

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: P1067231

Luminaire Tested: **NAV-SA3C-730-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067231
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-730-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14871.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 140.4
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



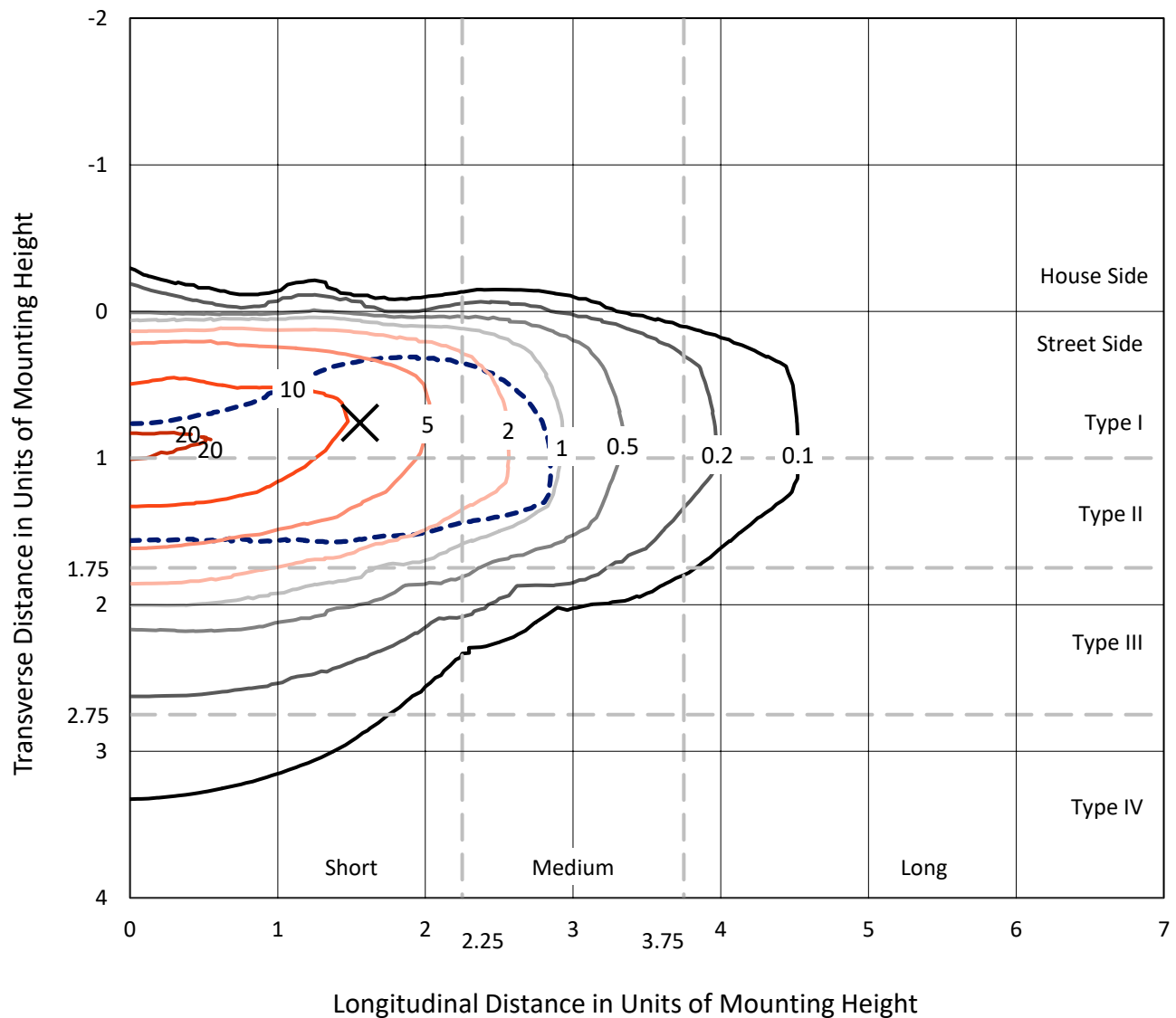
REPORT NUMBER: P1067231

CATALOG NUMBER: NAV-SA3C-730-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

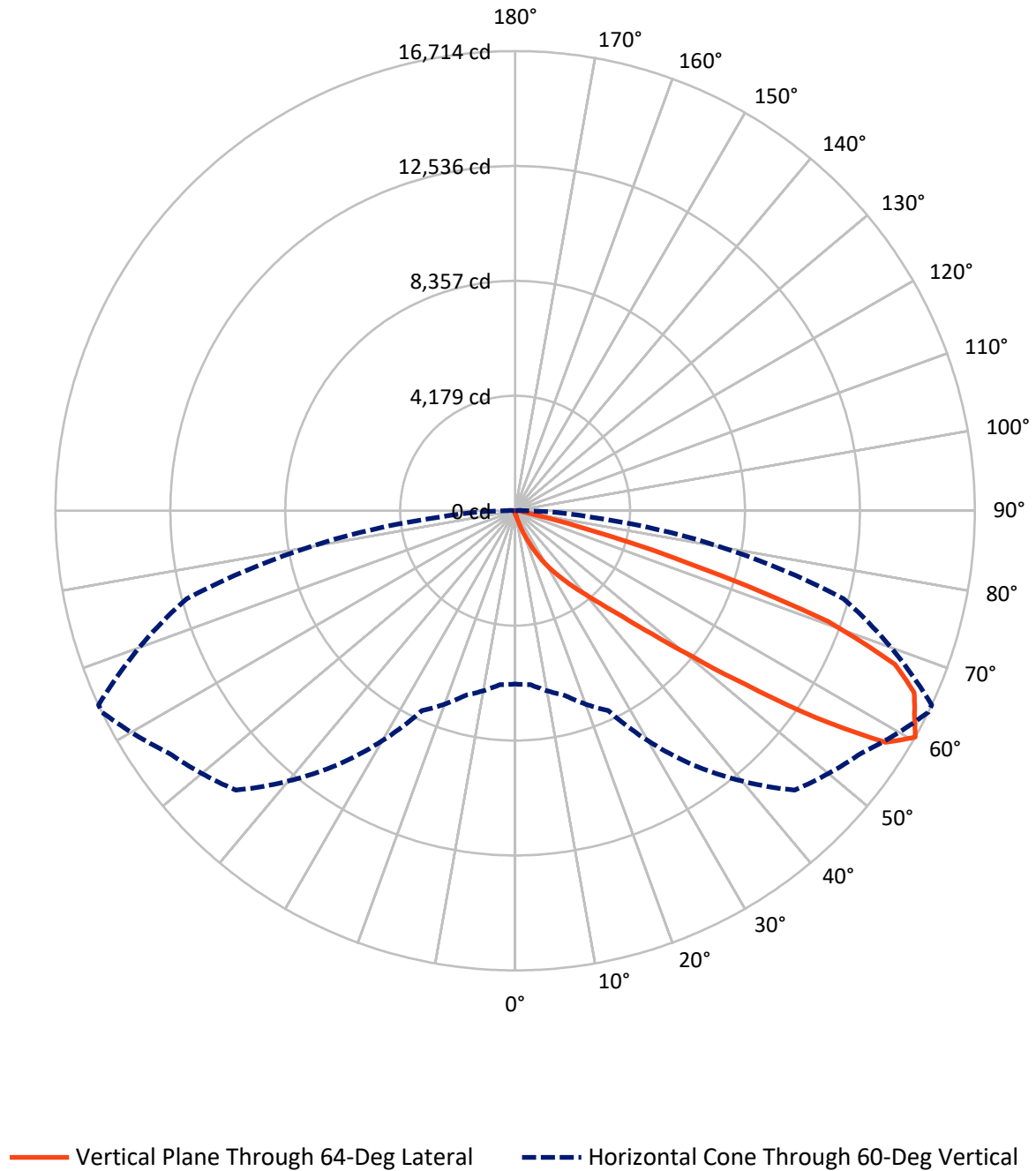


Based on 15 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P1067231

CATALOG NUMBER: NAV-SA3C-730-U-T2BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067231

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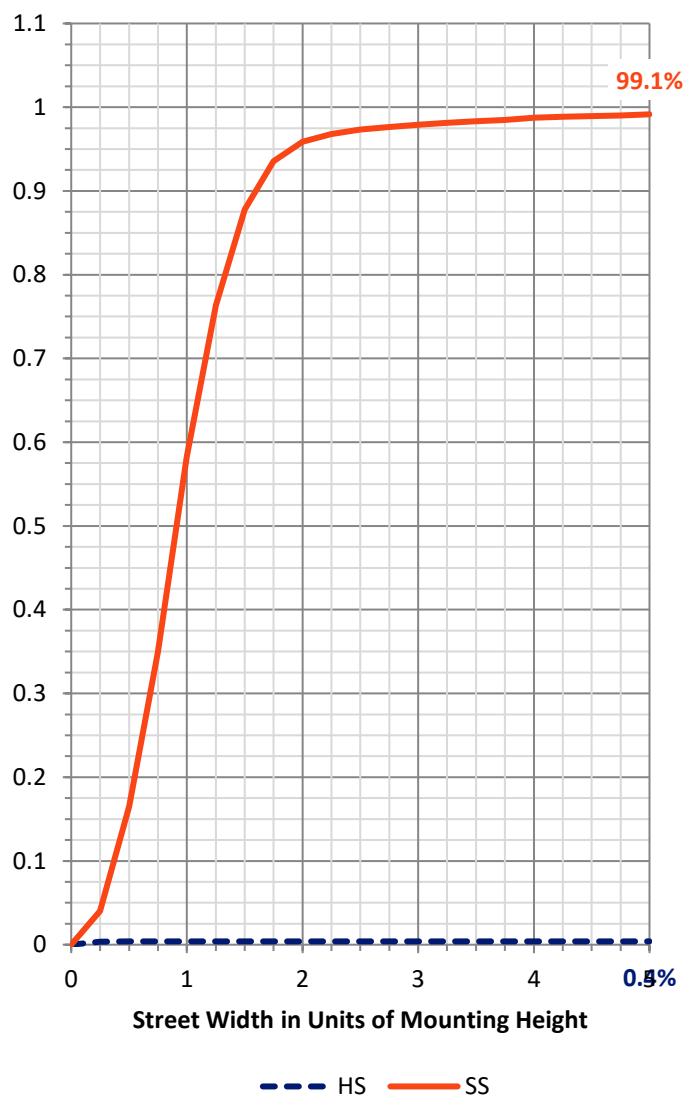
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	60.3	0.0	60.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	14811.5	0.0	14811.5
	% Fixture	99.6	0.0	99.6
Total	Lumens	14871.8	0.0	14871.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.1
10°-20°	146.1	1.0
20°-30°	485.4	3.3
30°-40°	1295.1	8.7
40°-50°	3291.9	22.1
50°-60°	4798.9	32.3
60°-70°	3706.7	24.9
70°-80°	1017.9	6.8
80°-90°	114.9	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°	14871.8	100.0
0°-180°	14871.8	100.0



REPORT NUMBER: P1067231

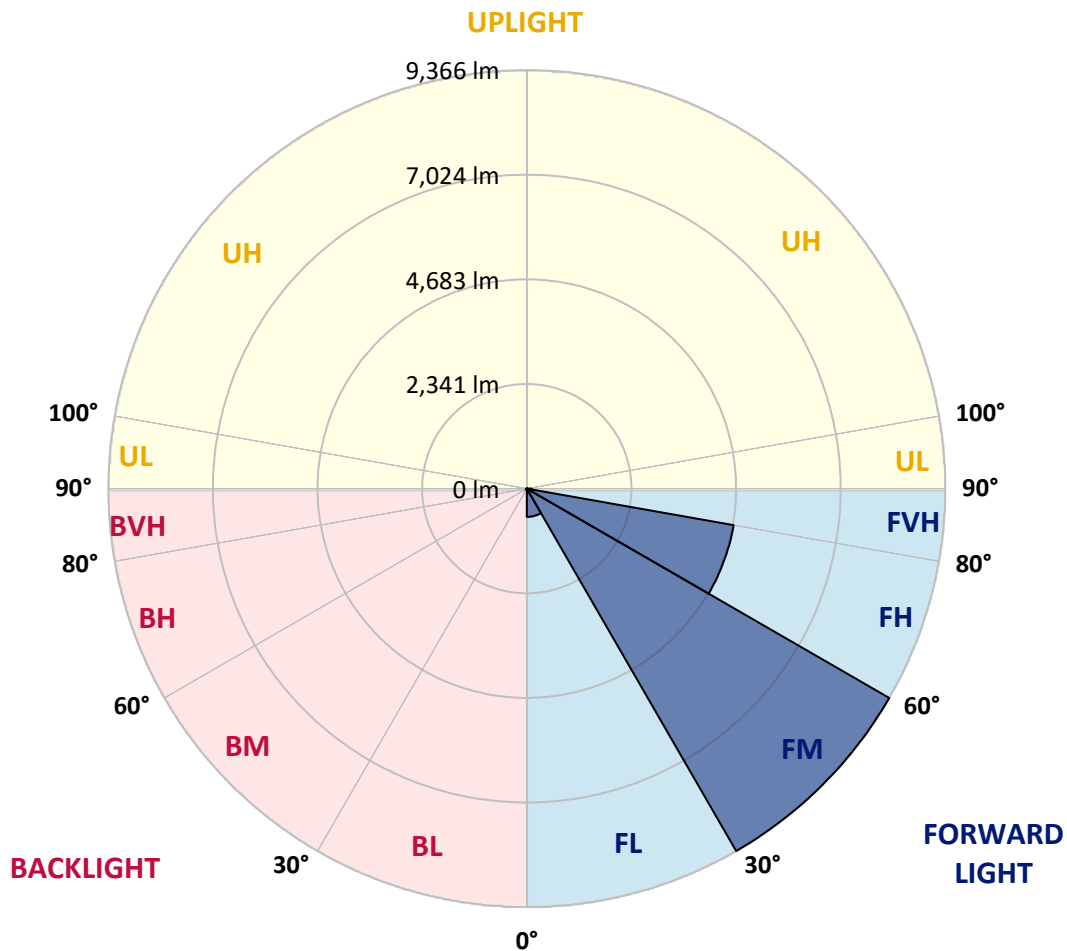
CATALOG NUMBER: NAV-SA3C-730-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.8	4.3			
FM	(30°-60°)	9366.0	63.0			
FH	(60°-80°)	4700.5	31.6			G2/5000
FVH	(80°-90°)	112.2	0.8			G2/225
BL	(0°-30°)	13.5	0.1	B0/110		
BM	(30°-60°)	20.0	0.1	B0/220		
BH	(60°-80°)	24.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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: P1067231

CATALOG NUMBER: NAV-SA3C-730-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2.5°	131.0	131.0	131.0	126.9	122.8	122.8	118.7	114.6	114.6	106.4	102.3
5°	200.6	200.6	192.4	184.2	171.9	155.6	139.2	126.9	126.9	114.6	106.4
7.5°	393.0	405.3	368.4	323.4	262.0	221.1	176.0	147.4	143.3	122.8	106.4
10°	851.5	843.3	786.0	675.5	532.2	384.8	245.6	180.1	171.9	131.0	106.4
12.5°	1281.3	1293.6	1232.2	1109.4	937.4	683.6	421.6	233.3	225.2	143.3	106.4
15°	1649.7	1649.7	1608.8	1547.4	1359.1	1093.0	679.5	348.0	319.3	155.6	102.3
17.5°	1903.6	1899.5	1883.1	1866.7	1756.2	1481.9	1039.8	556.7	491.2	184.2	102.3
20°	2190.1	2177.8	2198.3	2165.5	2079.6	1862.6	1420.5	826.9	765.5	233.3	102.3
22.5°	2488.9	2501.2	2517.6	2484.9	2390.7	2202.4	1821.7	1174.9	1109.4	323.4	106.4
25°	2869.7	2861.5	2898.3	2869.7	2750.9	2529.9	2198.3	1555.6	1461.4	450.3	114.6
27.5°	3336.3	3320.0	3344.5	3270.8	3115.3	2890.1	2534.0	1944.5	1834.0	646.8	131.0
30°	3954.5	3966.8	3856.2	3770.3	3549.2	3250.4	2906.5	2362.0	2247.4	880.1	147.4
32.5°	4928.8	4842.8	4670.9	4322.9	4032.3	3651.5	3279.0	2726.4	2624.0	1179.0	171.9
35°	6447.5	6463.9	6087.3	5227.6	4597.2	4155.1	3688.4	3127.6	3053.9	1518.7	204.7
37.5°	8297.9	8252.8	7921.2	6836.4	5424.1	4781.4	4155.1	3565.6	3459.1	1887.2	245.6
40°	10393.8	10205.5	10013.1	9276.2	7147.5	5567.4	4744.6	4073.2	3991.3	2312.9	311.1
42.5°	12072.2	12023.1	12055.8	11748.8	10021.3	6906.0	5526.4	4695.4	4597.2	2841.0	425.7
45°	12899.1	12829.5	13026.0	13255.3	12813.2	9755.2	6787.3	5489.6	5358.6	3463.2	601.8
47.5°	12678.1	12628.9	13050.6	13500.9	14090.4	13058.8	8846.4	6676.8	6451.6	4261.5	863.8
50°	11589.2	11593.2	12285.1	13124.3	14057.6	14733.1	11896.2	8301.9	8019.5	5321.8	1273.1
52.5°	10528.9	10561.6	11294.4	12518.4	13570.5	14929.6	14573.4	10492.1	10033.6	6570.3	1756.2
55°	9440.0	9456.4	10103.2	11826.6	13341.2	14344.2	15948.9	13312.6	12825.4	8125.9	2227.0
57.5°	8392.0	8392.0	8633.5	10164.6	13091.5	14291.0	15785.2	15891.6	15494.5	9902.6	2574.9
60°	6304.2	6345.2	6946.9	8019.5	11290.3	14368.8	15367.6	16714.4	16714.4	12367.0	2841.0
62.5°	3184.9	3246.3	3995.4	5039.3	7745.2	13296.2	15433.1	16301.0	16366.5	14540.7	3446.9
65°	1494.2	1563.8	1965.0	2701.8	4167.3	9358.1	14753.6	15948.9	15928.4	14127.2	4724.1
67.5°	1072.5	1093.0	1228.1	1576.1	2243.3	4101.8	11261.7	14896.8	14905.0	12002.6	5432.3
70°	962.0	962.0	994.8	1097.1	1350.9	1834.0	5473.2	12064.0	12649.4	9268.0	5035.2
72.5°	949.7	941.5	933.4	937.4	912.9	921.1	1879.0	6811.9	7647.0	6484.4	4015.9
75°	925.2	925.2	917.0	888.3	728.7	593.6	646.8	2755.0	3184.9	4331.1	2980.2
77.5°	732.8	806.5	892.4	839.2	667.3	446.2	376.6	798.3	1007.0	2656.8	2161.5
80°	339.8	343.9	339.8	356.1	425.7	319.3	278.4	388.9	393.0	1473.7	1338.6
82.5°	245.6	249.7	237.4	212.9	188.3	171.9	229.2	286.6	307.0	675.5	499.4
85°	73.7	69.6	81.9	110.5	131.0	151.5	192.4	241.5	253.8	249.7	73.7
87.5°	32.7	32.7	40.9	57.3	77.8	114.6	167.8	221.1	225.2	257.9	20.5
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: P1067231

CATALOG NUMBER: NAV-SA3C-730-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2.5°	102.3	98.2	94.2	90.1	86.0	81.9	77.8	77.8	81.9	81.9	81.9
5°	98.2	94.2	86.0	77.8	73.7	69.6	65.5	65.5	69.6	69.6	69.6
7.5°	98.2	90.1	81.9	73.7	65.5	61.4	57.3	57.3	57.3	61.4	61.4
10°	98.2	90.1	77.8	65.5	57.3	53.2	49.1	45.0	49.1	49.1	49.1
12.5°	94.2	86.0	73.7	61.4	49.1	40.9	36.8	36.8	36.8	36.8	36.8
15°	90.1	81.9	69.6	53.2	40.9	32.7	24.6	24.6	24.6	28.7	28.7
17.5°	86.0	77.8	61.4	40.9	28.7	20.5	16.4	16.4	16.4	20.5	20.5
20°	86.0	73.7	53.2	32.7	20.5	12.3	8.2	8.2	8.2	12.3	16.4
22.5°	86.0	73.7	49.1	24.6	12.3	8.2	4.1	4.1	4.1	4.1	4.1
25°	86.0	69.6	45.0	20.5	8.2	4.1	0.0	0.0	4.1	8.2	12.3
27.5°	86.0	65.5	36.8	12.3	8.2	4.1	0.0	4.1	8.2	8.2	8.2
30°	86.0	65.5	32.7	12.3	4.1	0.0	0.0	4.1	8.2	8.2	12.3
32.5°	90.1	61.4	28.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	94.2	57.3	24.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	102.3	57.3	16.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	114.6	61.4	16.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	143.3	65.5	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	200.6	81.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	294.7	122.8	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	429.8	167.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	528.1	167.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	524.0	106.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	401.2	73.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	339.8	53.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	409.4	40.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	728.7	36.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1170.8	36.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1310.0	36.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1023.4	32.7	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	560.8	28.7	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	282.5	20.5	8.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.7	16.4	8.2	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	40.9	16.4	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	20.5	12.3	12.3	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0
87.5°	12.3	12.3	12.3	8.2	8.2	4.1	4.1	0.0	0.0	0.0	4.1
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

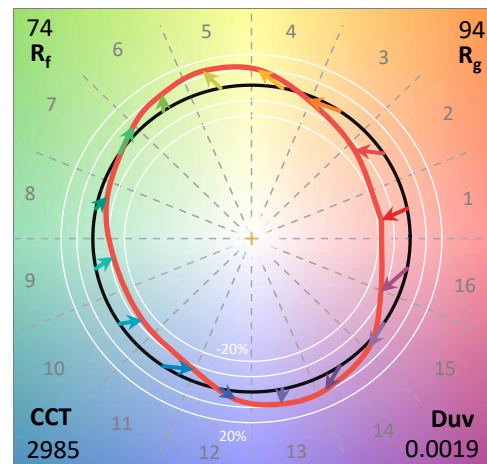
Test Information

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

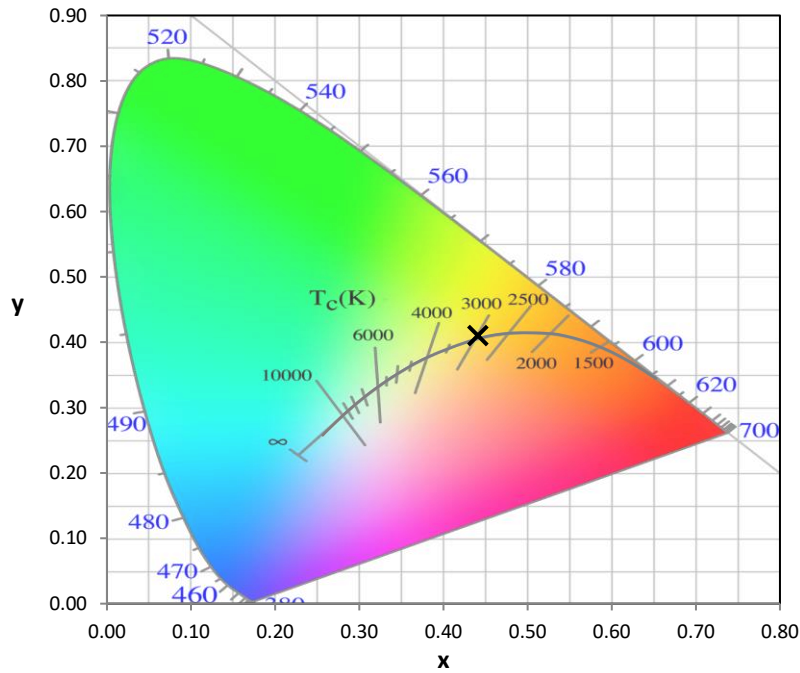
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

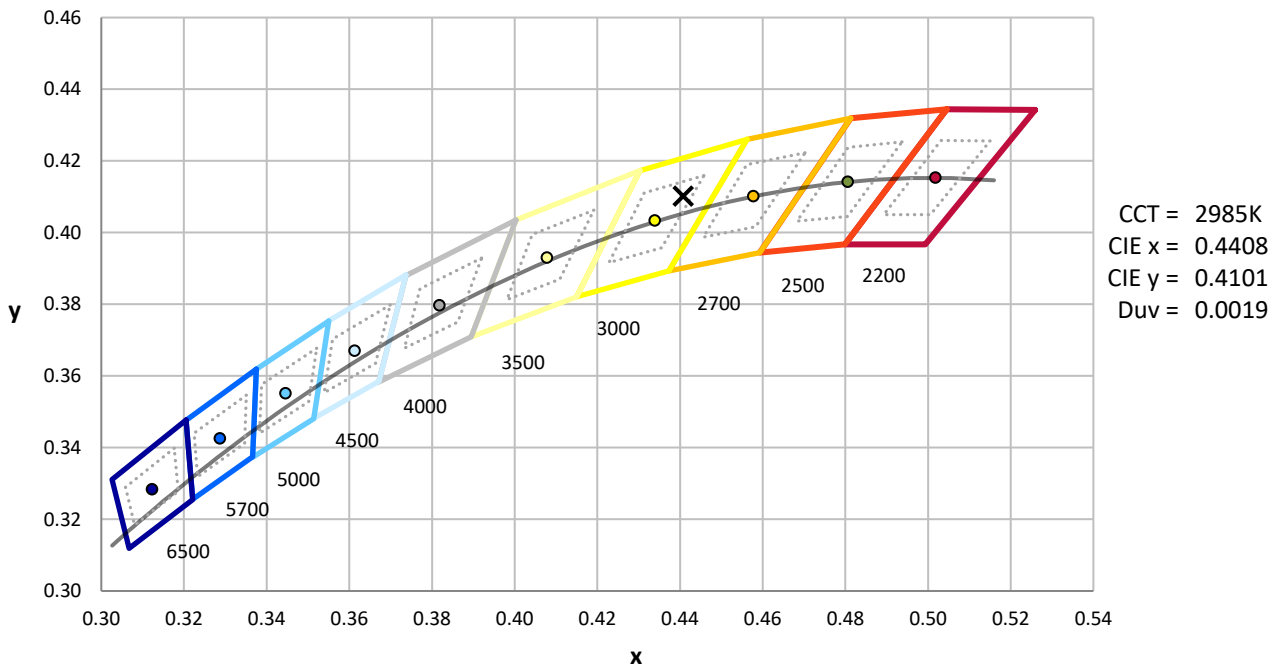
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



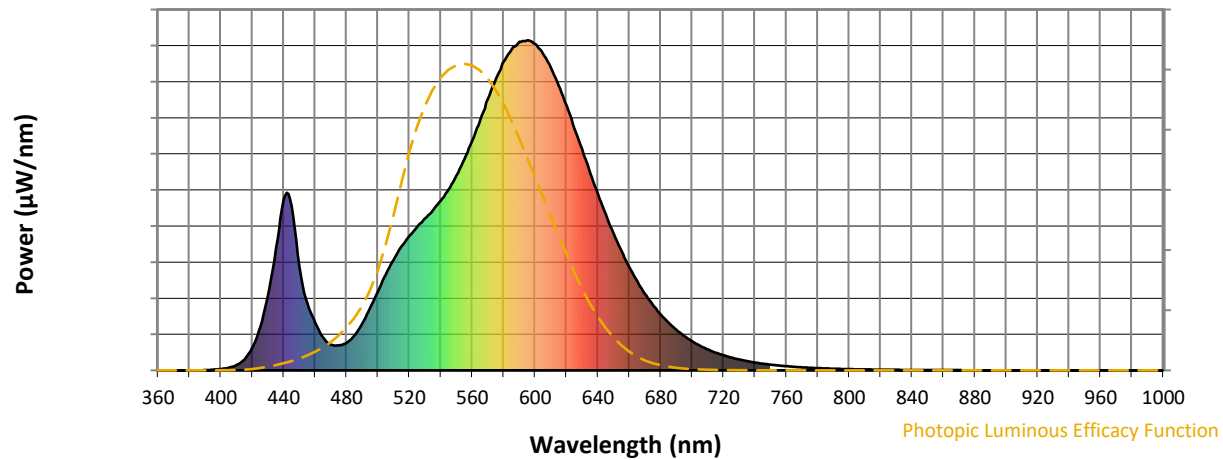
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

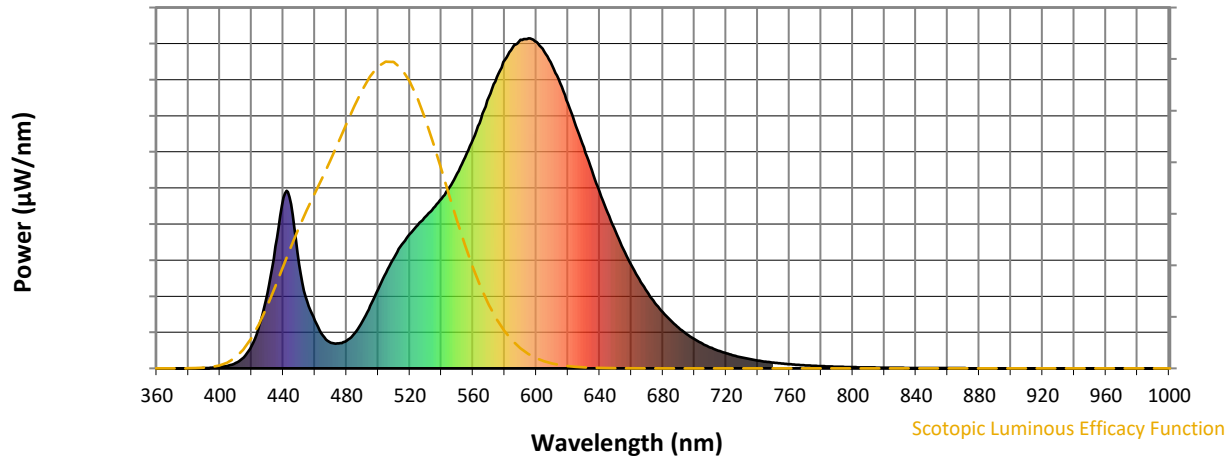


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



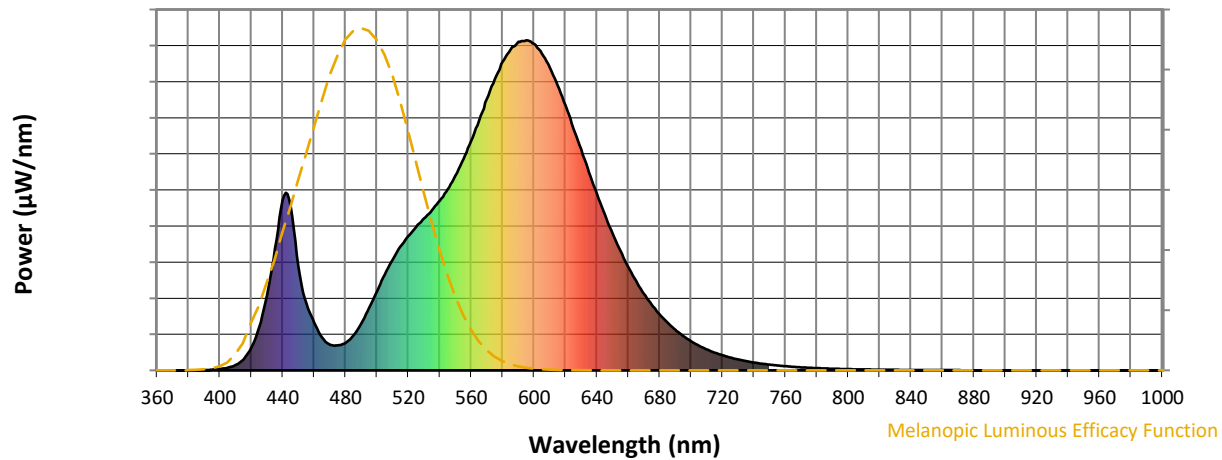
Scotopic Lumens: NR

S/P: 1.19

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

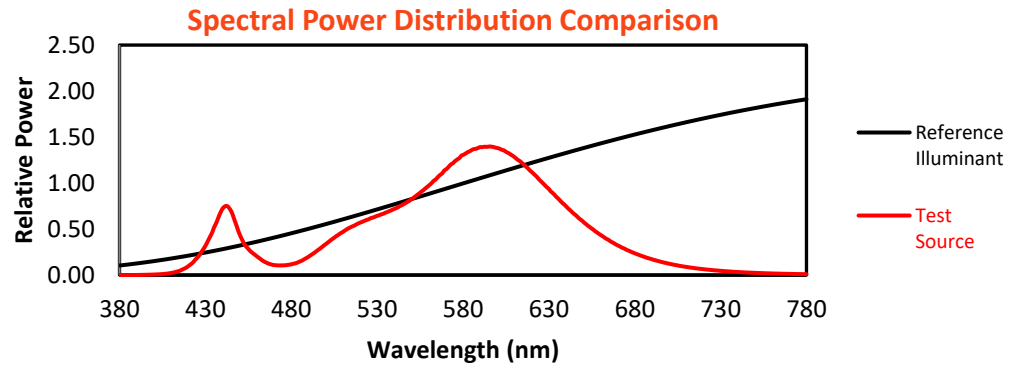
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	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			

REPORT NUMBER: SP1-2407-184-4

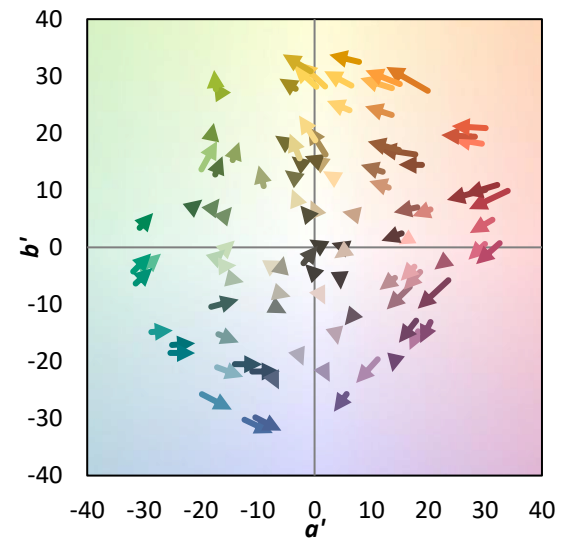
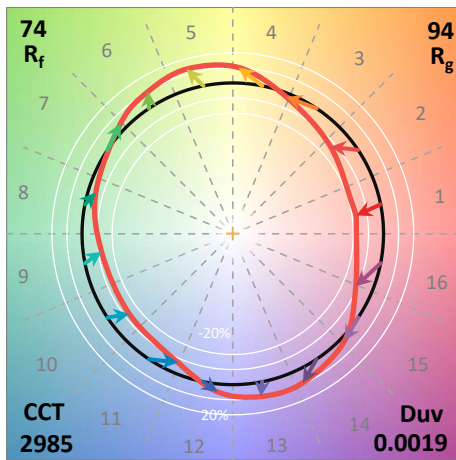
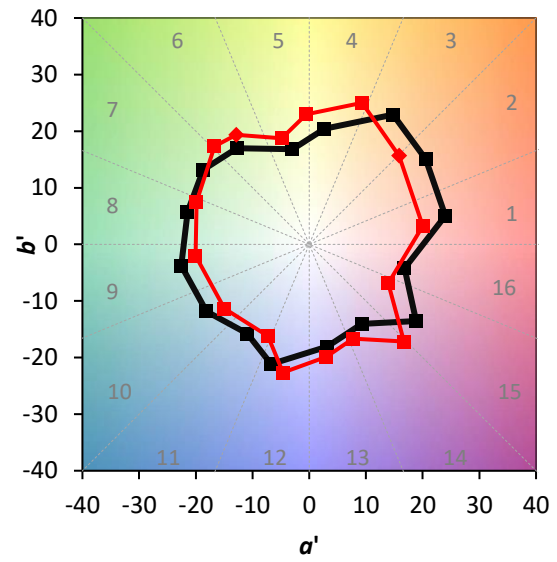
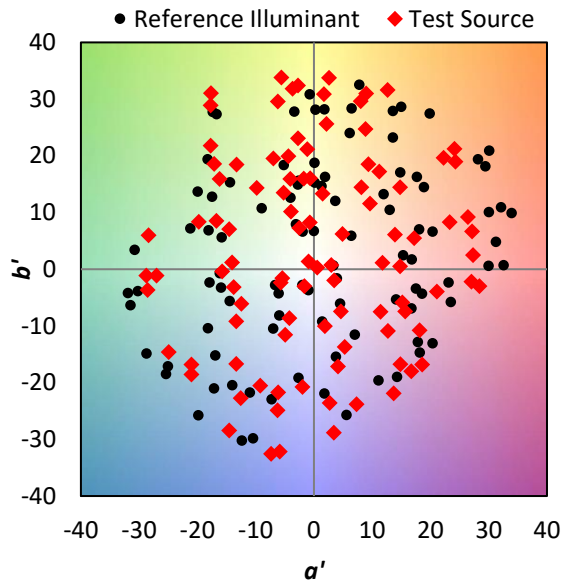
TM-30-18

Summary

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

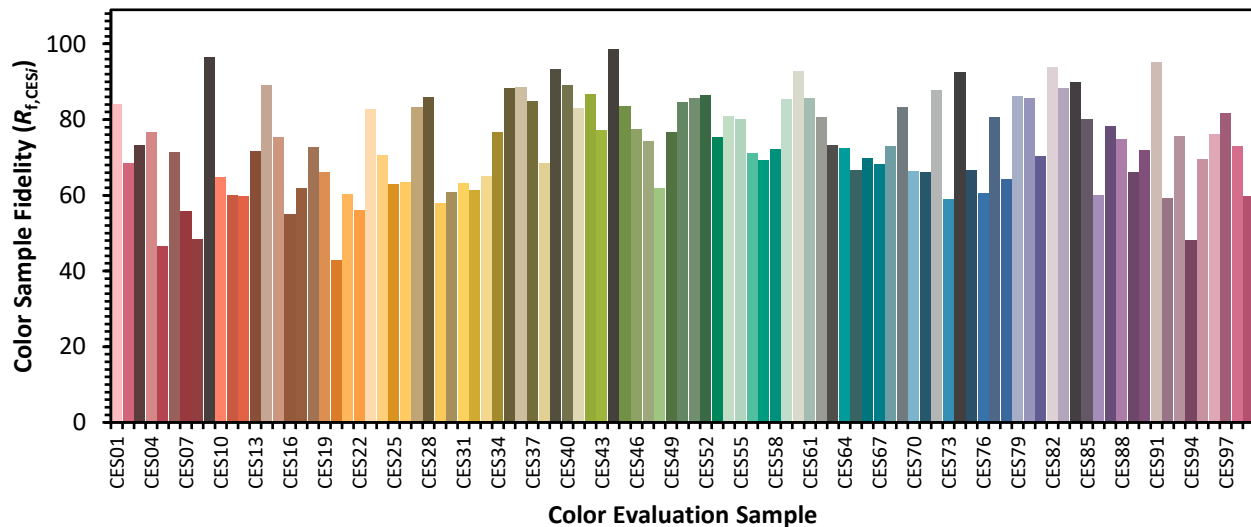


Color Vector Graphics

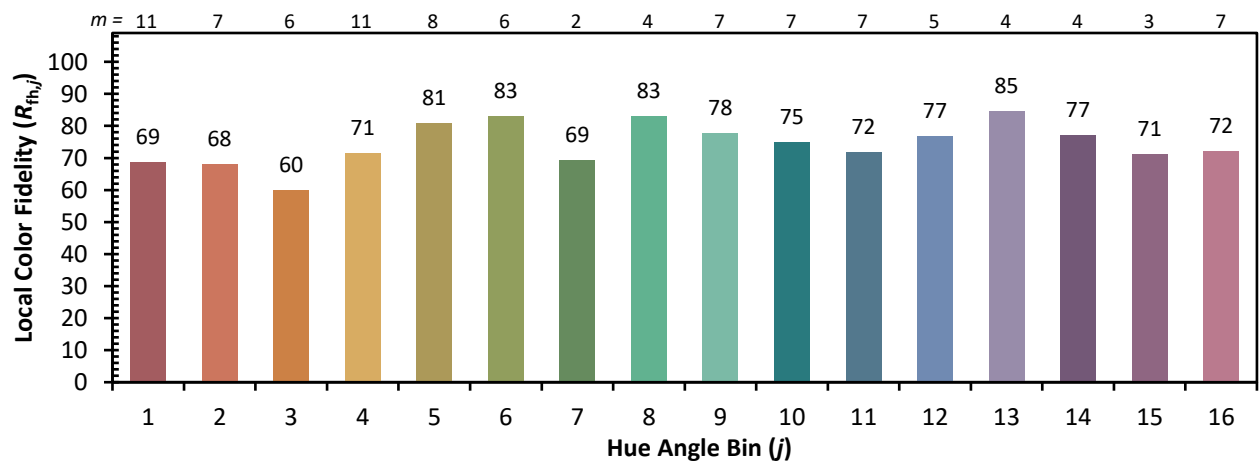
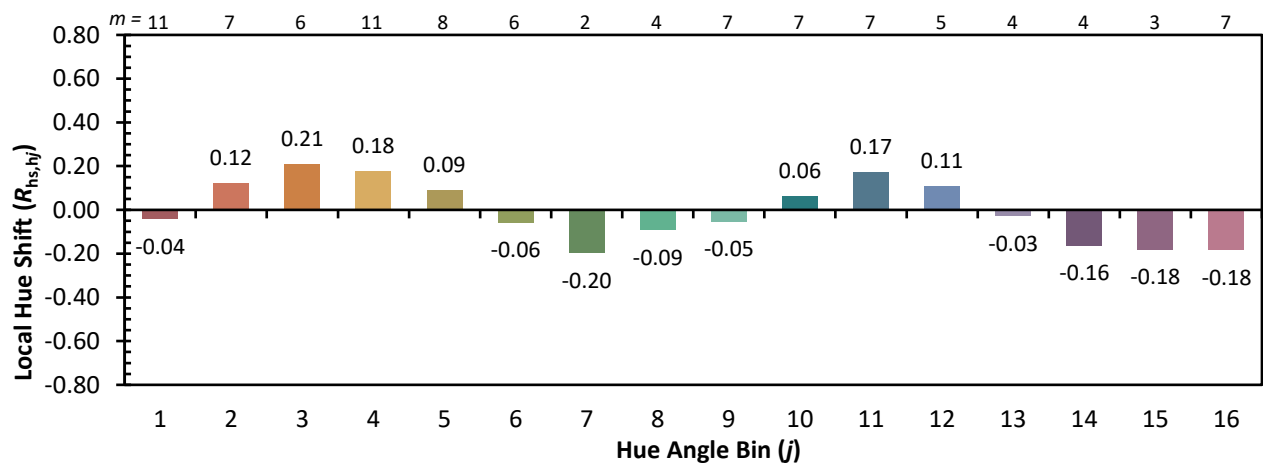
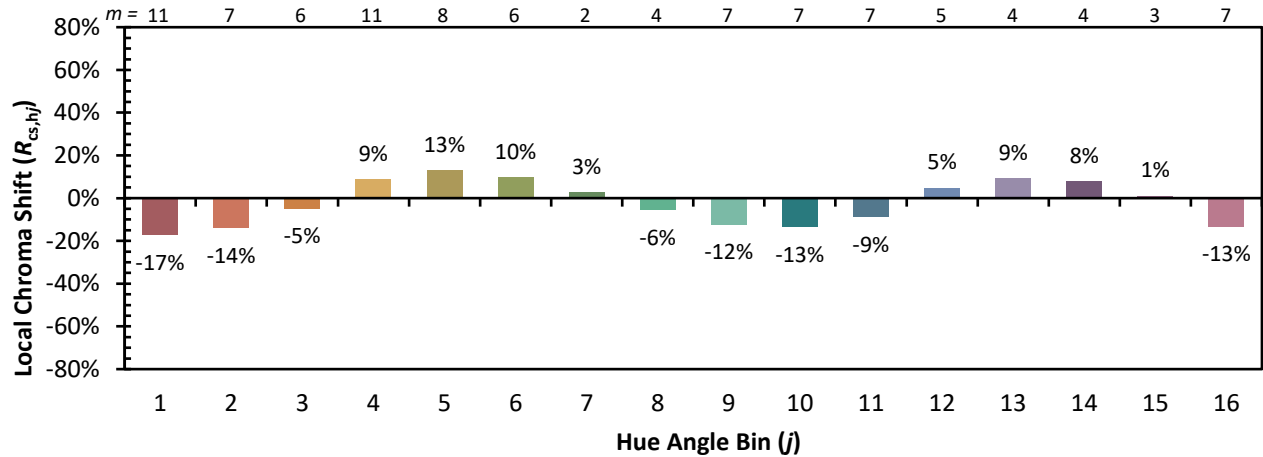


Individual Sample Fidelity Index ($R_{f,i}$)

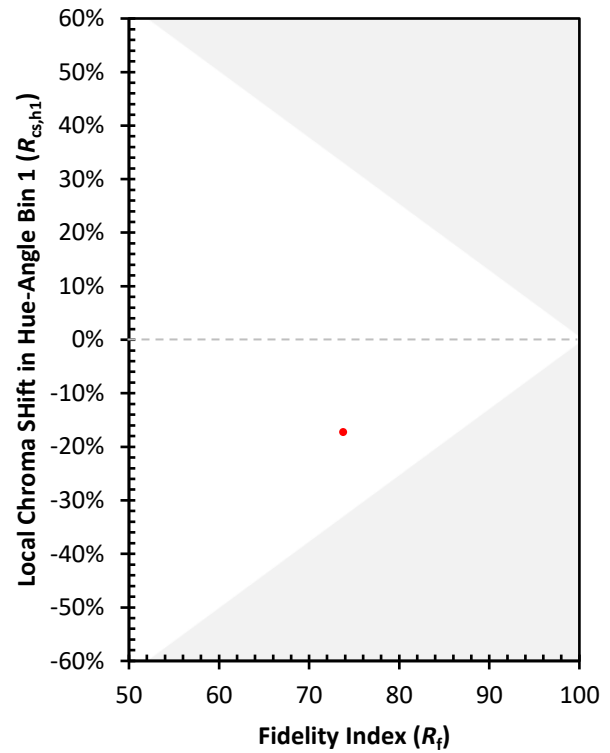
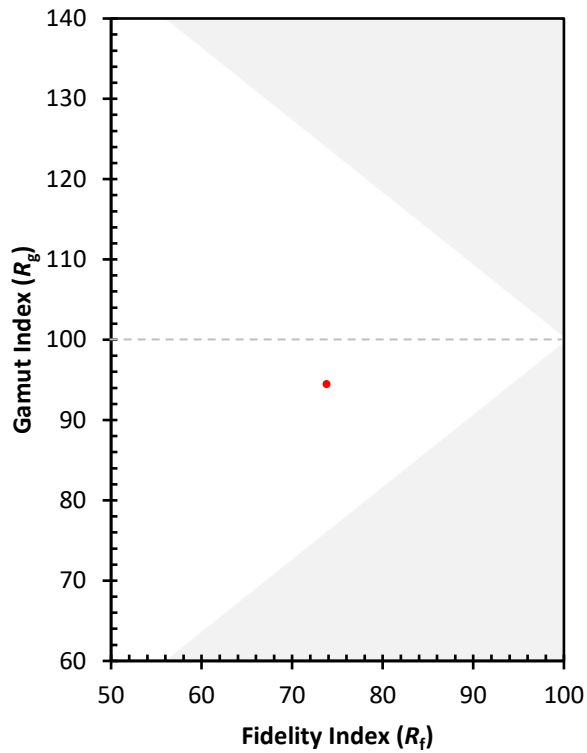
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)