

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: P1066400

Luminaire Tested: **NVN-SA5D-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066400
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA5D-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24156.1 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
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

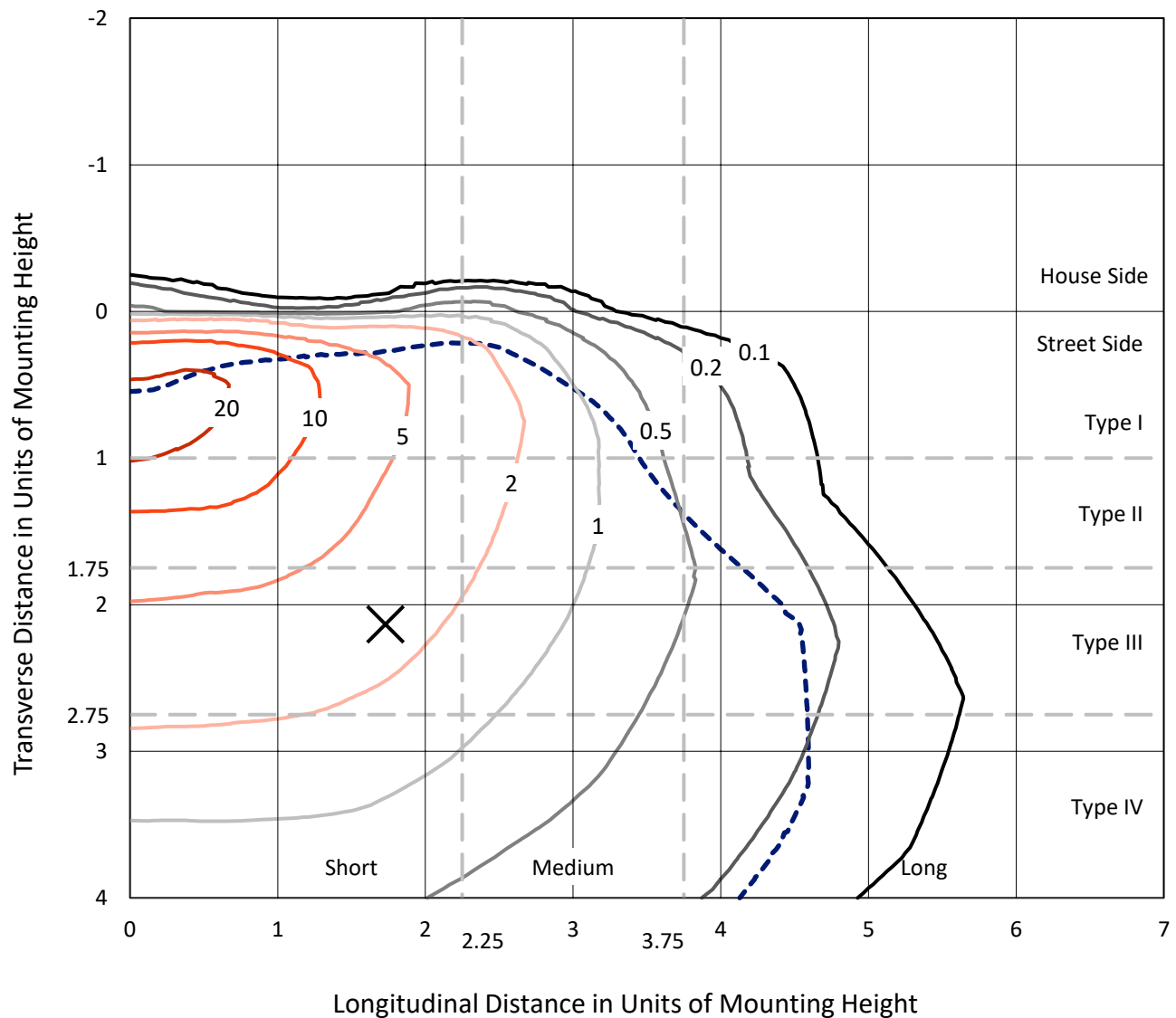


REPORT NUMBER: P1066400

CATALOG NUMBER: NVN-SA5D-830-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

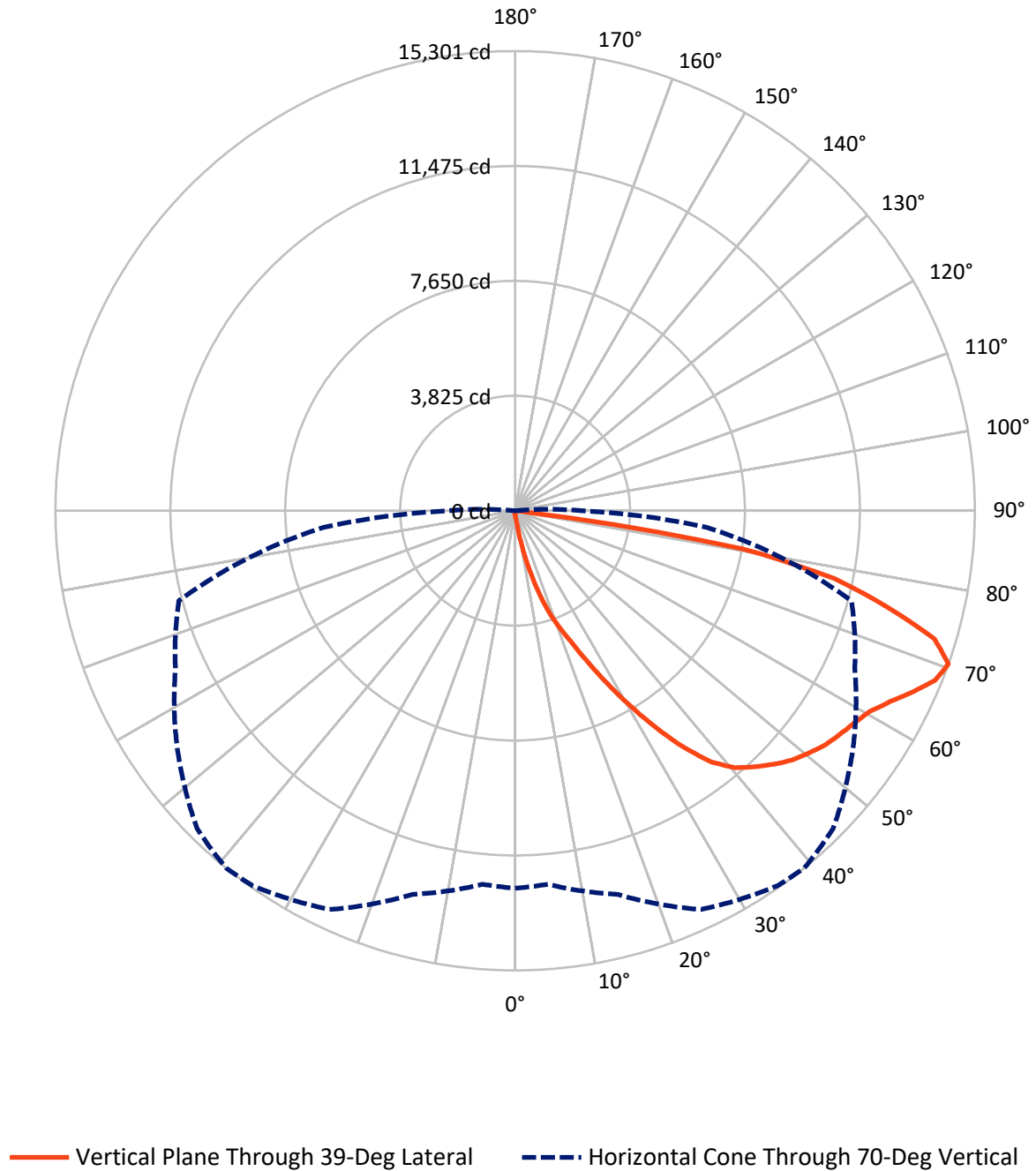


Based on 15 foot mounting height. Maximum calculated value = 26.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P1066400

CATALOG NUMBER: NVN-SA5D-830-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1066400

CATALOG NUMBER: NVN-SA5D-830-U-T4BC

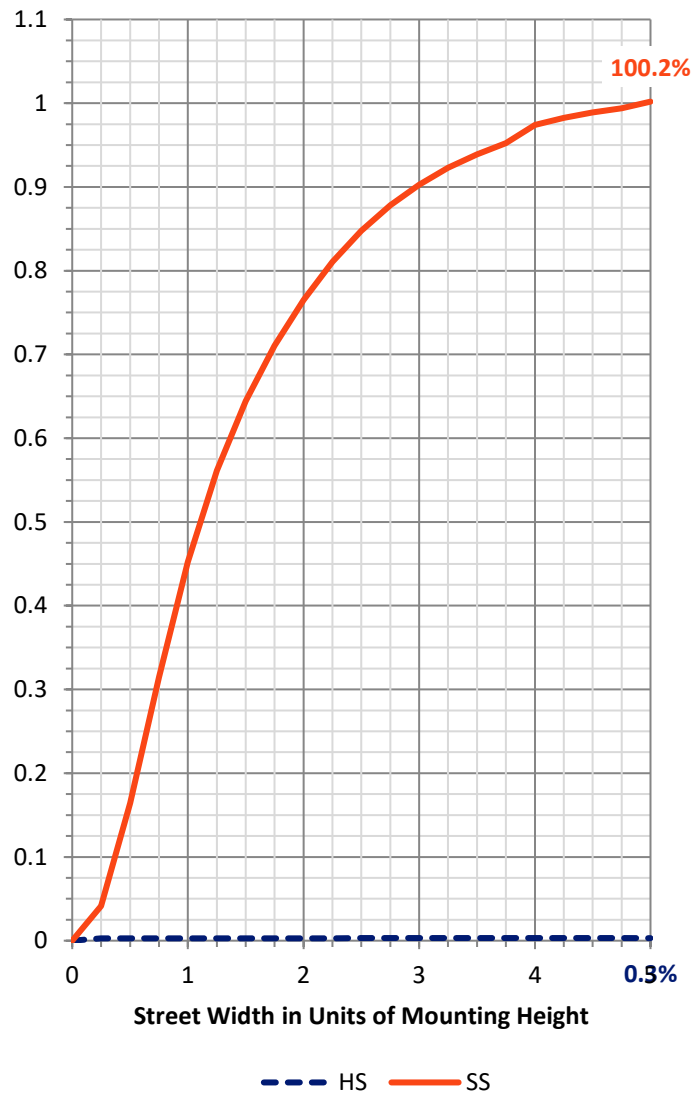
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	74.4	0.0	74.4
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	24081.7	0.0	24081.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	24156.1	0.0	24156.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.1
10°-20°	297.0	1.2
20°-30°	1007.8	4.2
30°-40°	2368.4	9.8
40°-50°	3845.8	15.9
50°-60°	4873.4	20.2
60°-70°	6190.5	25.6
70°-80°	5029.8	20.8
80°-90°	517.9	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°	24156.1	100.0
0°-180°	24156.1	100.0



REPORT NUMBER: P1066400

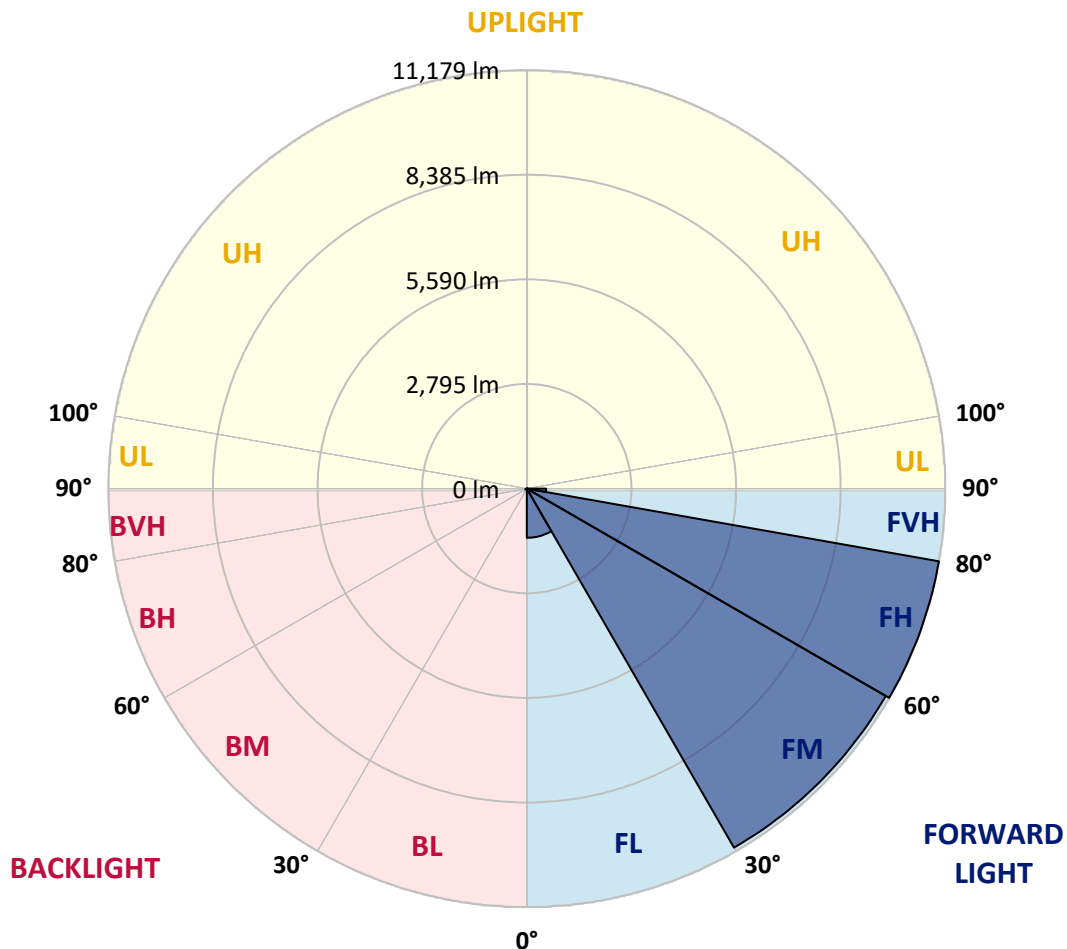
CATALOG NUMBER: NVN-SA5D-830-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.0	5.4			
FM	(30°-60°)	11073.4	45.8			
FH	(60°-80°)	11179.5	46.3			G4/12000
FVH	(80°-90°)	514.8	2.1			G4/750
BL	(0°-30°)	16.1	0.1	B0/110		
BM	(30°-60°)	14.3	0.1	B0/220		
BH	(60°-80°)	40.9	0.2	B0/110		G0/110
BVH	(80°-90°)	3.1	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



REPORT NUMBER: P1066400

CATALOG NUMBER: NVN-SA5D-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	170.5	170.5	170.5	164.0	164.0	157.4	157.4	150.8	144.3	144.3	137.7
5°	321.4	327.9	308.2	268.9	242.7	229.5	216.4	183.6	164.0	150.8	137.7
7.5°	878.8	852.6	813.2	682.1	524.7	446.0	380.4	268.9	196.7	157.4	137.7
10°	1849.4	1777.3	1665.8	1488.7	1180.5	1055.9	819.8	491.9	275.4	177.1	137.7
12.5°	2715.1	2728.3	2590.5	2420.0	2046.2	1836.3	1515.0	924.7	432.8	209.9	137.7
15°	3371.0	3357.8	3305.4	3167.7	2833.2	2629.9	2341.3	1554.3	728.0	262.3	144.3
17.5°	3889.1	3836.6	3816.9	3757.9	3541.5	3430.0	3115.2	2288.8	1154.3	354.1	150.8
20°	4407.2	4394.1	4374.4	4308.8	4164.5	4085.8	3843.2	3029.9	1718.3	505.0	164.0
22.5°	5161.4	5089.2	5102.4	4958.1	4840.0	4702.3	4505.5	3816.9	2367.5	721.4	183.6
25°	6046.7	6040.2	5935.3	5869.7	5672.9	5522.1	5259.8	4577.7	3089.0	1042.8	203.3
27.5°	7089.5	7017.4	6971.5	6860.0	6656.7	6486.2	6125.4	5331.9	3869.4	1403.5	229.5
30°	8178.2	8178.2	8092.9	7922.4	7725.7	7515.8	7148.5	6125.4	4643.3	1862.6	262.3
32.5°	9450.5	9476.7	9266.9	9011.1	8755.3	8611.0	8132.3	7023.9	5384.4	2387.2	301.7
35°	10683.5	10650.7	10303.1	10021.1	9830.9	9673.5	9266.9	8007.7	6223.8	2997.1	354.1
37.5°	11864.0	11778.7	11201.6	10801.5	10716.3	10611.3	10204.7	8991.4	7056.7	3672.6	419.7
40°	12710.0	12578.8	11982.0	11431.1	11306.5	11247.5	10932.7	9883.3	7935.5	4426.8	505.0
42.5°	13077.2	12926.4	12513.2	12067.3	11791.8	11654.1	11378.6	10611.3	8814.3	5266.3	629.6
45°	13149.4	13031.3	12736.2	12631.3	12257.5	12047.6	11673.8	11129.4	9634.1	6099.2	800.1
47.5°	12887.0	12834.6	12657.5	12880.5	12690.3	12401.7	11949.2	11516.4	10362.1	7109.2	1036.2
50°	12244.3	12205.0	12290.2	12873.9	13005.1	12677.2	12250.9	11818.0	10991.7	8152.0	1370.7
52.5°	11378.6	11372.1	11772.1	12703.4	13142.8	12939.5	12546.0	12119.7	11490.1	9161.9	1842.9
55°	10434.2	10545.7	11247.5	12546.0	13221.5	13129.7	12834.6	12388.6	11936.1	10099.8	2603.6
57.5°	10355.5	10309.6	10985.1	12480.4	13267.4	13319.9	13123.1	12670.6	12316.5	10867.1	3620.2
60°	11142.5	11037.6	11293.4	12618.2	13470.7	13562.6	13411.7	12887.0	12696.9	11470.5	4958.1
62.5°	12054.1	11955.8	12086.9	13149.4	13870.8	14002.0	13811.8	13110.0	13005.1	11890.2	6394.3
65°	12782.1	12703.4	12952.6	13942.9	14428.2	14539.7	14408.6	13523.2	13142.8	12231.2	7561.7
67.5°	12900.2	12801.8	13319.9	14474.2	14992.3	15071.0	14966.0	13923.3	13096.9	12257.5	7830.6
70°	12565.7	12480.4	13221.5	14644.7	15234.9	15300.5	14966.0	13733.1	12473.9	11588.5	6400.9
72.5°	11536.0	11601.6	12559.1	14231.5	14900.4	14598.8	13890.5	12775.6	11667.2	9824.3	4492.4
75°	9935.8	10008.0	11280.3	13096.9	13149.4	12782.1	12401.7	11752.5	10440.8	6473.0	3115.2
77.5°	7063.3	6807.5	8709.4	10814.6	10624.4	10860.5	10893.3	9778.4	8742.2	3371.0	2085.5
80°	695.2	590.2	1095.2	3102.1	6853.4	7660.1	7974.9	7535.5	6446.8	1508.4	1095.2
82.5°	150.8	150.8	164.0	177.1	275.4	413.2	1895.3	4643.3	4164.5	767.3	354.1
85°	85.3	85.3	104.9	124.6	164.0	183.6	216.4	288.6	1121.5	275.4	65.6
87.5°	65.6	72.1	85.3	104.9	137.7	150.8	183.6	229.5	282.0	255.8	19.7
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: P1066400

CATALOG NUMBER: NVN-SA5D-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	137.7	131.2	124.6	118.0	111.5	111.5	104.9	104.9	104.9	104.9	104.9
5°	131.2	124.6	118.0	104.9	98.4	91.8	85.3	85.3	85.3	85.3	85.3
7.5°	131.2	124.6	111.5	98.4	85.3	78.7	72.1	65.6	65.6	72.1	72.1
10°	131.2	118.0	98.4	85.3	72.1	65.6	59.0	52.5	52.5	52.5	52.5
12.5°	124.6	111.5	91.8	78.7	65.6	52.5	39.3	32.8	32.8	32.8	32.8
15°	118.0	104.9	85.3	65.6	45.9	32.8	26.2	19.7	19.7	19.7	19.7
17.5°	118.0	98.4	78.7	59.0	32.8	19.7	13.1	6.6	6.6	6.6	13.1
20°	118.0	98.4	72.1	45.9	19.7	13.1	13.1	6.6	0.0	6.6	6.6
22.5°	118.0	91.8	59.0	32.8	19.7	13.1	6.6	0.0	0.0	0.0	0.0
25°	124.6	91.8	52.5	26.2	13.1	6.6	0.0	0.0	0.0	0.0	0.0
27.5°	124.6	85.3	45.9	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
30°	131.2	85.3	39.3	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	131.2	78.7	26.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	131.2	72.1	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	131.2	65.6	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	137.7	59.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	144.3	52.5	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	150.8	45.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	170.5	45.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	196.7	45.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	236.1	45.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	308.2	39.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	446.0	39.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	747.6	39.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1311.7	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2216.7	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2892.2	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2197.0	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1049.3	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	465.6	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	203.3	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.7	13.1	6.6	6.6	6.6	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	13.1	6.6	6.6	6.6	6.6	6.6	0.0	0.0	0.0	0.0
85°	19.7	13.1	13.1	13.1	6.6	6.6	6.6	0.0	0.0	0.0	0.0
87.5°	13.1	13.1	13.1	13.1	13.1	6.6	6.6	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

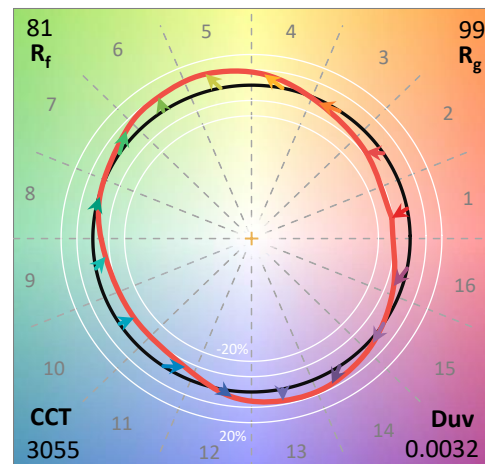
Test Information

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

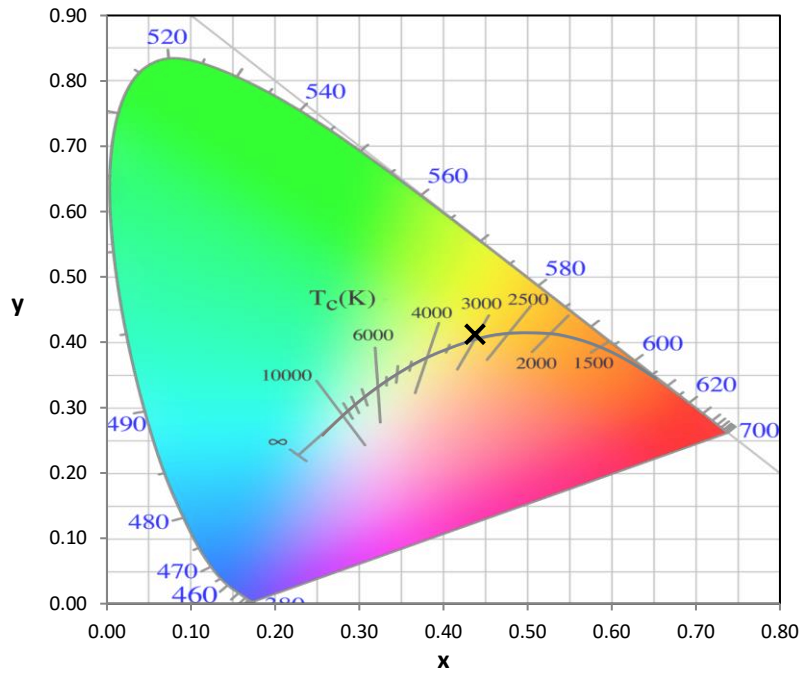
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

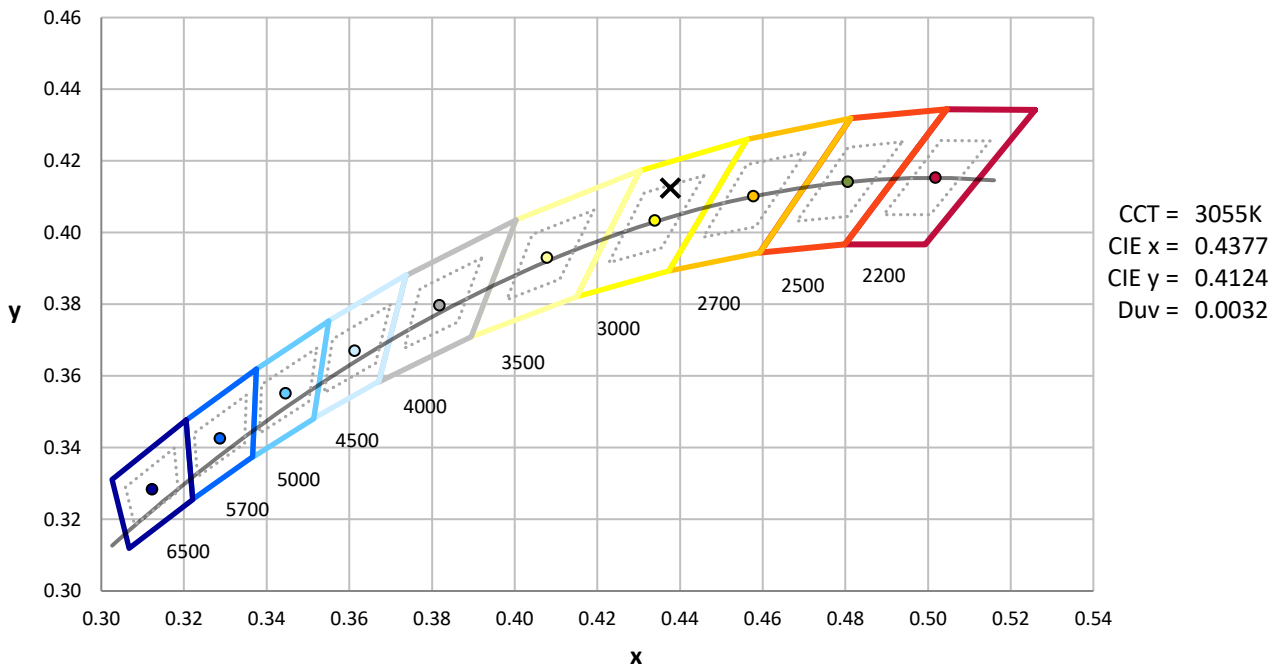
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



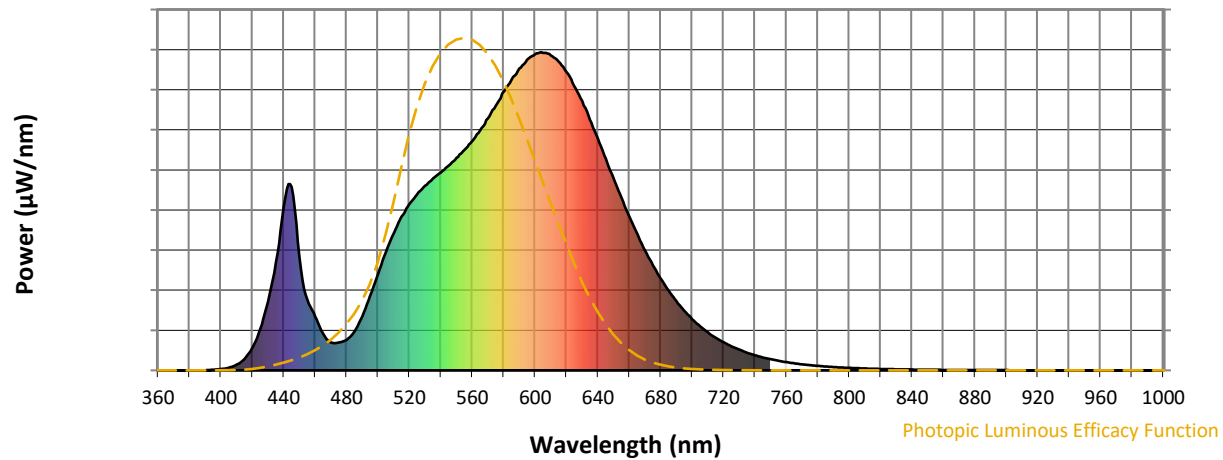
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

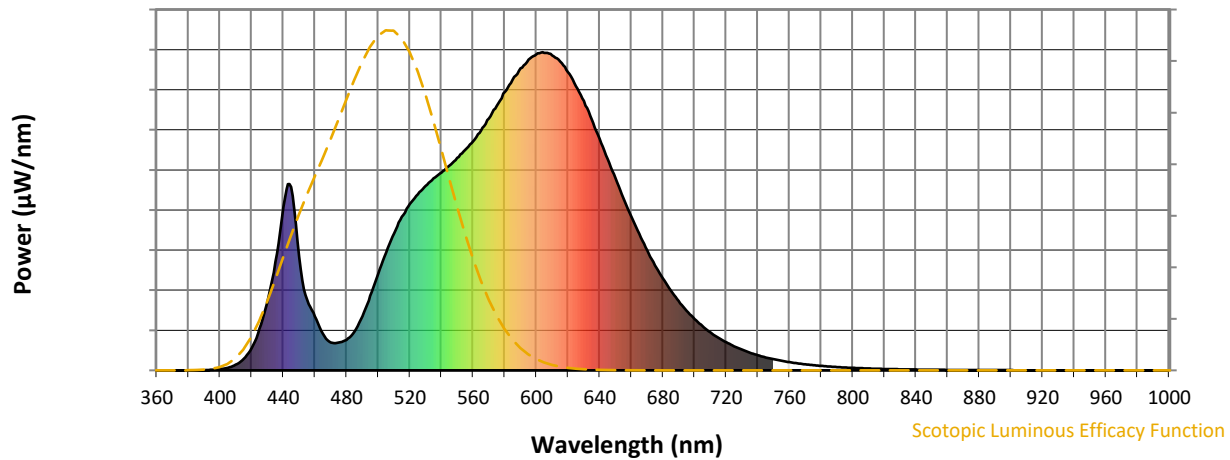


Photopic Lumens: NR

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



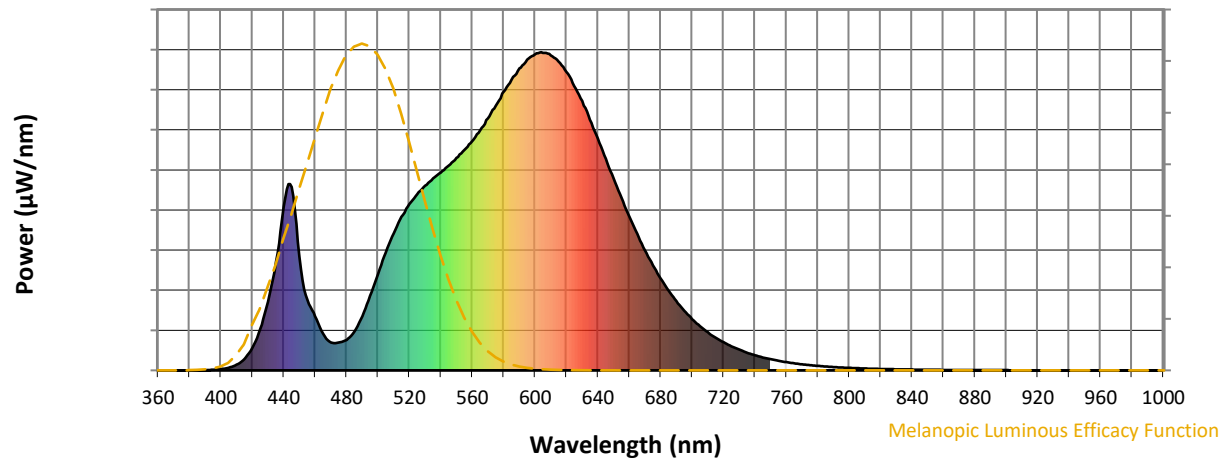
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

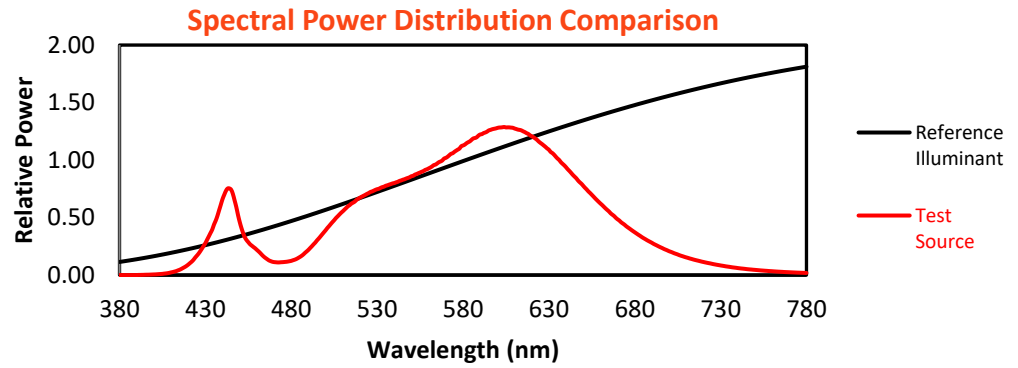
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938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

REPORT NUMBER: SP1-2407-184-9

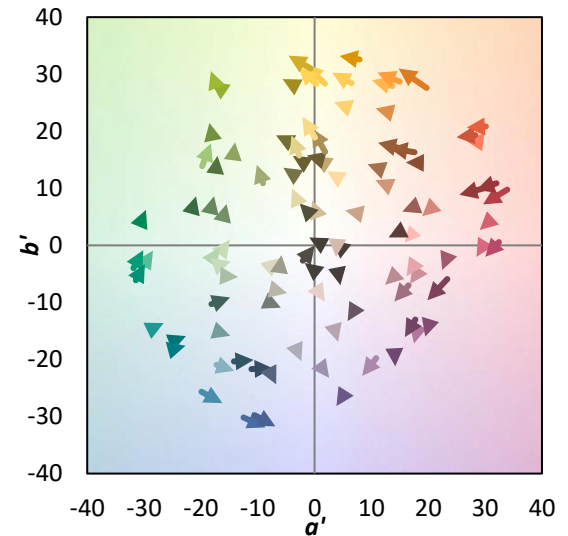
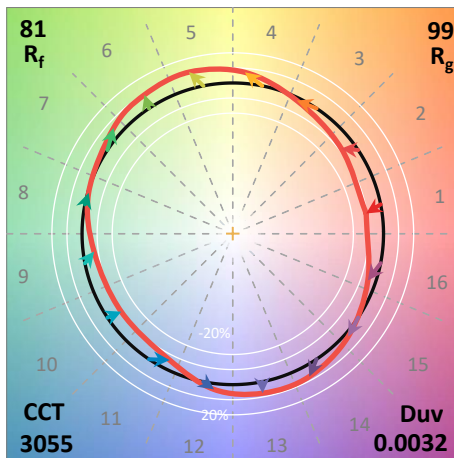
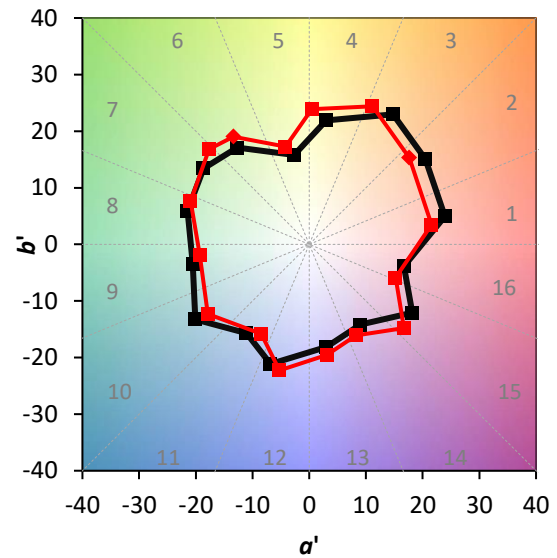
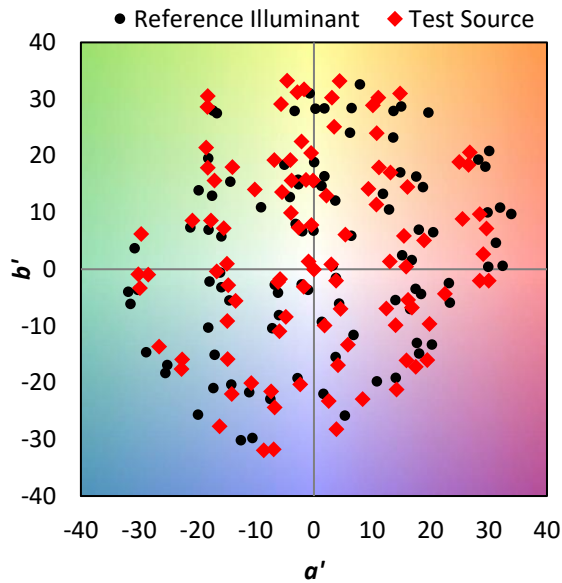
TM-30-18

Summary

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

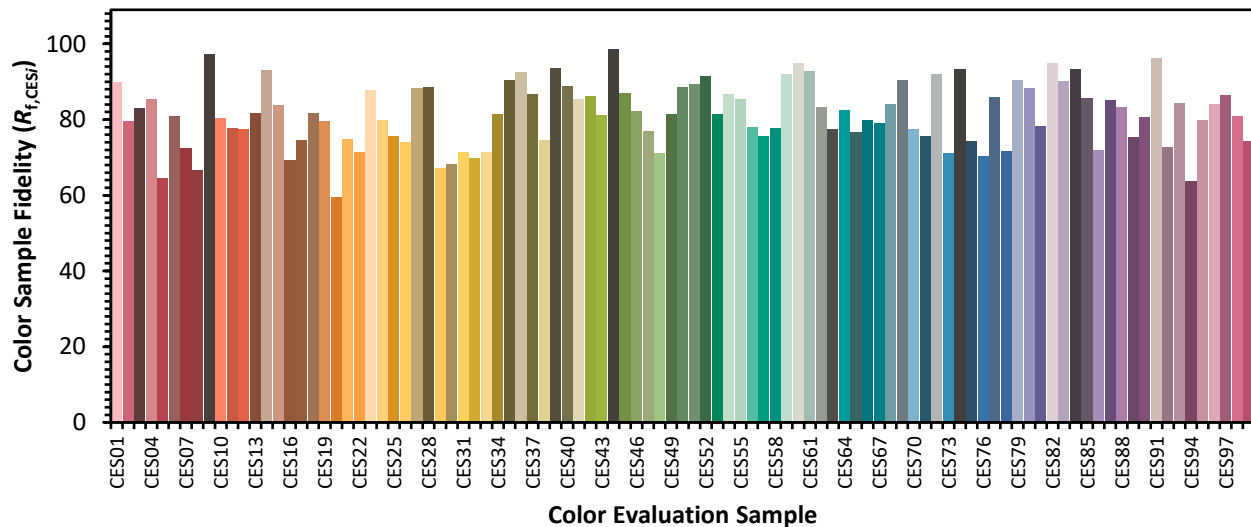


Color Vector Graphics

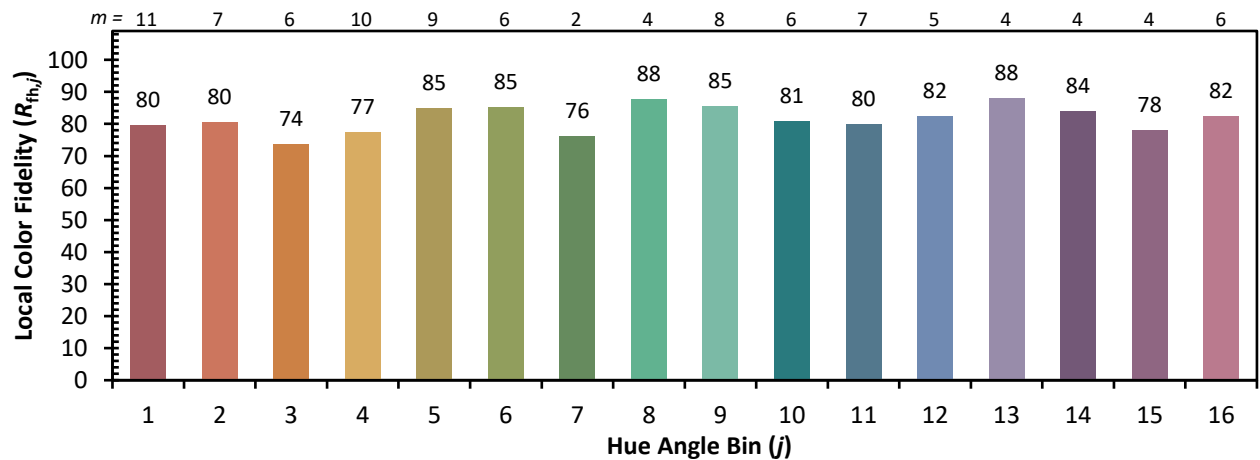
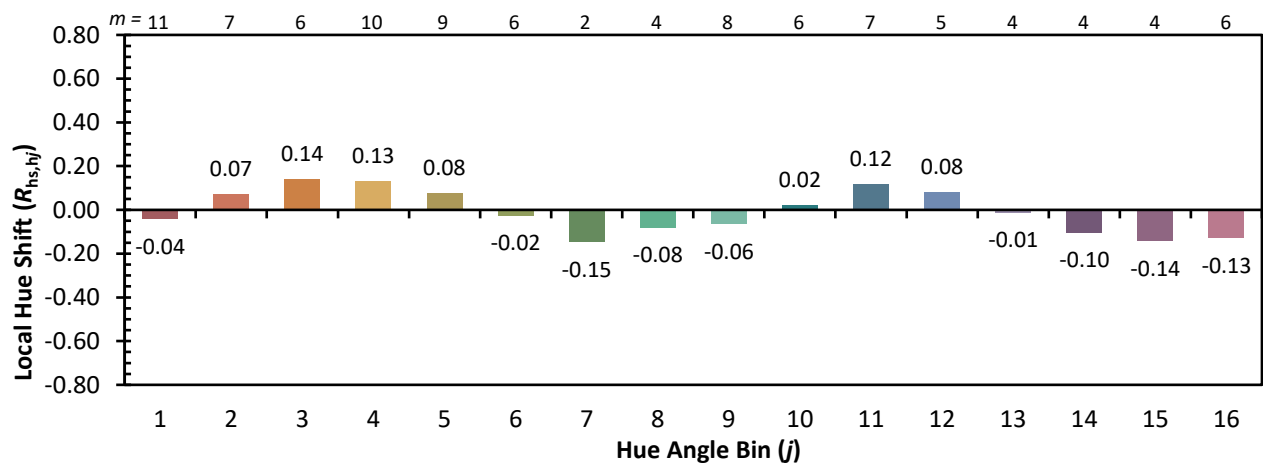
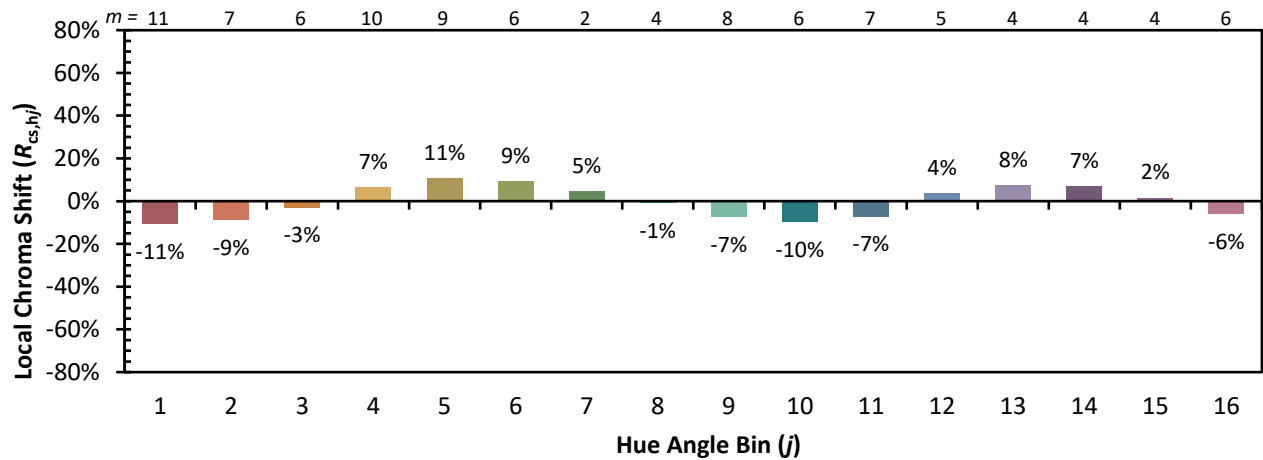


Individual Sample Fidelity Index ($R_{f,i}$)

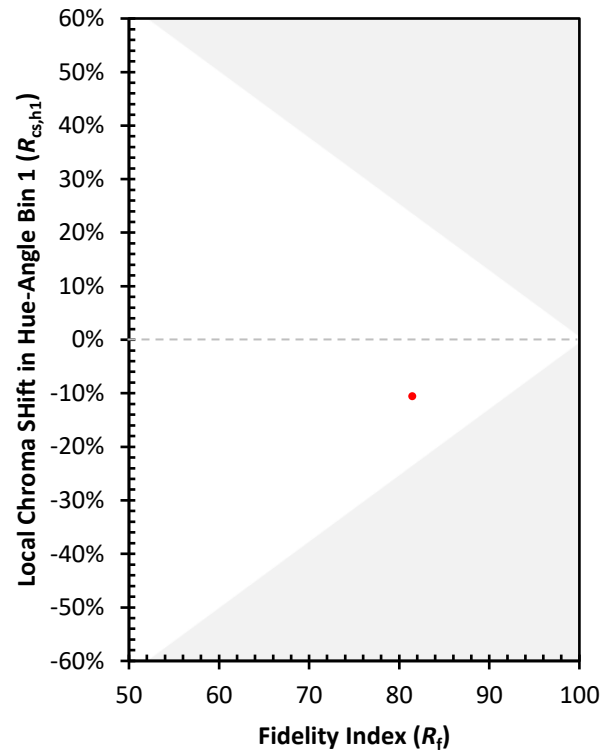
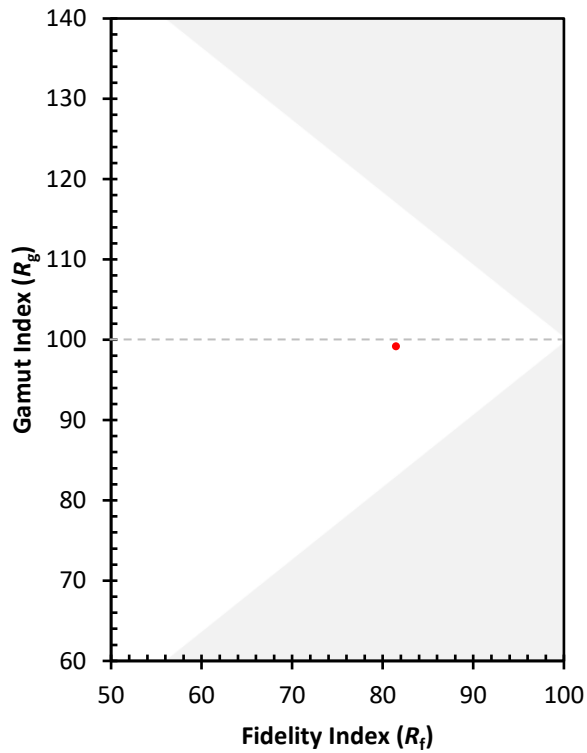
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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