

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: P1067112

Luminaire Tested: **NAV-SA3D-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067112
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15164.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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



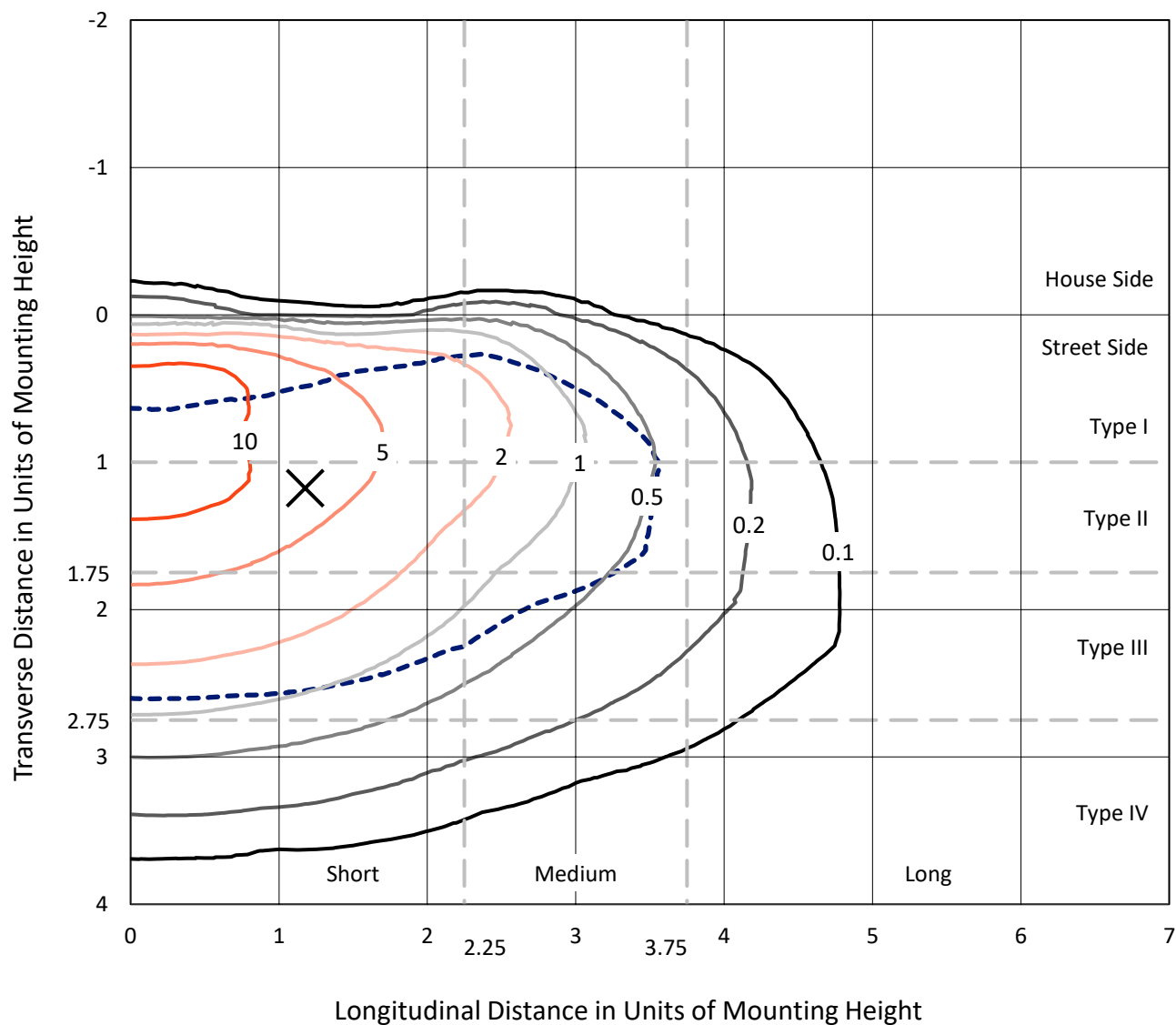
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

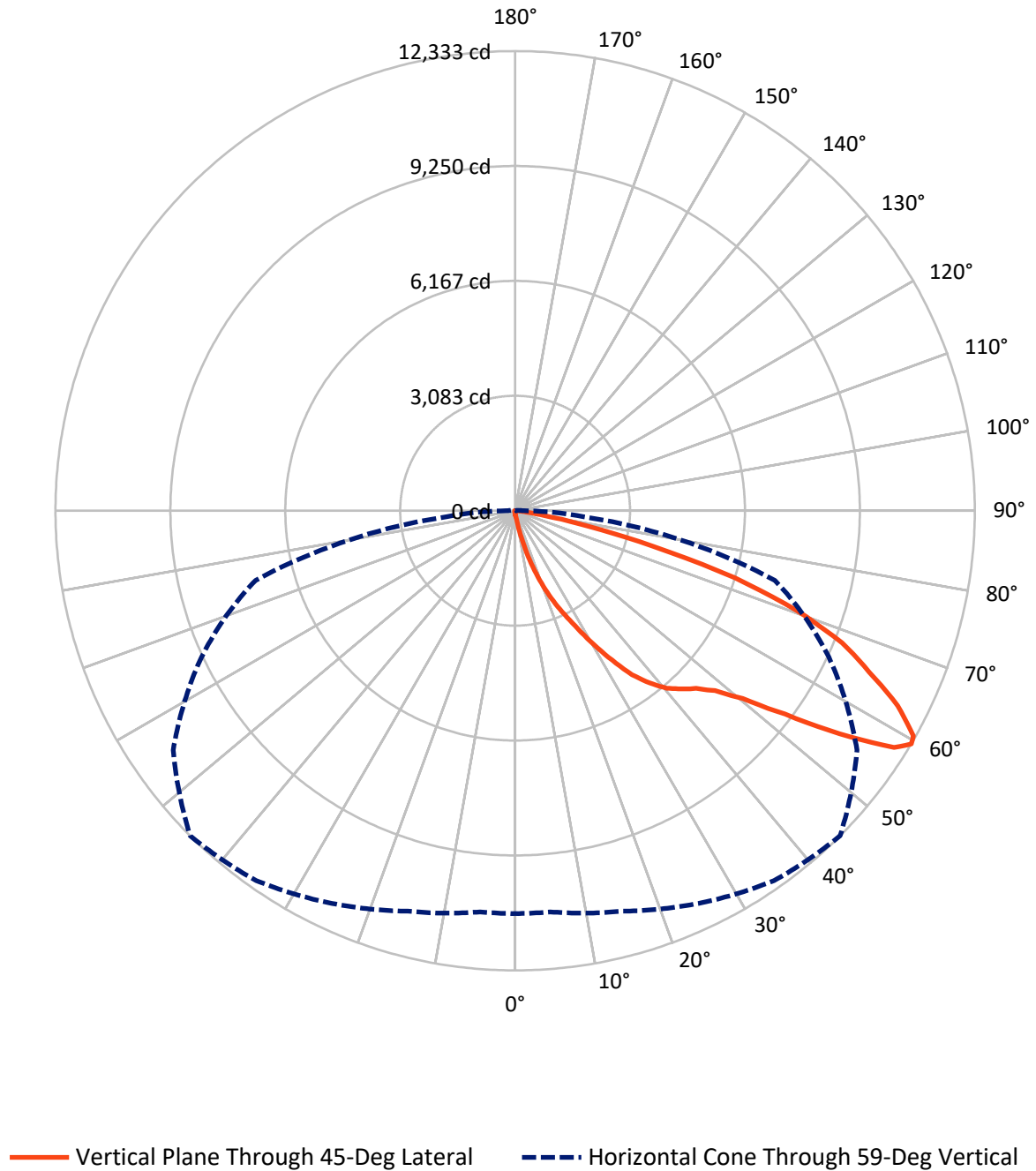


Based on 15 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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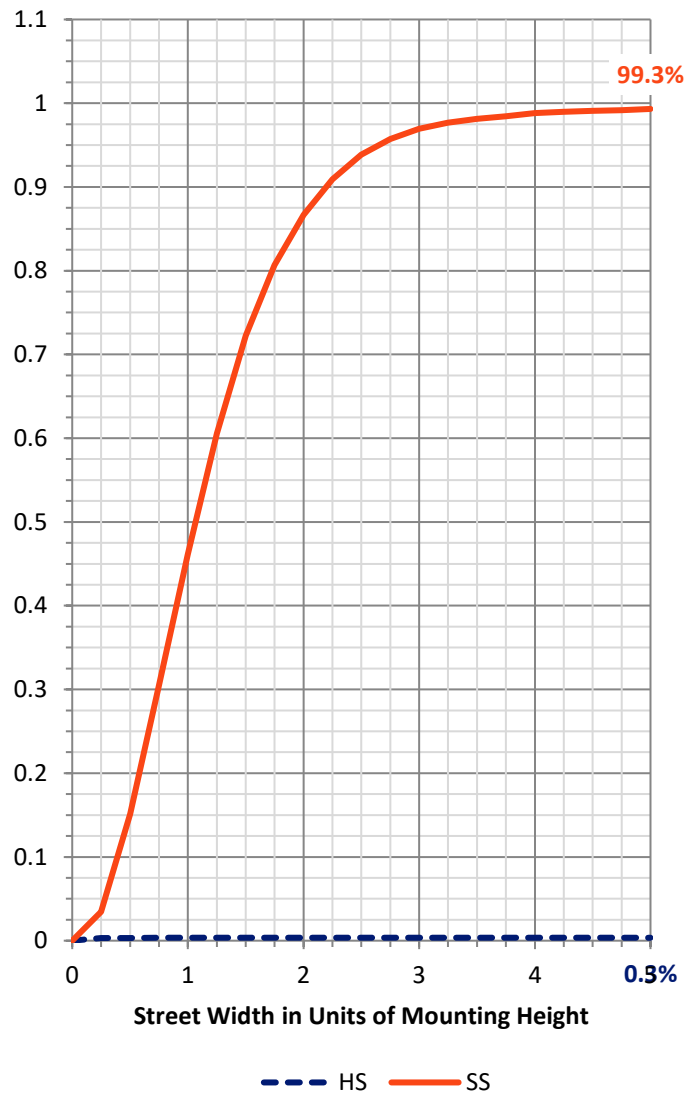
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	53.8	0.0	53.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	15110.8	0.0	15110.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	15164.7	0.0	15164.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.1
10°-20°	167.6	1.1
20°-30°	602.3	4.0
30°-40°	1399.5	9.2
40°-50°	2385.3	15.7
50°-60°	3930.4	25.9
60°-70°	4544.4	30.0
70°-80°	1952.4	12.9
80°-90°	168.7	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°	15164.7	100.0
0°-180°	15164.7	100.0



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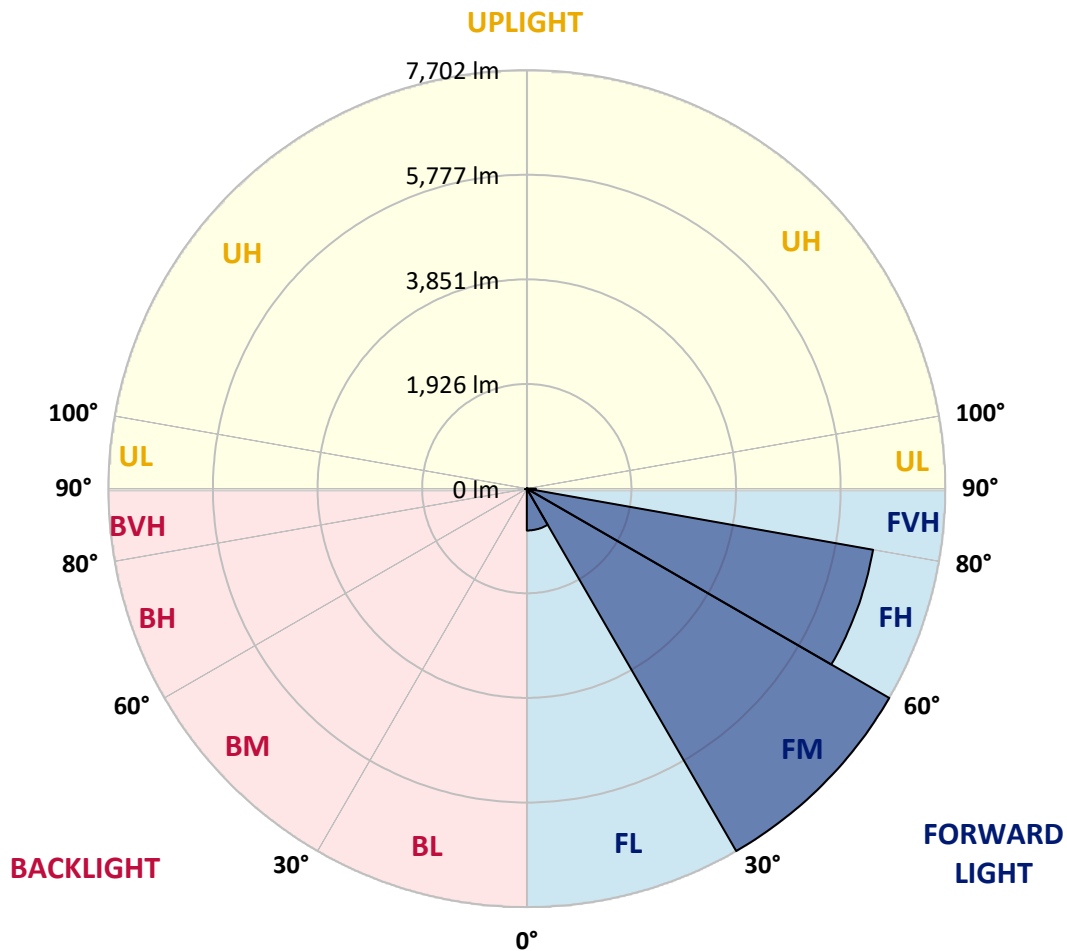
CATALOG NUMBER: NAV-SA3D-830-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.7	5.1			
FM	(30°-60°)	7702.2	50.8			
FH	(60°-80°)	6471.5	42.7			G3/7500
FVH	(80°-90°)	166.5	1.1			G2/225
BL	(0°-30°)	13.3	0.1	B0/110		
BM	(30°-60°)	13.0	0.1	B0/220		
BH	(60°-80°)	25.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2.5°	124.4	124.4	121.3	117.3	116.2	113.2	113.2	110.1	106.0	103.0	98.9
5°	180.5	179.5	171.3	161.1	147.9	139.7	139.7	128.5	118.3	109.1	100.9
7.5°	394.6	385.4	355.9	306.9	242.7	199.9	196.8	160.1	135.6	117.3	102.0
10°	905.5	873.9	832.1	714.8	528.2	369.1	362.0	233.5	162.1	126.4	104.0
12.5°	1483.6	1509.1	1425.5	1240.9	1022.7	760.7	709.7	393.6	214.1	138.7	106.0
15°	2009.8	2003.7	1956.8	1805.8	1554.0	1205.3	1173.6	684.2	306.9	158.0	108.1
17.5°	2403.4	2396.2	2351.4	2254.5	2060.8	1712.0	1684.5	1091.1	481.3	185.6	110.1
20°	2818.4	2809.2	2746.0	2668.5	2499.2	2202.5	2169.9	1545.8	753.5	230.4	110.1
22.5°	3316.0	3298.7	3231.4	3099.8	2921.4	2663.4	2633.8	2010.8	1091.1	303.9	115.2
25°	3917.6	3888.0	3795.2	3677.0	3461.8	3119.2	3087.6	2528.8	1497.9	415.0	120.3
27.5°	4603.8	4608.9	4483.5	4283.7	3995.1	3645.3	3586.2	2992.7	1919.0	574.1	126.4
30°	5418.6	5367.6	5191.2	4958.7	4678.3	4232.7	4175.6	3454.7	2392.2	808.6	136.6
32.5°	6181.3	6126.2	5888.6	5596.0	5295.2	4825.1	4778.2	3973.7	2822.5	1086.0	155.0
35°	6835.9	6797.2	6464.7	6107.9	5840.7	5420.6	5406.3	4552.9	3328.2	1384.7	175.4
37.5°	7412.0	7341.7	6914.4	6544.3	6273.0	5896.8	5866.2	5083.1	3815.6	1731.4	206.0
40°	7903.5	7864.8	7343.7	6857.3	6637.1	6300.6	6261.8	5548.1	4319.3	2134.2	243.7
42.5°	8429.7	8378.7	7872.9	7327.4	6921.6	6561.6	6536.1	5931.5	4768.0	2576.7	299.8
45°	9024.1	8929.3	8485.7	7996.3	7379.4	6831.8	6803.3	6273.0	5227.9	3051.9	368.1
47.5°	9659.4	9576.8	9217.9	8874.2	8164.5	7277.4	7216.2	6563.7	5684.7	3600.5	454.8
50°	10305.9	10307.9	10038.7	9873.5	9124.1	8001.4	7914.7	6990.9	6165.0	4187.8	583.3
52.5°	11058.4	11077.8	11073.7	10951.3	10370.1	9185.2	9069.0	7639.4	6722.7	4873.0	760.7
55°	11373.5	11408.1	11633.5	11904.7	11746.7	10686.2	10561.8	8758.0	7462.0	5636.8	1023.8
57.5°	11115.5	11154.2	11465.2	11940.4	12303.4	12000.6	11986.3	10214.1	8435.8	6562.6	1454.1
59°	10808.6	10803.5	11122.6	11626.3	12115.8	12312.6	12333.0	11199.1	9284.2	7212.2	1825.2
60°	10604.6	10608.7	10820.8	11337.8	11857.8	12199.4	12278.9	11779.3	9779.7	7679.2	2143.4
62.5°	9817.4	9864.3	10032.6	10512.9	11006.4	11387.7	11523.4	12296.3	11198.1	8782.5	3249.7
65°	8961.9	8965.0	9204.6	9615.5	10088.7	10356.9	10442.5	11491.8	12145.4	9906.2	4700.7
67.5°	7435.5	7497.7	7769.9	8435.8	9060.8	9400.4	9465.7	10003.0	11752.8	10638.3	5427.7
70°	5203.4	5285.0	5673.5	6537.1	7468.1	8025.9	8021.8	8315.5	10343.6	10312.0	4601.8
72.5°	2598.1	2738.9	3056.0	3980.8	5108.6	5984.5	6169.0	6689.1	8309.3	8565.3	3433.2
75°	1148.2	1156.3	1336.8	1802.8	2539.0	3651.5	3816.6	5309.5	6375.0	5952.9	2479.9
77.5°	667.9	674.0	706.6	809.6	1028.9	1789.5	1975.1	3482.2	4504.9	3459.8	1617.2
80°	242.7	248.8	247.8	306.9	450.7	704.6	785.2	1687.6	3005.0	1822.2	847.4
82.5°	148.9	148.9	143.8	144.8	164.2	270.2	295.7	718.9	1463.2	897.3	242.7
85°	73.4	77.5	82.6	92.8	110.1	133.6	141.7	206.0	492.5	217.2	58.1
87.5°	43.8	44.9	48.9	59.1	73.4	95.8	102.0	139.7	176.4	145.8	14.3
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-SA3D-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2.5°	96.9	95.8	90.8	86.7	82.6	78.5	75.5	72.4	72.4	73.4	72.4
5°	96.9	92.8	84.6	77.5	71.4	66.3	61.2	57.1	56.1	56.1	57.1
7.5°	95.8	90.8	79.5	70.4	62.2	55.1	50.0	44.9	43.8	44.9	43.8
10°	94.8	88.7	75.5	64.2	53.0	45.9	38.7	33.6	33.6	33.6	34.7
12.5°	94.8	85.7	71.4	58.1	45.9	37.7	30.6	25.5	24.5	24.5	24.5
15°	93.8	83.6	67.3	51.0	38.7	28.6	22.4	17.3	17.3	17.3	17.3
17.5°	91.8	80.6	62.2	44.9	30.6	21.4	15.3	10.2	10.2	12.2	12.2
20°	89.7	77.5	56.1	36.7	25.5	16.3	10.2	6.1	6.1	9.2	10.2
22.5°	90.8	77.5	52.0	32.6	20.4	12.2	8.2	5.1	4.1	7.1	9.2
25°	91.8	75.5	46.9	28.6	15.3	9.2	6.1	2.0	1.0	2.0	3.1
27.5°	91.8	73.4	40.8	22.4	11.2	7.1	3.1	0.0	0.0	0.0	0.0
30°	90.8	70.4	35.7	18.4	8.2	4.1	1.0	0.0	0.0	0.0	0.0
32.5°	89.7	67.3	32.6	14.3	7.1	2.0	0.0	0.0	0.0	0.0	0.0
35°	90.8	63.2	28.6	11.2	4.1	0.0	0.0	0.0	0.0	0.0	2.0
37.5°	93.8	59.1	24.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	97.9	56.1	20.4	7.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	106.0	56.1	18.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	116.2	56.1	15.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	129.5	57.1	13.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	145.8	59.1	12.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	158.0	57.1	11.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	179.5	55.1	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	208.0	52.0	10.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	236.6	47.9	10.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	269.2	45.9	9.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	444.6	40.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	858.6	38.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1387.8	38.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1459.2	38.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	970.7	31.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	520.0	28.6	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	280.4	26.5	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	123.4	19.4	5.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.9	13.3	6.1	5.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	23.5	10.2	8.2	7.1	5.1	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	10.2	9.2	8.2	7.1	5.1	1.0	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

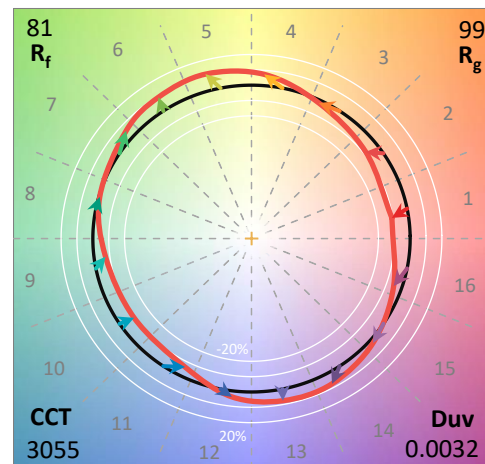
Test Information

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

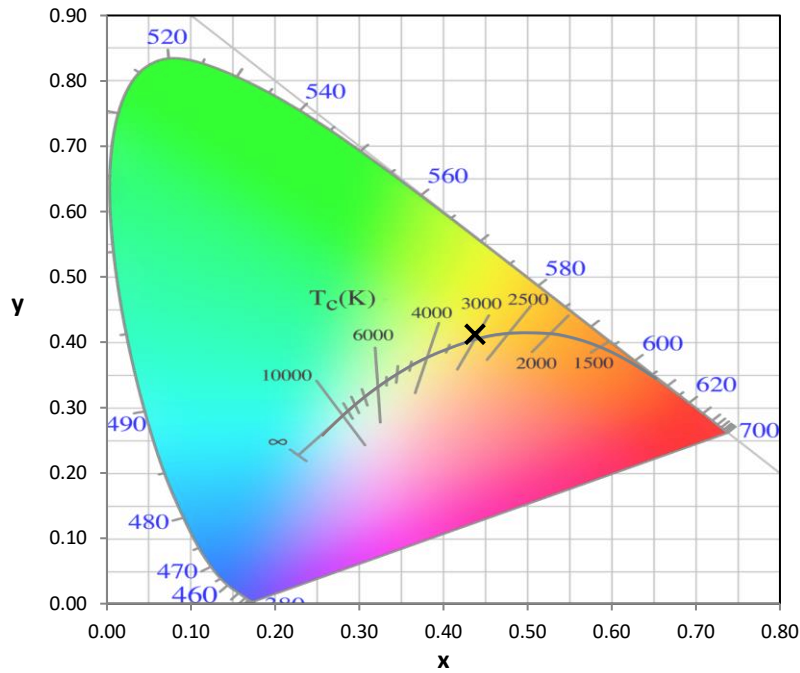
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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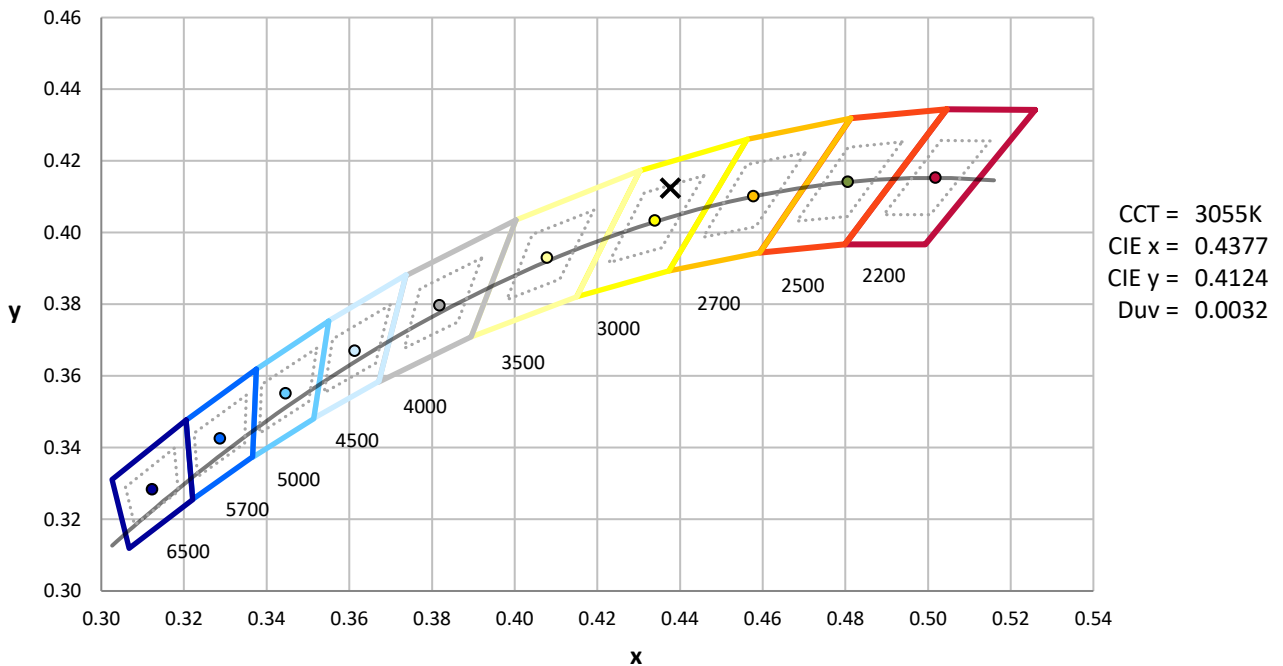
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



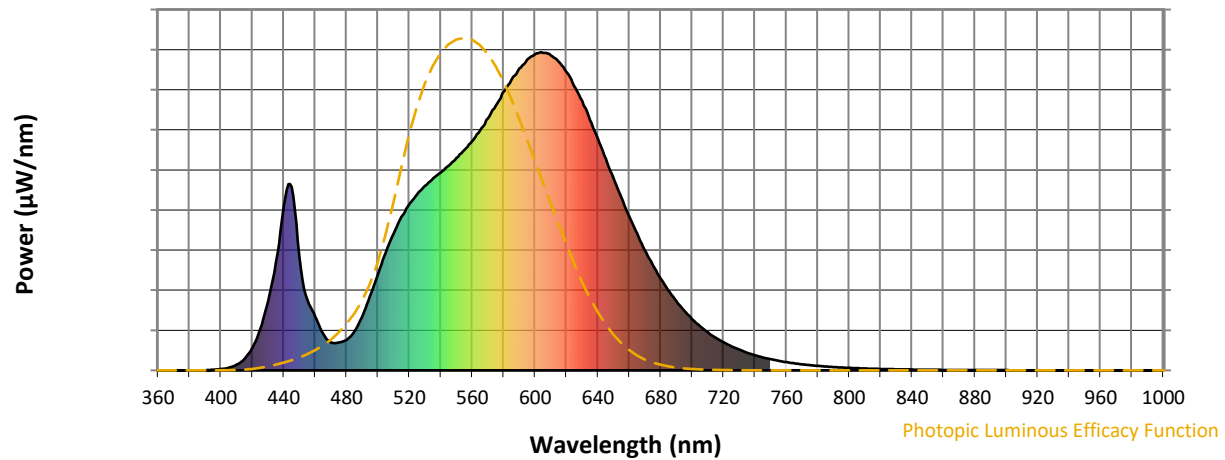
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

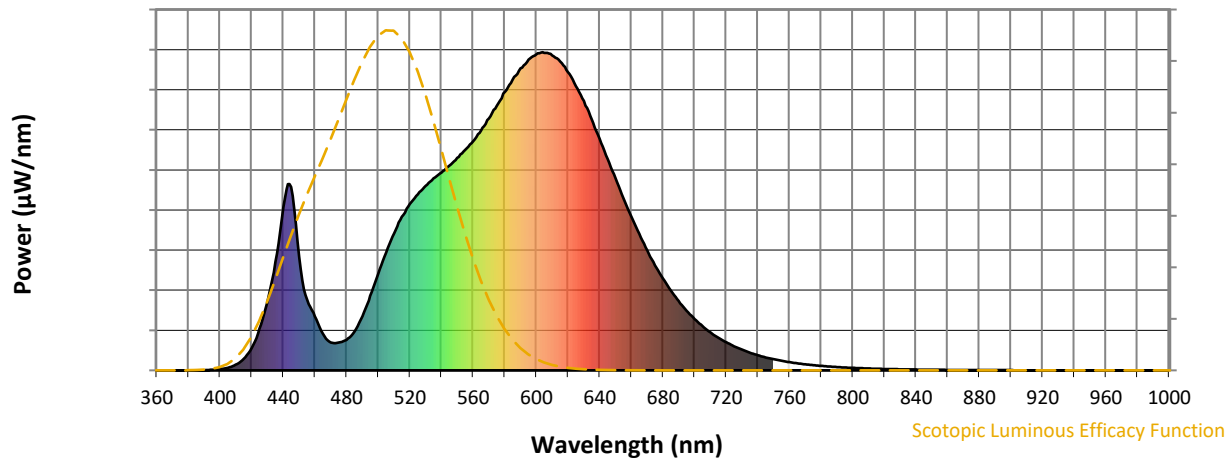


Photopic Lumens: NR

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



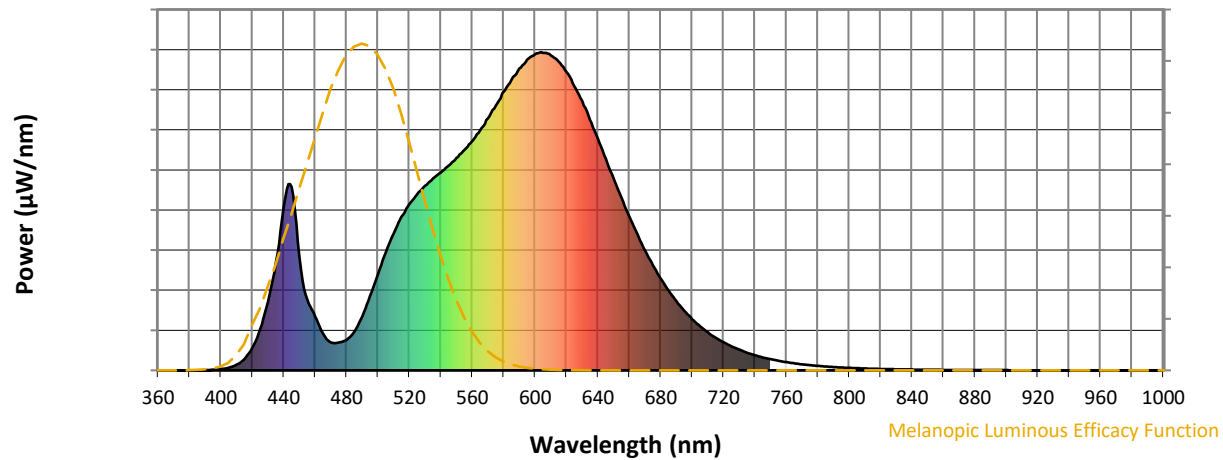
Scotopic Lumens: NR

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

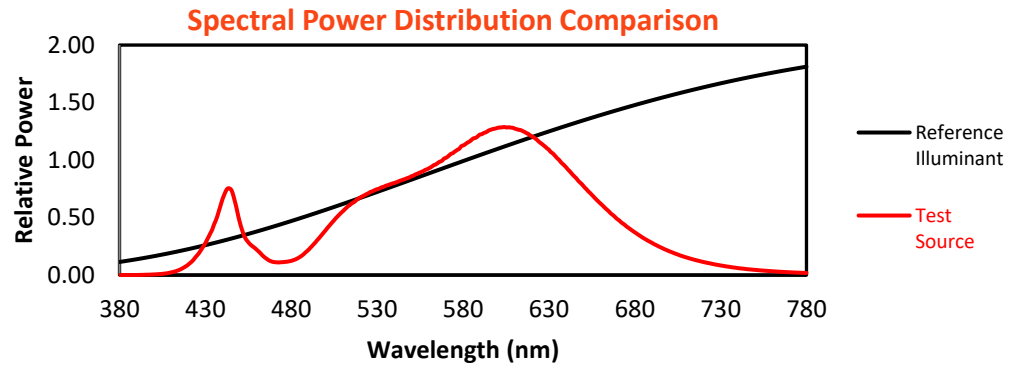
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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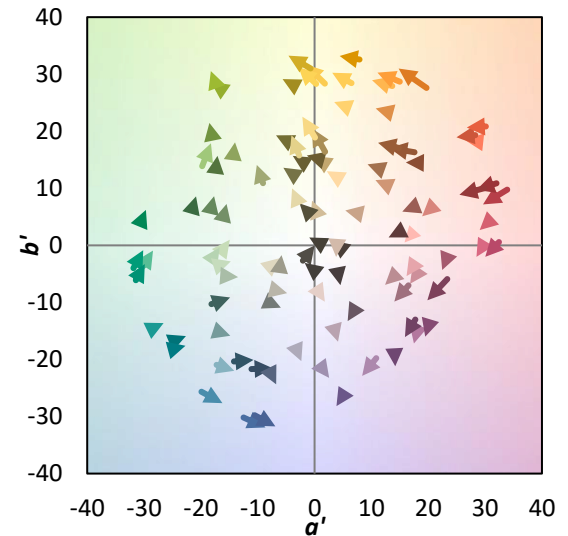
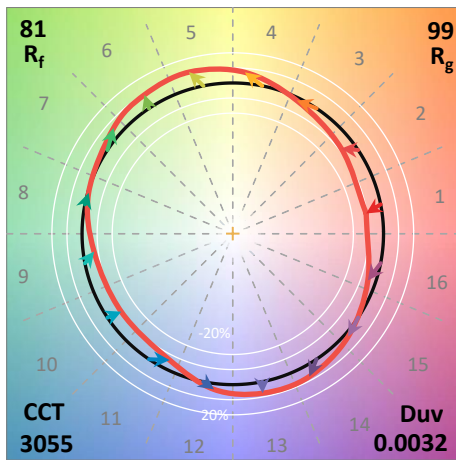
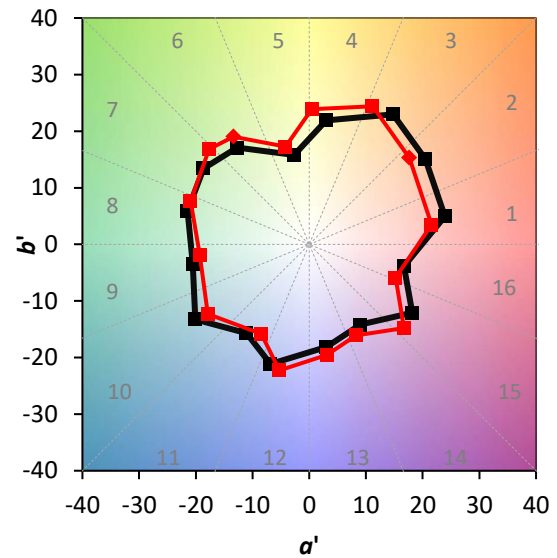
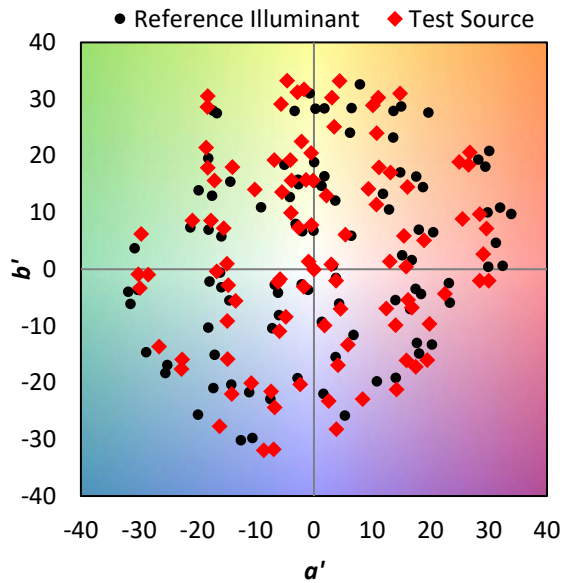
TM-30-18

Summary

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

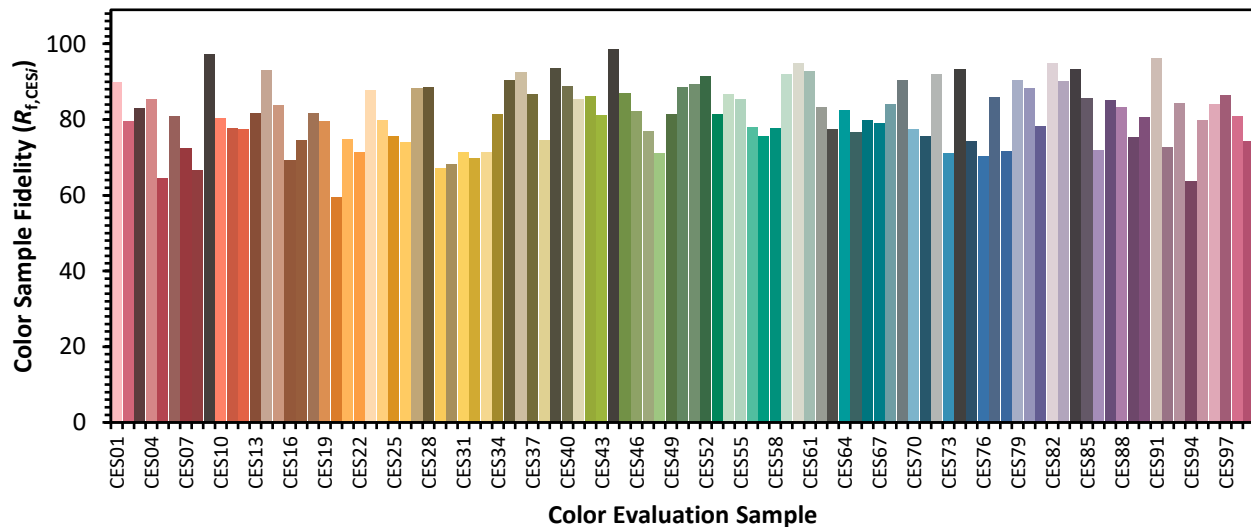


Color Vector Graphics

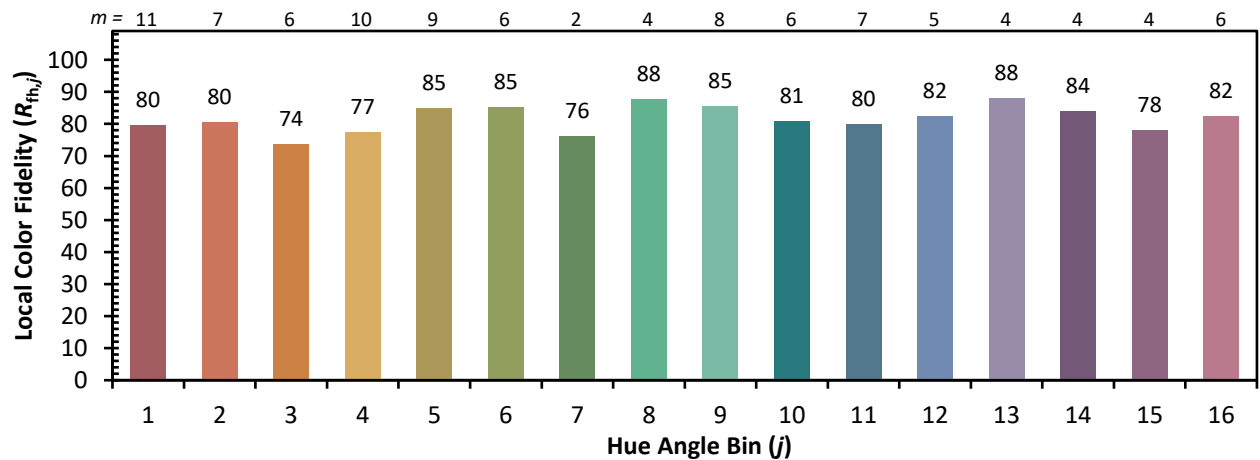
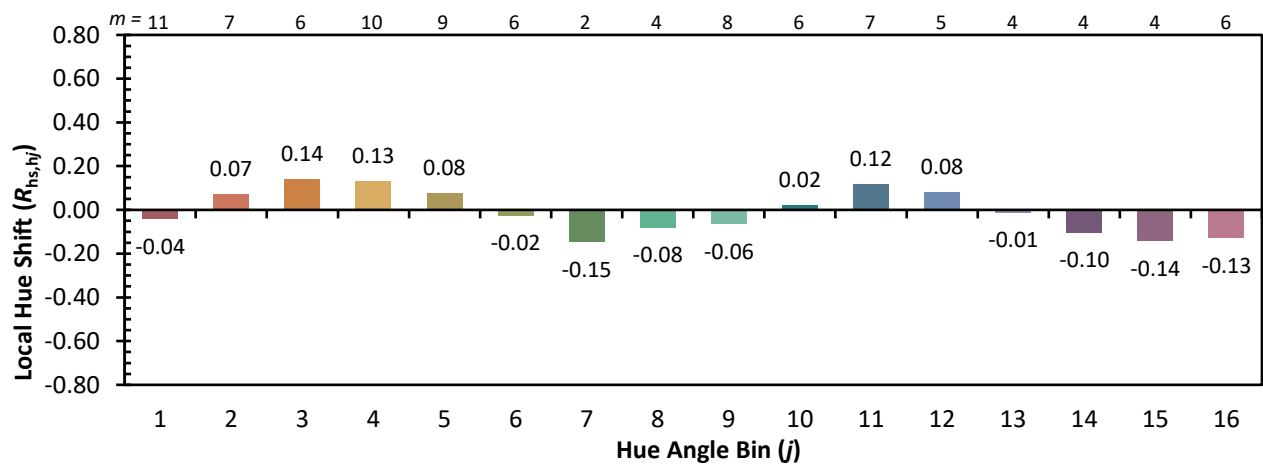
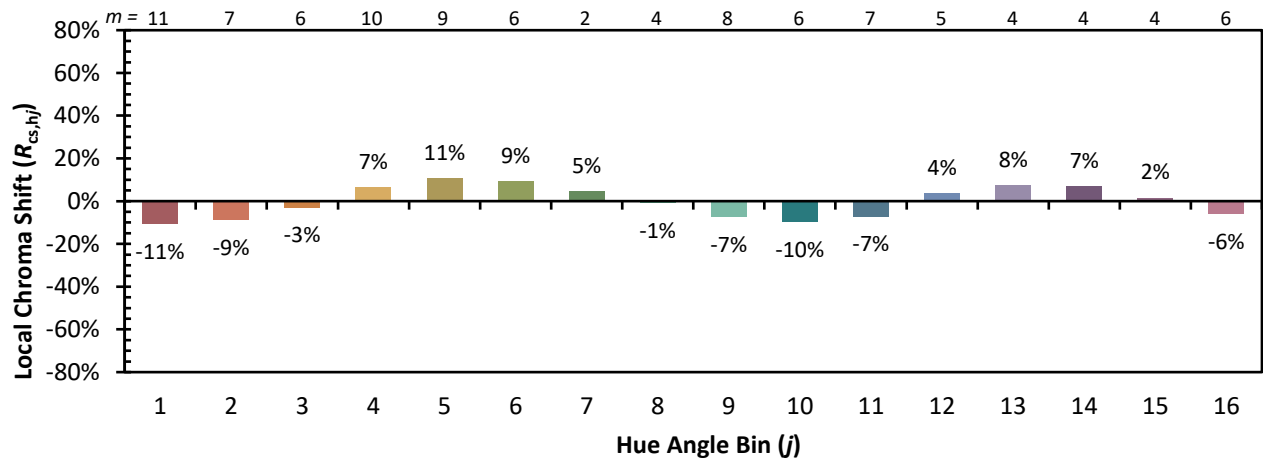


Individual Sample Fidelity Index ($R_{f,i}$)

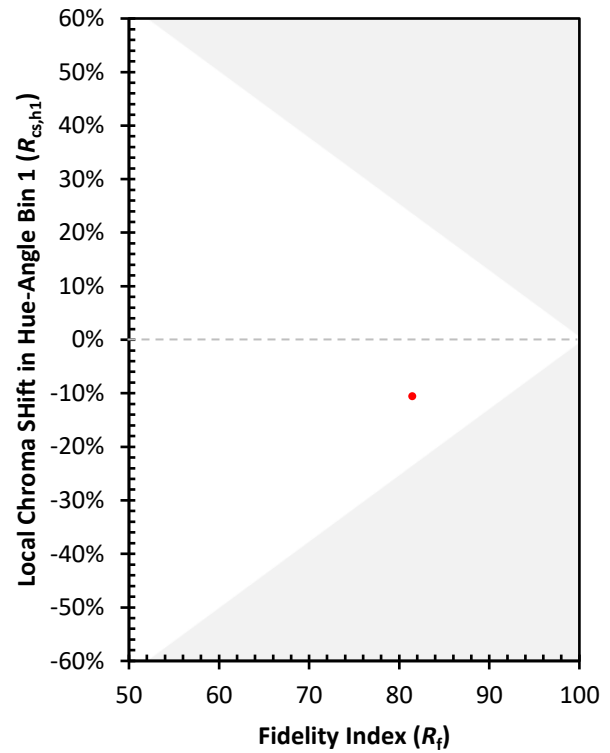
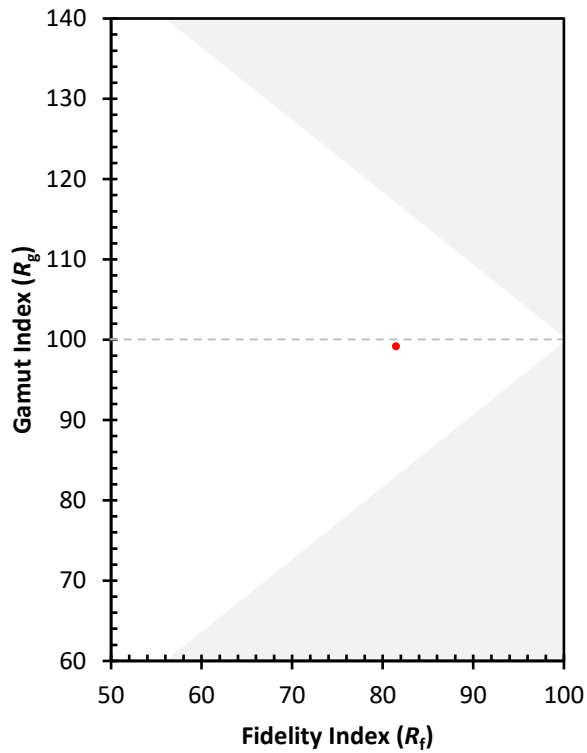
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)