

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: P1067234

Luminaire Tested: **NAV-SA4B-730-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067234
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-730-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 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: 15797.8 lumens
Efficiency: N/A
Efficacy: 109.6 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

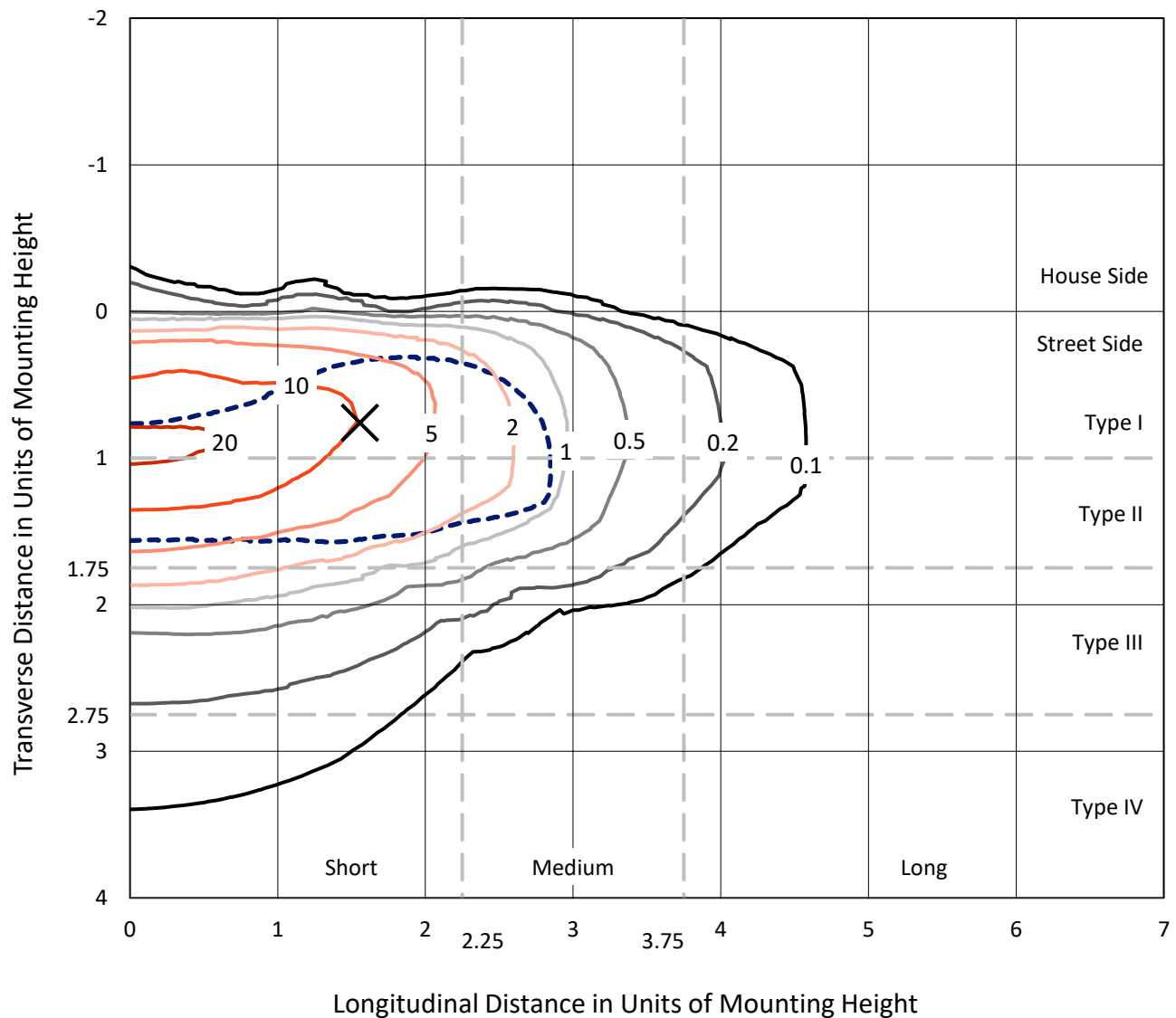


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

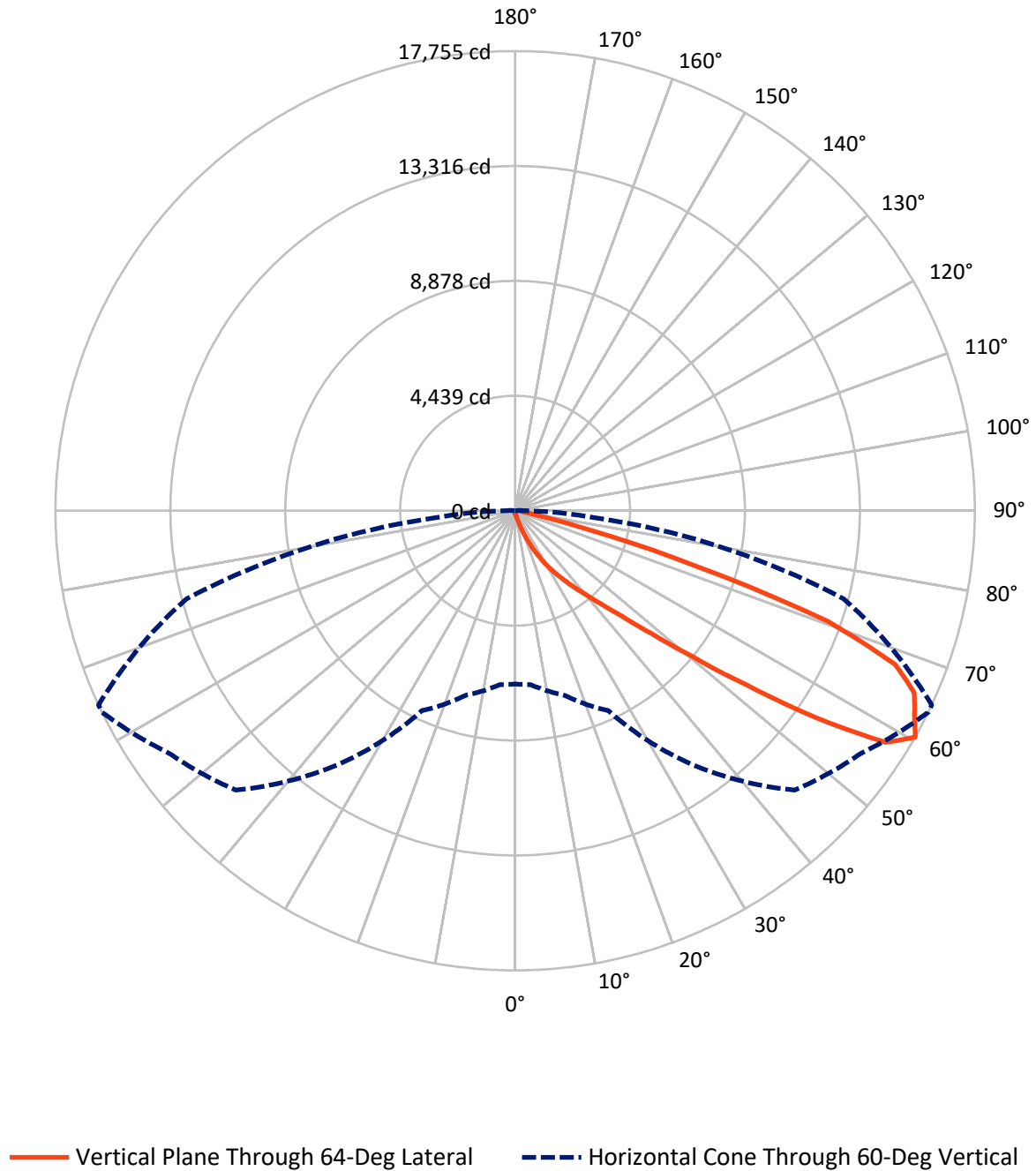


Based on 15 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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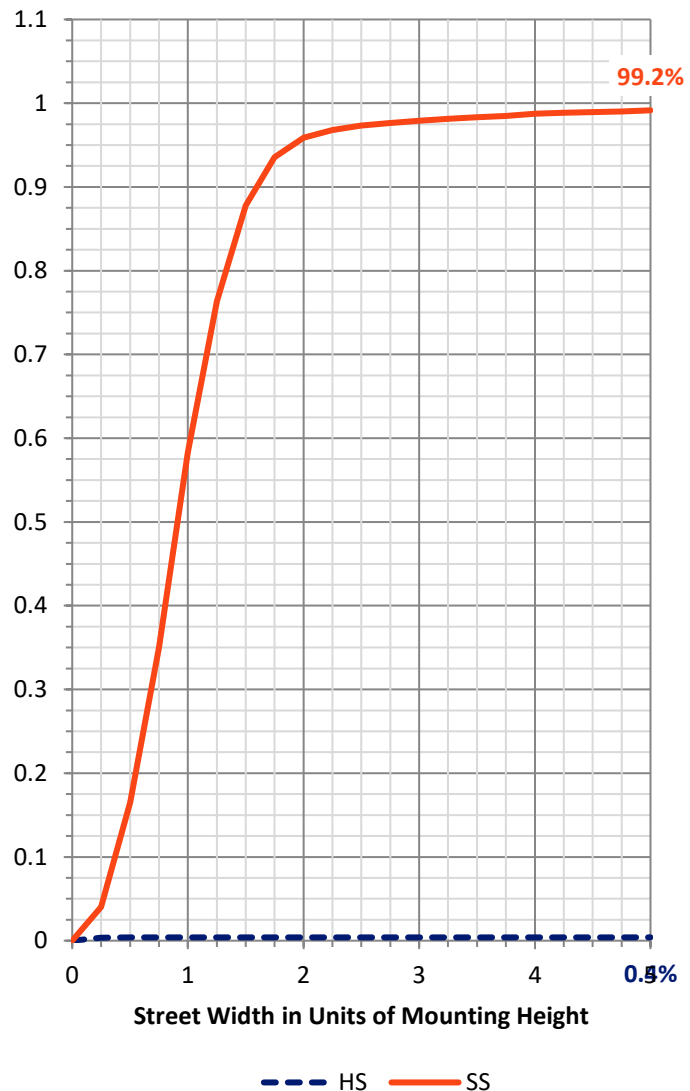
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.0	0.0	64.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	15733.8	0.0	15733.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	15797.8	0.0	15797.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.1
10°-20°	155.2	1.0
20°-30°	515.6	3.3
30°-40°	1375.8	8.7
40°-50°	3496.9	22.1
50°-60°	5097.7	32.3
60°-70°	3937.5	24.9
70°-80°	1081.3	6.8
80°-90°	122.1	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°	15797.8	100.0
0°-180°	15797.8	100.0



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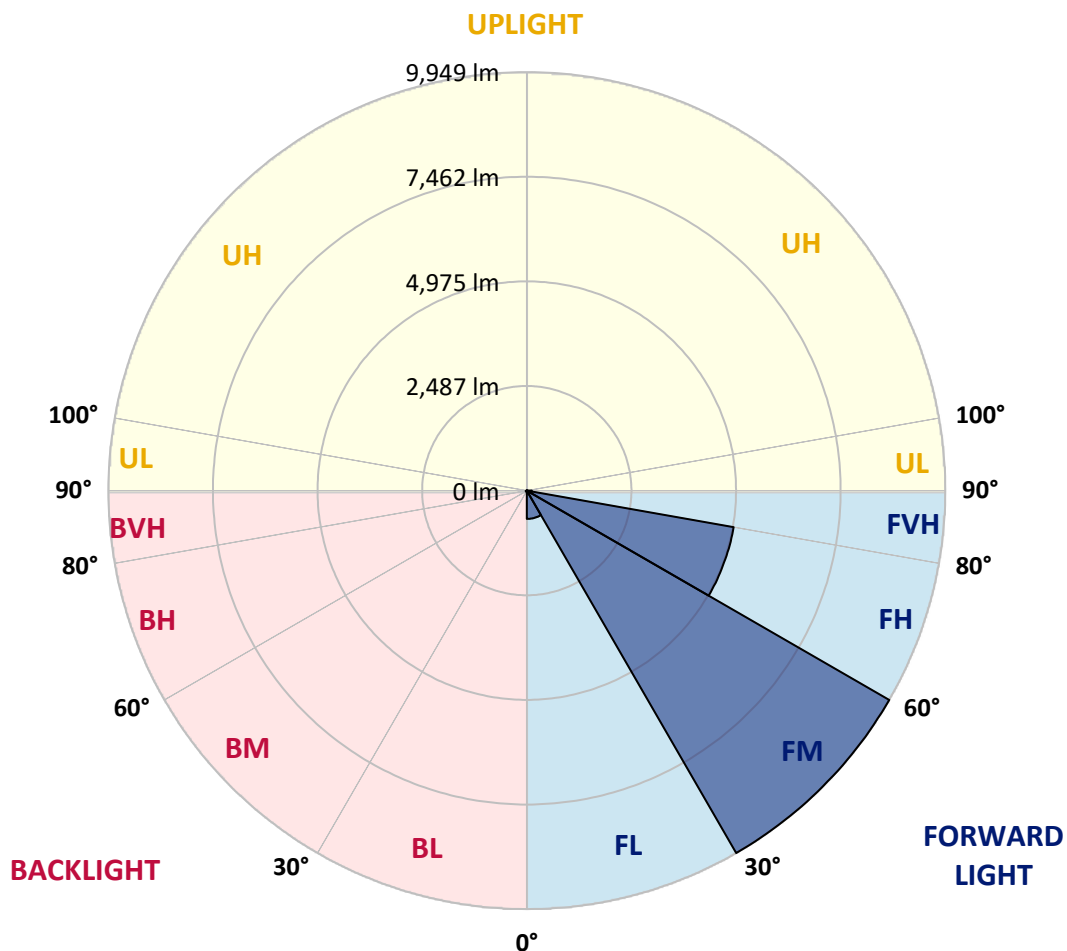
CATALOG NUMBER: NAV-SA4B-730-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.2	4.3			
FM	(30°-60°)	9949.2	63.0			
FH	(60°-80°)	4993.2	31.6			G2/5000
FVH	(80°-90°)	119.2	0.8			G2/225
BL	(0°-30°)	14.4	0.1	B0/110		
BM	(30°-60°)	21.2	0.1	B0/220		
BH	(60°-80°)	25.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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: P1067234

CATALOG NUMBER: NAV-SA4B-730-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
2.5°	139.2	139.2	139.2	134.8	130.5	130.5	126.1	121.8	121.8	113.1	108.7
5°	213.1	213.1	204.4	195.7	182.6	165.2	147.9	134.8	134.8	121.8	113.1
7.5°	417.5	430.5	391.4	343.5	278.3	234.8	187.0	156.5	152.2	130.5	113.1
10°	904.5	895.8	834.9	717.5	565.3	408.8	260.9	191.3	182.6	139.2	113.1
12.5°	1361.1	1374.1	1308.9	1178.5	995.8	726.2	447.9	247.9	239.2	152.2	113.1
15°	1752.5	1752.5	1709.0	1643.8	1443.7	1161.1	721.9	369.6	339.2	165.2	108.7
17.5°	2022.1	2017.7	2000.3	1982.9	1865.5	1574.2	1104.5	591.4	521.8	195.7	108.7
20°	2326.5	2313.4	2335.2	2300.4	2209.1	1978.6	1509.0	878.4	813.2	247.9	108.7
22.5°	2643.9	2657.0	2674.4	2639.6	2539.6	2339.5	1935.1	1248.0	1178.5	343.5	113.1
25°	3048.3	3039.6	3078.8	3048.3	2922.2	2687.4	2335.2	1652.5	1552.4	478.3	121.8
27.5°	3544.1	3526.7	3552.8	3474.5	3309.3	3070.1	2691.8	2065.6	1948.2	687.1	139.2
30°	4200.7	4213.8	4096.4	4005.0	3770.2	3452.8	3087.5	2509.1	2387.4	934.9	156.5
32.5°	5235.7	5144.4	4961.7	4592.1	4283.3	3878.9	3483.2	2896.1	2787.4	1252.4	182.6
35°	6849.0	6866.4	6466.3	5553.1	4883.4	4413.8	3918.1	3322.3	3244.0	1613.3	217.4
37.5°	8814.6	8766.7	8414.5	7262.1	5761.9	5079.1	4413.8	3787.6	3674.5	2004.7	260.9
40°	11041.0	10841.0	10636.6	9853.9	7592.6	5914.1	5040.0	4326.8	4239.9	2456.9	330.5
42.5°	12823.9	12771.7	12806.5	12480.4	10645.3	7336.0	5870.6	4987.8	4883.4	3017.9	452.3
45°	13702.3	13628.4	13837.1	14080.7	13611.0	10362.6	7209.9	5831.4	5692.3	3678.9	639.2
47.5°	13467.5	13415.3	13863.2	14341.6	14967.8	13871.9	9397.3	7092.5	6853.3	4526.9	917.5
50°	12310.8	12315.1	13050.1	13941.5	14933.0	15650.5	12636.9	8818.9	8518.8	5653.1	1352.4
52.5°	11184.5	11219.3	11997.7	13297.9	14415.5	15859.2	15480.9	11145.4	10658.3	6979.5	1865.5
55°	10027.8	10045.2	10732.3	12563.0	14172.0	15237.4	16942.0	14141.5	13624.1	8631.9	2365.6
57.5°	8914.6	8914.6	9171.1	10797.5	13906.7	15180.9	16768.1	16881.1	16459.3	10519.2	2735.3
60°	6696.8	6740.3	7379.5	8518.8	11993.4	15263.5	16324.5	17755.2	17755.2	13137.0	3017.9
62.5°	3383.2	3448.4	4244.2	5353.1	8227.5	14124.2	16394.1	17316.0	17385.6	15446.1	3661.5
65°	1587.2	1661.2	2087.3	2870.1	4426.8	9940.8	15672.2	16942.0	16920.3	15006.9	5018.2
67.5°	1139.3	1161.1	1304.6	1674.2	2383.0	4357.3	11962.9	15824.4	15833.1	12750.0	5770.6
70°	1021.9	1021.9	1056.7	1165.4	1435.0	1948.2	5814.0	12815.2	13437.1	9845.2	5348.7
72.5°	1008.9	1000.2	991.5	995.8	969.7	978.4	1996.0	7236.0	8123.1	6888.1	4265.9
75°	982.8	982.8	974.1	943.6	774.0	630.5	687.1	2926.6	3383.2	4600.8	3165.8
77.5°	778.4	856.7	948.0	891.5	708.8	474.0	400.1	848.0	1069.7	2822.2	2296.0
80°	360.9	365.3	360.9	378.3	452.3	339.2	295.7	413.1	417.5	1565.5	1422.0
82.5°	260.9	265.3	252.2	226.1	200.0	182.6	243.5	304.4	326.1	717.5	530.5
85°	78.3	73.9	87.0	117.4	139.2	160.9	204.4	256.6	269.6	265.3	78.3
87.5°	34.8	34.8	43.5	60.9	82.6	121.8	178.3	234.8	239.2	274.0	21.7
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: NAV-SA4B-730-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
2.5°	108.7	104.4	100.0	95.7	91.3	87.0	82.6	82.6	87.0	87.0	87.0
5°	104.4	100.0	91.3	82.6	78.3	73.9	69.6	69.6	73.9	73.9	73.9
7.5°	104.4	95.7	87.0	78.3	69.6	65.2	60.9	60.9	60.9	65.2	65.2
10°	104.4	95.7	82.6	69.6	60.9	56.5	52.2	47.8	52.2	52.2	52.2
12.5°	100.0	91.3	78.3	65.2	52.2	43.5	39.1	39.1	39.1	39.1	39.1
15°	95.7	87.0	73.9	56.5	43.5	34.8	26.1	26.1	26.1	30.4	30.4
17.5°	91.3	82.6	65.2	43.5	30.4	21.7	17.4	17.4	17.4	21.7	21.7
20°	91.3	78.3	56.5	34.8	21.7	13.0	8.7	8.7	8.7	13.0	17.4
22.5°	91.3	78.3	52.2	26.1	13.0	8.7	4.3	4.3	4.3	4.3	4.3
25°	91.3	73.9	47.8	21.7	8.7	4.3	0.0	0.0	4.3	8.7	13.0
27.5°	91.3	69.6	39.1	13.0	8.7	4.3	0.0	4.3	8.7	8.7	8.7
30°	91.3	69.6	34.8	13.0	4.3	0.0	0.0	4.3	8.7	8.7	13.0
32.5°	95.7	65.2	30.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	100.0	60.9	26.1	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	108.7	60.9	17.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	121.8	65.2	17.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	152.2	69.6	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	213.1	87.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	313.1	130.5	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	456.6	178.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	561.0	178.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	556.6	113.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	426.2	78.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	360.9	56.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	434.9	43.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	774.0	39.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1243.7	39.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1391.5	39.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1087.1	34.8	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	595.8	30.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	300.1	21.7	8.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.1	17.4	8.7	4.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	43.5	17.4	8.7	8.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	21.7	13.0	13.0	8.7	8.7	4.3	4.3	0.0	0.0	0.0	0.0
87.5°	13.0	13.0	13.0	8.7	8.7	4.3	4.3	0.0	0.0	0.0	4.3
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

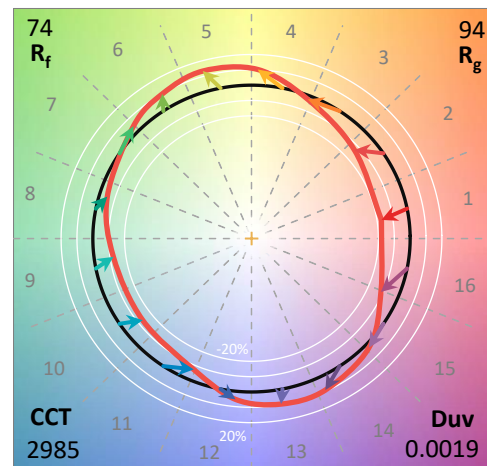
Test Information

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

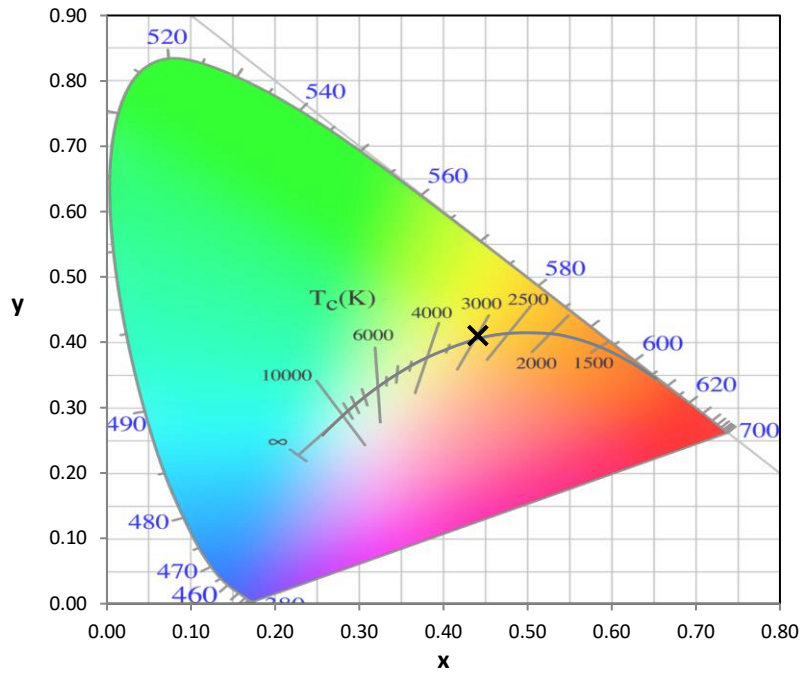
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

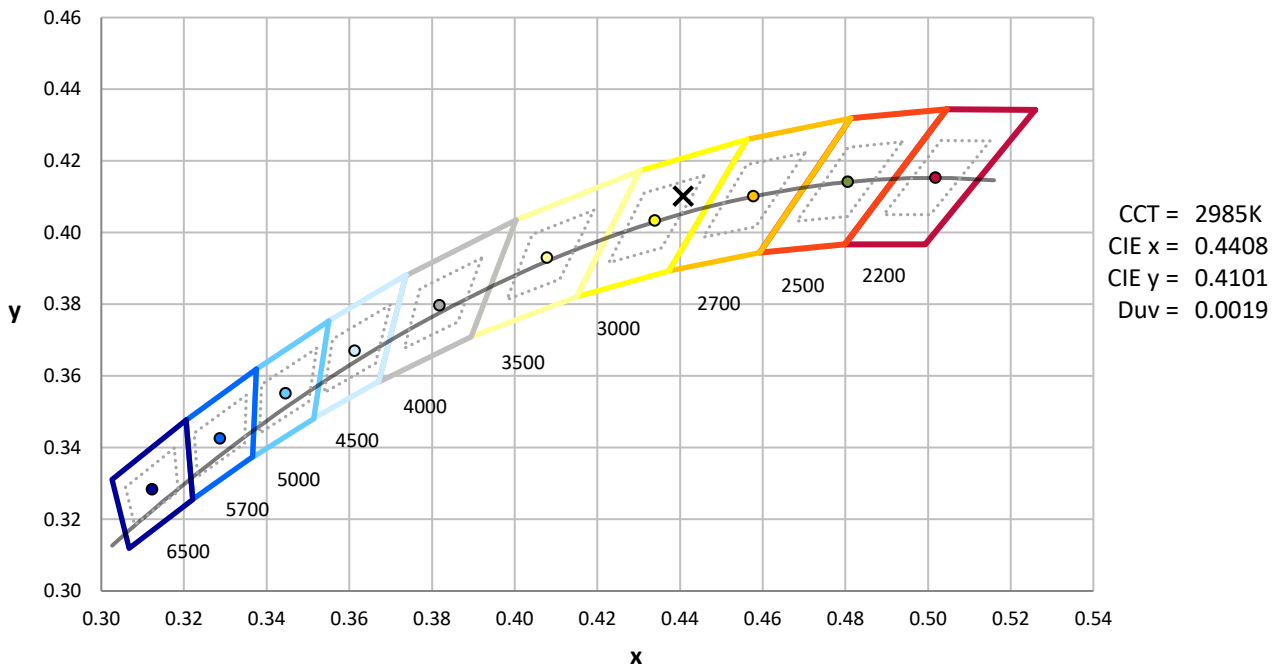
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



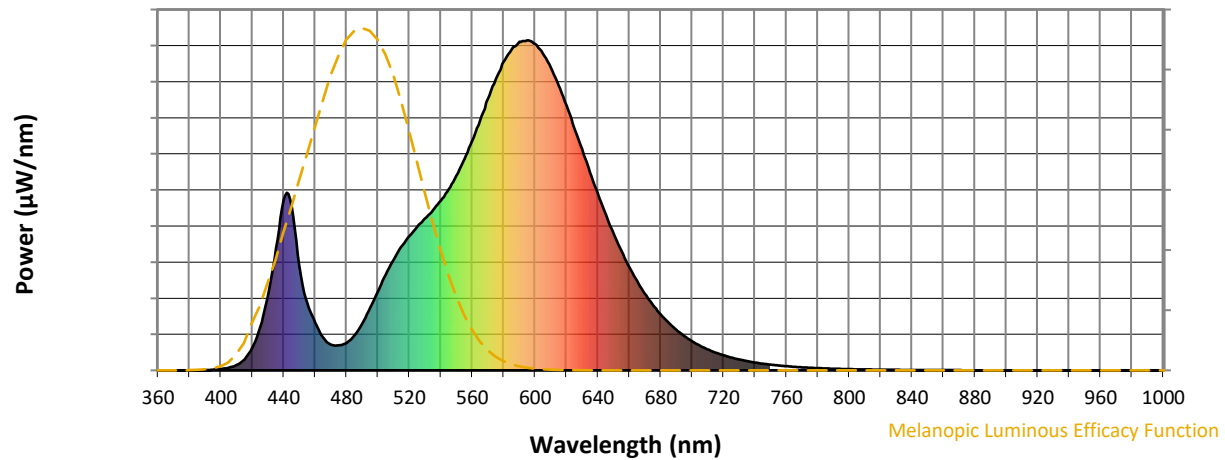
Scotopic Lumens: NR

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

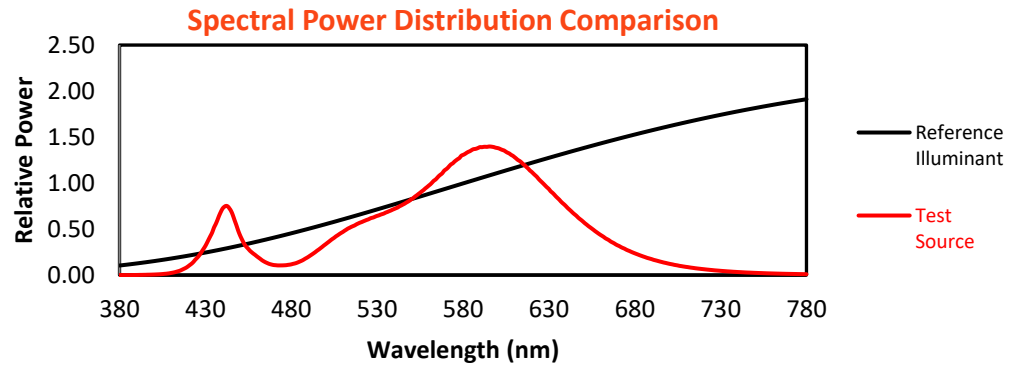
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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			

REPORT NUMBER: SP1-2407-184-4

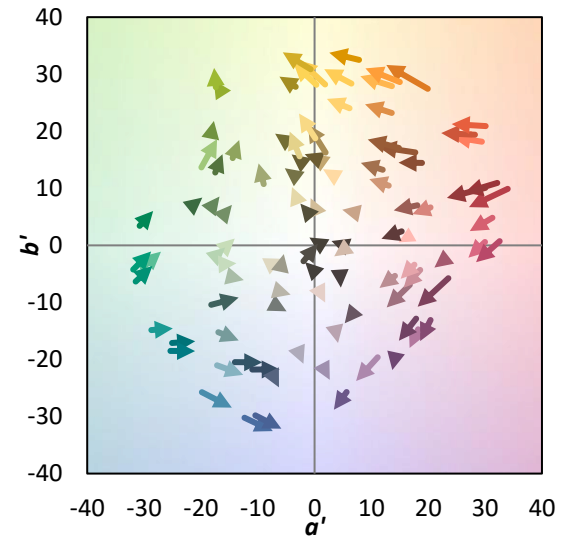
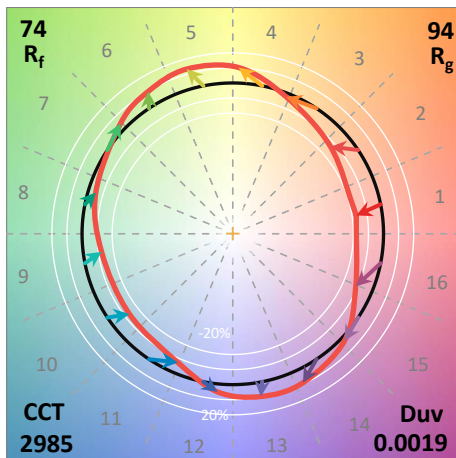
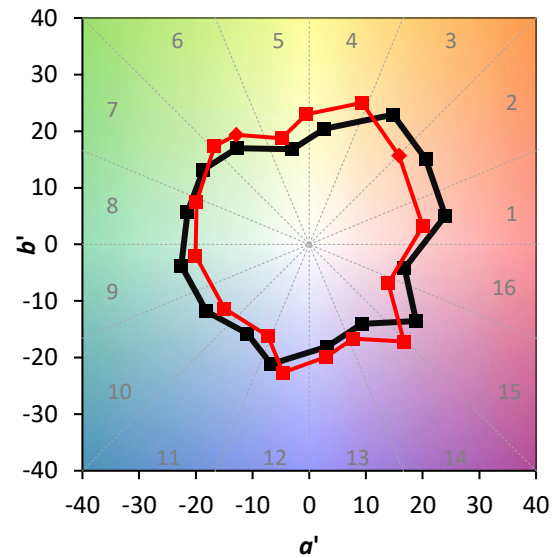
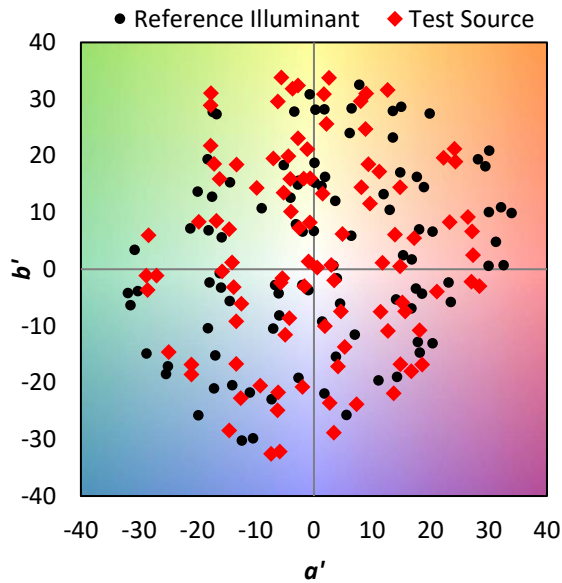
TM-30-18

Summary

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

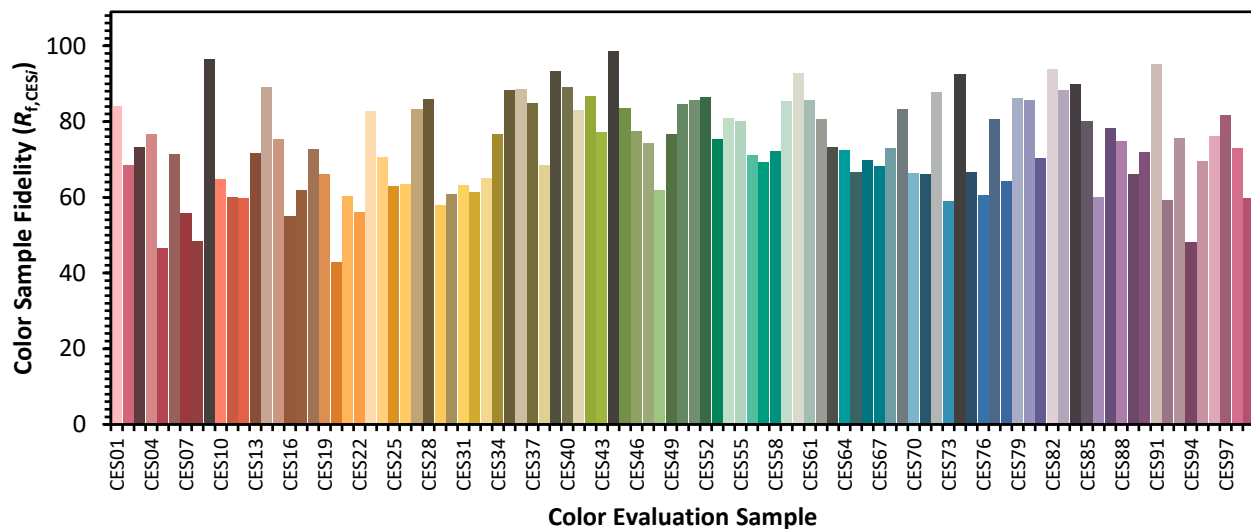


Color Vector Graphics

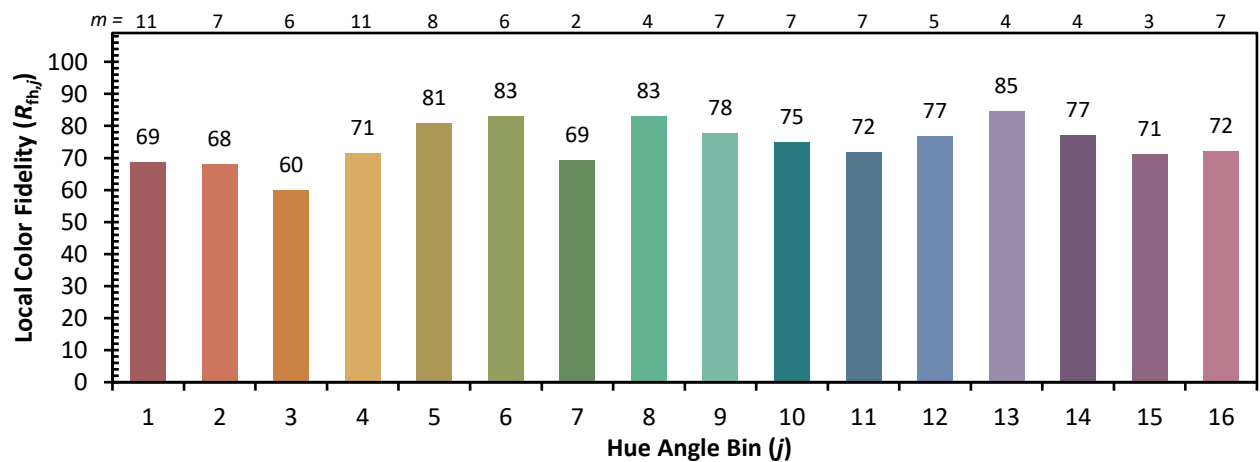
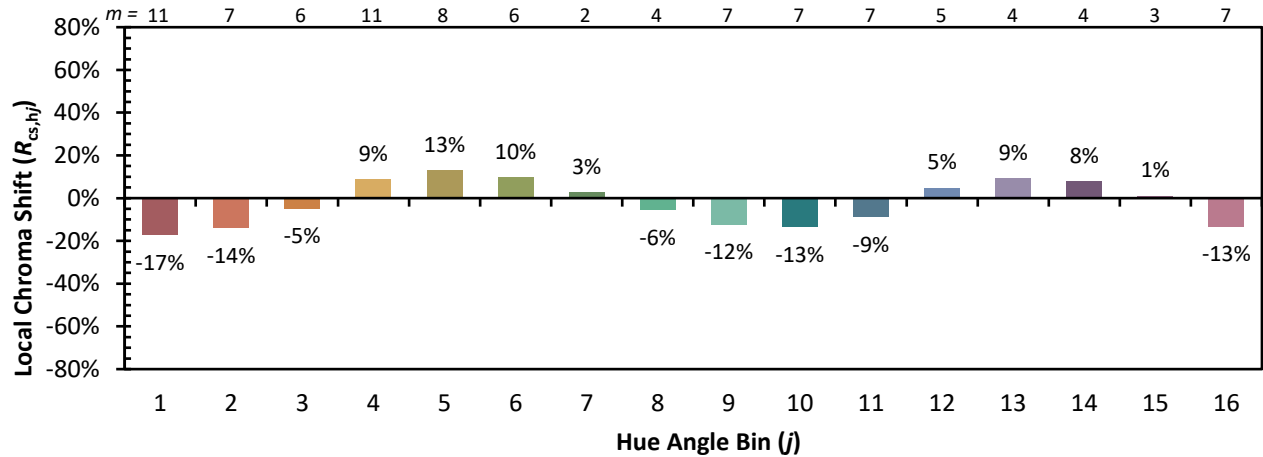


Individual Sample Fidelity Index ($R_{f,i}$)

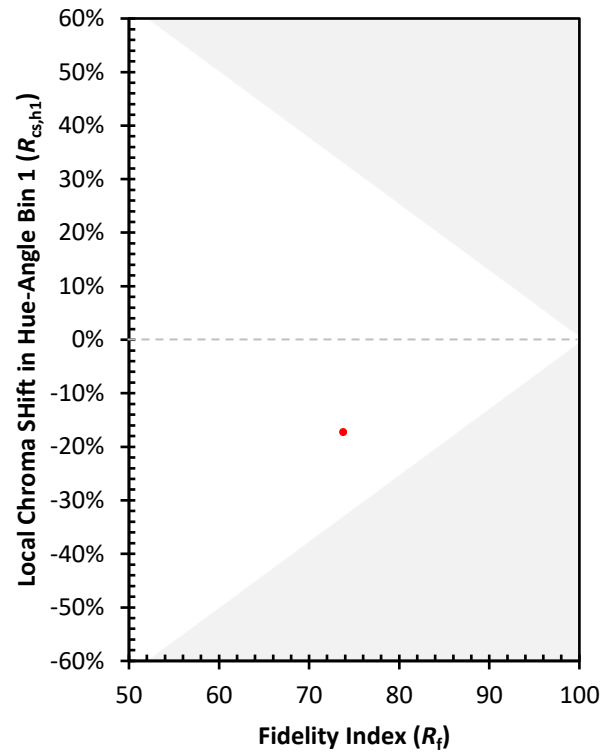
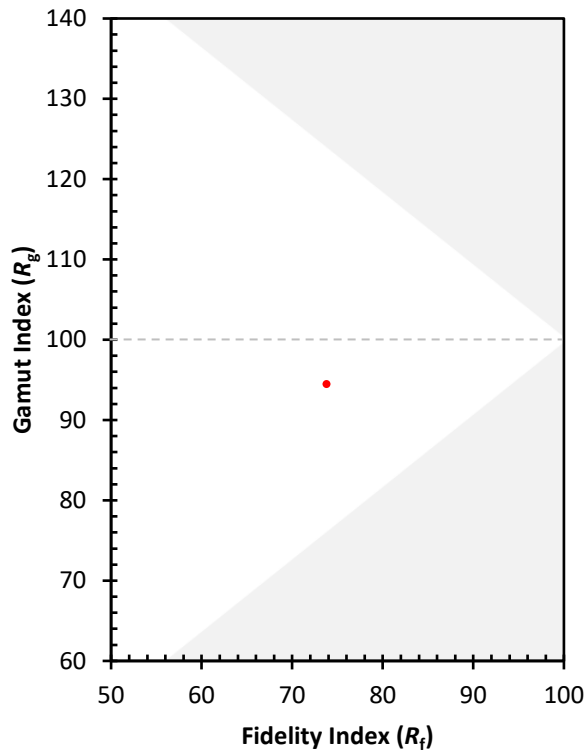
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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