

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: INVUE

Report Number: P869206

Luminaire Tested: **EMM2-HTN-SA3A-AMB-U-T3-HSS**

Issue Date: 08/22/2024



Test Information

Test Method: LM-79-08
Report Number: P869206
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/22/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM2-HTN-SA3A-AMB-U-T3-HSS
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 46W 0CRI 1540K FIXTURE
w/ TYPE III DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (30) 1540K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

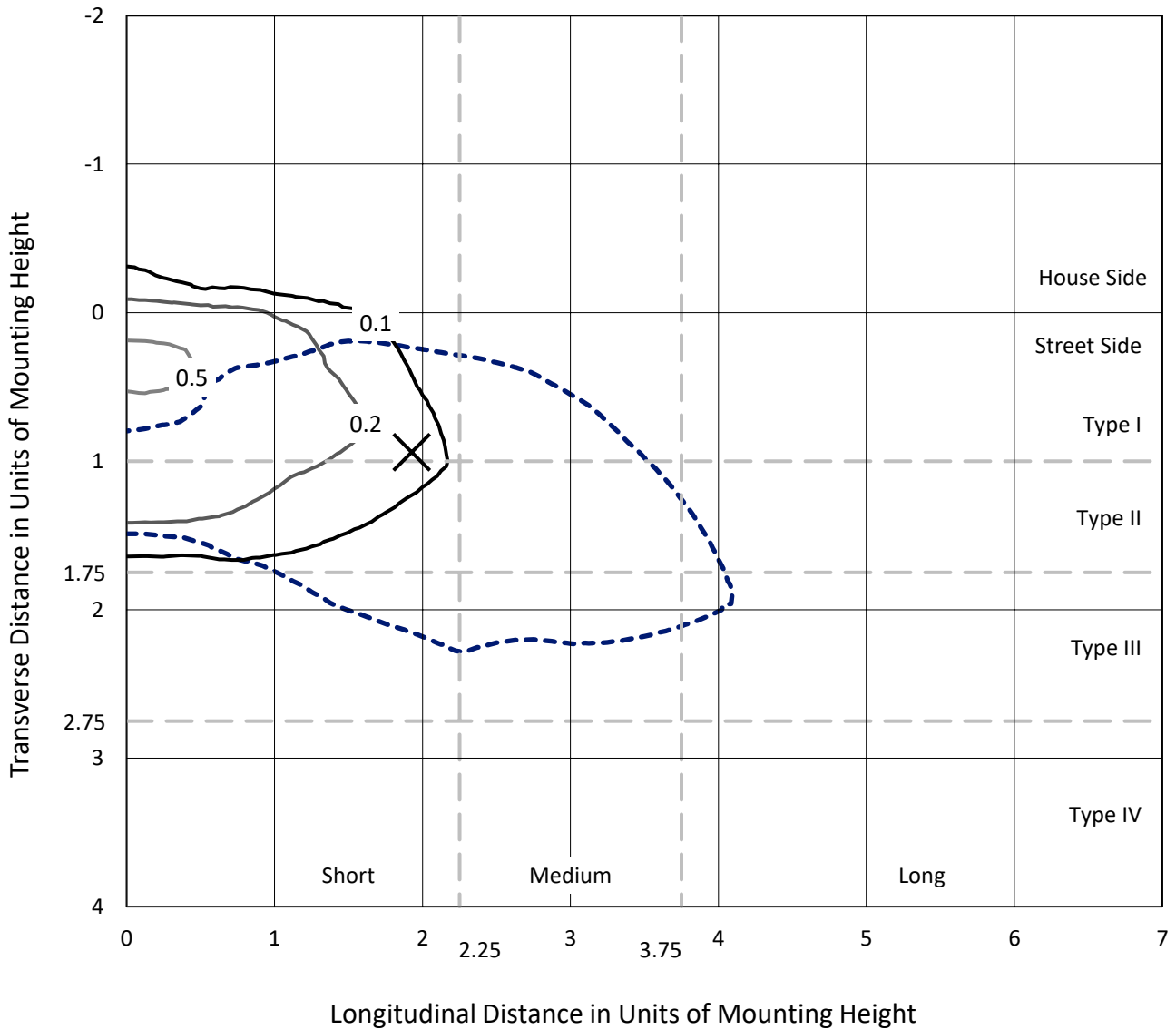
Lumens per Lamp: N/A
Luminaire Lumens: 990.5 lumens
Efficiency: N/A
Efficacy: 21.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 6.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P869206
 CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

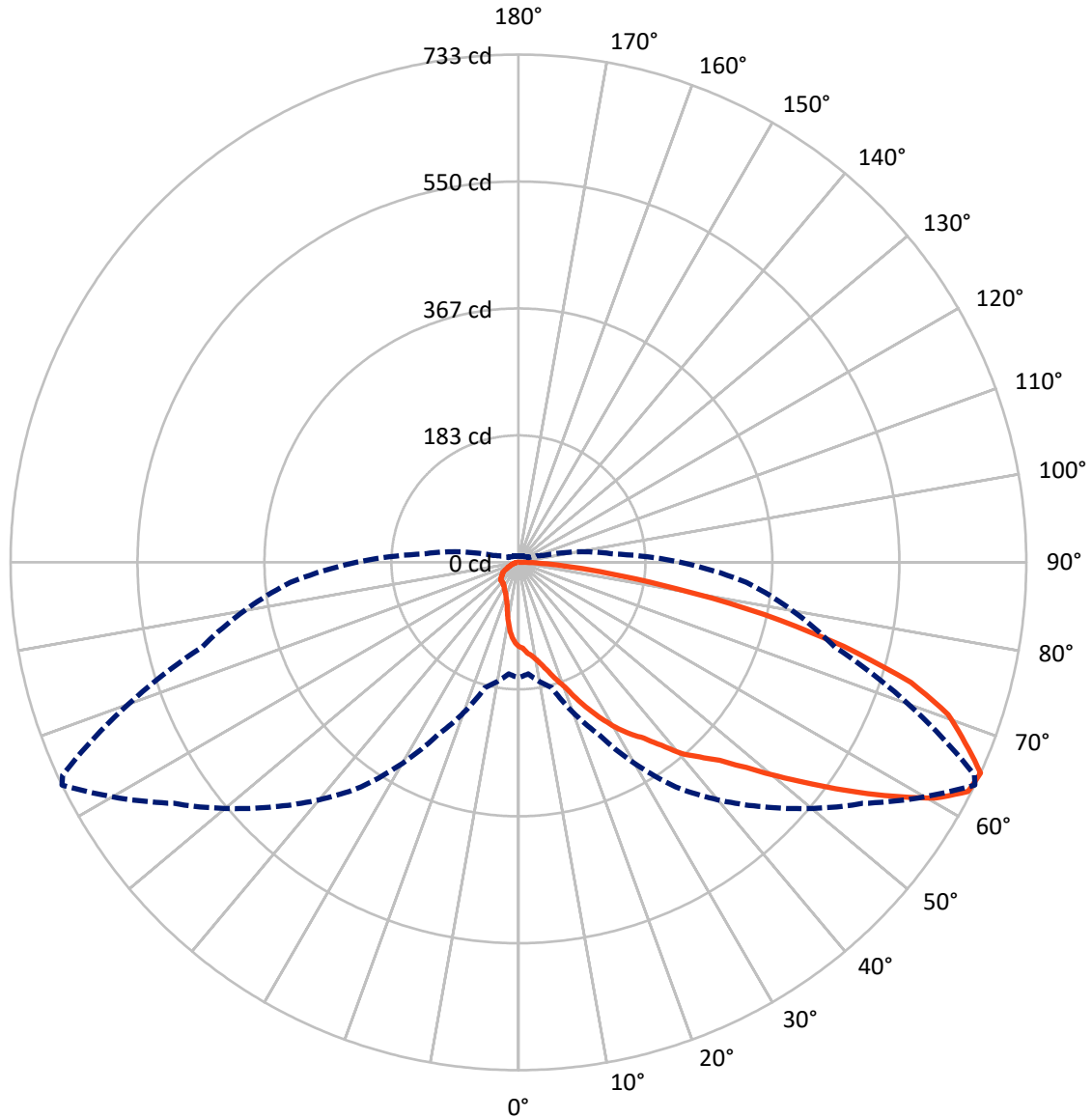
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

REPORT NUMBER: P869206
CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P869206
 CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

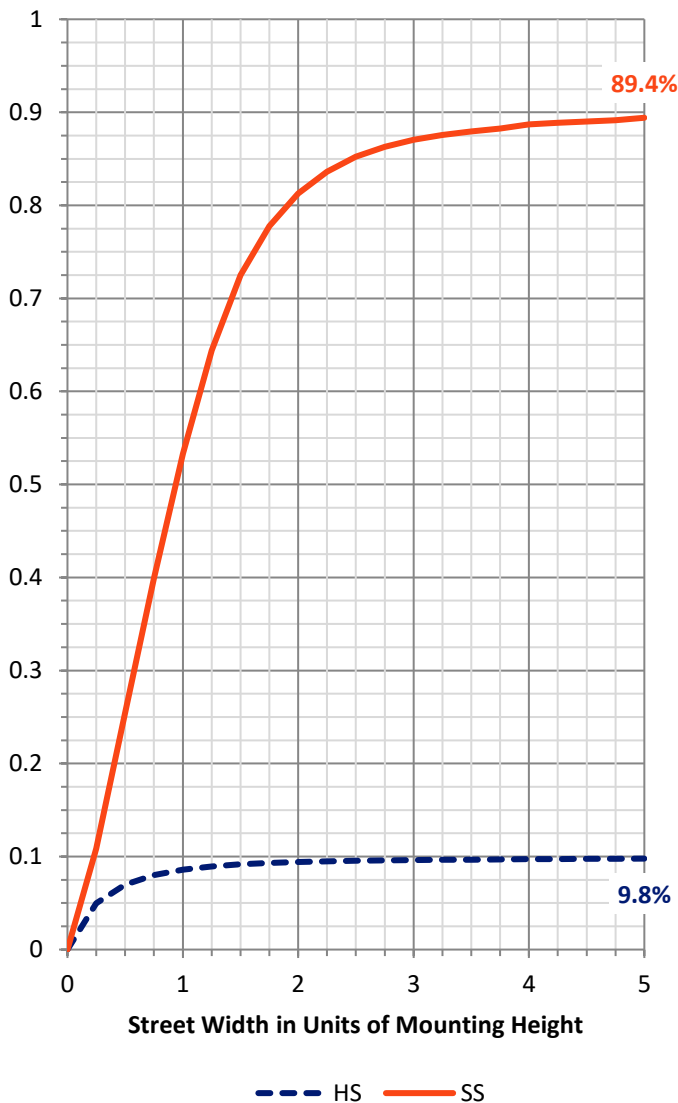
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	98.2	0.0	98.2
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	892.3	0.0	892.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	990.5	0.0	990.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	1.1
10°-20°	39.0	3.9
20°-30°	71.7	7.2
30°-40°	111.5	11.3
40°-50°	171.9	17.4
50°-60°	224.3	22.6
60°-70°	213.0	21.5
70°-80°	123.7	12.5
80°-90°	24.3	2.5
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°	990.5	100.0
0°-180°	990.5	100.0

Coefficient of Utilization



REPORT NUMBER: P869206

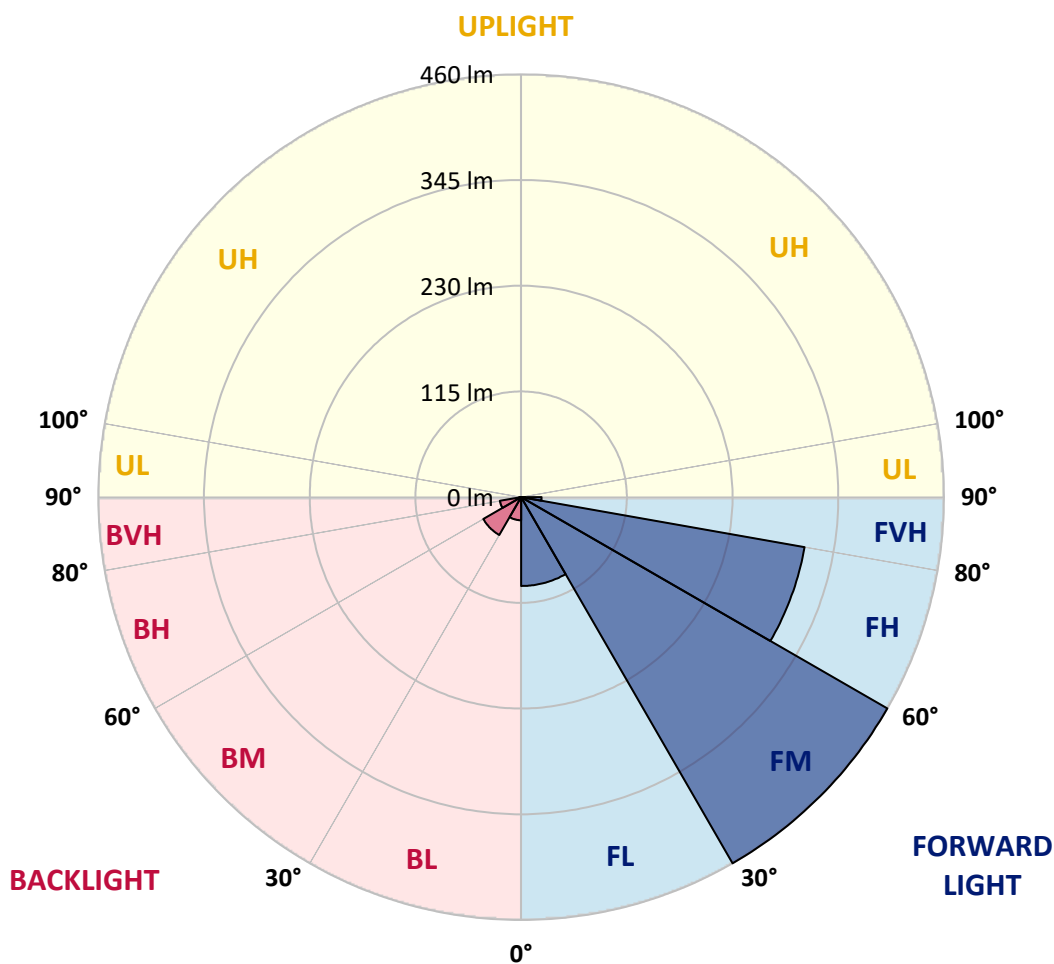
CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.7	9.8			
FM (30°-60°)	460.1	46.5			
FH (60°-80°)	313.2	31.6			G0/660
FVH (80°-90°)	22.3	2.2			G1/100
BL (0°-30°)	25.2	2.5	B0/110		
BM (30°-60°)	47.6	4.8	B0/220		
BH (60°-80°)	23.5	2.4	B0/110		G0/110
BVH (80°-90°)	2.0	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P869206

CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8
2.5°	128.9	131.2	128.9	128.9	128.9	128.9	126.5	124.2	126.5	124.2	121.8
5°	142.9	142.9	140.6	140.6	138.3	135.9	133.6	131.2	128.9	126.5	124.2
7.5°	168.7	166.4	164.0	161.7	154.7	147.6	140.6	135.9	135.9	131.2	126.5
10°	208.5	206.2	201.5	192.1	180.4	166.4	152.3	142.9	140.6	133.6	128.9
12.5°	243.7	246.0	241.4	232.0	213.2	189.8	166.4	152.3	150.0	138.3	131.2
15°	274.2	274.2	269.5	262.4	246.0	217.9	187.5	164.0	161.7	142.9	133.6
17.5°	283.5	283.5	285.9	283.5	271.8	248.4	210.9	178.1	173.4	150.0	135.9
20°	283.5	283.5	285.9	292.9	292.9	274.2	234.3	192.1	189.8	157.0	140.6
22.5°	281.2	281.2	285.9	292.9	302.3	295.2	260.1	213.2	206.2	166.4	147.6
25°	281.2	281.2	288.2	295.2	307.0	307.0	283.5	234.3	227.3	175.7	154.7
27.5°	285.9	288.2	292.9	297.6	311.6	316.3	299.9	255.4	248.4	187.5	159.3
30°	297.6	299.9	302.3	304.6	321.0	325.7	314.0	276.5	269.5	199.2	168.7
32.5°	314.0	316.3	318.7	316.3	330.4	335.1	328.1	295.2	290.6	215.6	182.8
35°	325.7	330.4	335.1	332.7	342.1	349.1	346.8	311.6	309.3	236.7	196.8
37.5°	342.1	344.5	349.1	344.5	349.1	363.2	370.2	335.1	330.4	260.1	213.2
40°	381.9	386.6	389.0	367.9	360.9	377.3	393.7	363.2	358.5	283.5	234.3
42.5°	424.1	424.1	433.5	407.7	384.3	396.0	419.4	384.3	377.3	299.9	243.7
45°	454.6	454.6	464.0	433.5	426.5	417.1	445.2	407.7	403.0	318.7	260.1
47.5°	482.7	473.3	468.6	456.9	471.0	440.5	475.7	442.9	435.8	339.8	281.2
50°	494.4	487.4	489.7	478.0	489.7	471.0	506.1	485.0	478.0	363.2	302.3
52.5°	480.4	475.7	492.1	496.8	496.8	489.7	536.6	531.9	522.5	386.6	325.7
55°	407.7	414.8	454.6	492.1	496.8	501.5	564.7	583.5	571.7	410.1	339.8
57.5°	307.0	309.3	358.5	466.3	492.1	513.2	595.2	637.4	625.6	435.8	346.8
60°	255.4	255.4	274.2	405.4	475.7	520.2	618.6	691.3	679.5	454.6	344.5
62.5°	222.6	222.6	241.4	328.1	440.5	515.5	630.3	728.7	717.0	466.3	337.4
65°	166.4	161.7	187.5	274.2	396.0	499.1	606.9	733.4	726.4	473.3	330.4
67.5°	121.8	119.5	128.9	224.9	358.5	468.6	562.4	695.9	698.3	478.0	325.7
70°	93.7	93.7	98.4	145.3	299.9	421.8	480.4	658.4	672.5	468.6	311.6
72.5°	70.3	70.3	77.3	98.4	217.9	374.9	424.1	592.8	616.3	421.8	264.8
75°	53.9	53.9	58.6	70.3	135.9	267.1	381.9	485.0	508.5	337.4	208.5
77.5°	42.2	44.5	46.9	53.9	75.0	150.0	290.6	363.2	365.5	243.7	157.0
80°	35.1	37.5	37.5	42.2	51.6	79.7	175.7	232.0	243.7	154.7	98.4
82.5°	30.5	30.5	32.8	35.1	37.5	49.2	89.0	131.2	131.2	84.4	53.9
85°	21.1	23.4	23.4	28.1	28.1	32.8	49.2	65.6	68.0	46.9	23.4
87.5°	11.7	11.7	16.4	16.4	16.4	21.1	25.8	25.8	28.1	21.1	7.0
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: P869206

CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8
2.5°	121.8	121.8	119.5	117.2	114.8	112.5	110.1	110.1	107.8	110.1	107.8
5°	124.2	119.5	114.8	110.1	103.1	96.1	91.4	86.7	84.4	82.0	82.0
7.5°	124.2	119.5	112.5	100.8	89.0	77.3	70.3	65.6	63.3	63.3	63.3
10°	124.2	119.5	105.4	89.0	72.6	63.3	58.6	56.2	56.2	53.9	53.9
12.5°	126.5	119.5	98.4	77.3	60.9	53.9	51.6	51.6	51.6	51.6	51.6
15°	126.5	117.2	91.4	65.6	53.9	51.6	49.2	49.2	46.9	49.2	49.2
17.5°	128.9	117.2	84.4	58.6	49.2	46.9	46.9	44.5	44.5	44.5	44.5
20°	131.2	117.2	75.0	53.9	46.9	44.5	44.5	42.2	42.2	42.2	42.2
22.5°	135.9	117.2	70.3	49.2	44.5	42.2	39.8	39.8	39.8	39.8	39.8
25°	140.6	117.2	63.3	46.9	42.2	39.8	37.5	35.1	35.1	35.1	35.1
27.5°	145.3	117.2	58.6	44.5	39.8	35.1	35.1	32.8	32.8	32.8	32.8
30°	152.3	117.2	56.2	42.2	35.1	32.8	30.5	30.5	30.5	30.5	30.5
32.5°	159.3	119.5	53.9	39.8	35.1	30.5	28.1	28.1	28.1	28.1	28.1
35°	173.4	124.2	53.9	39.8	32.8	28.1	25.8	25.8	25.8	25.8	25.8
37.5°	185.1	131.2	56.2	37.5	30.5	28.1	25.8	23.4	23.4	23.4	23.4
40°	201.5	135.9	58.6	37.5	30.5	25.8	23.4	23.4	23.4	21.1	21.1
42.5°	203.9	128.9	56.2	37.5	28.1	23.4	23.4	21.1	21.1	21.1	21.1
45°	213.2	131.2	56.2	37.5	28.1	23.4	21.1	21.1	18.7	18.7	18.7
47.5°	227.3	135.9	53.9	35.1	28.1	21.1	21.1	18.7	18.7	18.7	18.7
50°	241.4	138.3	53.9	32.8	25.8	21.1	18.7	16.4	16.4	16.4	16.4
52.5°	253.1	140.6	51.6	30.5	25.8	18.7	18.7	16.4	16.4	16.4	16.4
55°	262.4	140.6	51.6	28.1	23.4	18.7	16.4	14.1	14.1	14.1	14.1
57.5°	264.8	142.9	49.2	28.1	21.1	16.4	14.1	14.1	11.7	11.7	11.7
60°	260.1	145.3	46.9	23.4	18.7	14.1	14.1	11.7	11.7	11.7	11.7
62.5°	248.4	142.9	42.2	18.7	16.4	14.1	11.7	11.7	9.4	9.4	9.4
65°	234.3	138.3	37.5	16.4	14.1	11.7	11.7	9.4	9.4	9.4	9.4
67.5°	217.9	128.9	30.5	14.1	14.1	11.7	9.4	9.4	7.0	7.0	7.0
70°	203.9	112.5	21.1	11.7	11.7	9.4	9.4	7.0	7.0	7.0	7.0
72.5°	173.4	89.0	14.1	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0
75°	140.6	58.6	11.7	7.0	7.0	7.0	7.0	7.0	4.7	4.7	4.7
77.5°	98.4	35.1	9.4	7.0	7.0	7.0	4.7	4.7	4.7	4.7	4.7
80°	49.2	18.7	7.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	23.4	9.4	4.7	4.7	4.7	4.7	4.7	4.7	7.0	4.7	4.7
85°	11.7	4.7	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	2.3	2.3	2.3	2.3	0.0	0.0	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-1

Test Date: 08/06/2024

Luminaire Tested: MEM2-HTN-SA-45-AMB-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-45-AMB-U-5WQ-2

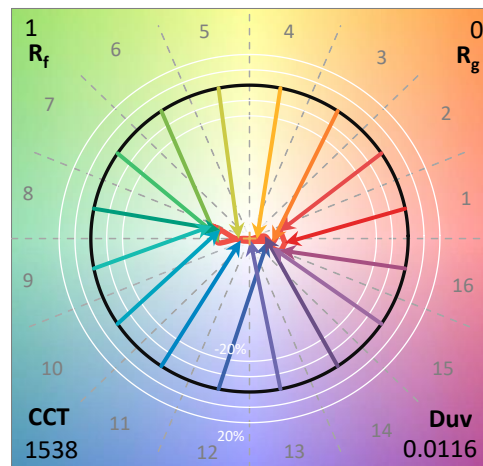
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-157-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/20/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-SA-45-AMB-U-5WQ-2**
 Description: Epic Modern Light Square 45W 5WQ Optic and Flare Trim AMBER LED

Spectral Parameters

CCT (K): 1538
 CIE u': 0.3530
 CIE v': 0.5469
 Duv: 0.0116
 CIE x: 0.5918
 CIE y: 0.4076
 CIE z: 0.0006
 Peak Wavelength (nm): 597
 Dominant Wavelength (nm): 592
 Purity: 99.98881
 R_f: 1.1
 R_g: 0

CRI (Ra):	-21.8		
R1:	-34.3	R9:	-386.6
R2:	52.3	R10:	28.9
R3:	17.0	R11:	-95.5
R4:	-68.4	R12:	-10.5
R5:	-40.8	R13:	-15.5
R6:	41.5	R14:	45.9
R7:	-7.2	R15:	-67.7
R8:	-134.5		



Test Conditions

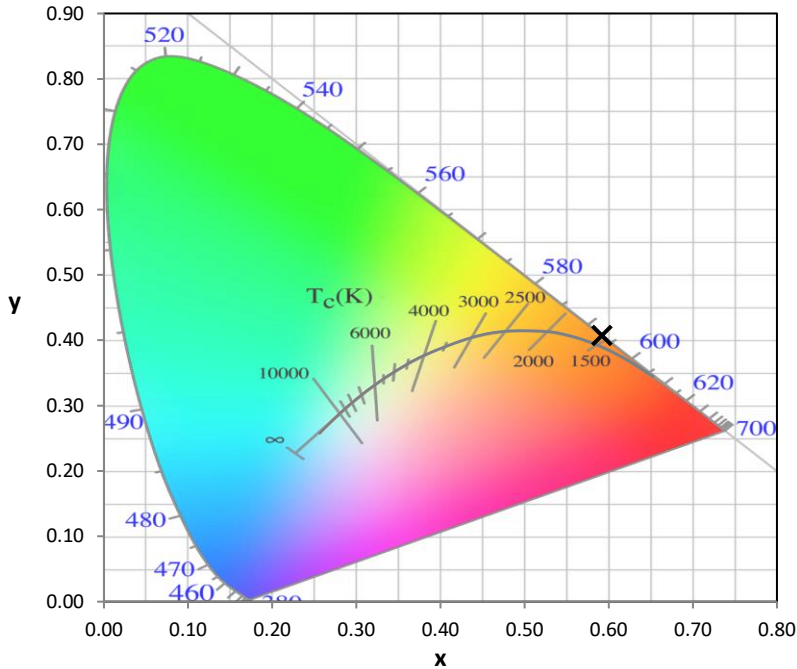
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-157-1

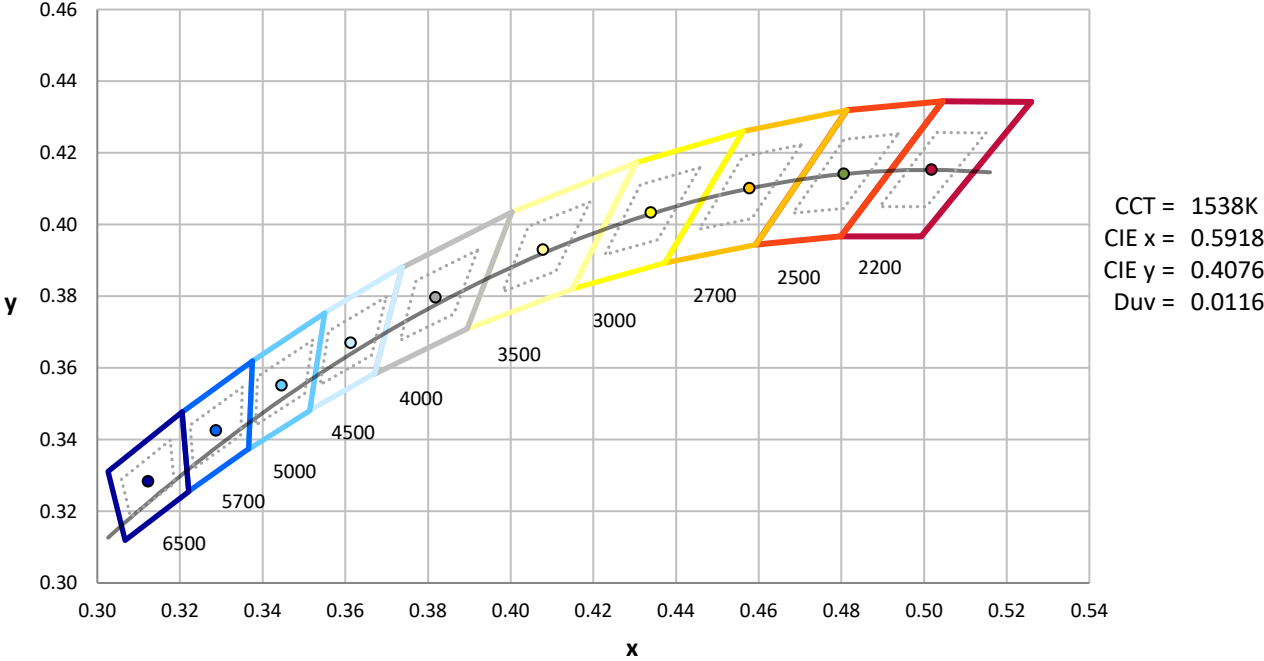
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-1

CIE 1931 Chromaticity Diagram



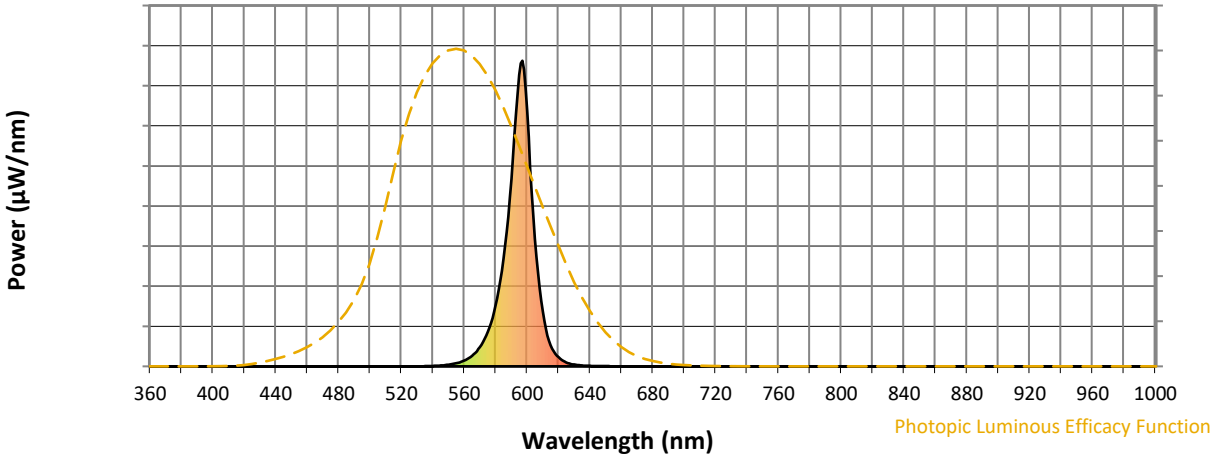
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

REPORT NUMBER: SP1-2407-157-1

Photopic Flux vs. Wavelength

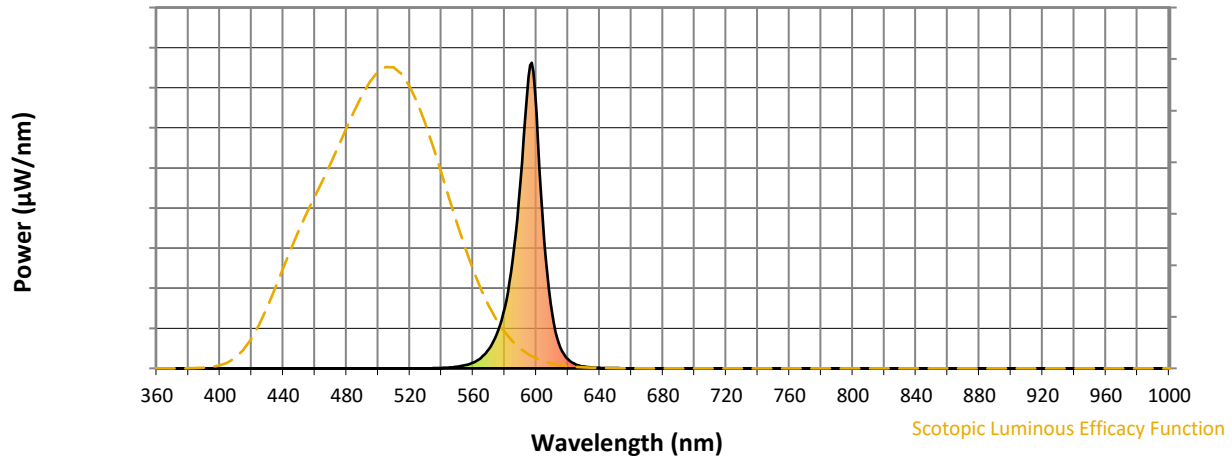


Photopic Lumens: NR

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	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2407-157-1

Scotopic Flux vs. Wavelength



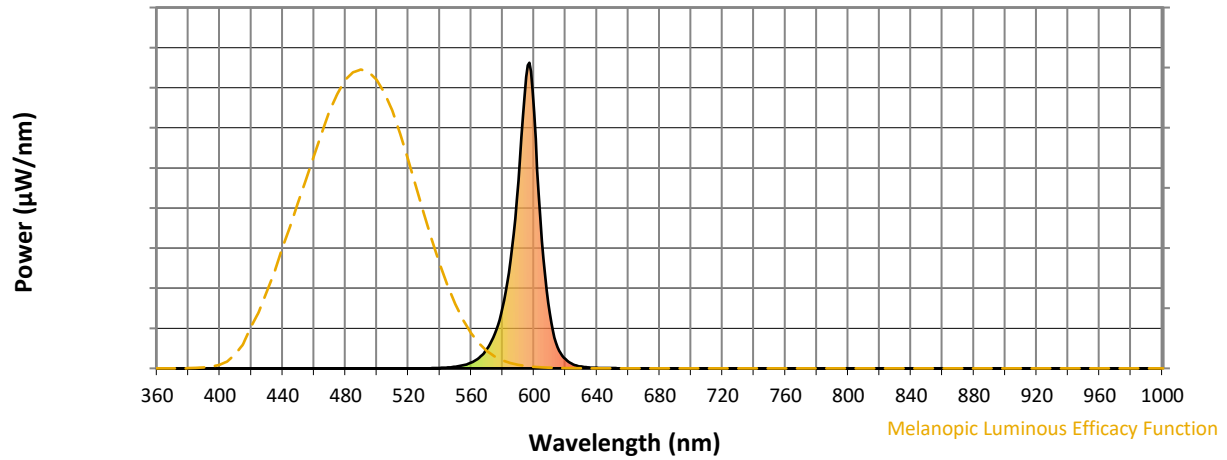
Scotopic Lumens: NR

S/P: 0.22

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	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2407-157-1

Melanopic Flux vs. Wavelength



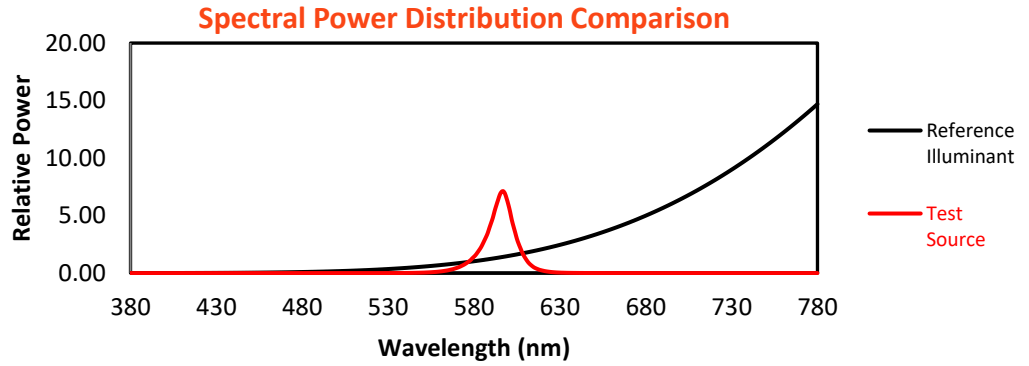
Melanopic Lumens: NR

M/P: 0.12

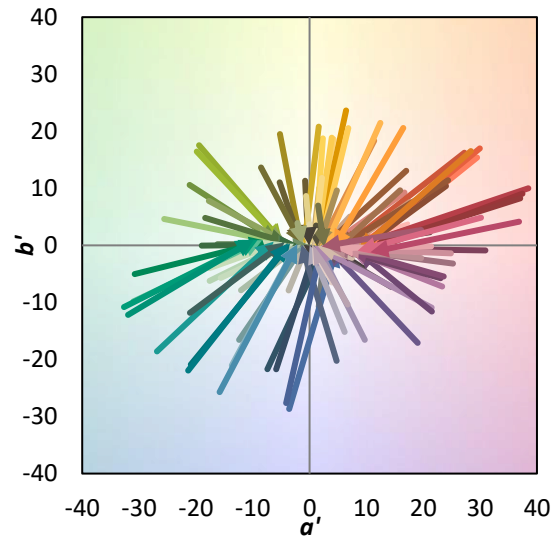
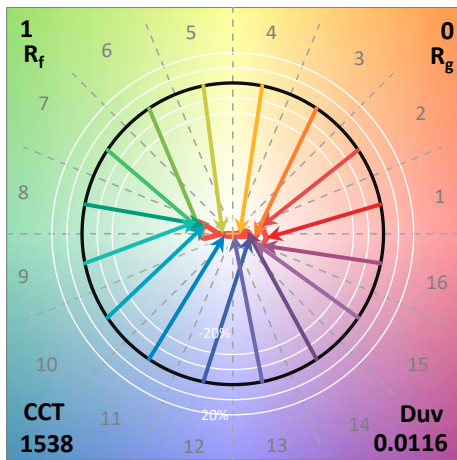
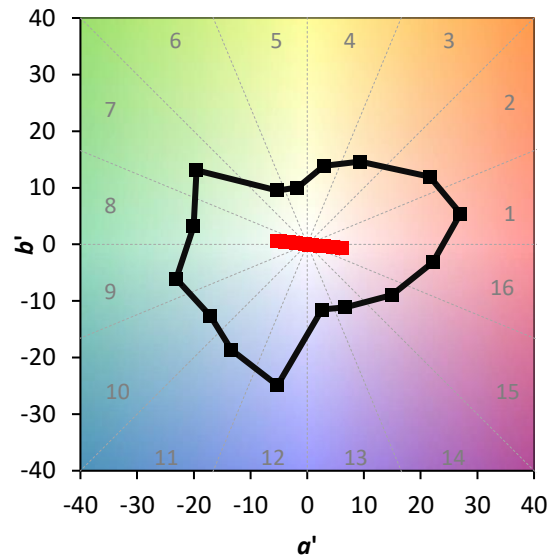
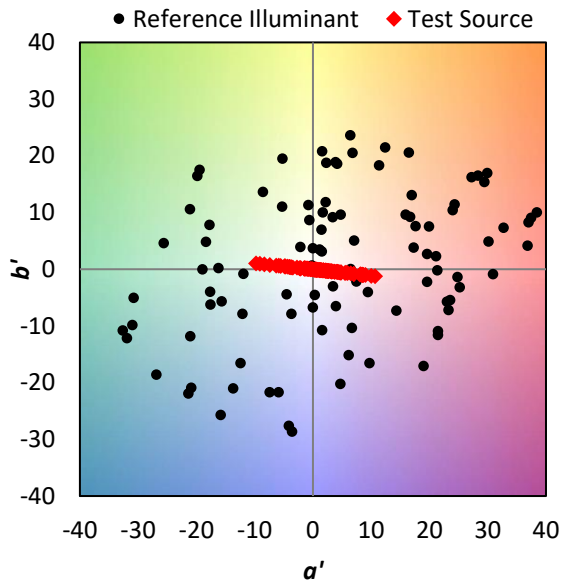
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

Summary

$R_f = 1.1$
 $R_g = 0$
 $CIE R_a = -21.8$
 $R_g = -386.6$

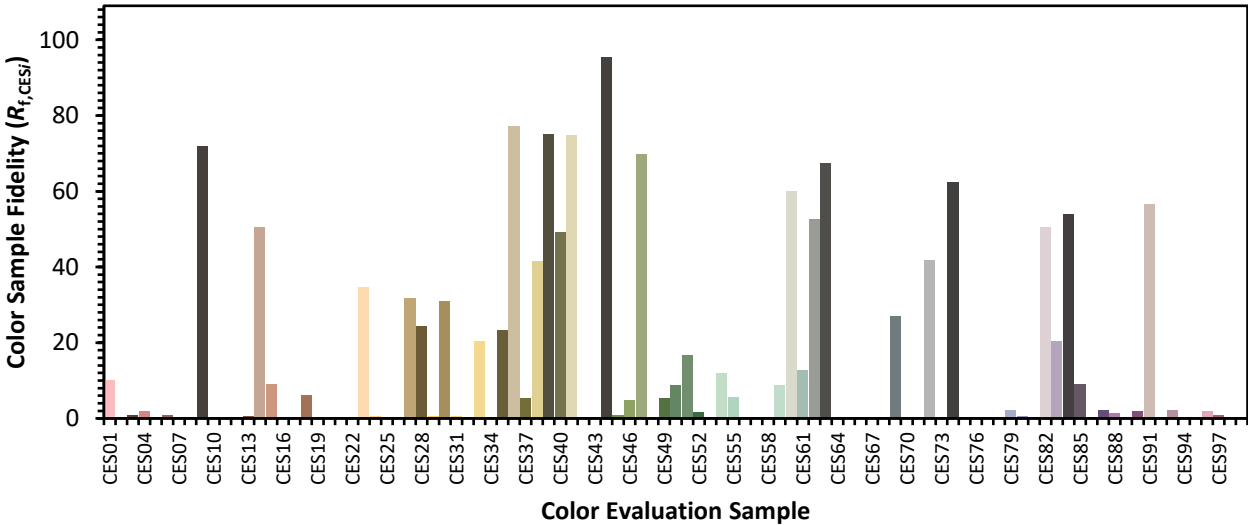


Color Vector Graphics

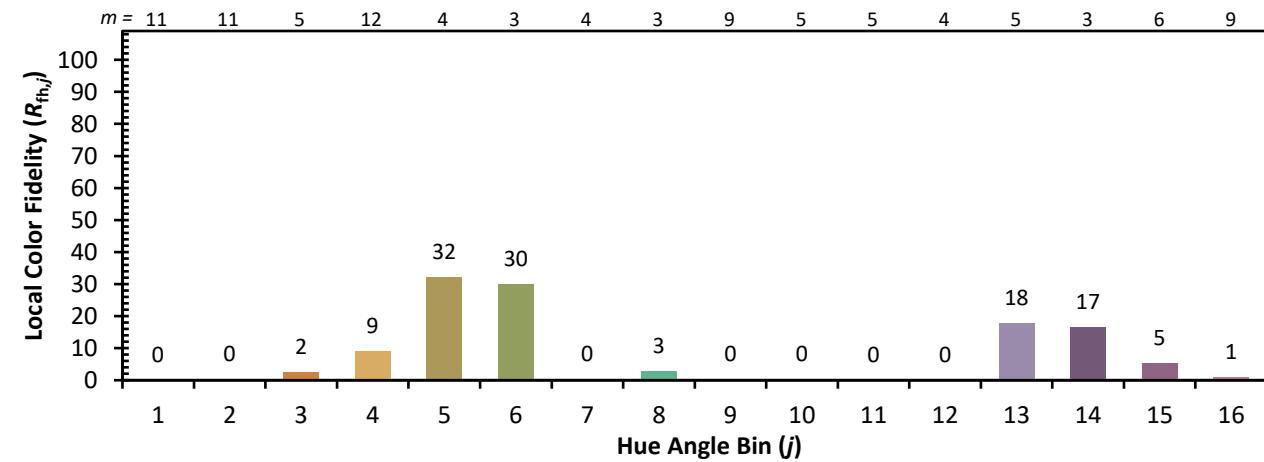
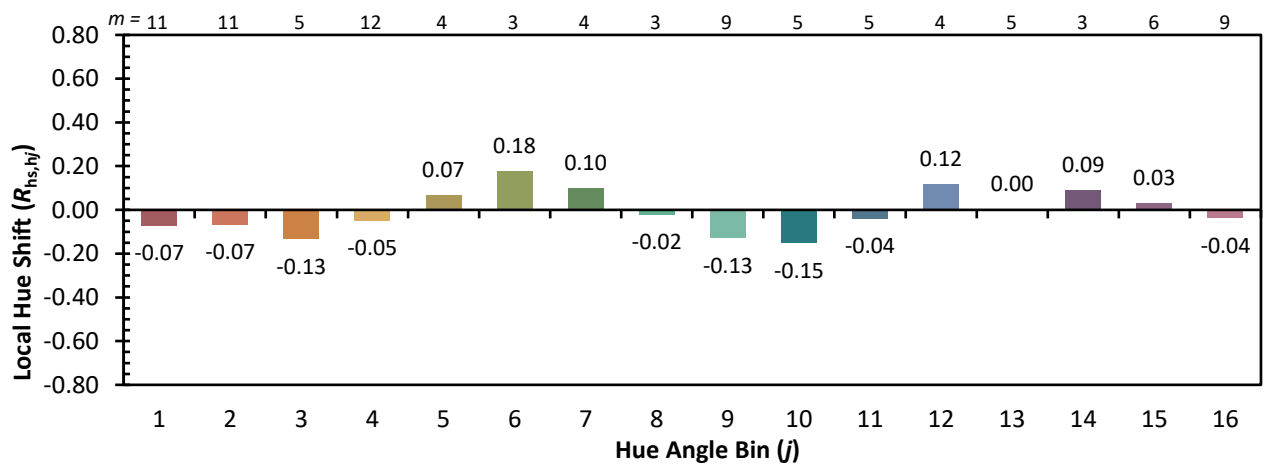
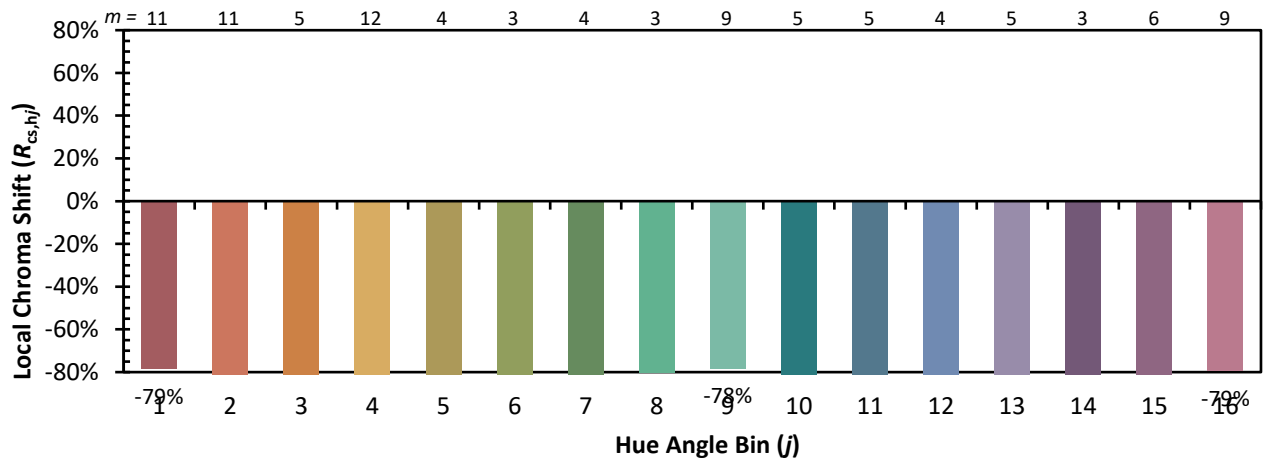


Individual Sample Fidelity Index ($R_{f,i}$)

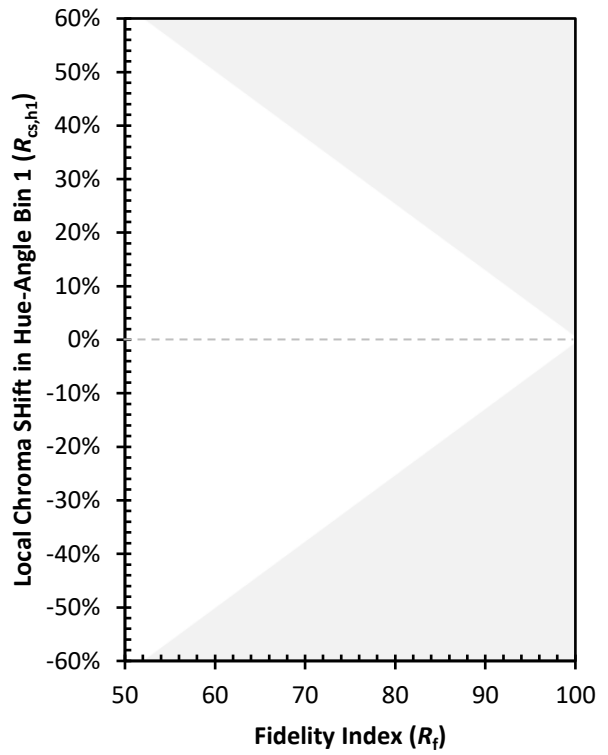
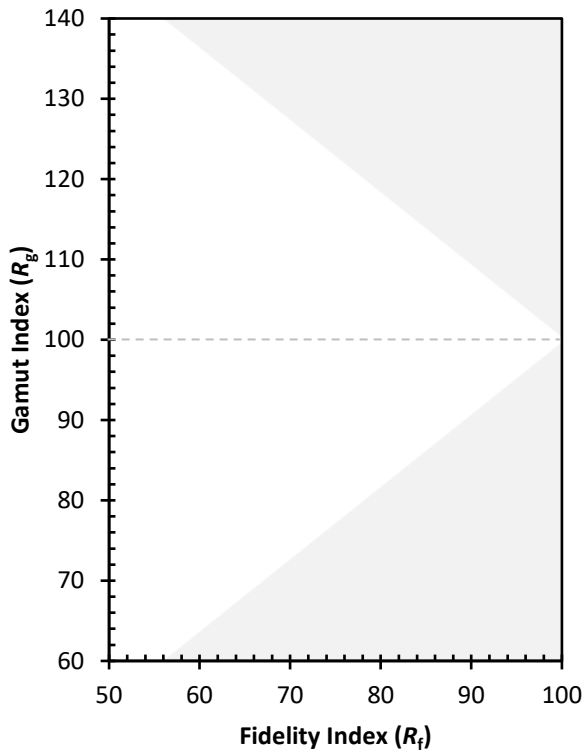
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 24	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 12	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 21	CES58 = 0	CES83 = 21
CES09 = 29	CES34 = 0	CES59 = 9	CES84 = 54
CES10 = 87	CES35 = 23	CES60 = 60	CES85 = 9
CES11 = 70	CES36 = 77	CES61 = 13	CES86 = 0
CES12 = 76	CES37 = 5	CES62 = 53	CES87 = 2
CES13 = 47	CES38 = 41	CES63 = 68	CES88 = 1
CES14 = 77	CES39 = 75	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 49	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 75	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 2
CES19 = 80	CES44 = 95	CES69 = 27	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 5	CES71 = 0	CES96 = 2
CES22 = 87	CES47 = 70	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 5	CES74 = 62	CES99 = 0
CES25 = 79	CES50 = 9	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)