.1	186.3	69.8	38.8
20°	830.4	825.8	833.5	821.1	788.5	706.2	538.6	313.5	290.3	88.5	38.8
22.5°	943.7	948.4	954.6	942.2	906.5	835.1	690.7	445.5	420.6	122.6	40.4
25°	1088.1	1085.0	1099.0	1088.1	1043.1	959.3	833.5	589.8	554.1	170.7	43.5
27.5°	1265.0	1258.8	1268.1	1240.2	1181.2	1095.9	960.8	737.3	695.4	245.2	49.7
30°	1499.4	1504.1	1462.2	1429.6	1345.8	1232.4	1102.1	895.6	852.2	333.7	55.9
32.5°	1868.8	1836.2	1771.1	1639.1	1528.9	1384.6	1243.3	1033.8	995.0	447.0	65.2
35°	2444.7	2450.9	2308.1	1982.2	1743.1	1575.5	1398.5	1185.9	1157.9	575.9	77.6
37.5°	3146.3	3129.2	3003.5	2592.2	2056.7	1813.0	1575.5	1352.0	1311.6	715.6	93.1
40°	3941.0	3869.6	3796.7	3517.3	2710.1	2111.0	1799.0	1544.4	1513.4	877.0	118.0
42.5°	4577.4	4558.8	4571.2	4454.8	3799.8	2618.6	2095.5	1780.4	1743.1	1077.2	161.4
45°	4891.0	4864.6	4939.1	5026.0	4858.4	3698.9	2573.5	2081.5	2031.8	1313.2	228.2
47.5°	4807.2	4788.5	4948.4	5119.1	5342.7	4951.5	3354.3	2531.6	2446.3	1615.8	327.5
50°	4394.3	4395.8	4658.1	4976.3	5330.2	5586.4	4510.7	3147.9	3040.8	2017.9	482.7
52.5°	3992.2	4004.7	4282.5	4746.6	5145.5	5660.9	5525.8	3978.3	3804.4	2491.3	665.9
55°	3579.4	3585.6	3830.8	4484.3	5058.6	5438.9	6047.4	5047.7	4863.0	3081.1	844.4
57.5°	3182.0	3182.0	3273.6	3854.1	4963.9	5418.7	5985.3	6025.6	5875.1	3754.8	976.3
60°	2390.4	2405.9	2634.1	3040.8	4281.0	5448.2	5826.9	6337.6	6337.6	4689.2	1077.2
62.5°	1207.6	1230.9	1514.9	1910.8	2936.8	5041.5	5851.8	6180.8	6205.7	5513.4	1306.9
65°	566.6	592.9	745.1	1024.4	1580.1	3548.3	5594.1	6047.4	6039.6	5356.6	1791.2
67.5°	406.7	414.4	465.7	597.6	850.6	1555.3	4270.1	5648.4	5651.5	4551.0	2059.8
70°	364.8	364.8	377.2	416.0	512.2	695.4	2075.3	4574.3	4796.3	3514.2	1909.2
72.5°	360.1	357.0	353.9	355.5	346.1	349.2	712.5	2582.9	2899.5	2458.7	1522.7
75°	350.8	350.8	347.7	336.8	276.3	225.1	245.2	1044.6	1207.6	1642.2	1130.0
77.5°	277.8	305.8	338.4	318.2	253.0	169.2	142.8	302.7	381.8	1007.4	819.6
80°	128.8	130.4	128.8	135.0	161.4	121.1	105.5	147.5	149.0	558.8	507.6
82.5°	93.1	94.7	90.0	80.7	71.4	65.2	86.9	108.7	116.4	256.1	189.4
85°	27.9	26.4	31.0	41.9	49.7	57.4	73.0	91.6	96.2	94.7	27.9
87.5°	12.4	12.4	15.5	21.7	29.5	43.5	63.6	83.8	85.4	97.8	7.8
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-SA2A-830-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	38.8	37.3	35.7	34.1	32.6	31.0	29.5	29.5	31.0	31.0	31.0
5°	37.3	35.7	32.6	29.5	27.9	26.4	24.8	24.8	26.4	26.4	26.4
7.5°	37.3	34.1	31.0	27.9	24.8	23.3	21.7	21.7	21.7	23.3	23.3
10°	37.3	34.1	29.5	24.8	21.7	20.2	18.6	17.1	18.6	18.6	18.6
12.5°	35.7	32.6	27.9	23.3	18.6	15.5	14.0	14.0	14.0	14.0	14.0
15°	34.1	31.0	26.4	20.2	15.5	12.4	9.3	9.3	9.3	10.9	10.9
17.5°	32.6	29.5	23.3	15.5	10.9	7.8	6.2	6.2	6.2	7.8	7.8
20°	32.6	27.9	20.2	12.4	7.8	4.7	3.1	3.1	3.1	4.7	6.2
22.5°	32.6	27.9	18.6	9.3	4.7	3.1	1.6	1.6	1.6	1.6	1.6
25°	32.6	26.4	17.1	7.8	3.1	1.6	0.0	0.0	1.6	3.1	4.7
27.5°	32.6	24.8	14.0	4.7	3.1	1.6	0.0	1.6	3.1	3.1	3.1
30°	32.6	24.8	12.4	4.7	1.6	0.0	0.0	1.6	3.1	3.1	4.7
32.5°	34.1	23.3	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	35.7	21.7	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	38.8	21.7	6.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	43.5	23.3	6.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	54.3	24.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	76.1	31.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	111.8	46.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	163.0	63.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	200.2	63.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	198.7	40.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	152.1	27.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	128.8	20.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	155.2	15.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	276.3	14.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	443.9	14.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	496.7	14.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	388.0	12.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	212.7	10.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	107.1	7.8	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.0	6.2	3.1	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	6.2	3.1	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	7.8	4.7	4.7	3.1	3.1	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	4.7	3.1	3.1	1.6	1.6	0.0	0.0	0.0	1.6
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

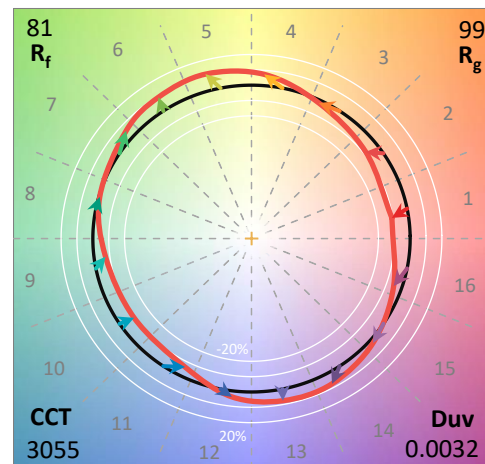
Test Information

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

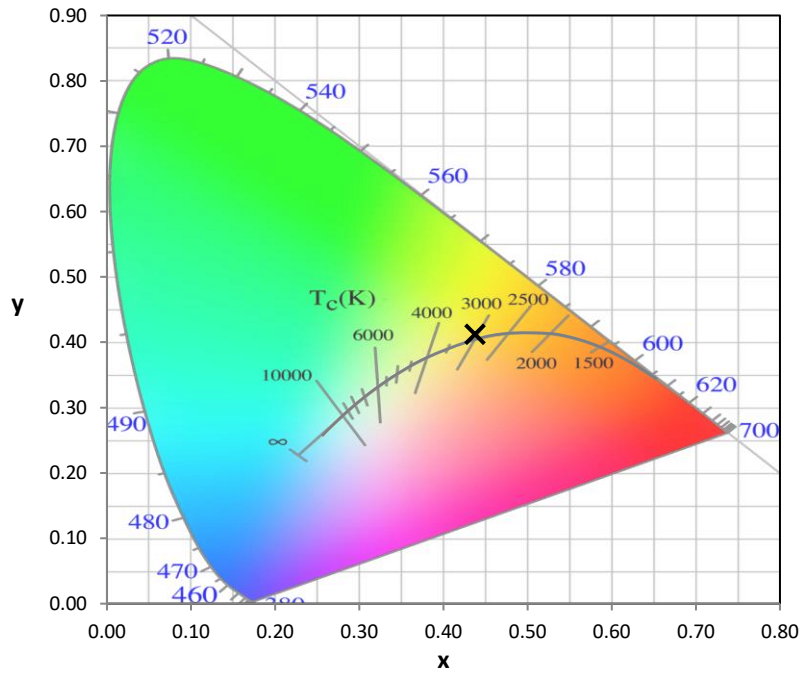
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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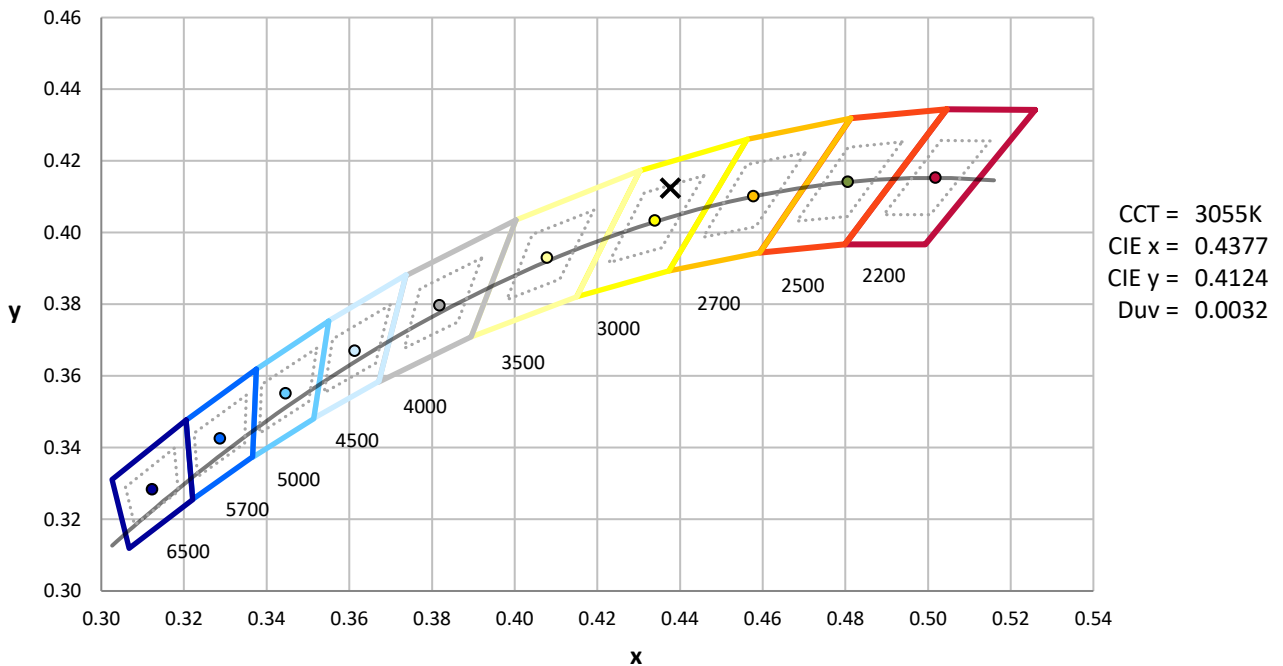
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



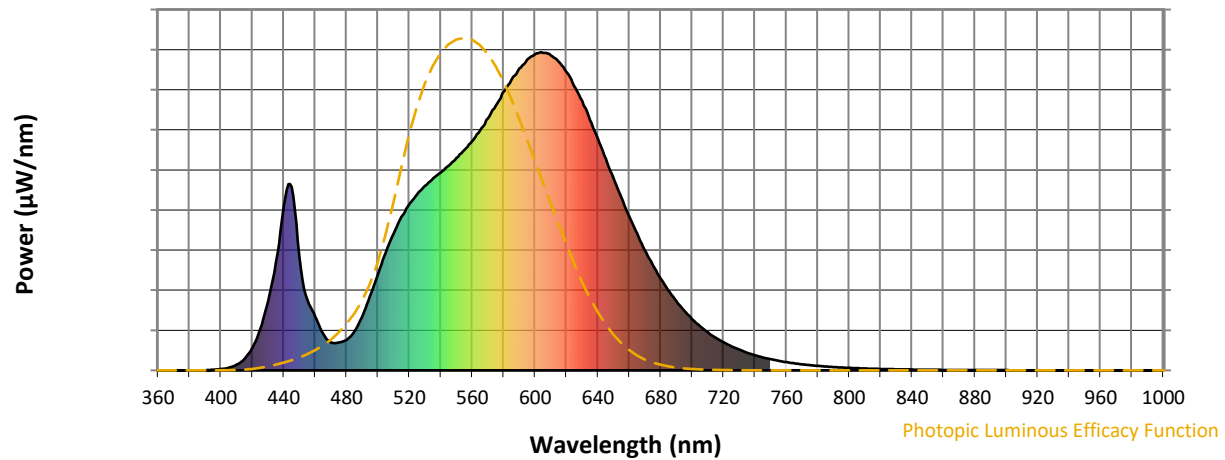
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

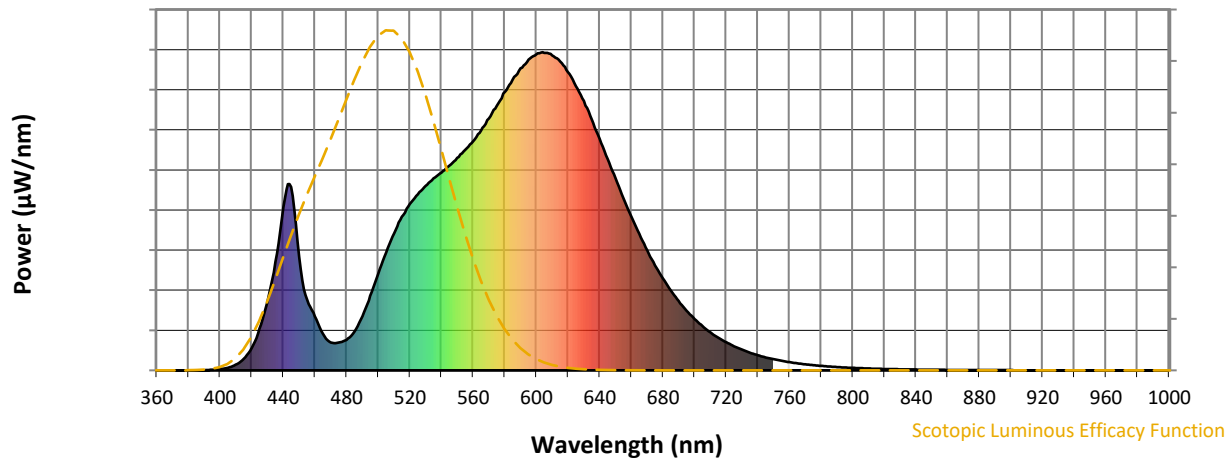


Photopic Lumens: NR

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



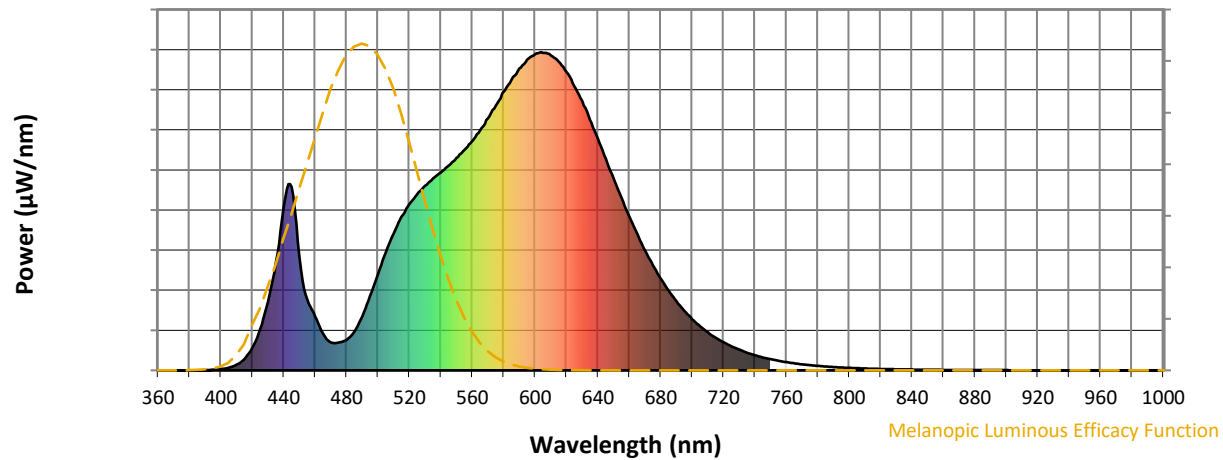
Scotopic Lumens: NR

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

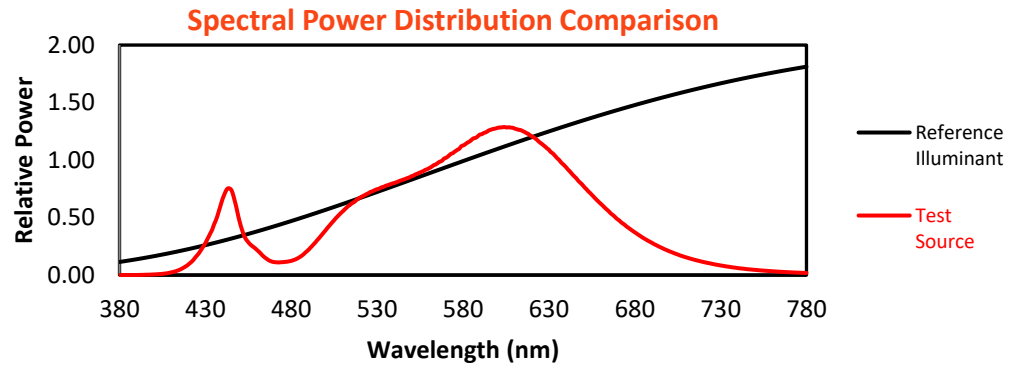
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	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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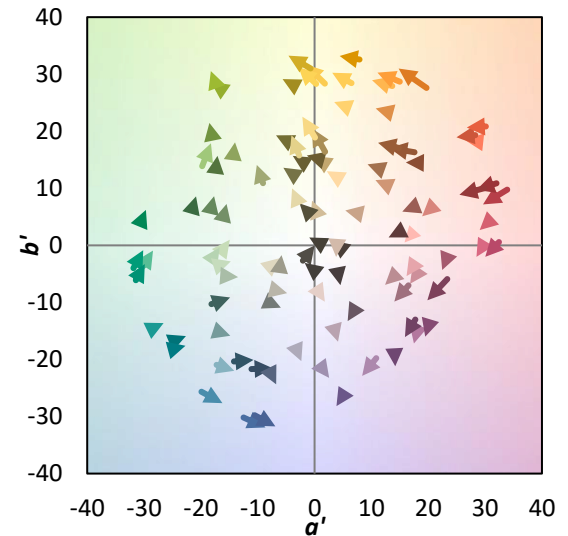
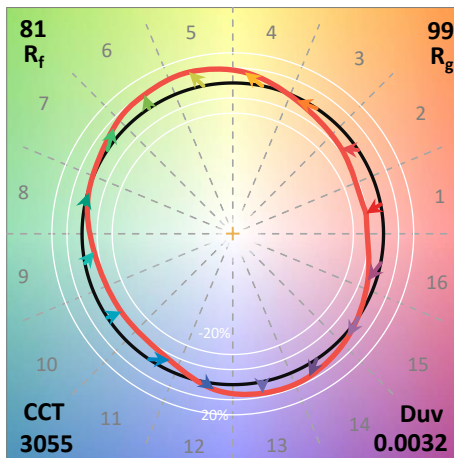
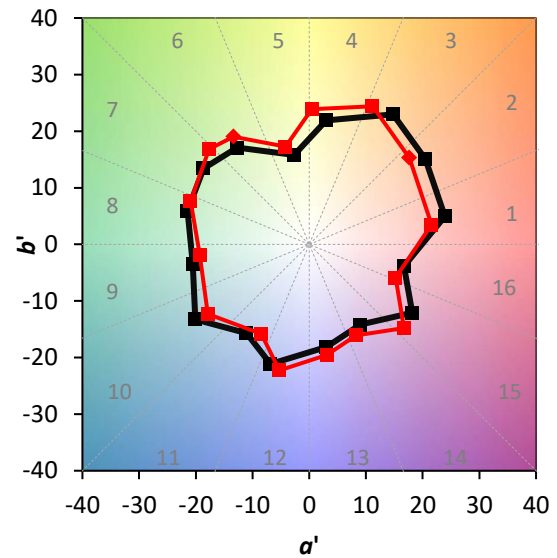
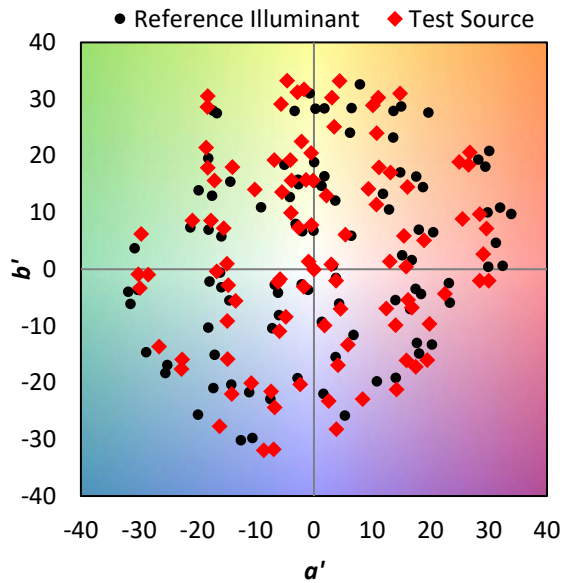
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

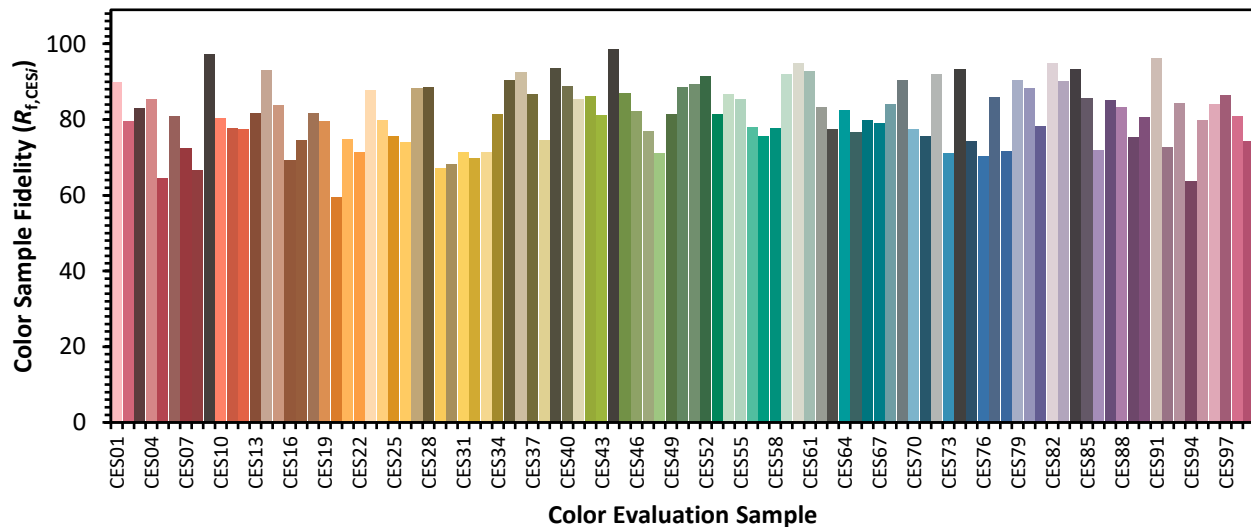


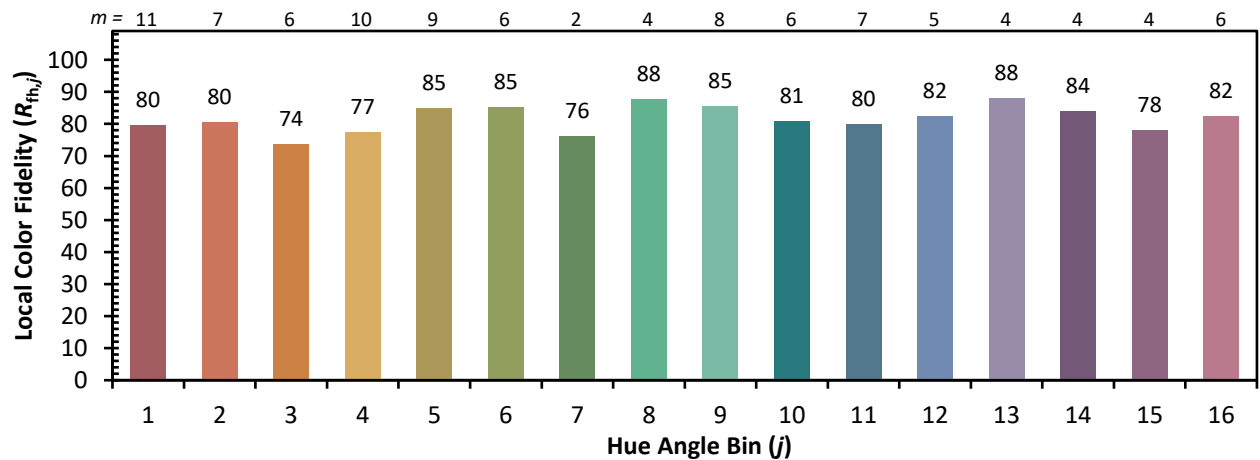
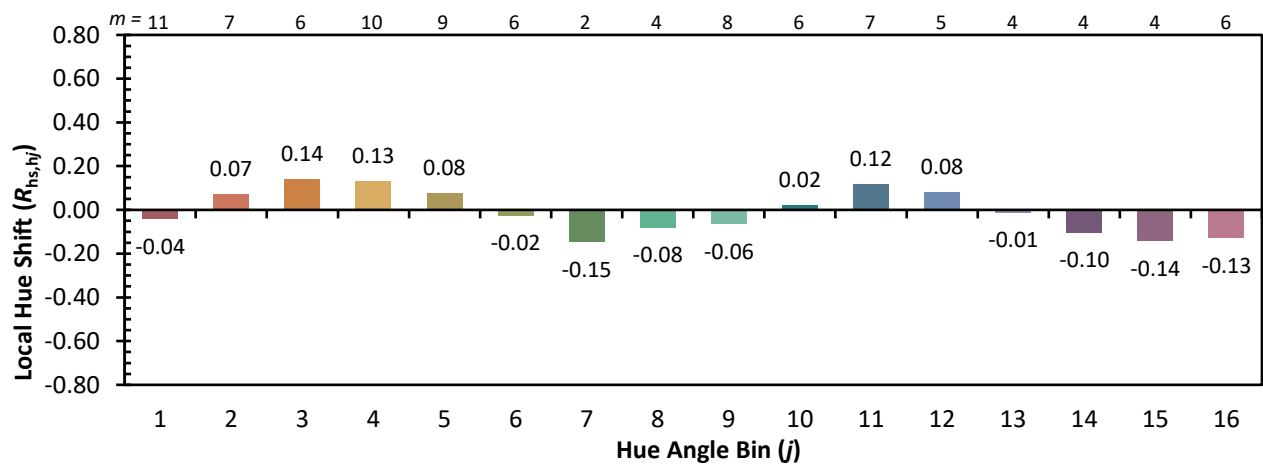
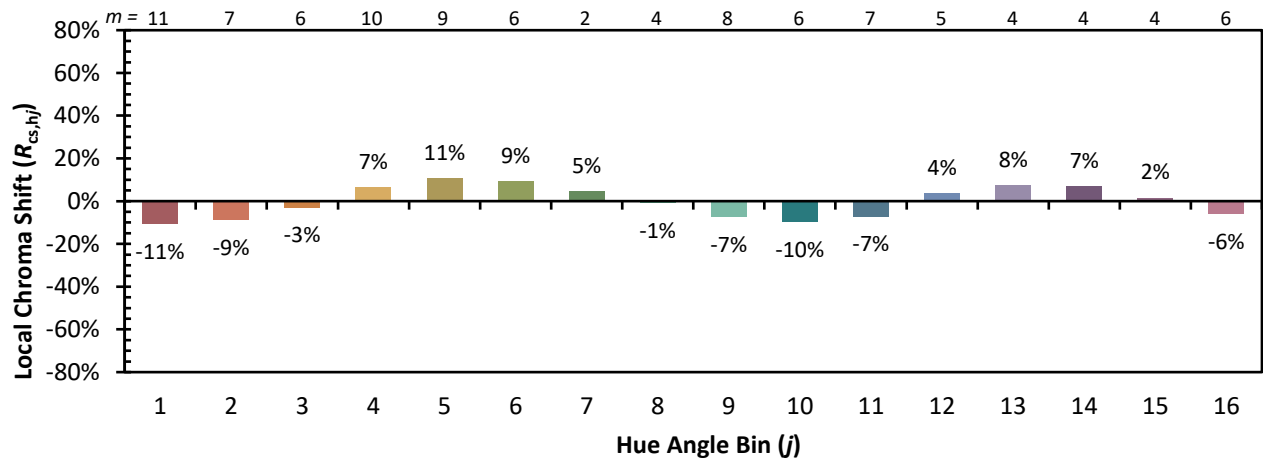
Color Vector Graphics



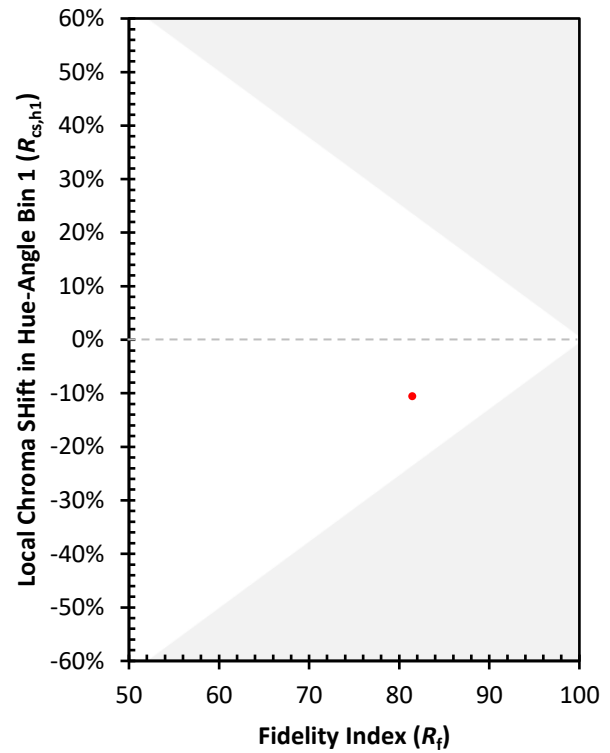
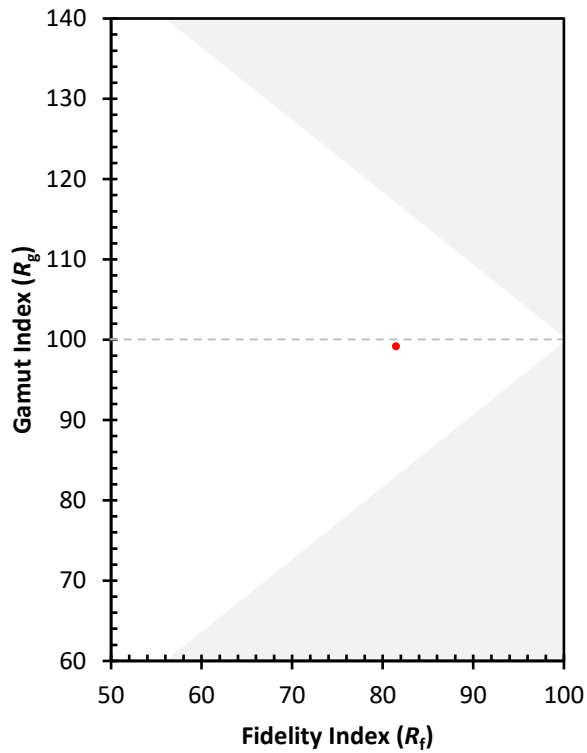
Individual Sample Fidelity Index ($R_{f,i}$)

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)