

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: P1066927

Luminaire Tested: **NAV-SA5C-740-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066927
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-740-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 4000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28825.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 236
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

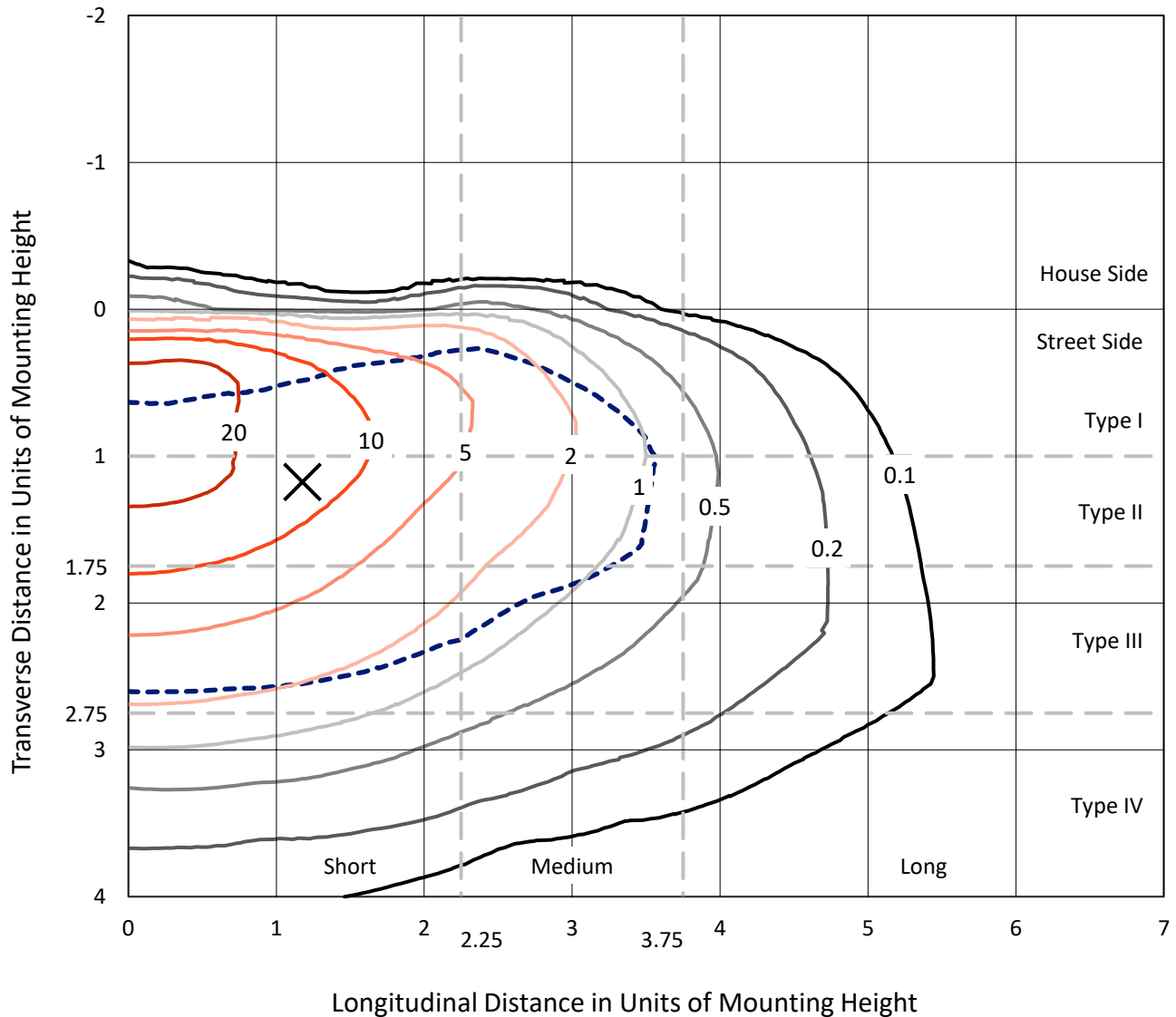


REPORT NUMBER: P1066927

CATALOG NUMBER: NAV-SA5C-740-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

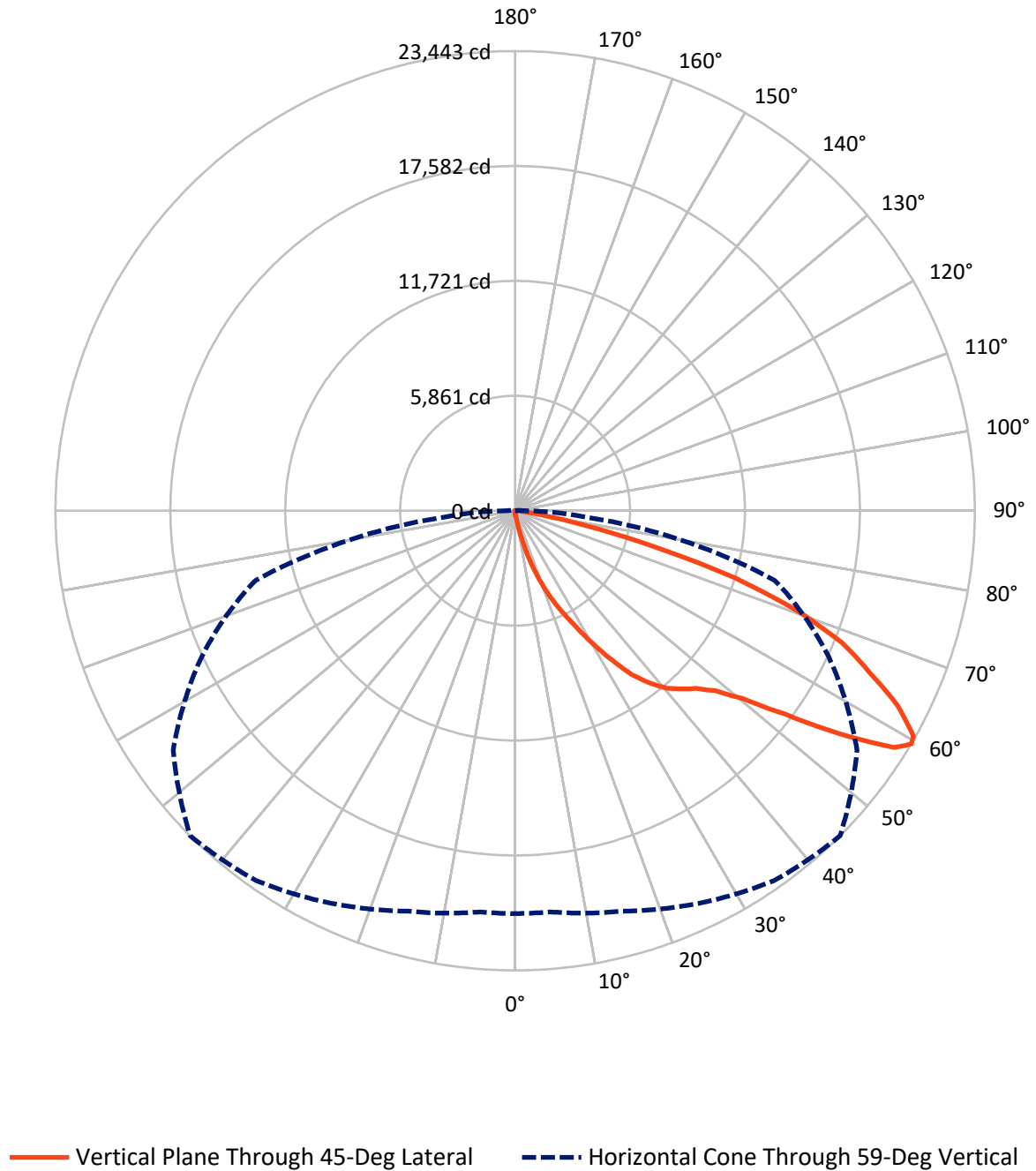


Based on 15 foot mounting height. Maximum calculated value = 31.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1066927

CATALOG NUMBER: NAV-SA5C-740-U-T3BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1066927

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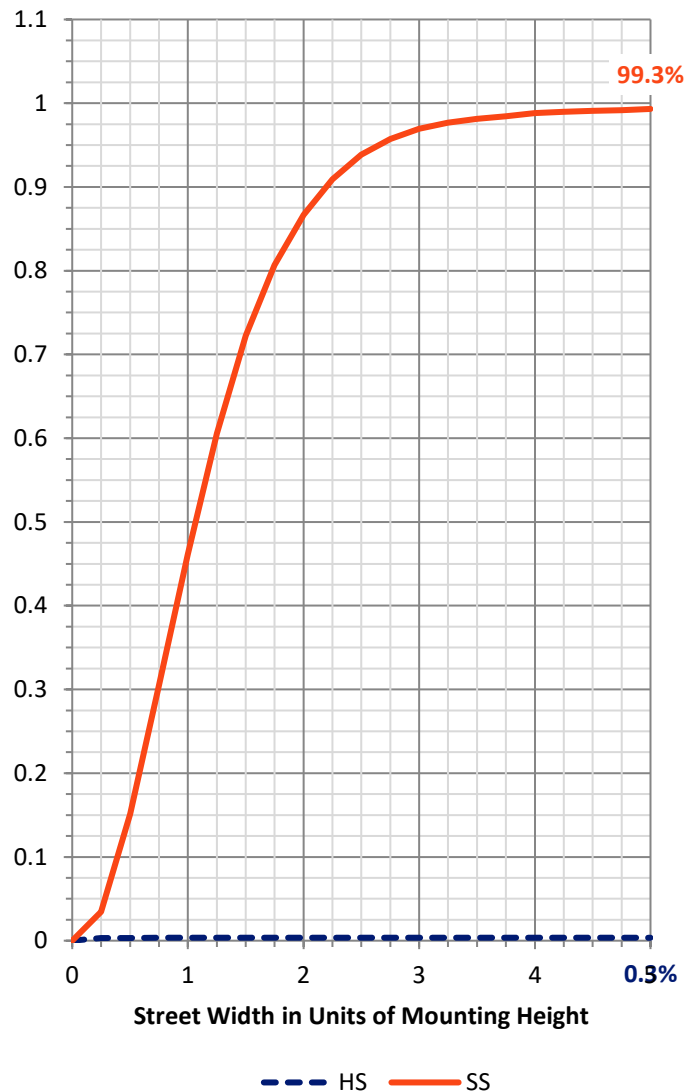
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	102.3	0.0	102.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	28722.7	0.0	28722.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	28825.1	0.0	28825.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.1
10°-20°	318.6	1.1
20°-30°	1144.8	4.0
30°-40°	2660.1	9.2
40°-50°	4534.0	15.7
50°-60°	7470.9	25.9
60°-70°	8638.0	30.0
70°-80°	3711.2	12.9
80°-90°	320.7	1.1
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°	28825.1	100.0
0°-180°	28825.1	100.0



REPORT NUMBER: P1066927

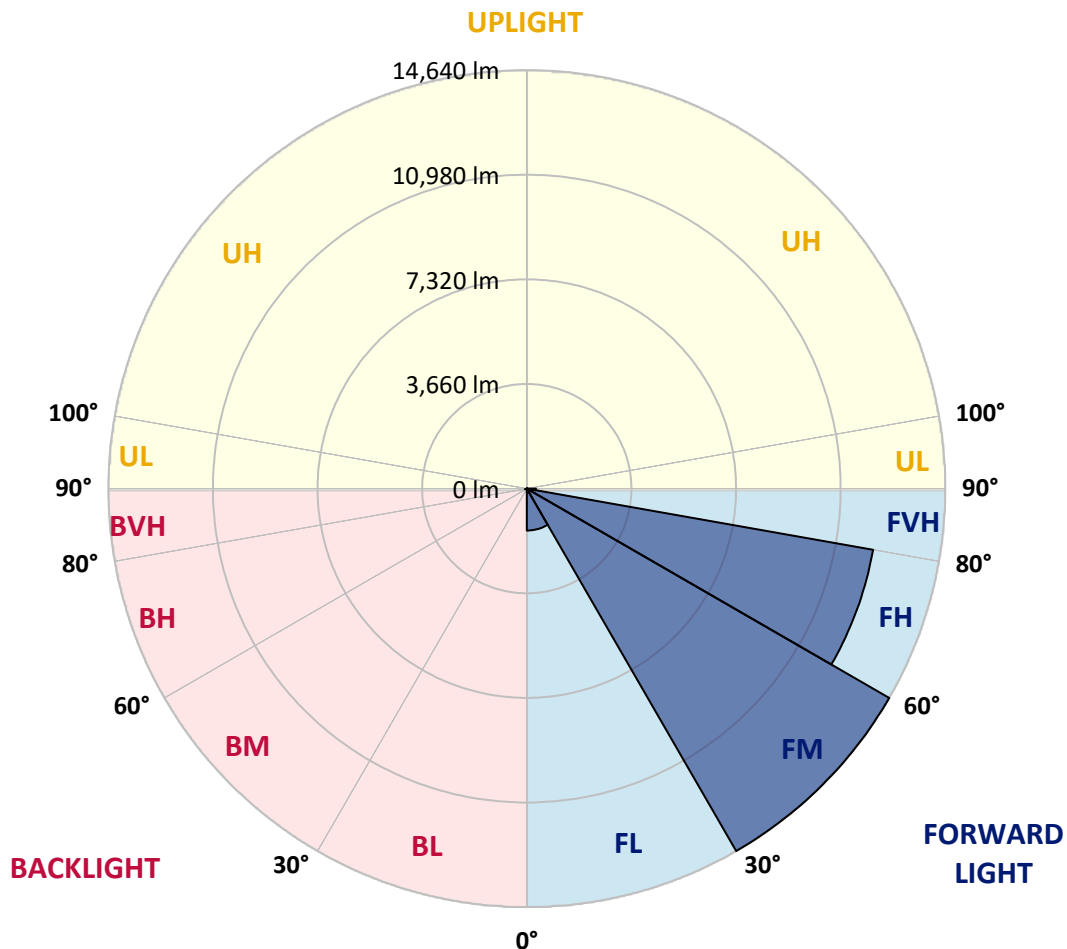
CATALOG NUMBER: NAV-SA5C-740-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.9	5.1			
FM	(30°-60°)	14640.3	50.8			
FH	(60°-80°)	12301.0	42.7			G5
FVH	(80°-90°)	316.5	1.1			G3/500
BL	(0°-30°)	25.3	0.1	B0/110		
BM	(30°-60°)	24.8	0.1	B0/220		
BH	(60°-80°)	48.2	0.2	B0/110		G0/110
BVH	(80°-90°)	4.2	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-G5

Type III Short



REPORT NUMBER: P1066927

CATALOG NUMBER: NAV-SA5C-740-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2
2.5°	236.5	236.5	230.6	222.9	221.0	215.1	215.1	209.3	201.6	195.8	188.0
5°	343.1	341.1	325.6	306.2	281.0	265.5	265.5	244.2	224.8	207.4	191.9
7.5°	750.1	732.6	676.4	583.4	461.3	379.9	374.1	304.3	257.8	222.9	193.8
10°	1721.1	1661.0	1581.6	1358.7	1004.0	701.6	688.1	443.8	308.2	240.3	197.7
12.5°	2820.1	2868.5	2709.6	2358.8	1944.0	1445.9	1349.0	748.1	407.0	263.6	201.6
15°	3820.2	3808.6	3719.4	3432.6	2953.8	2291.0	2230.9	1300.5	583.4	300.4	205.4
17.5°	4568.4	4554.8	4469.5	4285.4	3917.1	3254.2	3201.9	2073.9	914.8	352.8	209.3
20°	5357.2	5339.8	5219.6	5072.3	4750.5	4186.5	4124.5	2938.3	1432.3	438.0	209.3
22.5°	6303.0	6270.1	6142.2	5892.1	5553.0	5062.6	5006.4	3822.1	2073.9	577.6	219.0
25°	7446.6	7390.4	7214.0	6989.2	6580.2	5929.0	5868.9	4806.8	2847.2	788.8	228.7
27.5°	8751.0	8760.7	8522.3	8142.4	7593.9	6929.1	6816.7	5688.6	3647.7	1091.2	240.3
30°	10299.6	10202.7	9867.4	9425.5	8892.5	8045.5	7937.0	6566.6	4547.0	1537.0	259.7
32.5°	11749.4	11644.7	11193.1	10636.9	10065.1	9171.6	9082.4	7553.2	5365.0	2064.2	294.6
35°	12993.7	12920.1	12288.2	11609.9	11102.0	10303.5	10276.4	8654.1	6326.3	2632.1	333.4
37.5°	14088.8	13955.1	13143.0	12439.4	11923.8	11208.6	11150.5	9662.0	7252.8	3291.1	391.5
40°	15023.0	14949.4	13959.0	13034.4	12615.8	11976.2	11902.5	10545.8	8210.2	4056.7	463.2
42.5°	16023.1	15926.2	14964.9	13927.9	13156.5	12472.4	12423.9	11274.5	9063.1	4897.8	569.8
45°	17153.1	16972.9	16129.8	15199.4	14026.8	12986.0	12931.7	11923.8	9937.2	5801.1	699.7
47.5°	18360.6	18203.6	17521.4	16868.2	15519.2	13833.0	13716.7	12476.2	10805.5	6843.8	864.4
50°	19589.4	19593.3	19081.6	18767.6	17343.1	15209.1	15044.4	13288.3	11718.4	7960.2	1108.7
52.5°	21019.8	21056.7	21048.9	20816.3	19711.6	17459.4	17238.4	14521.0	12778.6	9262.7	1445.9
55°	21618.8	21684.6	22113.0	22628.6	22328.1	20312.4	20075.9	16647.3	14183.8	10714.4	1946.0
57.5°	21128.4	21202.0	21793.2	22696.4	23386.4	22810.7	22783.6	19415.0	16034.8	12474.3	2763.9
59°	20545.0	20535.3	21142.0	22099.4	23029.8	23403.8	23442.6	21287.3	17647.4	13708.9	3469.4
60°	20157.3	20165.1	20568.2	21550.9	22539.4	23188.7	23339.9	22390.2	18589.3	14596.6	4074.1
62.5°	18661.0	18750.2	19070.0	19982.9	20921.0	21645.9	21903.7	23372.8	21285.4	16693.8	6177.1
65°	17034.9	17040.7	17496.2	18277.3	19176.6	19686.4	19849.2	21843.6	23086.0	18829.7	8935.1
67.5°	14133.4	14251.6	14769.1	16034.8	17222.9	17868.3	17992.4	19013.8	22339.8	20221.3	10317.1
70°	9890.7	10045.7	10784.2	12425.8	14195.4	15255.6	15247.9	15806.1	19661.2	19601.1	8747.1
72.5°	4938.5	5206.0	5808.8	7566.8	9710.4	11375.3	11726.1	12714.6	15794.4	16280.9	6525.9
75°	2182.4	2197.9	2541.0	3426.7	4826.1	6940.7	7254.7	10092.2	12117.7	11315.2	4713.7
77.5°	1269.5	1281.2	1343.2	1538.9	1955.6	3401.6	3754.3	6619.0	8563.0	6576.3	3074.0
80°	461.3	472.9	471.0	583.4	856.7	1339.3	1492.4	3207.7	5711.9	3463.6	1610.6
82.5°	283.0	283.0	273.3	275.2	312.1	513.6	562.1	1366.4	2781.3	1705.6	461.3
85°	139.6	147.3	157.0	176.4	209.3	253.9	269.4	391.5	936.2	412.8	110.5
87.5°	83.3	85.3	93.0	112.4	139.6	182.2	193.8	265.5	335.3	277.2	27.1
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: P1066927

CATALOG NUMBER: NAV-SA5C-740-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2
2.5°	184.1	182.2	172.5	164.7	157.0	149.2	143.4	137.6	137.6	139.6	137.6
5°	184.1	176.4	160.9	147.3	135.7	126.0	116.3	108.5	106.6	106.6	108.5
7.5°	182.2	172.5	151.2	133.7	118.2	104.7	95.0	85.3	83.3	85.3	83.3
10°	180.3	168.6	143.4	122.1	100.8	87.2	73.7	64.0	64.0	64.0	65.9
12.5°	180.3	162.8	135.7	110.5	87.2	71.7	58.1	48.5	46.5	46.5	46.5
15°	178.3	158.9	127.9	96.9	73.7	54.3	42.6	32.9	32.9	32.9	32.9
17.5°	174.4	153.1	118.2	85.3	58.1	40.7	29.1	19.4	19.4	23.3	23.3
20°	170.6	147.3	106.6	69.8	48.5	31.0	19.4	11.6	11.6	17.4	19.4
22.5°	172.5	147.3	98.8	62.0	38.8	23.3	15.5	9.7	7.8	13.6	17.4
25°	174.4	143.4	89.2	54.3	29.1	17.4	11.6	3.9	1.9	3.9	5.8
27.5°	174.4	139.6	77.5	42.6	21.3	13.6	5.8	0.0	0.0	0.0	0.0
30°	172.5	133.7	67.8	34.9	15.5	7.8	1.9	0.0	0.0	0.0	0.0
32.5°	170.6	127.9	62.0	27.1	13.6	3.9	0.0	0.0	0.0	0.0	0.0
35°	172.5	120.2	54.3	21.3	7.8	0.0	0.0	0.0	0.0	0.0	3.9
37.5°	178.3	112.4	46.5	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	186.1	106.6	38.8	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	201.6	106.6	34.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	221.0	106.6	29.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	246.2	108.5	25.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	277.2	112.4	23.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	300.4	108.5	21.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	341.1	104.7	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	395.4	98.8	19.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	449.7	91.1	19.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	511.7	87.2	17.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	845.1	77.5	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1632.0	73.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2637.9	73.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2773.6	73.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1845.2	60.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	988.5	54.3	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	533.0	50.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	234.5	36.8	9.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.0	25.2	11.6	9.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	44.6	19.4	15.5	13.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	19.4	17.4	15.5	13.6	9.7	1.9	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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

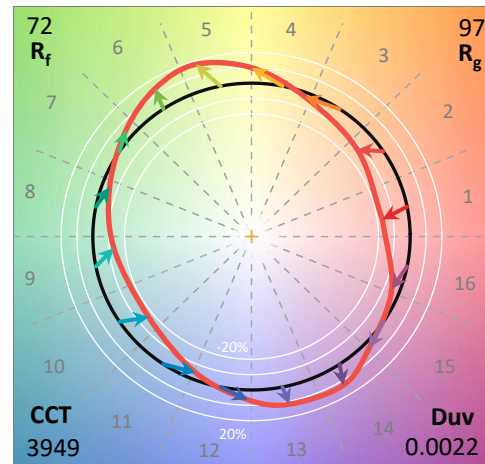
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

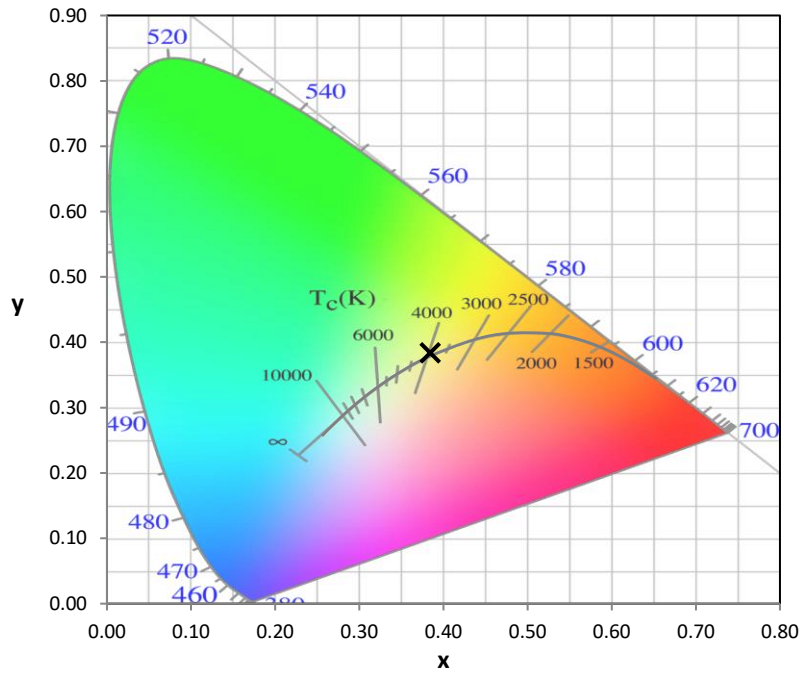
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

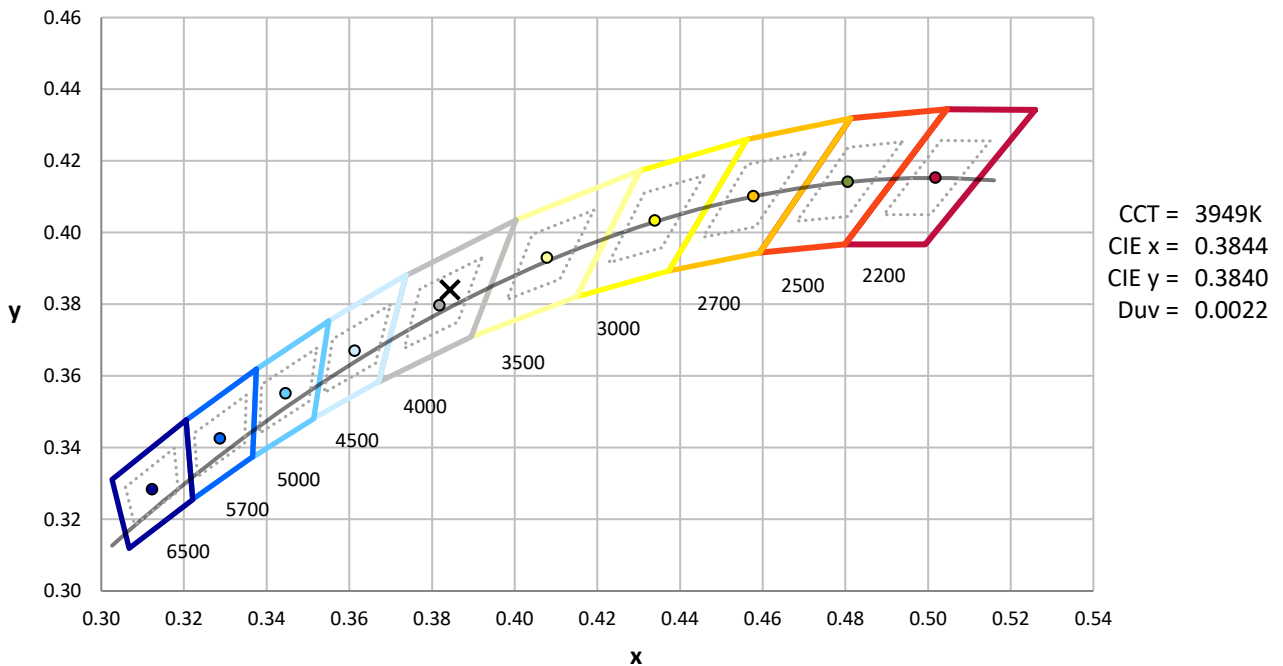
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



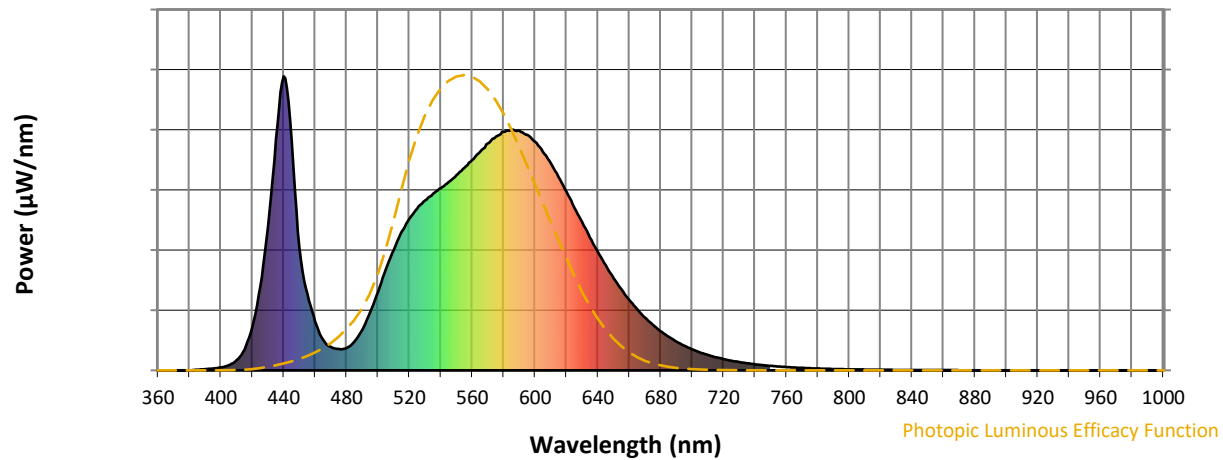
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

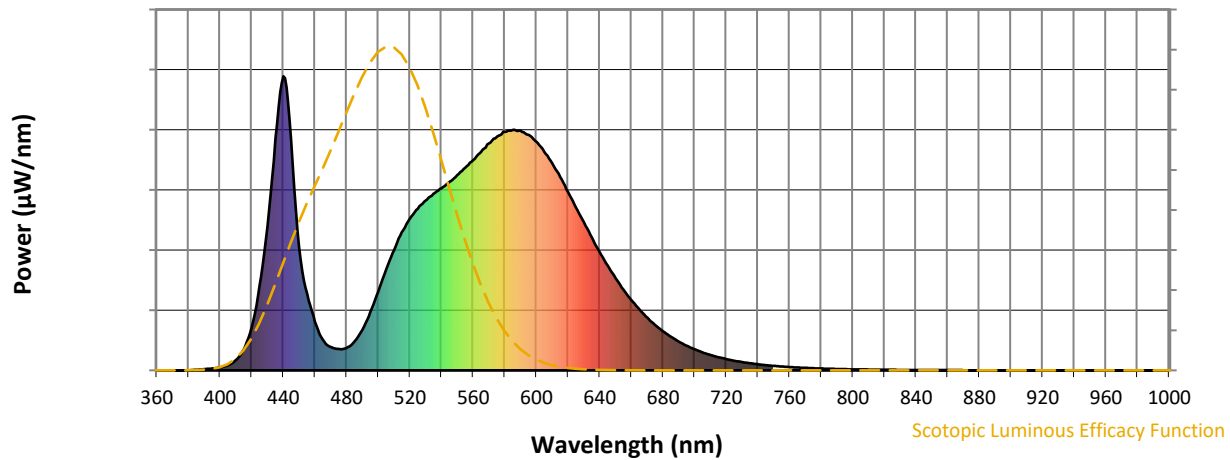


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



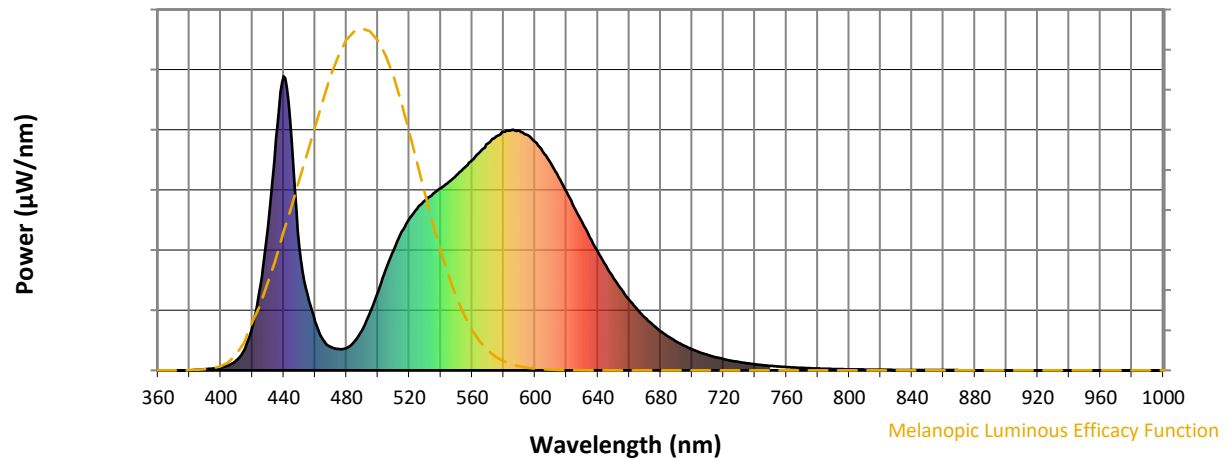
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

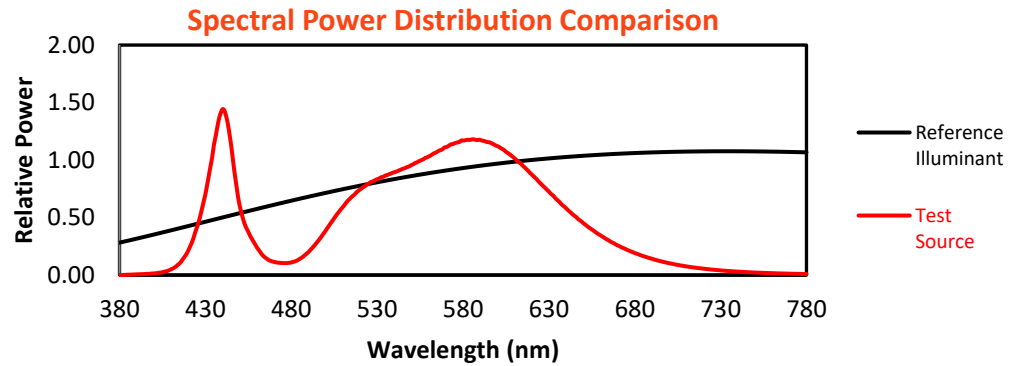
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

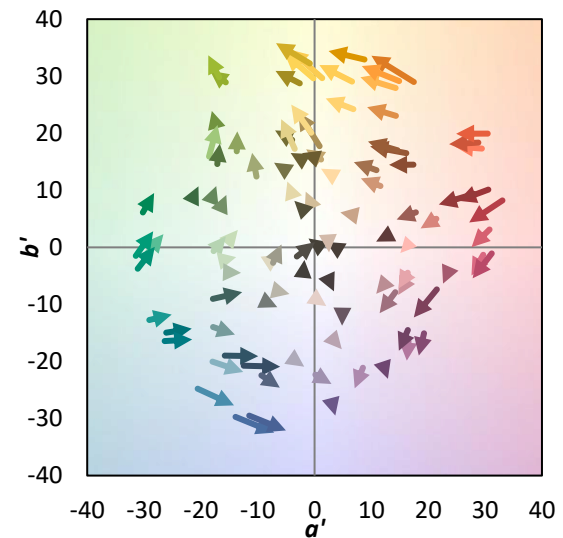
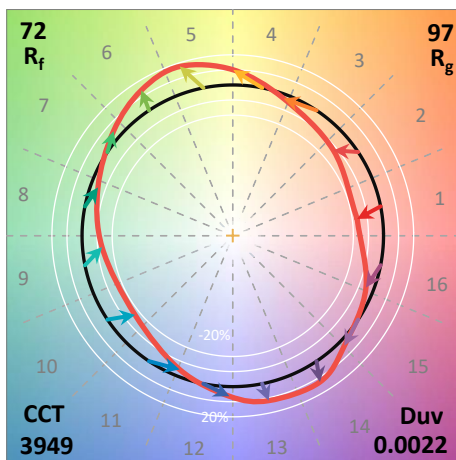
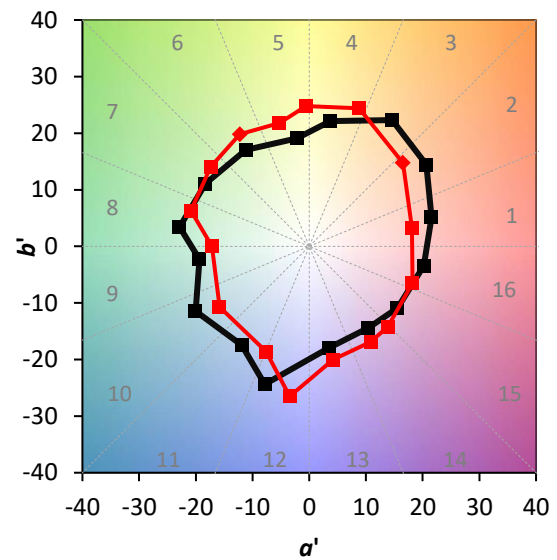
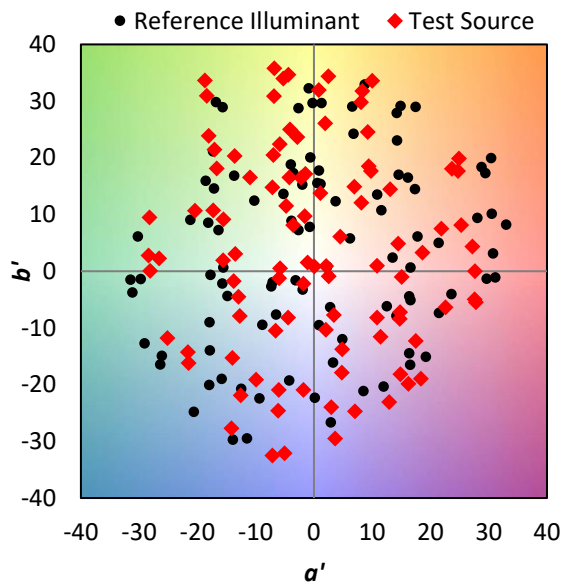
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$

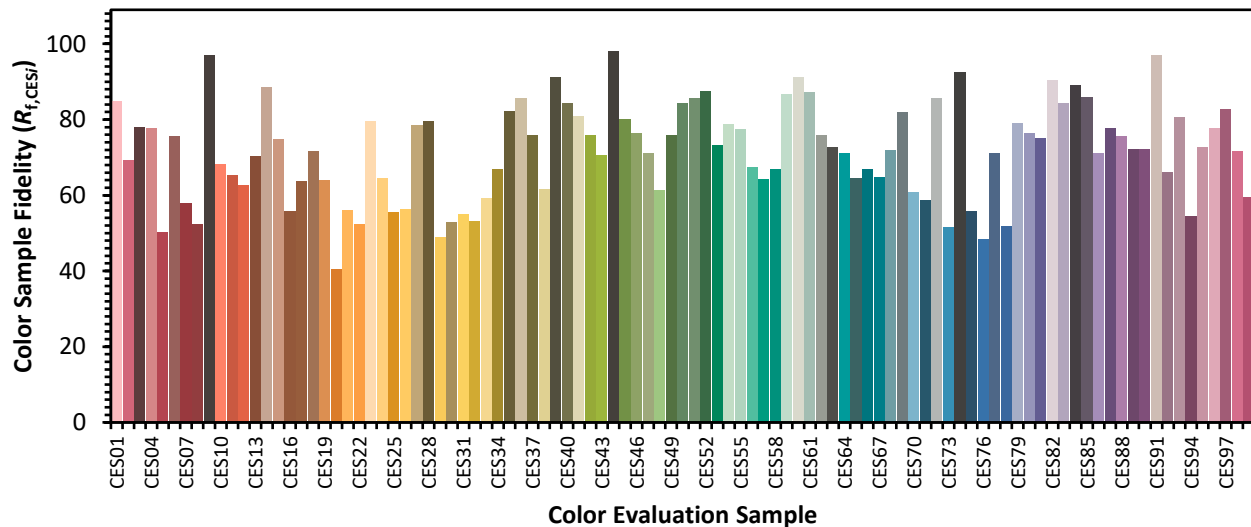


Color Vector Graphics

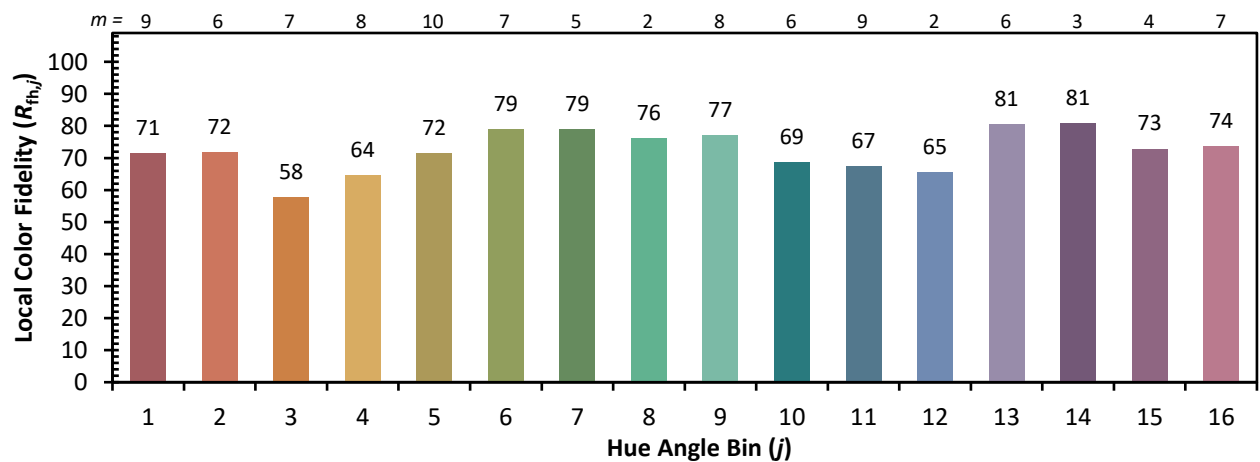
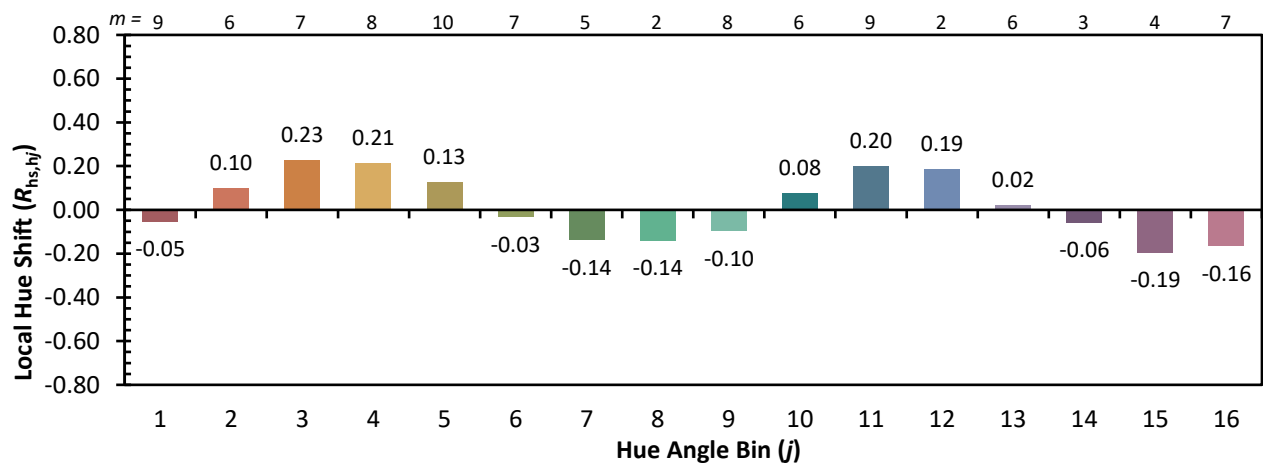
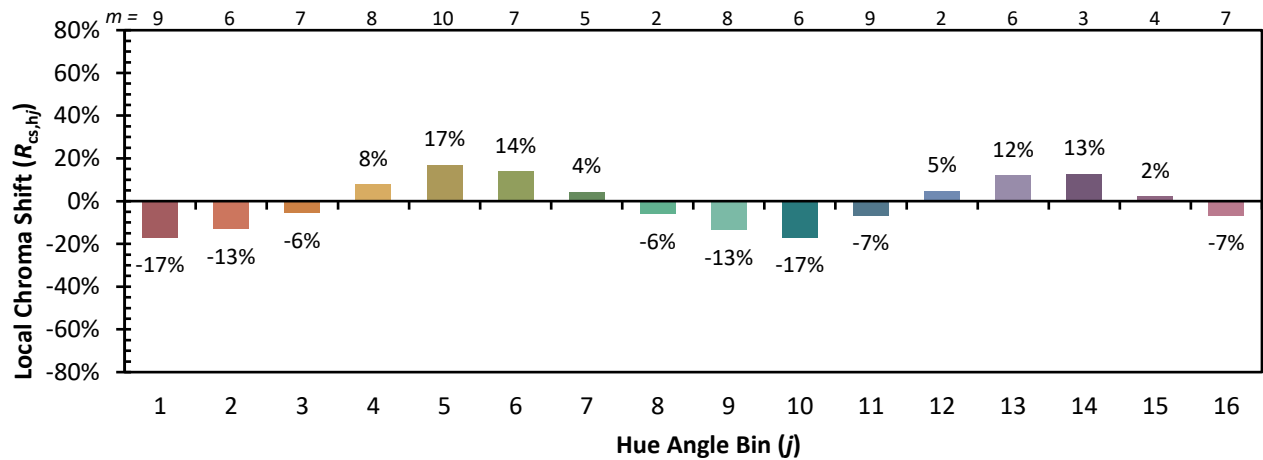


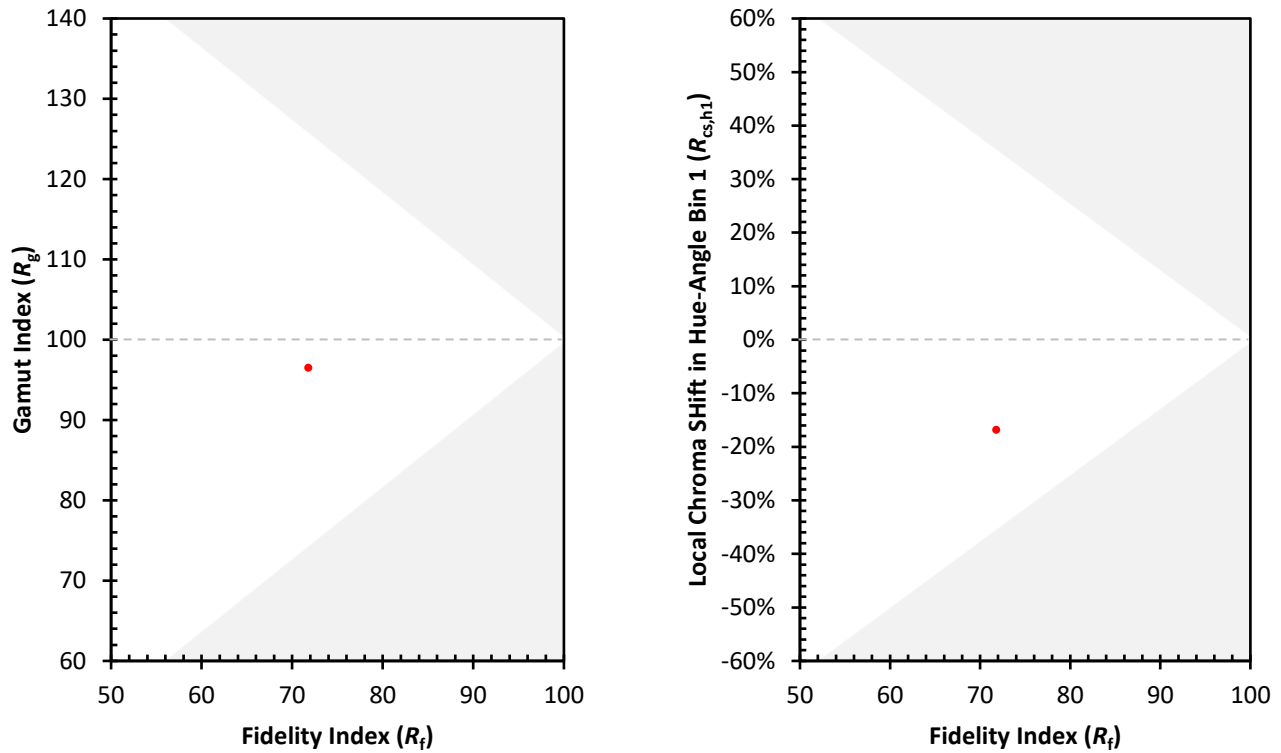
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)