

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: STREETWORKS

Report Number: P1066154

Luminaire Tested: **NVN-SA4B-830-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066154
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4B-830-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13786.2 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 144.1
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

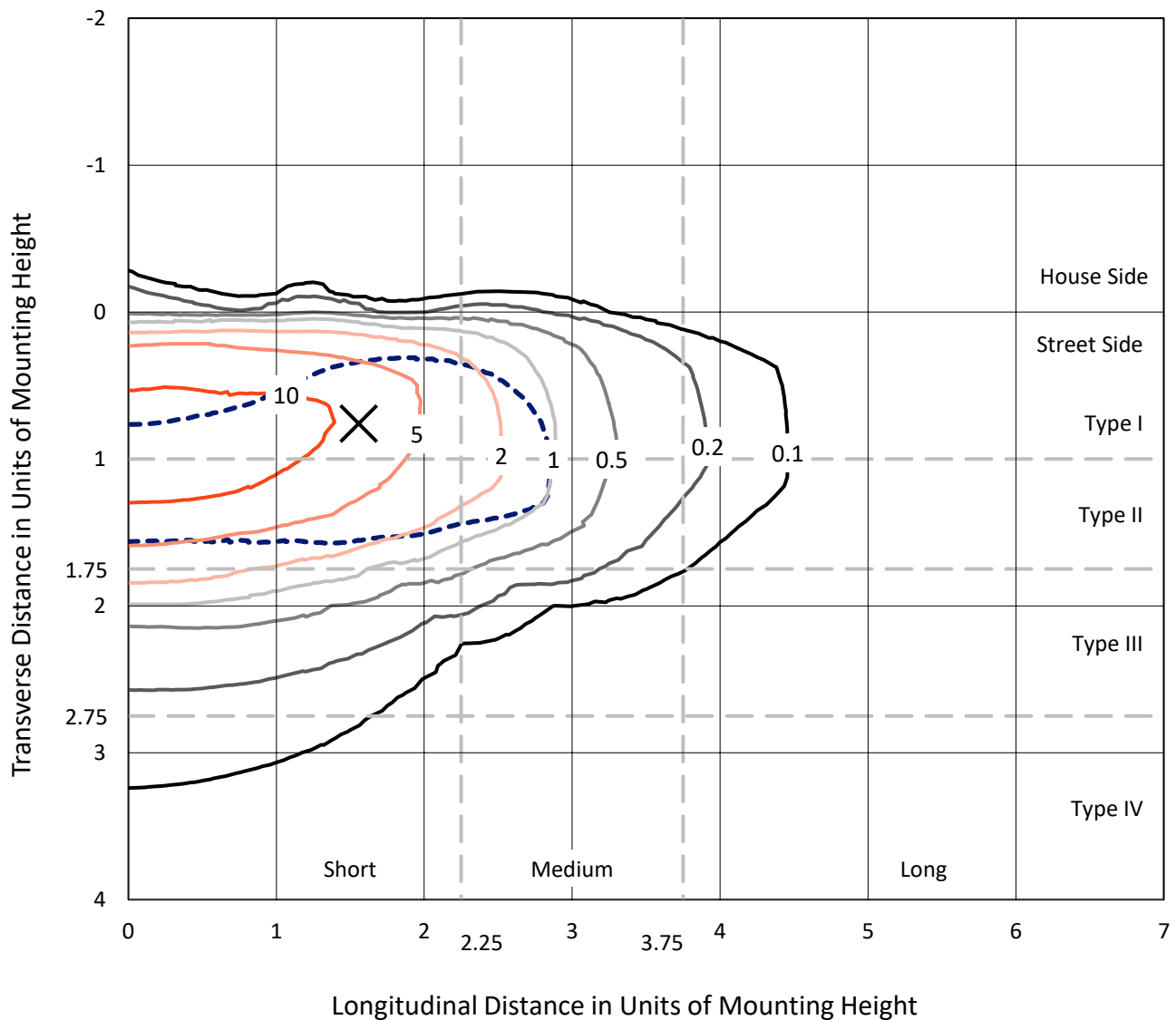


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

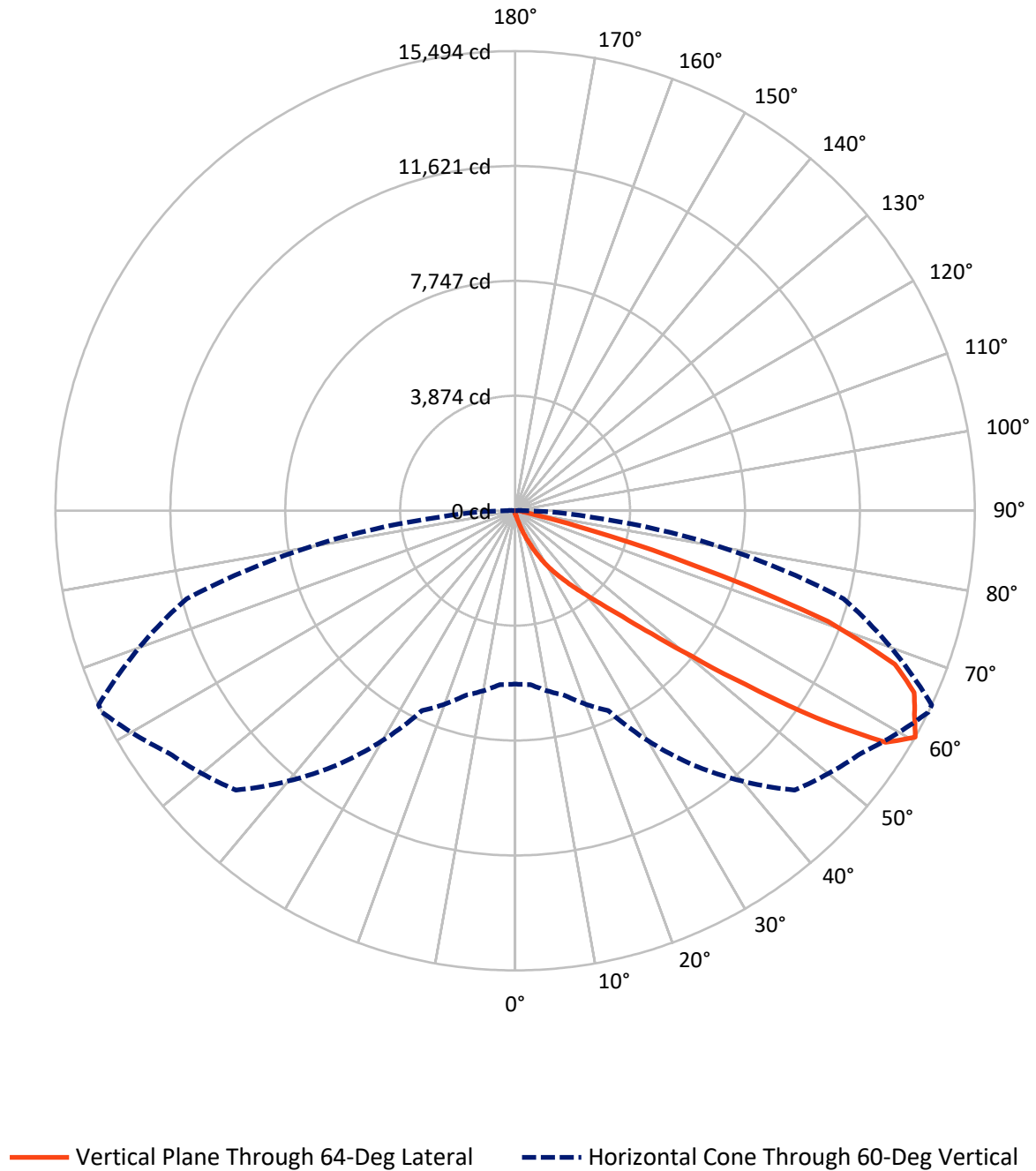


Based on 15 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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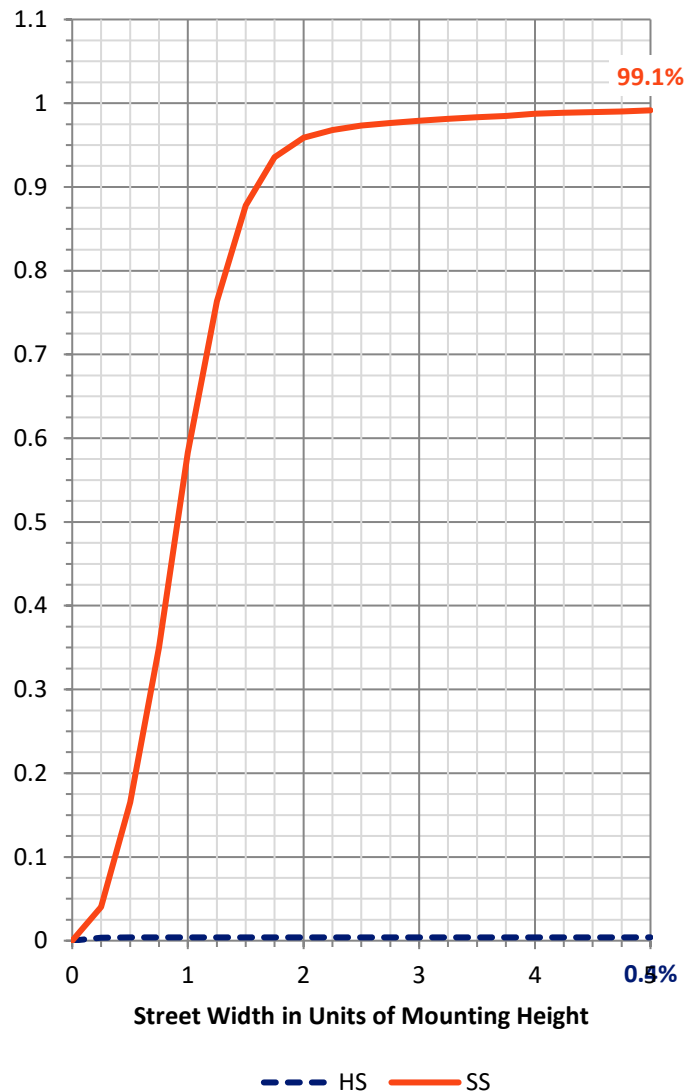
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.9	0.0	55.9
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13730.3	0.0	13730.3
	% Fixture	99.6	0.0	99.6
Total	Lumens	13786.2	0.0	13786.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.1
10°-20°	135.5	1.0
20°-30°	449.9	3.3
30°-40°	1200.6	8.7
40°-50°	3051.6	22.1
50°-60°	4448.6	32.3
60°-70°	3436.1	24.9
70°-80°	943.6	6.8
80°-90°	106.5	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°	13786.2	100.0
0°-180°	13786.2	100.0



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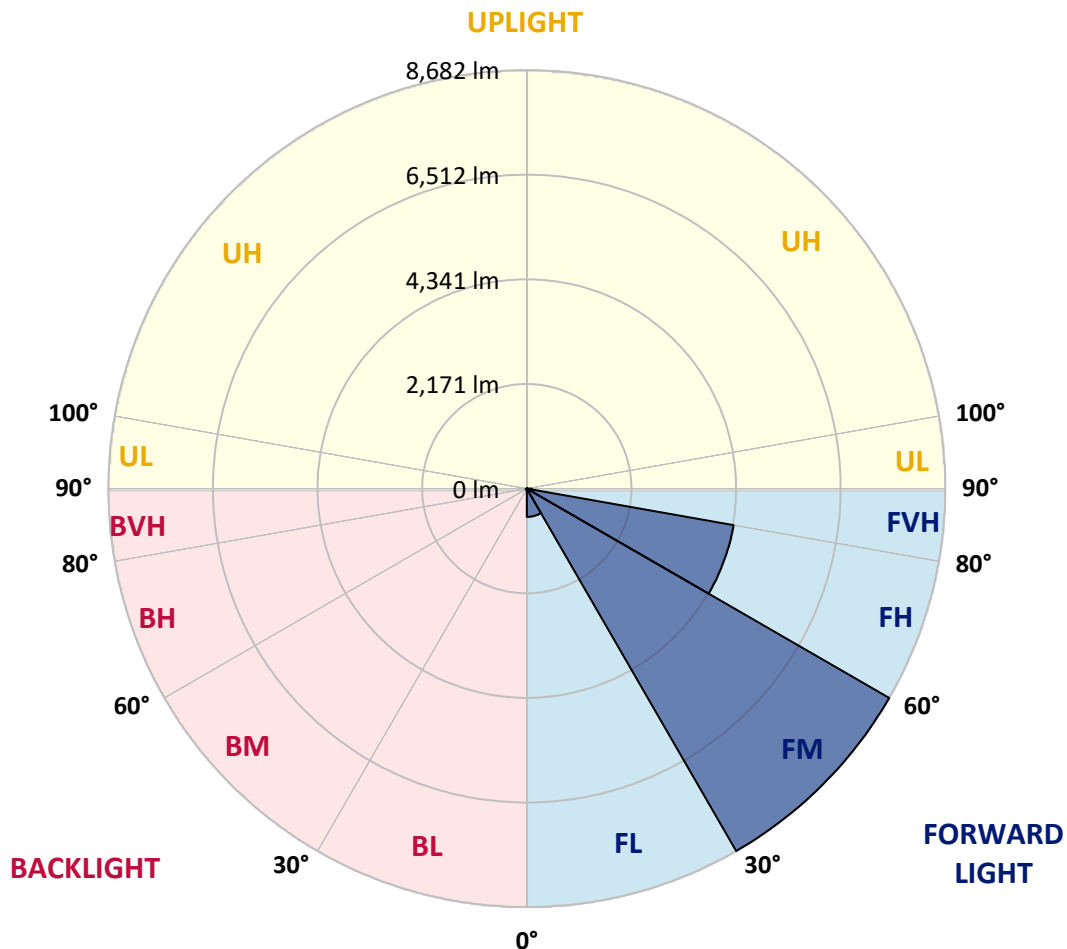
CATALOG NUMBER: NVN-SA4B-830-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.6	4.3			
FM	(30°-60°)	8682.3	63.0			
FH	(60°-80°)	4357.4	31.6			G2/5000
FVH	(80°-90°)	104.0	0.8			G2/225
BL	(0°-30°)	12.6	0.1	B0/110		
BM	(30°-60°)	18.5	0.1	B0/220		
BH	(60°-80°)	22.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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 II Short



REPORT NUMBER: P1066154

CATALOG NUMBER: NVN-SA4B-830-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2.5°	121.4	121.4	121.4	117.6	113.8	113.8	110.1	106.3	106.3	98.7	94.9
5°	185.9	185.9	178.4	170.8	159.4	144.2	129.0	117.6	117.6	106.3	98.7
7.5°	364.3	375.7	341.5	299.8	242.9	204.9	163.2	136.6	132.8	113.8	98.7
10°	789.3	781.7	728.6	626.2	493.3	356.7	227.7	167.0	159.4	121.4	98.7
12.5°	1187.8	1199.2	1142.3	1028.4	869.0	633.7	390.9	216.3	208.7	132.8	98.7
15°	1529.3	1529.3	1491.4	1434.5	1259.9	1013.2	629.9	322.6	296.0	144.2	94.9
17.5°	1764.6	1760.8	1745.6	1730.5	1628.0	1373.7	963.9	516.1	455.4	170.8	94.9
20°	2030.2	2018.9	2037.8	2007.5	1927.8	1726.7	1316.8	766.6	709.6	216.3	94.9
22.5°	2307.3	2318.7	2333.8	2303.5	2216.2	2041.6	1688.7	1089.1	1028.4	299.8	98.7
25°	2660.2	2652.6	2686.8	2660.2	2550.1	2345.2	2037.8	1442.0	1354.8	417.4	106.3
27.5°	3092.8	3077.6	3100.4	3032.1	2887.9	2679.2	2349.0	1802.6	1700.1	599.6	121.4
30°	3665.8	3677.2	3574.8	3495.1	3290.1	3013.1	2694.3	2189.6	2083.4	815.9	136.6
32.5°	4569.0	4489.3	4329.9	4007.4	3737.9	3385.0	3039.7	2527.4	2432.5	1092.9	159.4
35°	5976.9	5992.1	5642.9	4846.0	4261.6	3851.8	3419.2	2899.3	2831.0	1407.9	189.7
37.5°	7692.2	7650.4	7343.0	6337.4	5028.2	4432.4	3851.8	3305.3	3206.7	1749.4	227.7
40°	9635.1	9460.6	9282.2	8599.1	6625.8	5161.0	4398.2	3775.9	3700.0	2144.1	288.4
42.5°	11191.0	11145.5	11175.8	10891.2	9289.8	6401.9	5123.1	4352.7	4261.6	2633.6	394.7
45°	11957.6	11893.1	12075.2	12287.7	11877.9	9043.1	6291.9	5088.9	4967.5	3210.4	557.8
47.5°	11752.7	11707.1	12098.0	12515.4	13061.9	12105.6	8200.7	6189.4	5980.7	3950.4	800.7
50°	10743.2	10747.0	11388.4	12166.3	13031.5	13657.7	11027.8	7696.0	7434.1	4933.3	1180.2
52.5°	9760.4	9790.7	10470.0	11604.7	12579.9	13839.8	13509.7	9726.2	9301.2	6090.7	1628.0
55°	8750.9	8766.1	9365.7	10963.3	12367.4	13297.2	14784.8	12340.9	11889.3	7532.8	2064.4
57.5°	7779.5	7779.5	8003.3	9422.6	12135.9	13247.8	14633.0	14731.6	14363.5	9179.8	2387.0
60°	5844.1	5882.0	6439.9	7434.1	10466.2	13319.9	14245.9	15494.4	15494.4	11464.3	2633.6
62.5°	2952.4	3009.3	3703.8	4671.5	7179.9	12325.7	14306.6	15111.1	15171.8	13479.3	3195.3
65°	1385.1	1449.6	1821.5	2504.6	3863.2	8675.0	13676.7	14784.8	14765.8	13096.0	4379.3
67.5°	994.3	1013.2	1138.5	1461.0	2079.6	3802.4	10439.6	13809.5	13817.1	11126.5	5035.8
70°	891.8	891.8	922.1	1017.0	1252.3	1700.1	5073.7	11183.4	11726.1	8591.6	4667.7
72.5°	880.4	872.8	865.2	869.0	846.3	853.8	1741.8	6314.6	7088.8	6011.0	3722.8
75°	857.6	857.6	850.0	823.5	675.5	550.3	599.6	2553.9	2952.4	4015.0	2762.7
77.5°	679.3	747.6	827.3	777.9	618.6	413.6	349.1	740.0	933.5	2462.9	2003.7
80°	315.0	318.8	315.0	330.2	394.7	296.0	258.1	360.5	364.3	1366.1	1240.9
82.5°	227.7	231.5	220.1	197.3	174.6	159.4	212.5	265.6	284.6	626.2	463.0
85°	68.3	64.5	75.9	102.5	121.4	140.4	178.4	223.9	235.3	231.5	68.3
87.5°	30.4	30.4	37.9	53.1	72.1	106.3	155.6	204.9	208.7	239.1	19.0
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: NVN-SA4B-830-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2.5°	94.9	91.1	87.3	83.5	79.7	75.9	72.1	72.1	75.9	75.9	75.9
5°	91.1	87.3	79.7	72.1	68.3	64.5	60.7	60.7	64.5	64.5	64.5
7.5°	91.1	83.5	75.9	68.3	60.7	56.9	53.1	53.1	53.1	56.9	56.9
10°	91.1	83.5	72.1	60.7	53.1	49.3	45.5	41.7	45.5	45.5	45.5
12.5°	87.3	79.7	68.3	56.9	45.5	37.9	34.2	34.2	34.2	34.2	34.2
15°	83.5	75.9	64.5	49.3	37.9	30.4	22.8	22.8	22.8	26.6	26.6
17.5°	79.7	72.1	56.9	37.9	26.6	19.0	15.2	15.2	15.2	19.0	19.0
20°	79.7	68.3	49.3	30.4	19.0	11.4	7.6	7.6	7.6	11.4	15.2
22.5°	79.7	68.3	45.5	22.8	11.4	7.6	3.8	3.8	3.8	3.8	3.8
25°	79.7	64.5	41.7	19.0	7.6	3.8	0.0	0.0	3.8	7.6	11.4
27.5°	79.7	60.7	34.2	11.4	7.6	3.8	0.0	3.8	7.6	7.6	7.6
30°	79.7	60.7	30.4	11.4	3.8	0.0	0.0	3.8	7.6	7.6	11.4
32.5°	83.5	56.9	26.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	87.3	53.1	22.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	94.9	53.1	15.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	106.3	56.9	15.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	132.8	60.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	185.9	75.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	273.2	113.8	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	398.5	155.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	489.5	155.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	485.7	98.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	371.9	68.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	315.0	49.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	379.5	37.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	675.5	34.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1085.3	34.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1214.4	34.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	948.7	30.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	519.9	26.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	261.8	19.0	7.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.1	15.2	7.6	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	15.2	7.6	7.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	19.0	11.4	11.4	7.6	7.6	3.8	3.8	0.0	0.0	0.0	0.0
87.5°	11.4	11.4	11.4	7.6	7.6	3.8	3.8	0.0	0.0	0.0	3.8
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

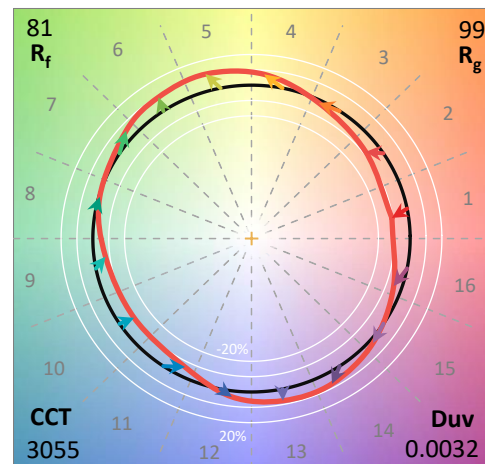
Test Information

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

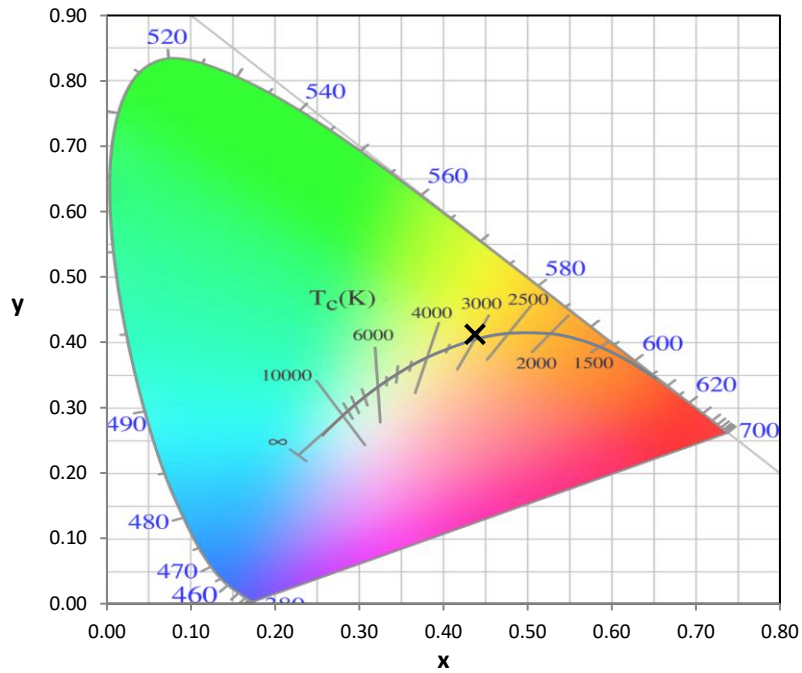
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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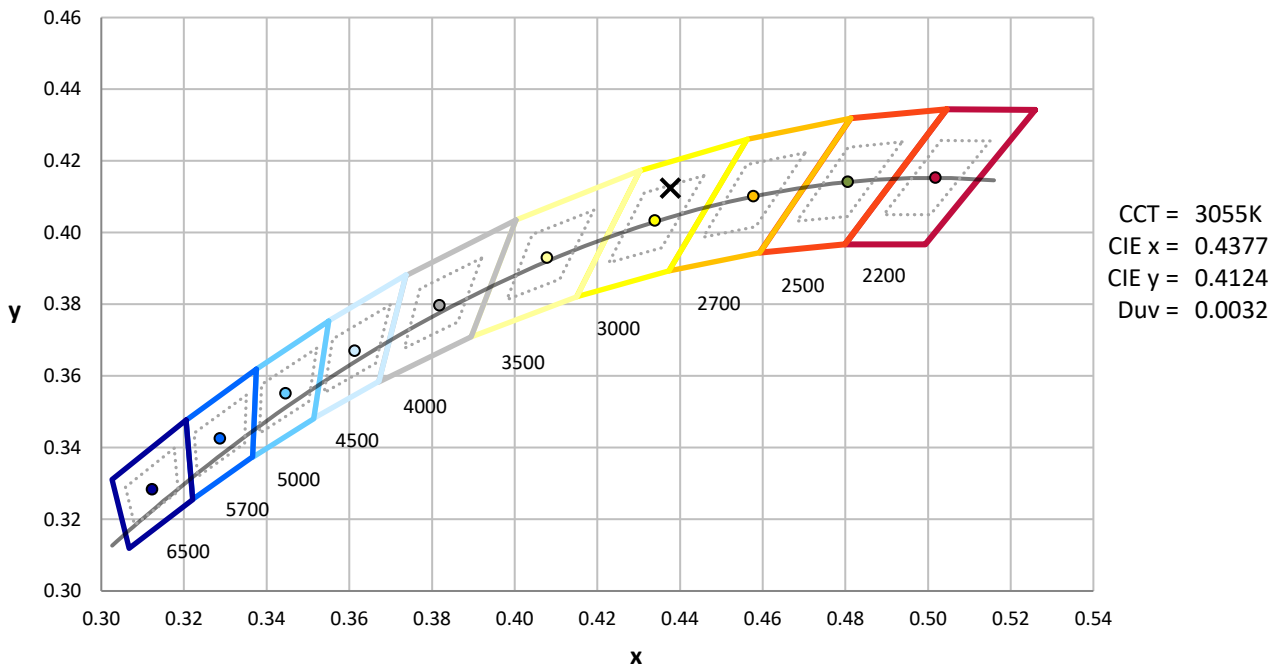
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



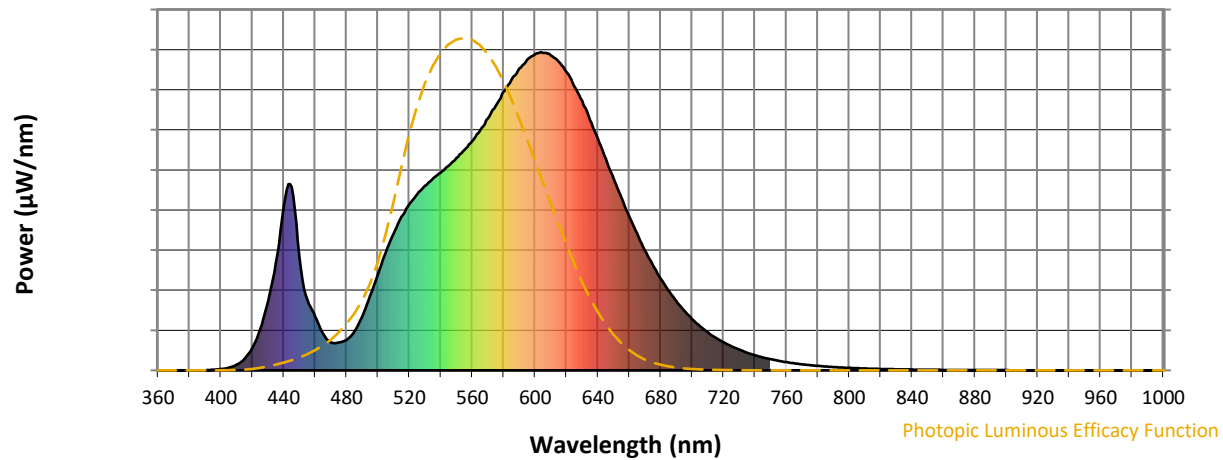
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

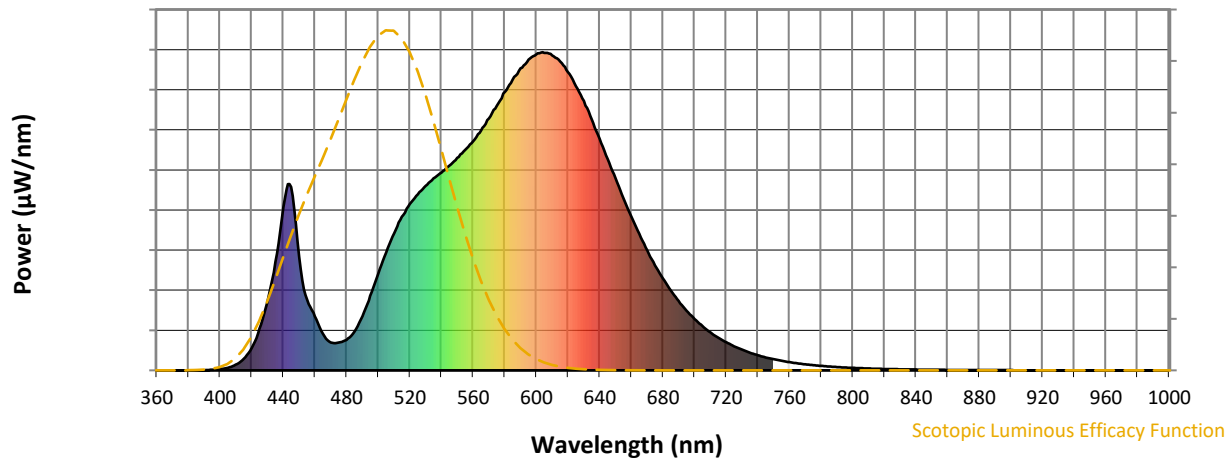


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



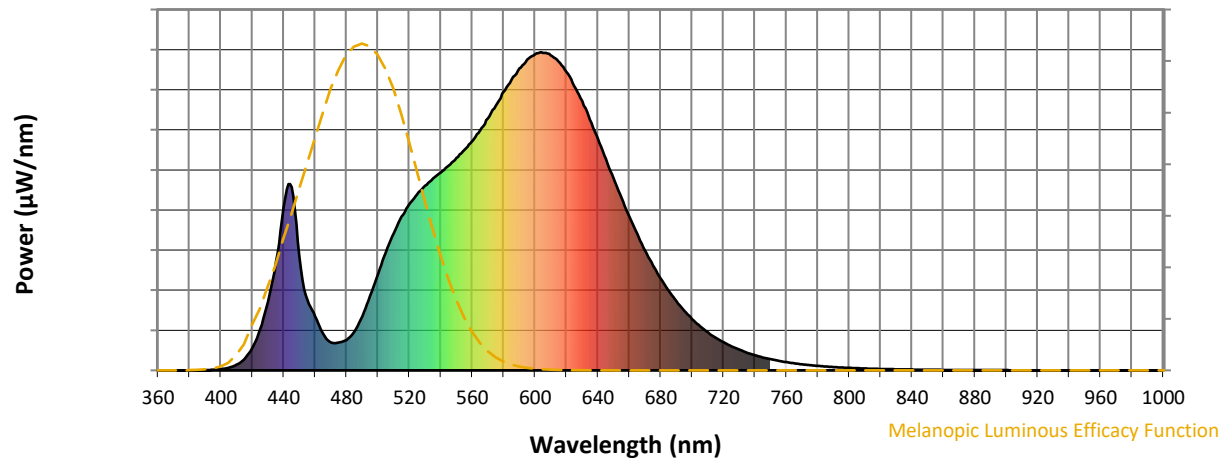
Scotopic Lumens: NR

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

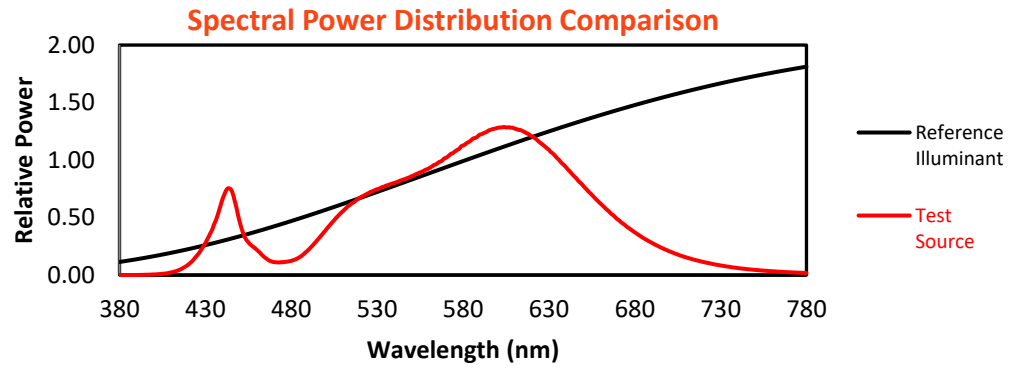
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170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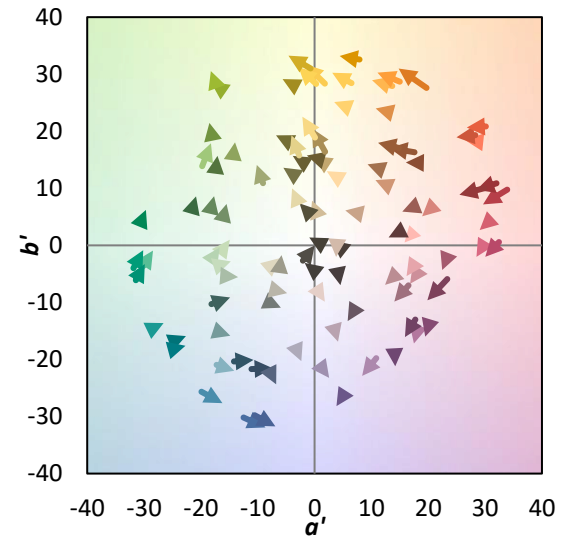
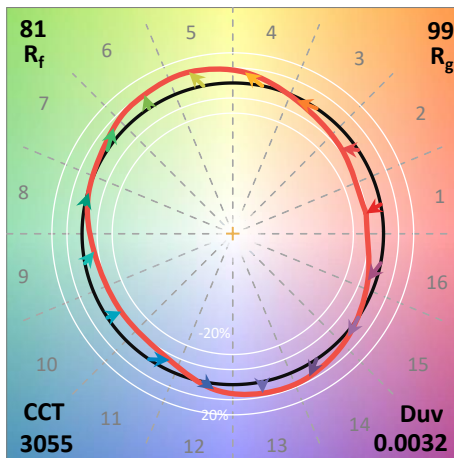
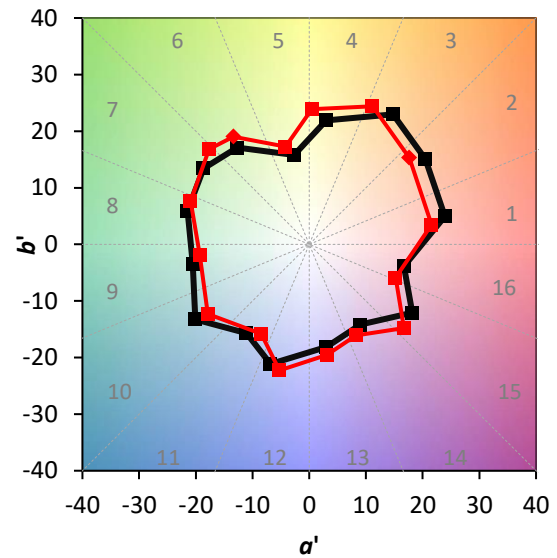
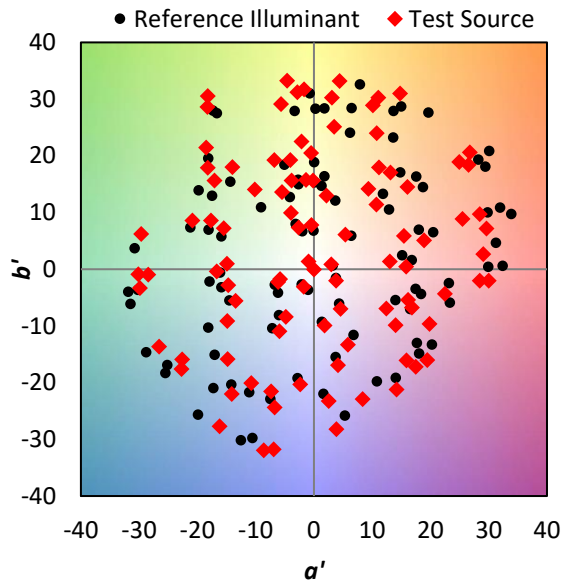
TM-30-18

Summary

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

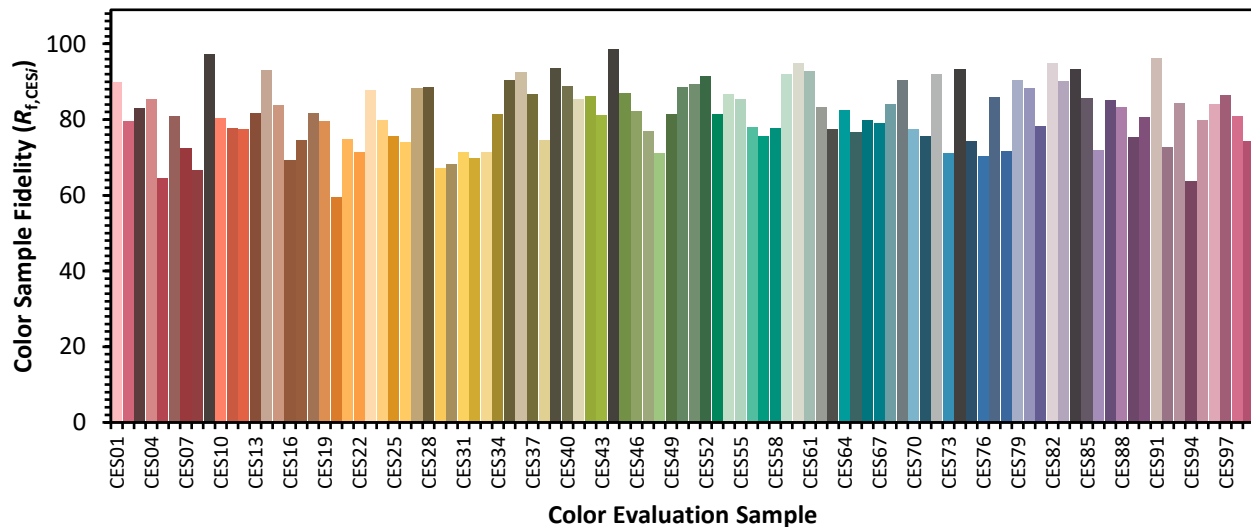


Color Vector Graphics

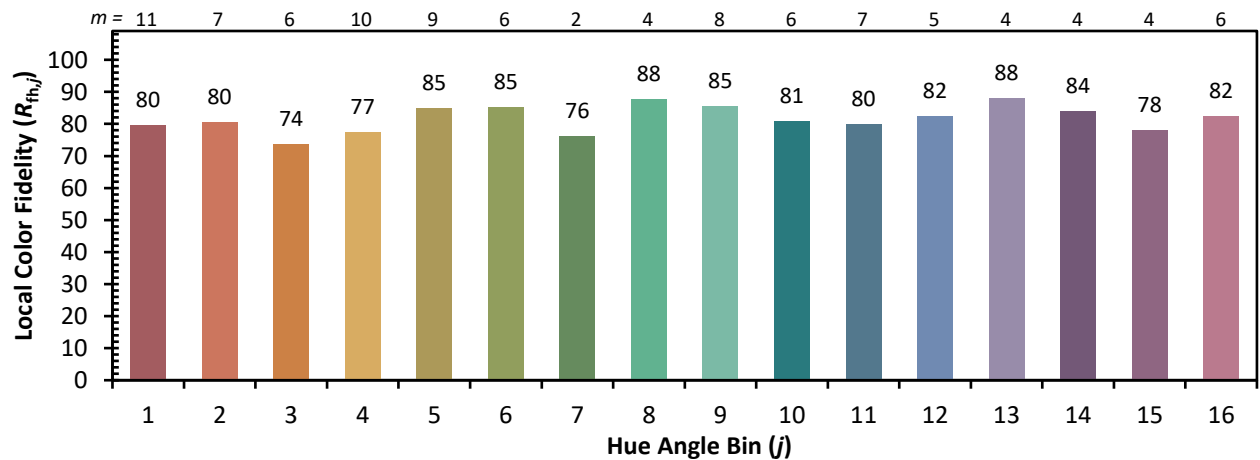
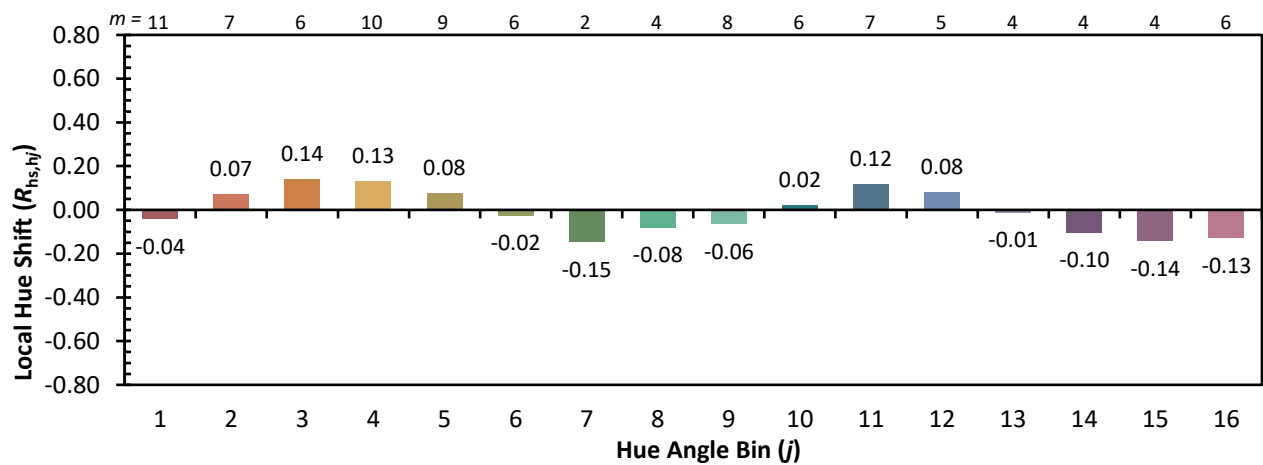
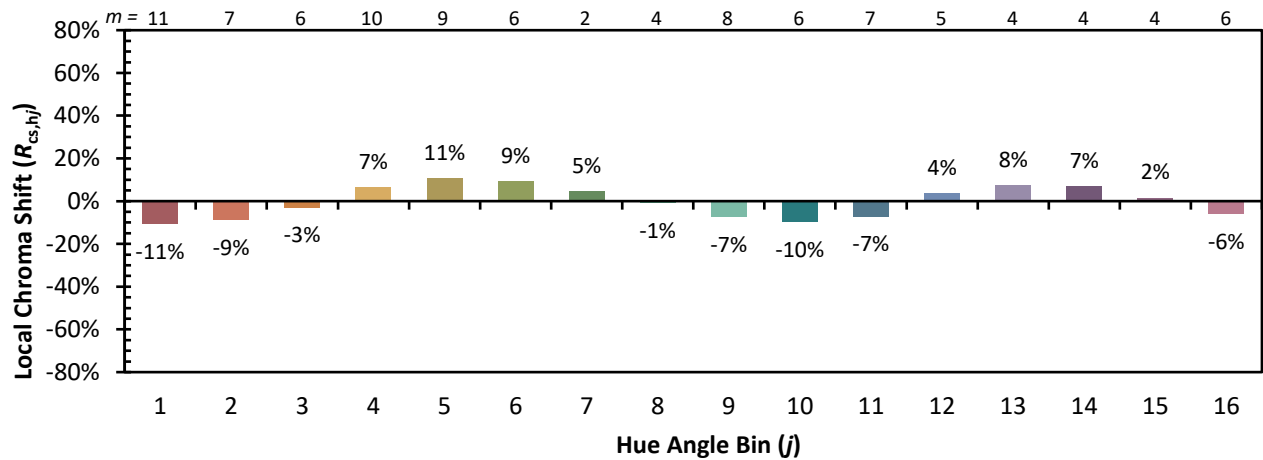


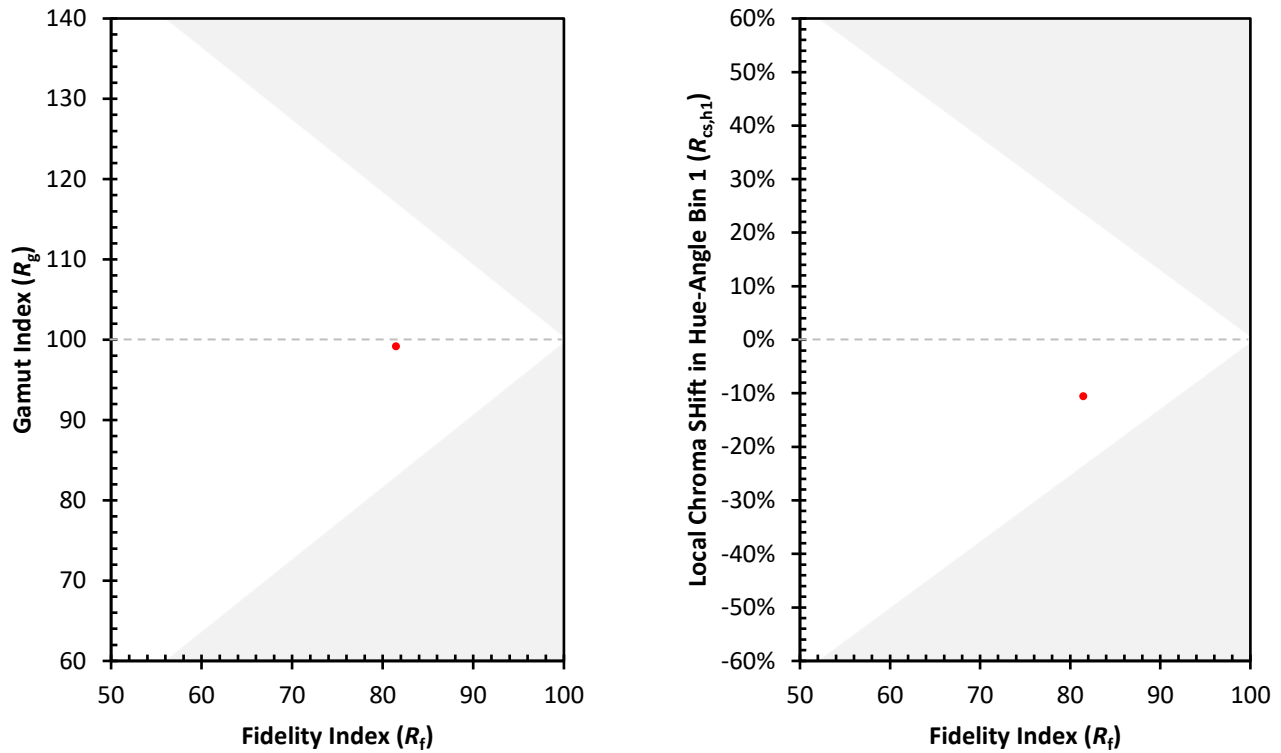
Individual Sample Fidelity Index ($R_{f,i}$)

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)