

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: P1066036

Luminaire Tested: **NVN-SA4D-730-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066036
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4D-730-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21757 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G3

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



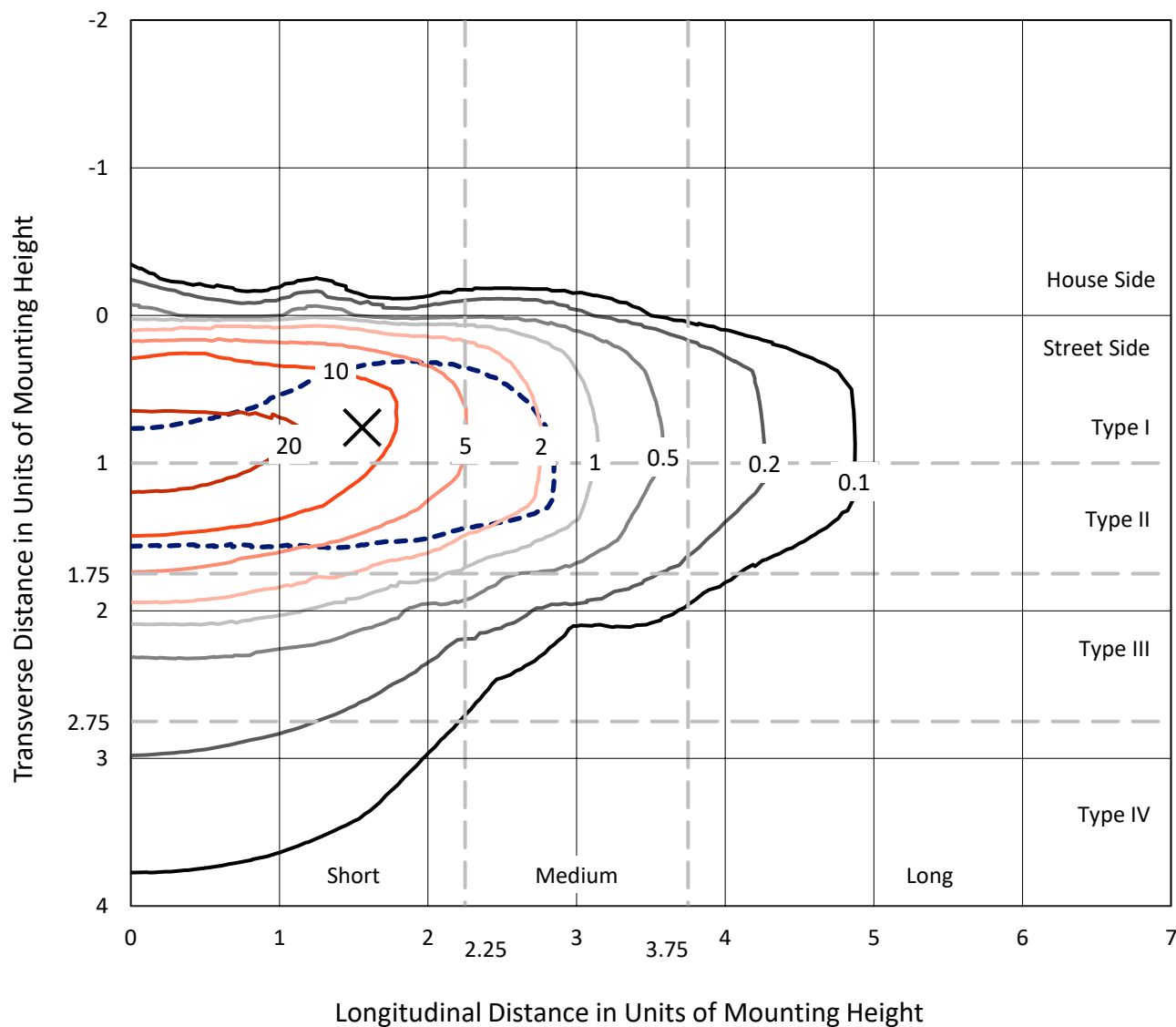
REPORT NUMBER: P1066036

CATALOG NUMBER: NVN-SA4D-730-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

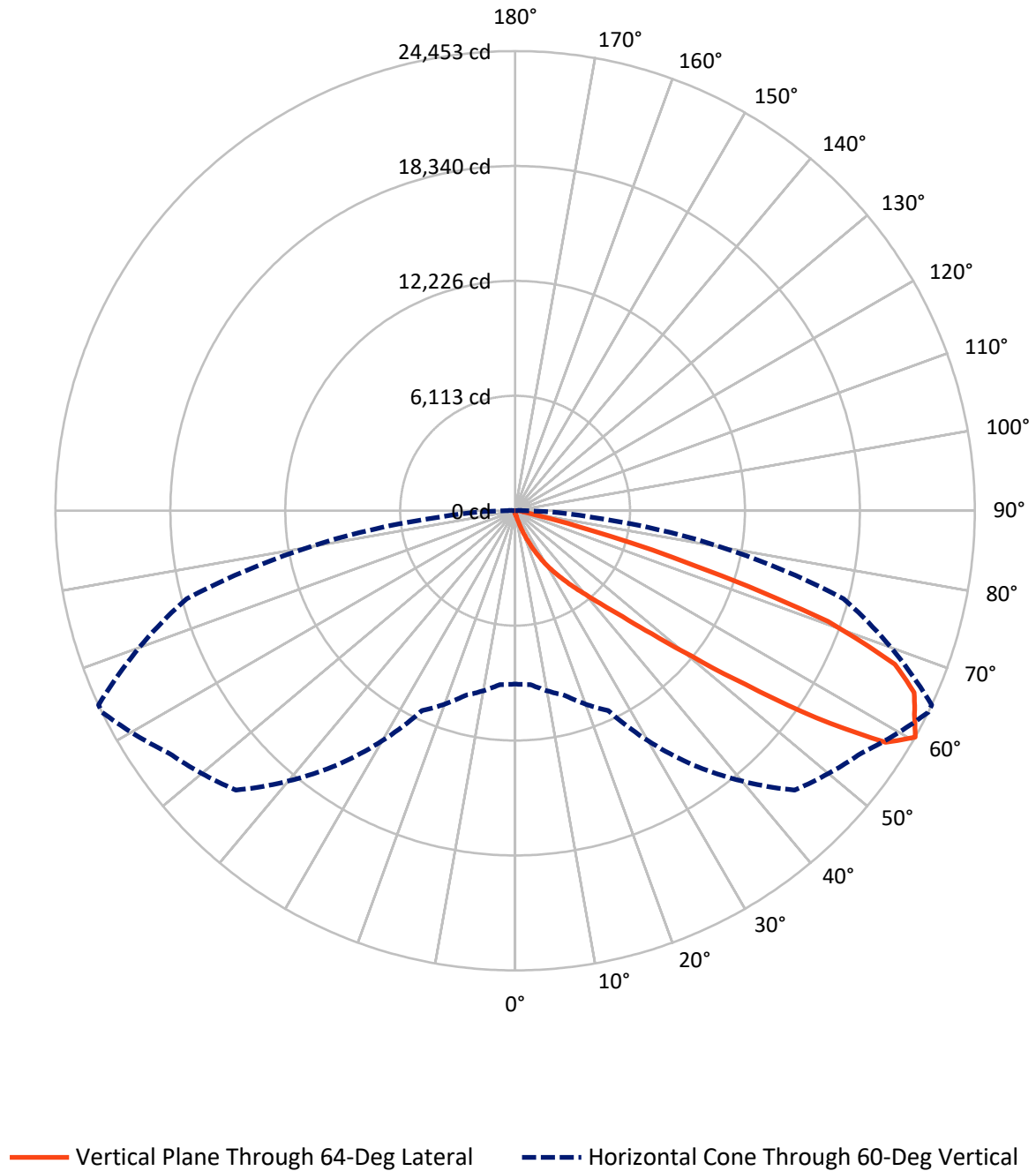


Based on 15 foot mounting height. Maximum calculated value = 31.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: NVN-SA4D-730-U-T2BC

Luminous Intensity Polar Plot



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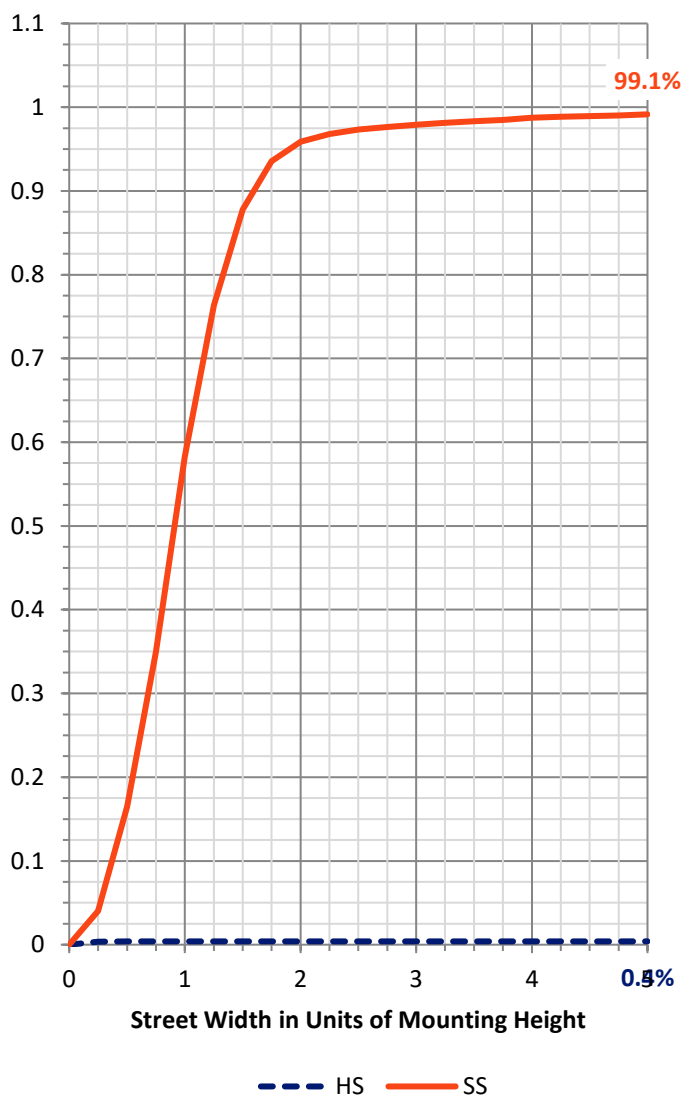
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.2	0.0	88.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	21668.8	0.0	21668.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	21757.0	0.0	21757.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.1
10°-20°	213.8	1.0
20°-30°	710.1	3.3
30°-40°	1894.7	8.7
40°-50°	4816.0	22.1
50°-60°	7020.7	32.3
60°-70°	5422.8	24.9
70°-80°	1489.2	6.8
80°-90°	168.1	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°	21757.0	100.0
0°-180°	21757.0	100.0



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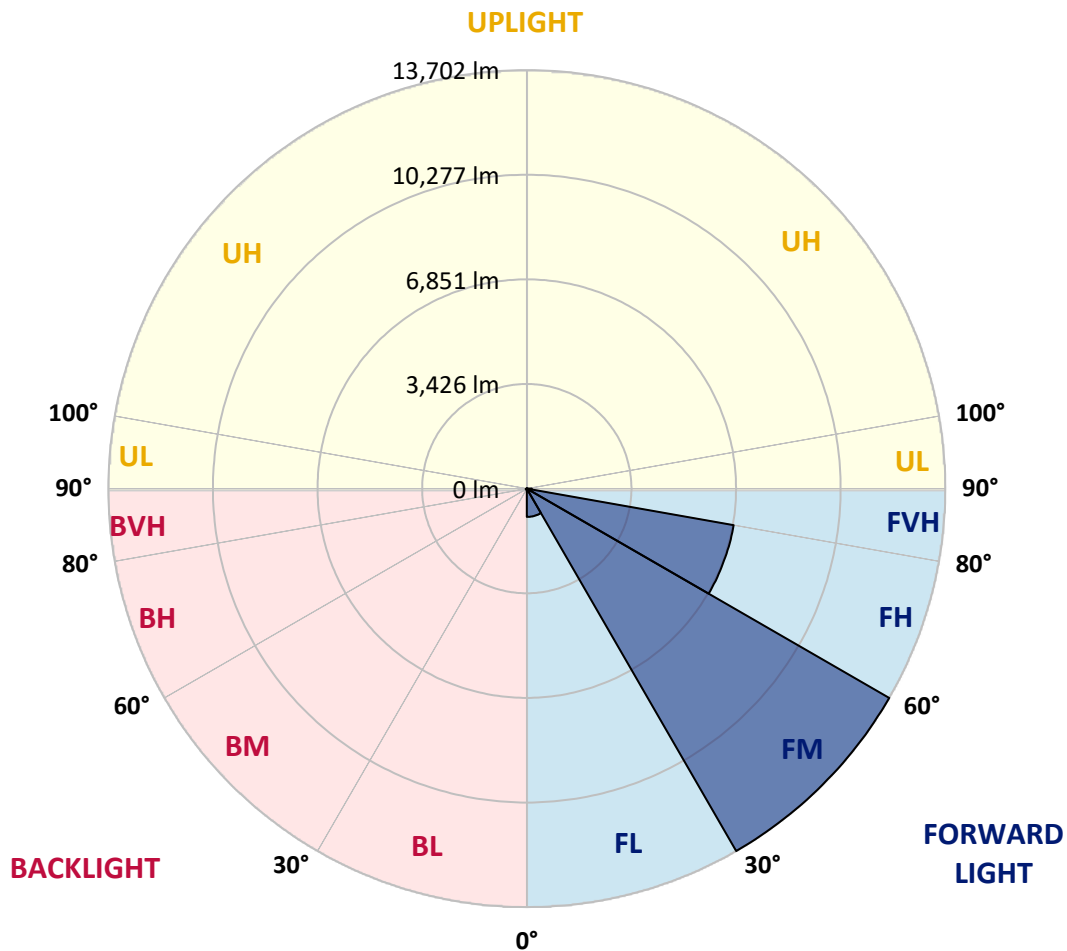
CATALOG NUMBER: NVN-SA4D-730-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	925.7	4.3			
FM	(30°-60°)	13702.2	63.0			
FH	(60°-80°)	6876.8	31.6			G3/7500
FVH	(80°-90°)	164.1	0.8			G2/225
BL	(0°-30°)	19.8	0.1	B0/110		
BM	(30°-60°)	29.2	0.1	B0/220		
BH	(60°-80°)	35.2	0.2	B0/110		G0/110
BVH	(80°-90°)	4.0	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-G3

Type II Short



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CATALOG NUMBER: NVN-SA4D-730-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7
2.5°	191.6	191.6	191.6	185.7	179.7	179.7	173.7	167.7	167.7	155.7	149.7
5°	293.5	293.5	281.5	269.5	251.5	227.6	203.6	185.7	185.7	167.7	155.7
7.5°	574.9	592.9	539.0	473.1	383.3	323.4	257.5	215.6	209.6	179.7	155.7
10°	1245.7	1233.7	1149.9	988.2	778.6	563.0	359.3	263.5	251.5	191.6	155.7
12.5°	1874.5	1892.5	1802.7	1623.0	1371.5	1000.1	616.9	341.4	329.4	209.6	155.7
15°	2413.5	2413.5	2353.6	2263.8	1988.3	1599.0	994.2	509.1	467.1	227.6	149.7
17.5°	2784.8	2778.9	2754.9	2730.9	2569.2	2168.0	1521.2	814.5	718.7	269.5	149.7
20°	3204.1	3186.1	3216.0	3168.1	3042.4	2725.0	2078.2	1209.8	1119.9	341.4	149.7
22.5°	3641.3	3659.2	3683.2	3635.3	3497.5	3222.0	2665.1	1718.8	1623.0	473.1	155.7
25°	4198.2	4186.3	4240.2	4198.2	4024.6	3701.2	3216.0	2275.8	2138.0	658.8	167.7
27.5°	4881.0	4857.0	4892.9	4785.1	4557.6	4228.2	3707.1	2844.7	2683.0	946.2	191.6
30°	5785.3	5803.3	5641.6	5515.8	5192.4	4755.2	4252.1	3455.6	3287.9	1287.6	215.6
32.5°	7210.7	7084.9	6833.4	6324.3	5899.1	5342.1	4797.1	3988.6	3838.9	1724.8	251.5
35°	9432.5	9456.5	8905.5	7647.8	6725.6	6078.8	5396.0	4575.5	4467.7	2221.9	299.4
37.5°	12139.5	12073.7	11588.6	10001.5	7935.3	6995.1	6078.8	5216.3	5060.6	2760.9	359.3
40°	15205.9	14930.4	14648.9	13570.9	10456.7	8144.9	6941.2	5959.0	5839.2	3383.7	455.2
42.5°	17661.3	17589.5	17637.4	17188.2	14660.9	10103.3	8085.0	6869.3	6725.6	4156.3	622.8
45°	18871.1	18769.3	19056.7	19392.1	18745.3	14271.6	9929.6	8031.1	7839.5	5066.6	880.4
47.5°	18547.7	18475.8	19092.7	19751.5	20613.9	19104.7	12942.1	9767.9	9438.5	6234.5	1263.7
50°	16954.6	16960.6	17972.7	19200.5	20565.9	21554.1	17403.8	12145.5	11732.3	7785.6	1862.6
52.5°	15403.5	15451.4	16523.4	18314.1	19853.3	21841.6	21320.6	15349.6	14678.8	9612.2	2569.2
55°	13810.4	13834.4	14780.7	17302.0	19517.9	20985.2	23332.8	19476.0	18763.3	11888.0	3258.0
57.5°	12277.3	12277.3	12630.6	14870.5	19152.6	20907.3	23093.3	23249.0	22668.1	14487.2	3767.0
60°	9222.9	9282.8	10163.2	11732.3	16517.4	21021.1	22482.4	24452.8	24452.8	18092.5	4156.3
62.5°	4659.4	4749.2	5845.2	7372.4	11331.0	19452.0	22578.2	23847.9	23943.7	21272.6	5042.7
65°	2186.0	2287.8	2874.7	3952.7	6096.7	13690.7	21584.1	23332.8	23302.9	20667.8	6911.2
67.5°	1569.1	1599.0	1796.7	2305.7	3281.9	6000.9	16475.5	21793.7	21805.7	17559.5	7947.3
70°	1407.4	1407.4	1455.3	1605.0	1976.3	2683.0	8007.2	17649.3	18505.8	13558.9	7366.4
72.5°	1389.4	1377.5	1365.5	1371.5	1335.5	1347.5	2748.9	9965.6	11187.3	9486.4	5875.1
75°	1353.5	1353.5	1341.5	1299.6	1066.0	868.4	946.2	4030.5	4659.4	6336.3	4359.9
77.5°	1072.0	1179.8	1305.6	1227.7	976.2	652.8	551.0	1167.8	1473.3	3886.8	3162.1
80°	497.1	503.1	497.1	521.0	622.8	467.1	407.2	568.9	574.9	2156.0	1958.4
82.5°	359.3	365.3	347.4	311.4	275.5	251.5	335.4	419.2	449.2	988.2	730.6
85°	107.8	101.8	119.8	161.7	191.6	221.6	281.5	353.3	371.3	365.3	107.8
87.5°	47.9	47.9	59.9	83.8	113.8	167.7	245.5	323.4	329.4	377.3	29.9
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-SA4D-730-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7	143.7
2.5°	149.7	143.7	137.7	131.8	125.8	119.8	113.8	113.8	119.8	119.8	119.8
5°	143.7	137.7	125.8	113.8	107.8	101.8	95.8	95.8	101.8	101.8	101.8
7.5°	143.7	131.8	119.8	107.8	95.8	89.8	83.8	83.8	83.8	89.8	89.8
10°	143.7	131.8	113.8	95.8	83.8	77.9	71.9	65.9	71.9	71.9	71.9
12.5°	137.7	125.8	107.8	89.8	71.9	59.9	53.9	53.9	53.9	53.9	53.9
15°	131.8	119.8	101.8	77.9	59.9	47.9	35.9	35.9	35.9	41.9	41.9
17.5°	125.8	113.8	89.8	59.9	41.9	29.9	24.0	24.0	24.0	29.9	29.9
20°	125.8	107.8	77.9	47.9	29.9	18.0	12.0	12.0	12.0	18.0	24.0
22.5°	125.8	107.8	71.9	35.9	18.0	12.0	6.0	6.0	6.0	6.0	6.0
25°	125.8	101.8	65.9	29.9	12.0	6.0	0.0	0.0	6.0	12.0	18.0
27.5°	125.8	95.8	53.9	18.0	12.0	6.0	0.0	6.0	12.0	12.0	12.0
30°	125.8	95.8	47.9	18.0	6.0	0.0	0.0	6.0	12.0	12.0	18.0
32.5°	131.8	89.8	41.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	137.7	83.8	35.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	149.7	83.8	24.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	167.7	89.8	24.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	209.6	95.8	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	293.5	119.8	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	431.2	179.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	628.8	245.5	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	772.6	245.5	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	766.6	155.7	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	586.9	107.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	497.1	77.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	598.9	59.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1066.0	53.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1712.8	53.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1916.5	53.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1497.2	47.9	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	820.5	41.9	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	413.2	29.9	12.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.7	24.0	12.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.9	24.0	12.0	12.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	18.0	18.0	12.0	12.0	6.0	6.0	0.0	0.0	0.0	0.0
87.5°	18.0	18.0	18.0	12.0	12.0	6.0	6.0	0.0	0.0	0.0	6.0
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

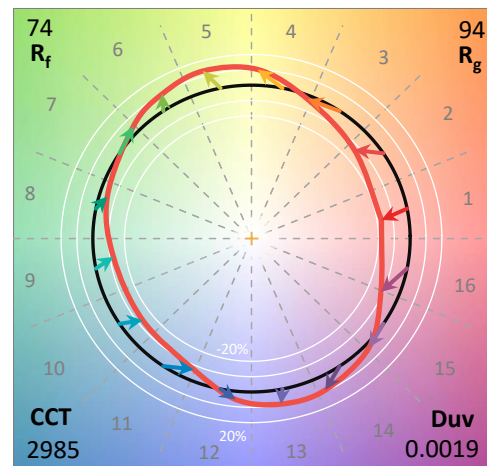
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

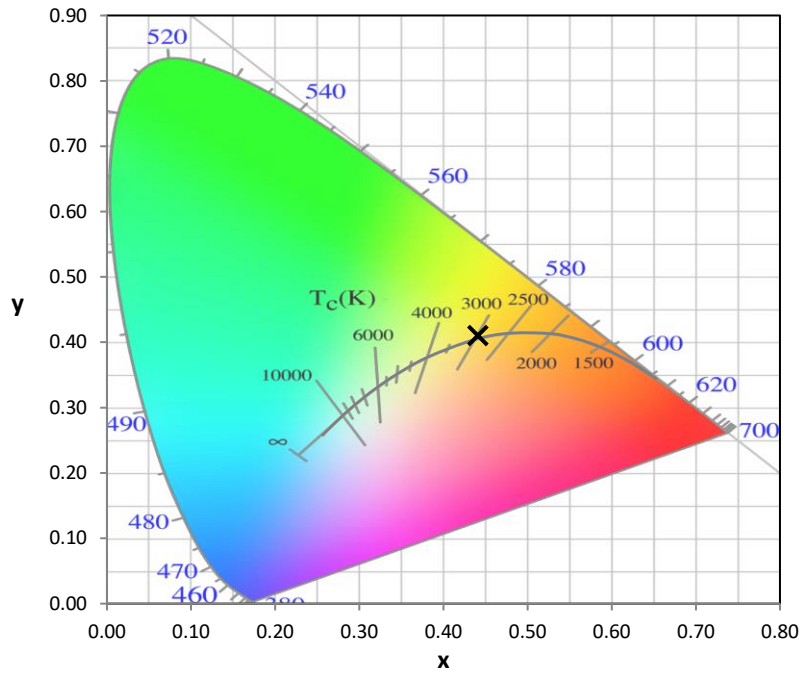
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

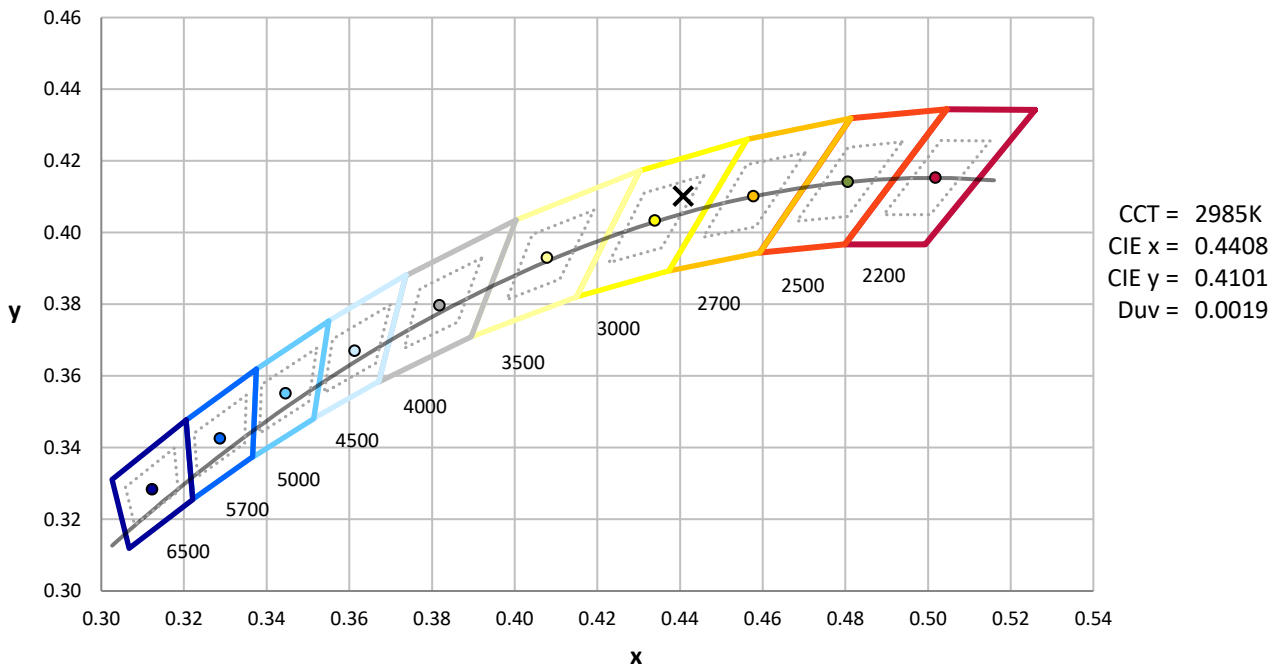
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



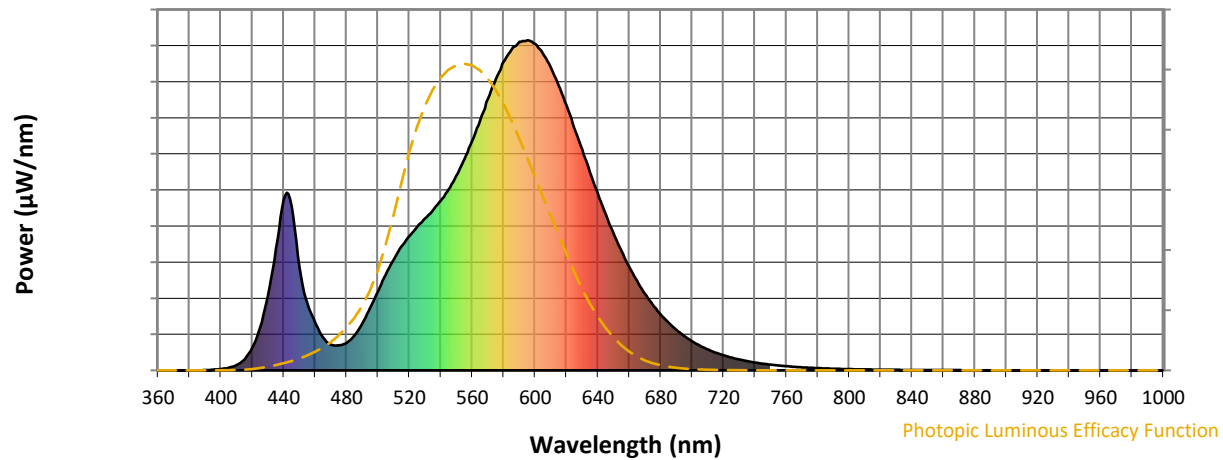
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

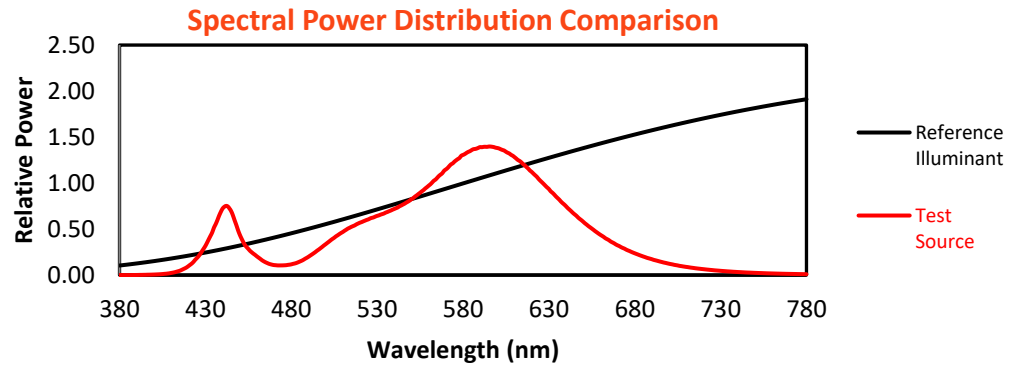
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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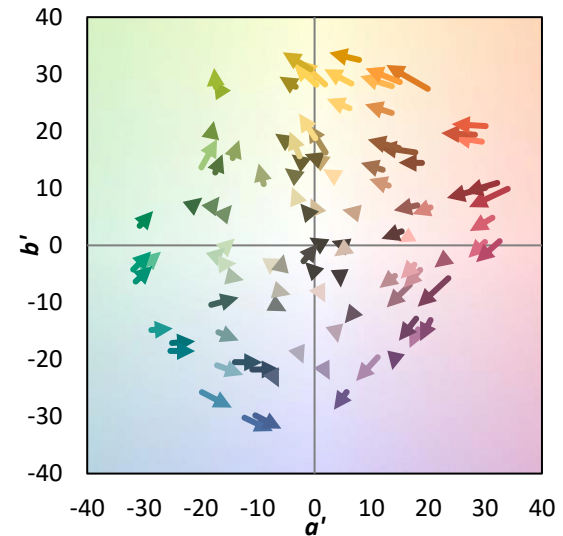
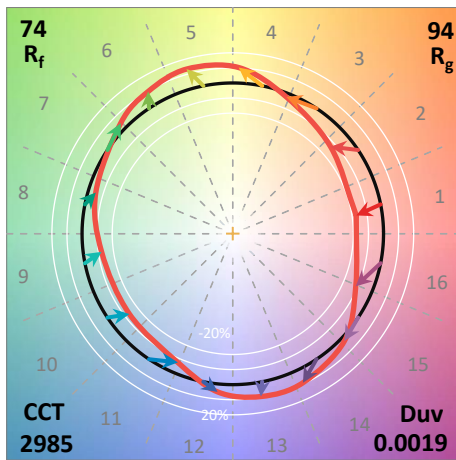
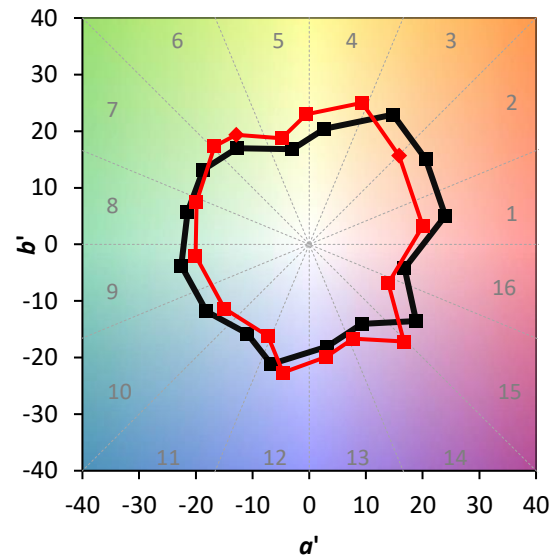
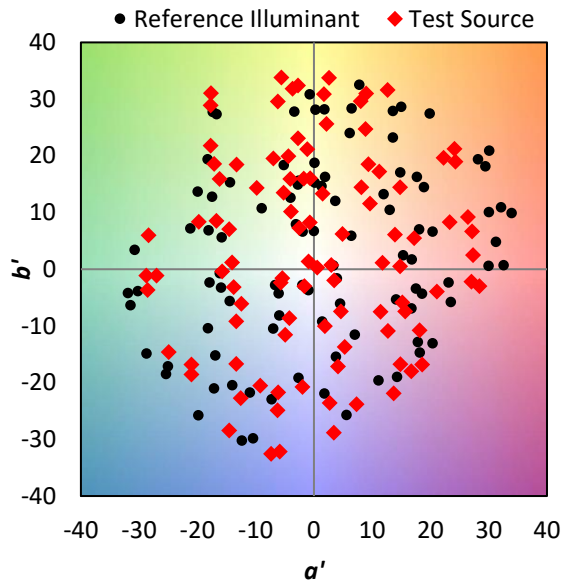
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

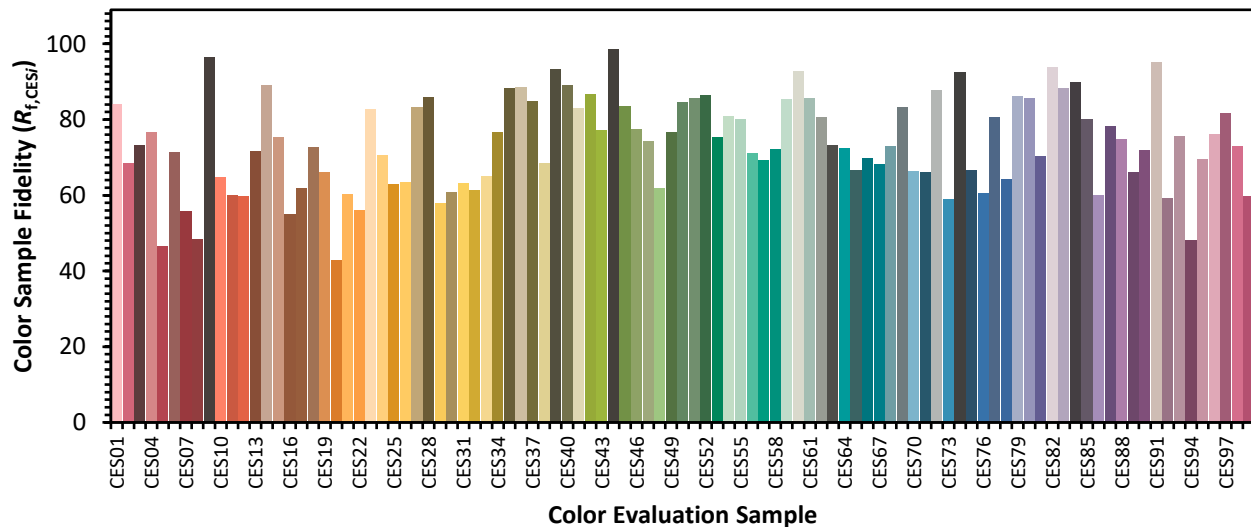


Color Vector Graphics

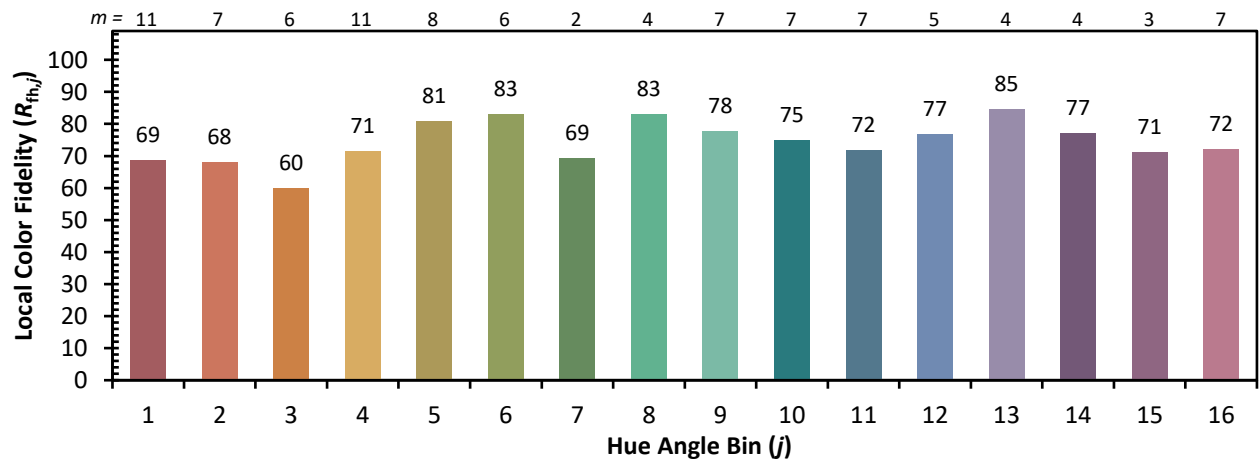
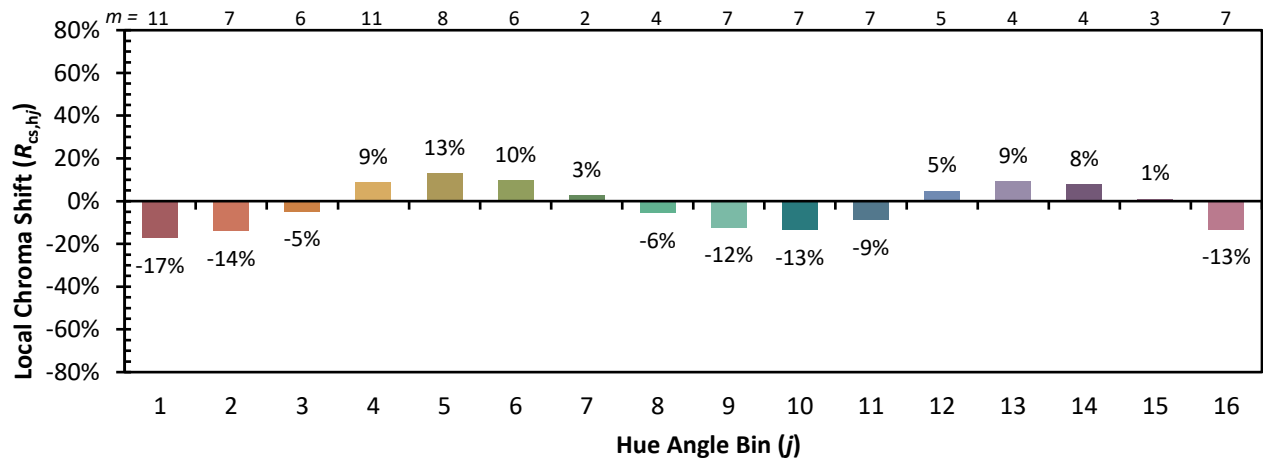


Individual Sample Fidelity Index ($R_{f,i}$)

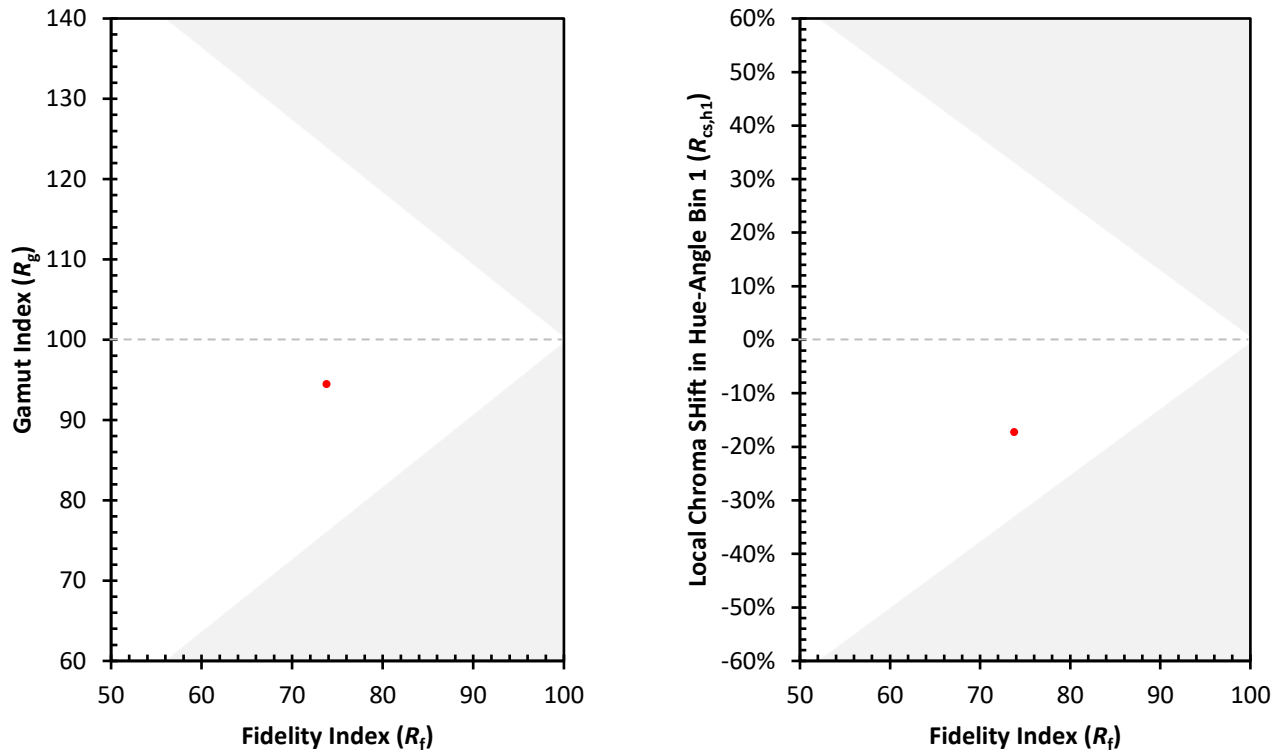
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)