

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: P1066396

Luminaire Tested: **NVN-SA4D-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066396
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4D-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19250.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 218.9
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

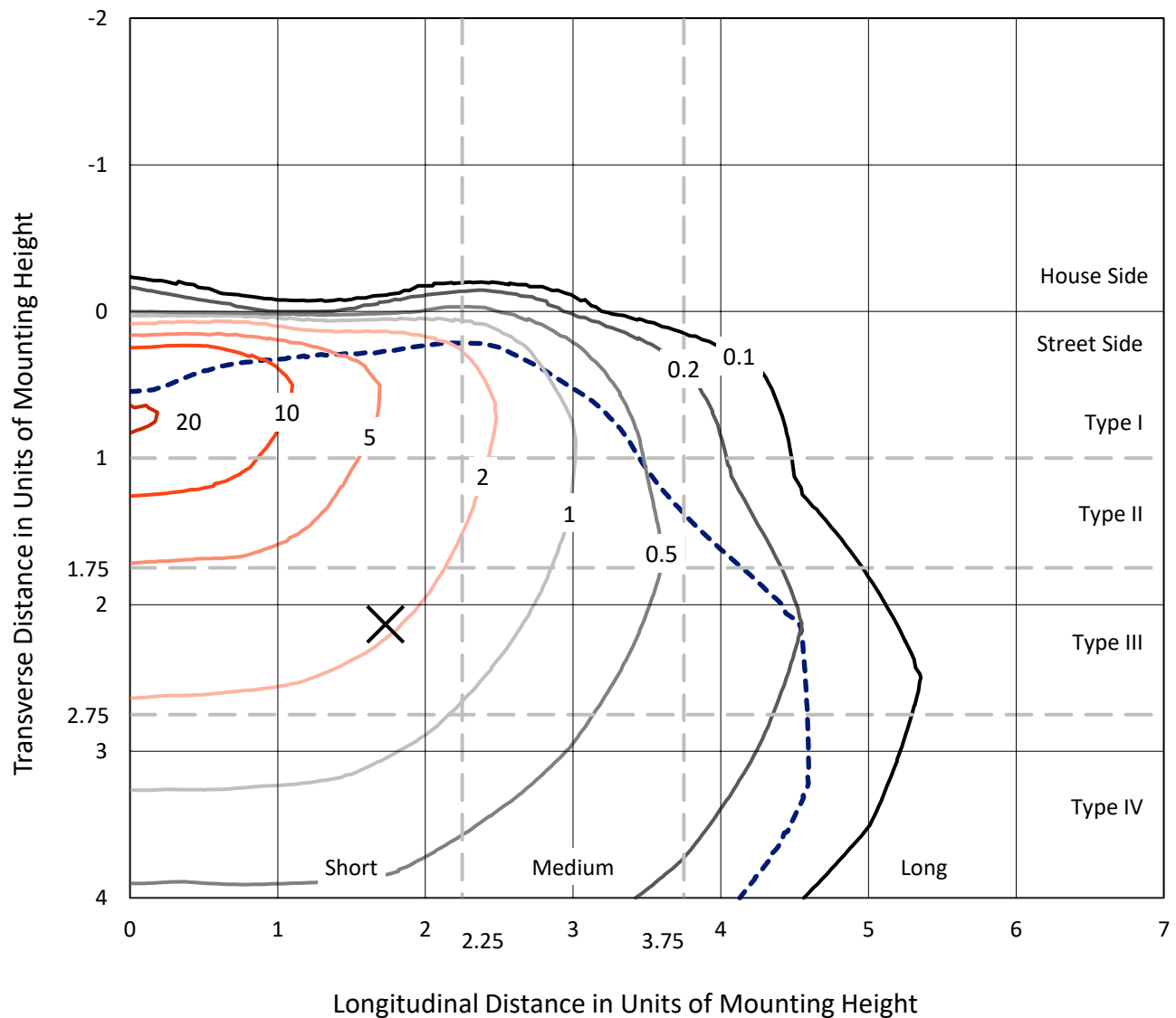


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CATALOG NUMBER: NVN-SA4D-830-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

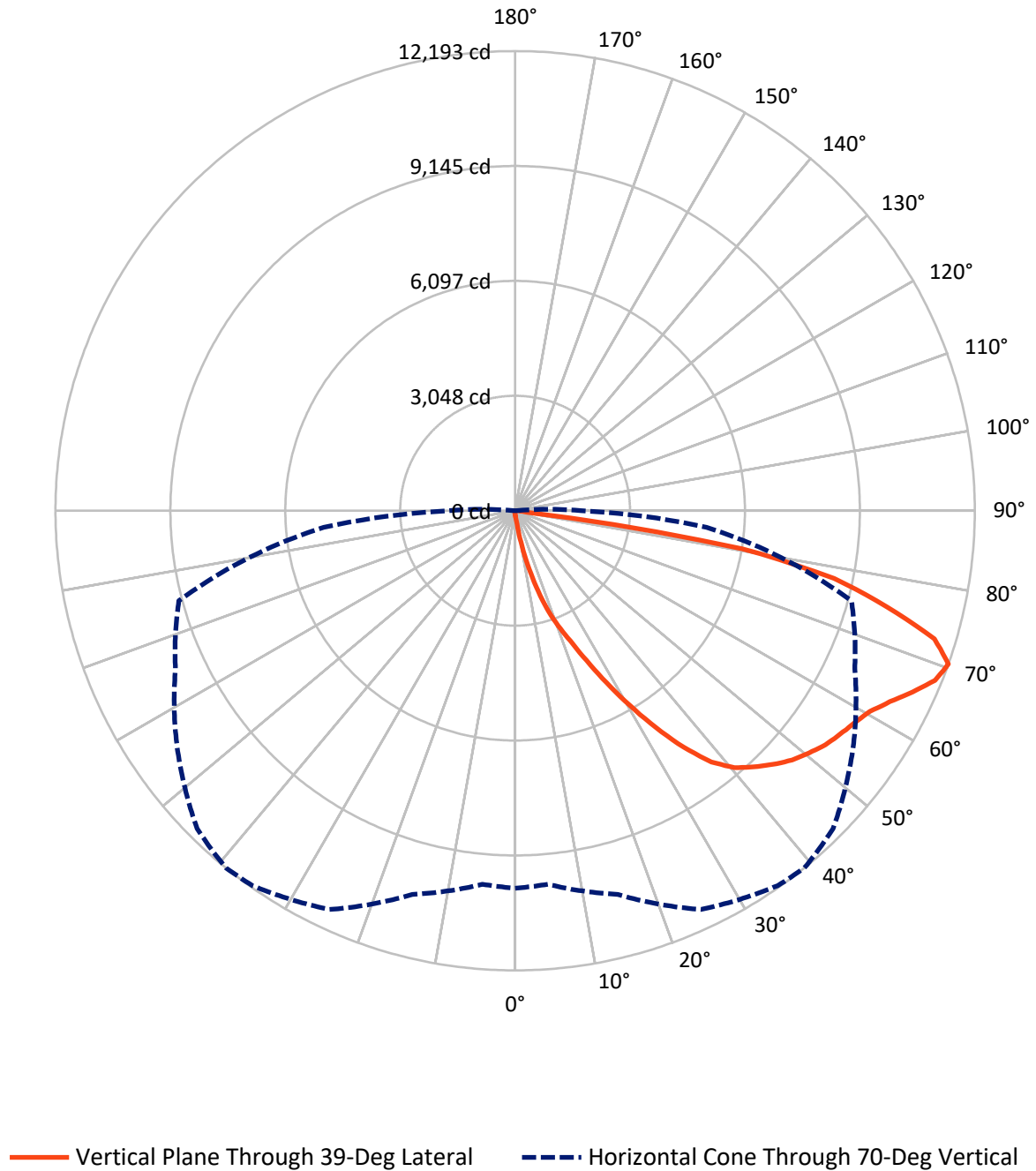


Based on 15 foot mounting height. Maximum calculated value = 21 fc
 Type IV - Short - N/A

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CATALOG NUMBER: NVN-SA4D-830-U-T4BC

Luminous Intensity Polar Plot



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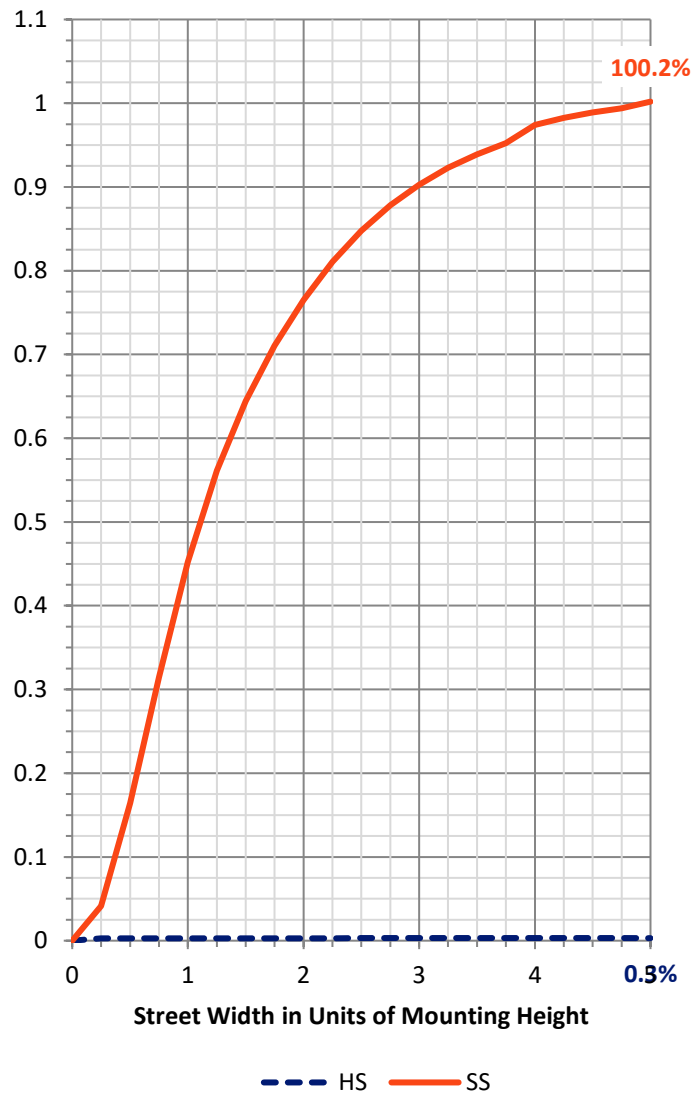
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	59.3	0.0	59.3
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	19191.2	0.0	19191.2
	% Fixture	99.7	0.0	99.7
Total	Lumens	19250.5	0.0	19250.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	0.1
10°-20°	236.7	1.2
20°-30°	803.1	4.2
30°-40°	1887.4	9.8
40°-50°	3064.8	15.9
50°-60°	3883.7	20.2
60°-70°	4933.4	25.6
70°-80°	4008.4	20.8
80°-90°	412.7	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°	19250.5	100.0
0°-180°	19250.5	100.0



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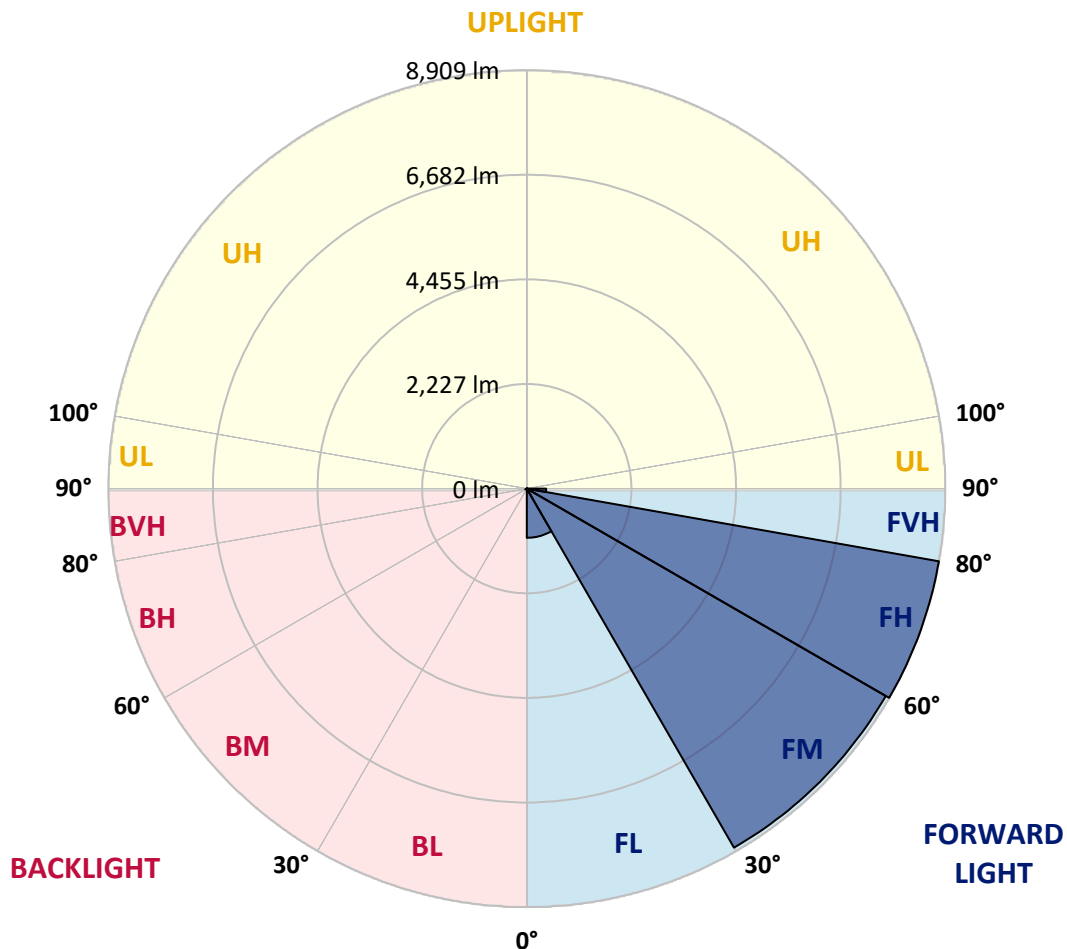
CATALOG NUMBER: NVN-SA4D-830-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.2	5.4			
FM	(30°-60°)	8824.6	45.8			
FH	(60°-80°)	8909.2	46.3			G4/12000
FVH	(80°-90°)	410.2	2.1			G3/500
BL	(0°-30°)	12.8	0.1	B0/110		
BM	(30°-60°)	11.4	0.1	B0/220		
BH	(60°-80°)	32.6	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	135.9	135.9	135.9	130.7	130.7	125.4	125.4	120.2	115.0	115.0	109.8
5°	256.1	261.3	245.6	214.3	193.4	182.9	172.5	146.3	130.7	120.2	109.8
7.5°	700.3	679.4	648.1	543.6	418.1	355.4	303.1	214.3	156.8	125.4	109.8
10°	1473.9	1416.4	1327.5	1186.4	940.8	841.5	653.3	392.0	219.5	141.1	109.8
12.5°	2163.8	2174.2	2064.4	1928.6	1630.7	1463.4	1207.3	736.9	344.9	167.2	109.8
15°	2686.4	2675.9	2634.1	2524.4	2257.8	2095.8	1865.8	1238.7	580.1	209.1	115.0
17.5°	3099.3	3057.5	3041.8	2994.8	2822.3	2733.4	2482.6	1824.0	919.9	282.2	120.2
20°	3512.2	3501.7	3486.0	3433.8	3318.8	3256.1	3062.7	2414.6	1369.3	402.4	130.7
22.5°	4113.2	4055.7	4066.2	3951.2	3857.1	3747.4	3590.6	3041.8	1886.7	574.9	146.3
25°	4818.8	4813.6	4729.9	4677.7	4520.9	4400.7	4191.6	3648.1	2461.7	831.0	162.0
27.5°	5649.8	5592.3	5555.7	5466.9	5304.8	5169.0	4881.5	4249.1	3083.6	1118.5	182.9
30°	6517.4	6517.4	6449.4	6313.6	6156.8	5989.5	5696.8	4881.5	3700.3	1484.3	209.1
32.5°	7531.3	7552.2	7385.0	7181.1	6977.3	6862.3	6480.8	5597.5	4290.9	1902.4	240.4
35°	8513.9	8487.8	8210.8	7986.0	7834.5	7709.0	7385.0	6381.5	4959.9	2388.5	282.2
37.5°	9454.7	9386.7	8926.8	8608.0	8540.0	8456.4	8132.4	7165.5	5623.7	2926.8	334.5
40°	10128.9	10024.3	9548.7	9109.7	9010.4	8963.4	8712.5	7876.3	6324.0	3527.9	402.4
42.5°	10421.5	10301.3	9972.1	9616.7	9397.2	9287.4	9067.9	8456.4	7024.4	4196.8	501.7
45°	10479.0	10385.0	10149.8	10066.1	9768.2	9601.0	9303.1	8869.3	7677.7	4860.6	637.6
47.5°	10270.0	10228.2	10087.1	10264.8	10113.2	9883.2	9522.6	9177.7	8257.8	5665.5	825.8
50°	9757.8	9726.4	9794.4	10259.5	10364.1	10102.7	9763.0	9418.1	8759.5	6496.5	1092.3
52.5°	9067.9	9062.7	9381.5	10123.6	10473.8	10311.8	9998.2	9658.5	9156.7	7301.4	1468.6
55°	8315.3	8404.1	8963.4	9998.2	10536.5	10463.4	10228.2	9872.8	9512.1	8048.7	2074.9
57.5°	8252.6	8216.0	8754.3	9945.9	10573.1	10614.9	10458.1	10097.5	9815.3	8660.2	2885.0
60°	8879.7	8796.1	9000.0	10055.7	10735.1	10808.3	10688.1	10270.0	10118.4	9141.1	3951.2
62.5°	9606.2	9527.8	9632.4	10479.0	11053.9	11158.5	11006.9	10447.7	10364.1	9475.6	5095.8
65°	10186.4	10123.6	10322.2	11111.4	11498.2	11587.0	11482.5	10776.9	10473.8	9747.3	6026.1
67.5°	10280.4	10202.0	10614.9	11534.8	11947.7	12010.4	11926.8	11095.8	10437.2	9768.2	6240.4
70°	10013.9	9945.9	10536.5	11670.7	12141.1	12193.3	11926.8	10944.2	9940.7	9235.1	5101.0
72.5°	9193.3	9245.6	10008.7	11341.4	11874.5	11634.1	11069.6	10181.1	9297.9	7829.2	3580.1
75°	7918.1	7975.6	8989.5	10437.2	10479.0	10186.4	9883.2	9365.8	8320.5	5158.5	2482.6
77.5°	5628.9	5425.1	6940.7	8618.4	8466.9	8655.0	8681.1	7792.6	6966.9	2686.4	1662.0
80°	554.0	470.4	872.8	2472.1	5461.6	6104.5	6355.4	6005.2	5137.6	1202.1	872.8
82.5°	120.2	120.2	130.7	141.1	219.5	329.3	1510.4	3700.3	3318.8	611.5	282.2
85°	67.9	67.9	83.6	99.3	130.7	146.3	172.5	230.0	893.7	219.5	52.3
87.5°	52.3	57.5	67.9	83.6	109.8	120.2	146.3	182.9	224.7	203.8	15.7
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: P1066396

CATALOG NUMBER: NVN-SA4D-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	109.8	104.5	99.3	94.1	88.8	88.8	83.6	83.6	83.6	83.6	83.6
5°	104.5	99.3	94.1	83.6	78.4	73.2	67.9	67.9	67.9	67.9	67.9
7.5°	104.5	99.3	88.8	78.4	67.9	62.7	57.5	52.3	52.3	57.5	57.5
10°	104.5	94.1	78.4	67.9	57.5	52.3	47.0	41.8	41.8	41.8	41.8
12.5°	99.3	88.8	73.2	62.7	52.3	41.8	31.4	26.1	26.1	26.1	26.1
15°	94.1	83.6	67.9	52.3	36.6	26.1	20.9	15.7	15.7	15.7	15.7
17.5°	94.1	78.4	62.7	47.0	26.1	15.7	10.5	5.2	5.2	5.2	10.5
20°	94.1	78.4	57.5	36.6	15.7	10.5	10.5	5.2	0.0	5.2	5.2
22.5°	94.1	73.2	47.0	26.1	15.7	10.5	5.2	0.0	0.0	0.0	0.0
25°	99.3	73.2	41.8	20.9	10.5	5.2	0.0	0.0	0.0	0.0	0.0
27.5°	99.3	67.9	36.6	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	104.5	67.9	31.4	10.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	104.5	62.7	20.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	104.5	57.5	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	104.5	52.3	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	109.8	47.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	115.0	41.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	120.2	36.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	135.9	36.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	156.8	36.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	188.2	36.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	245.6	31.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	355.4	31.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	595.8	31.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1045.3	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1766.5	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2304.9	36.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1750.9	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	836.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	371.1	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	162.0	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	62.7	10.5	5.2	5.2	5.2	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	10.5	5.2	5.2	5.2	5.2	5.2	0.0	0.0	0.0	0.0
85°	15.7	10.5	10.5	10.5	5.2	5.2	5.2	0.0	0.0	0.0	0.0
87.5°	10.5	10.5	10.5	10.5	10.5	5.2	5.2	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

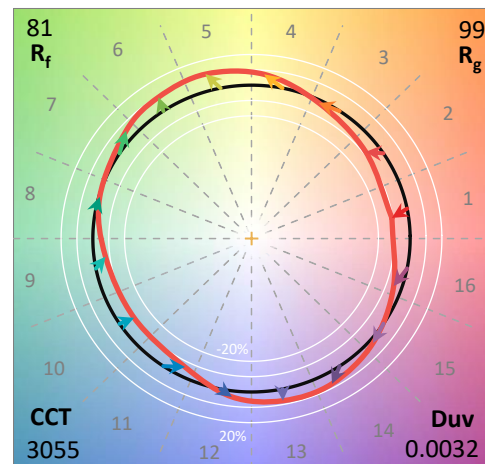
Test Information

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

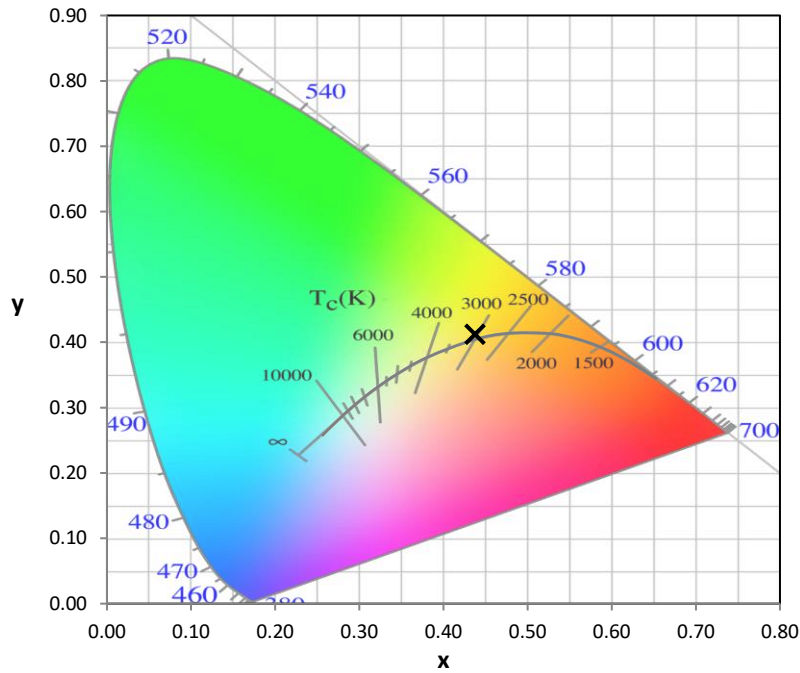
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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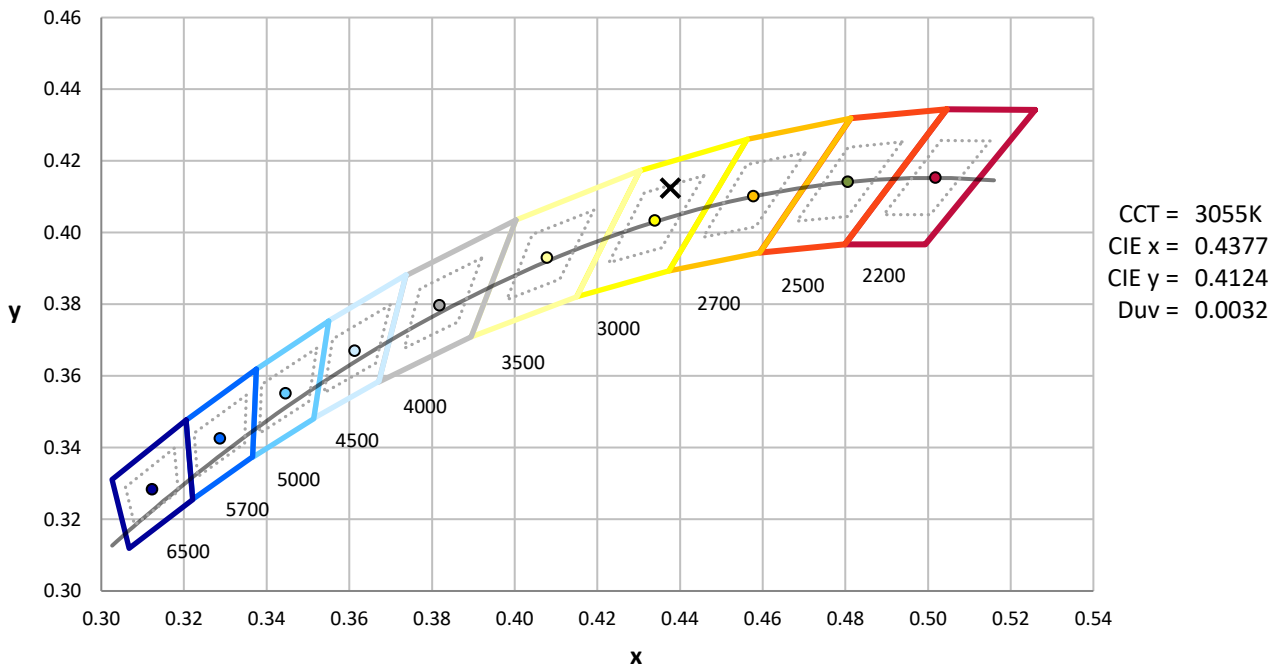
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



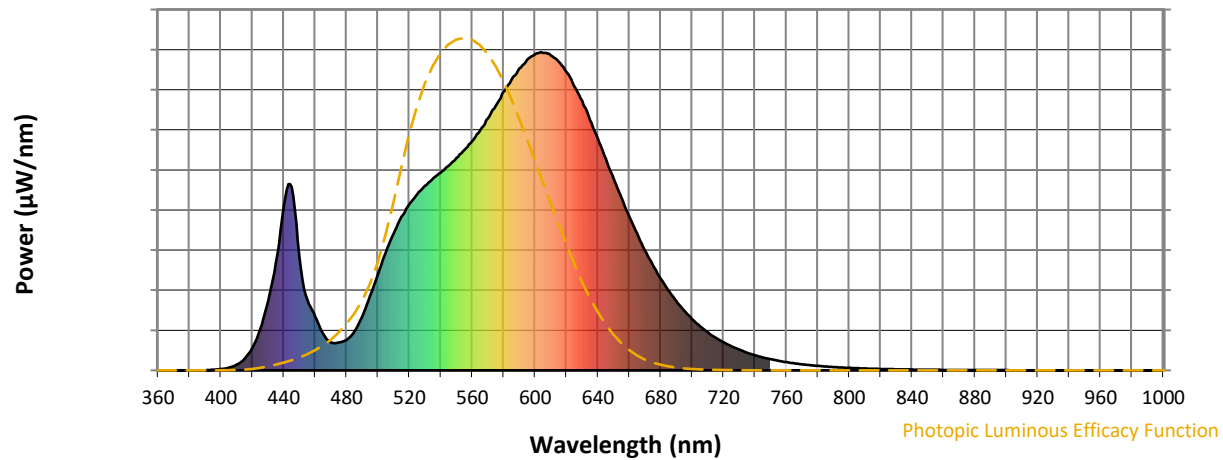
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

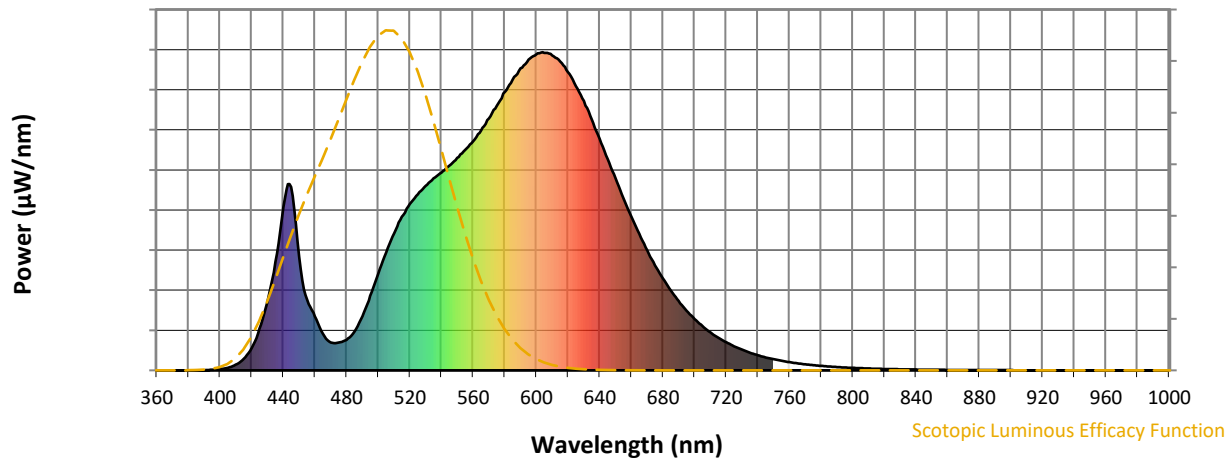


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



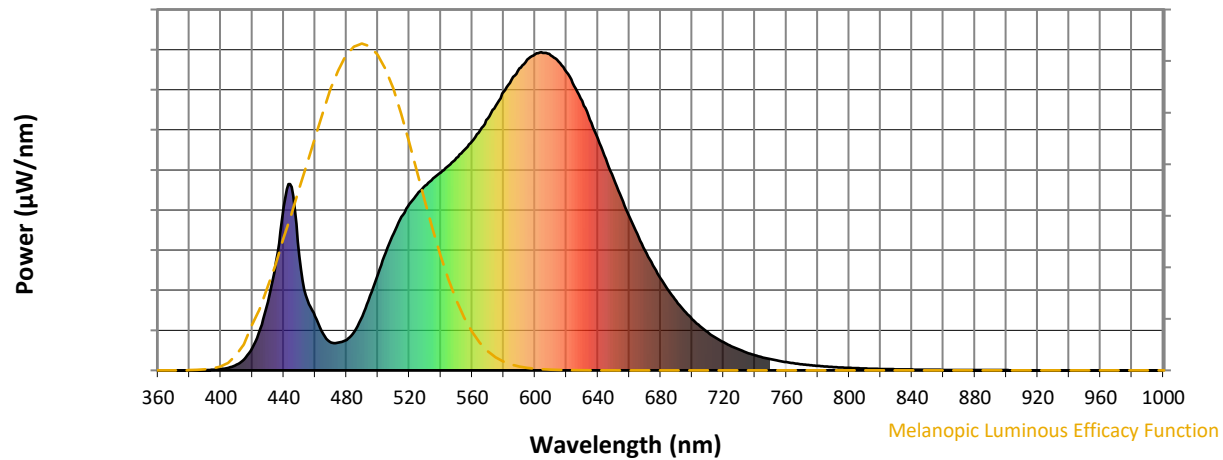
Scotopic Lumens: NR

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

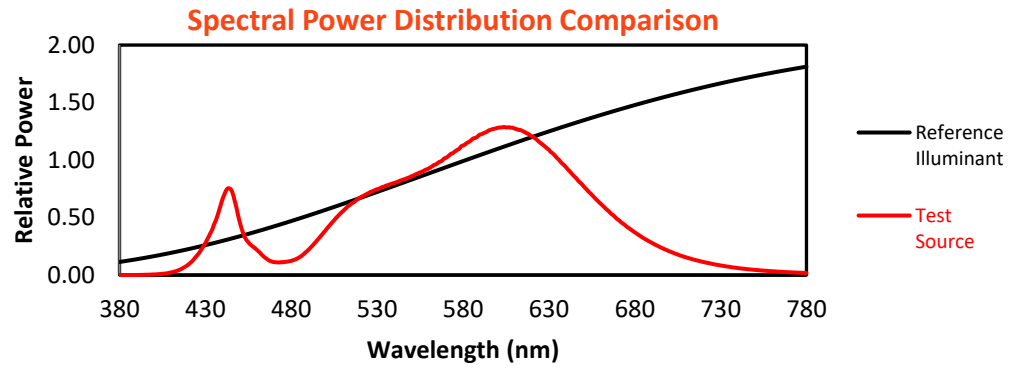
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	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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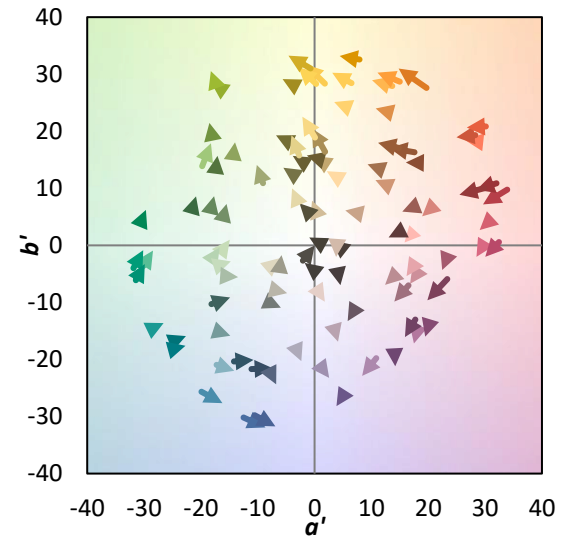
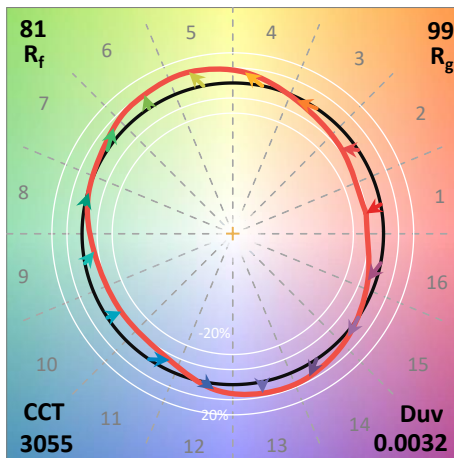
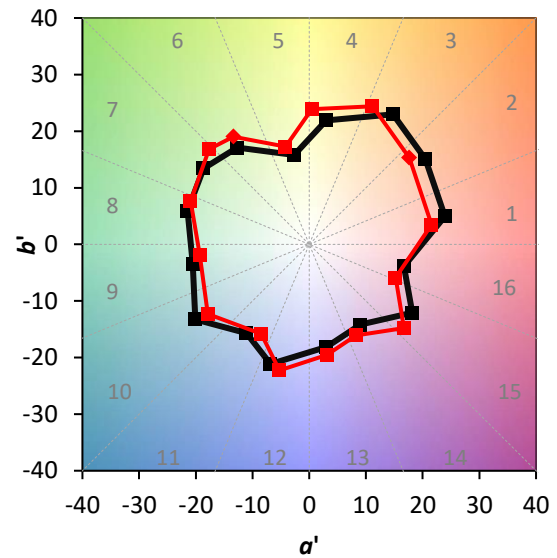
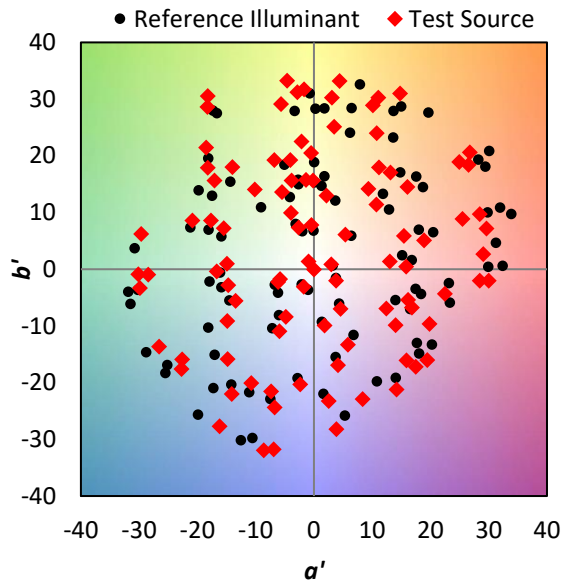
TM-30-18

Summary

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

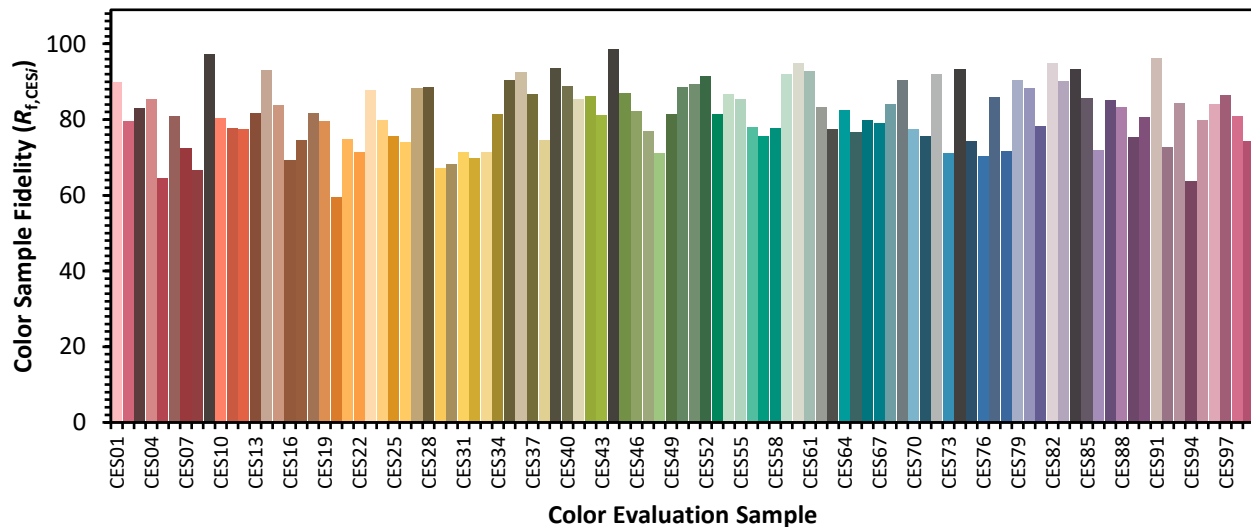


Color Vector Graphics

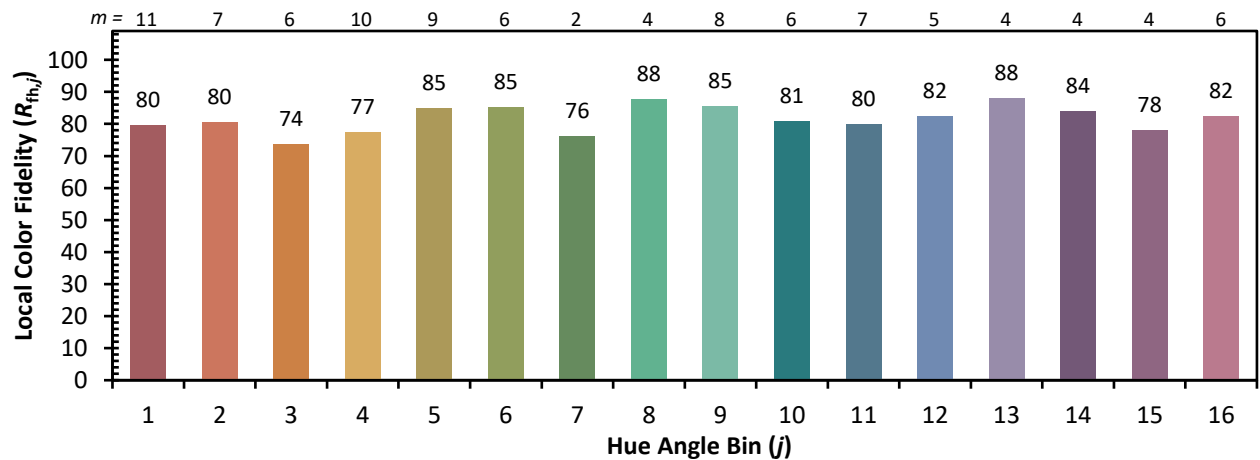
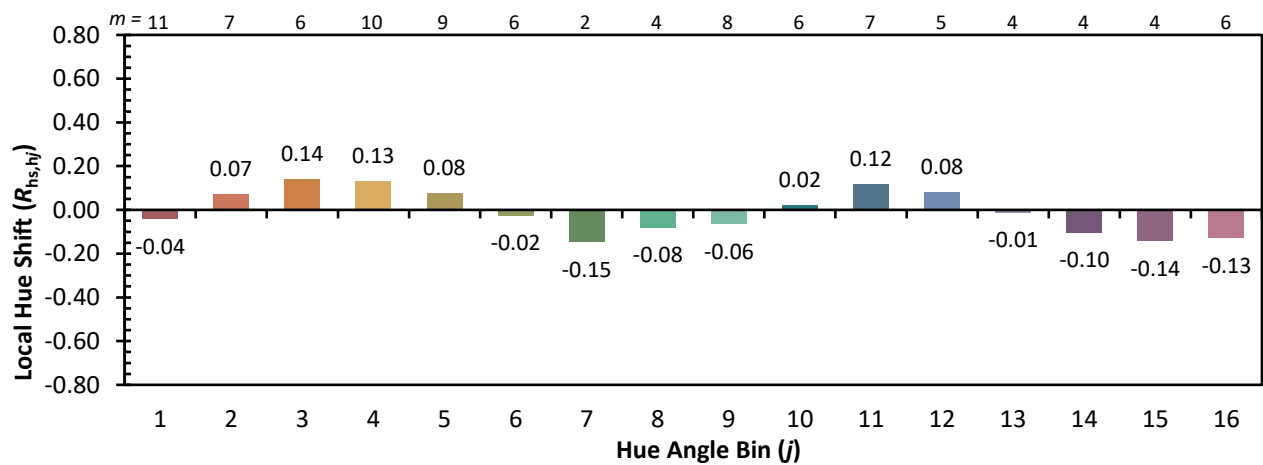
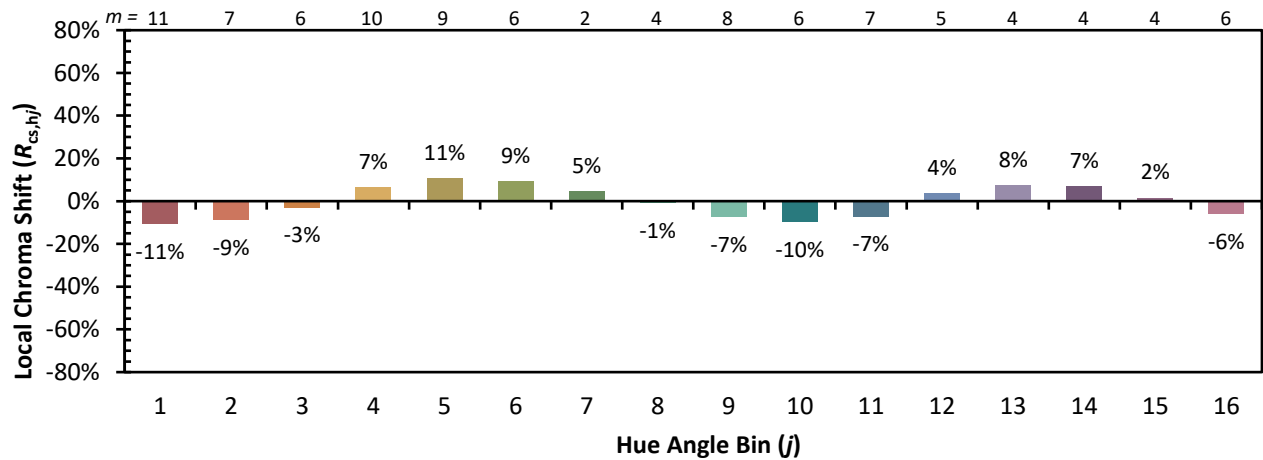


Individual Sample Fidelity Index ($R_{f,i}$)

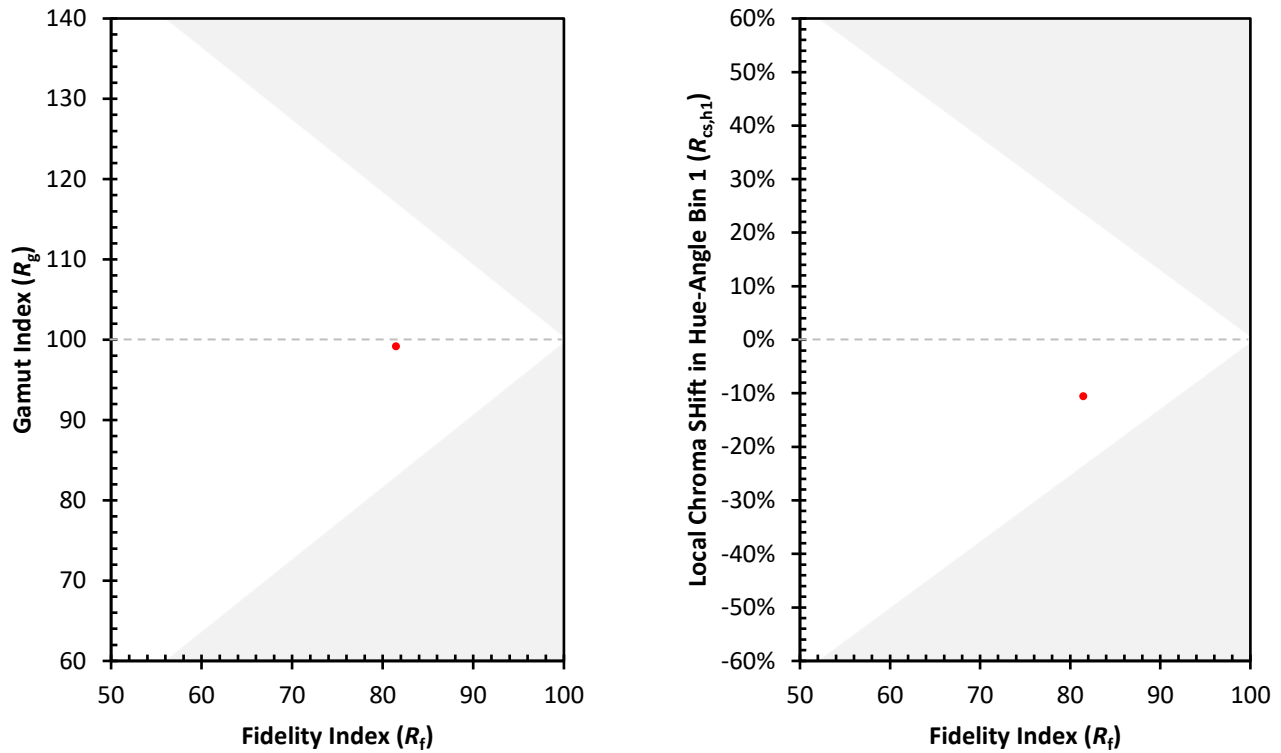
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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