

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: P879921

Luminaire Tested: **MEM2-HSN-VA-40-830-U-WT4**

Issue Date: 10/01/2024



Test Information

Test Method: LM-79-08
Report Number: P879921
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/01/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HSN-VA-40-830-U-WT4
Description: EPIC MODERN SHORT HOUSING 40W 80CRI 3000K VISUAL COMFORT FIXTURE w/
DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

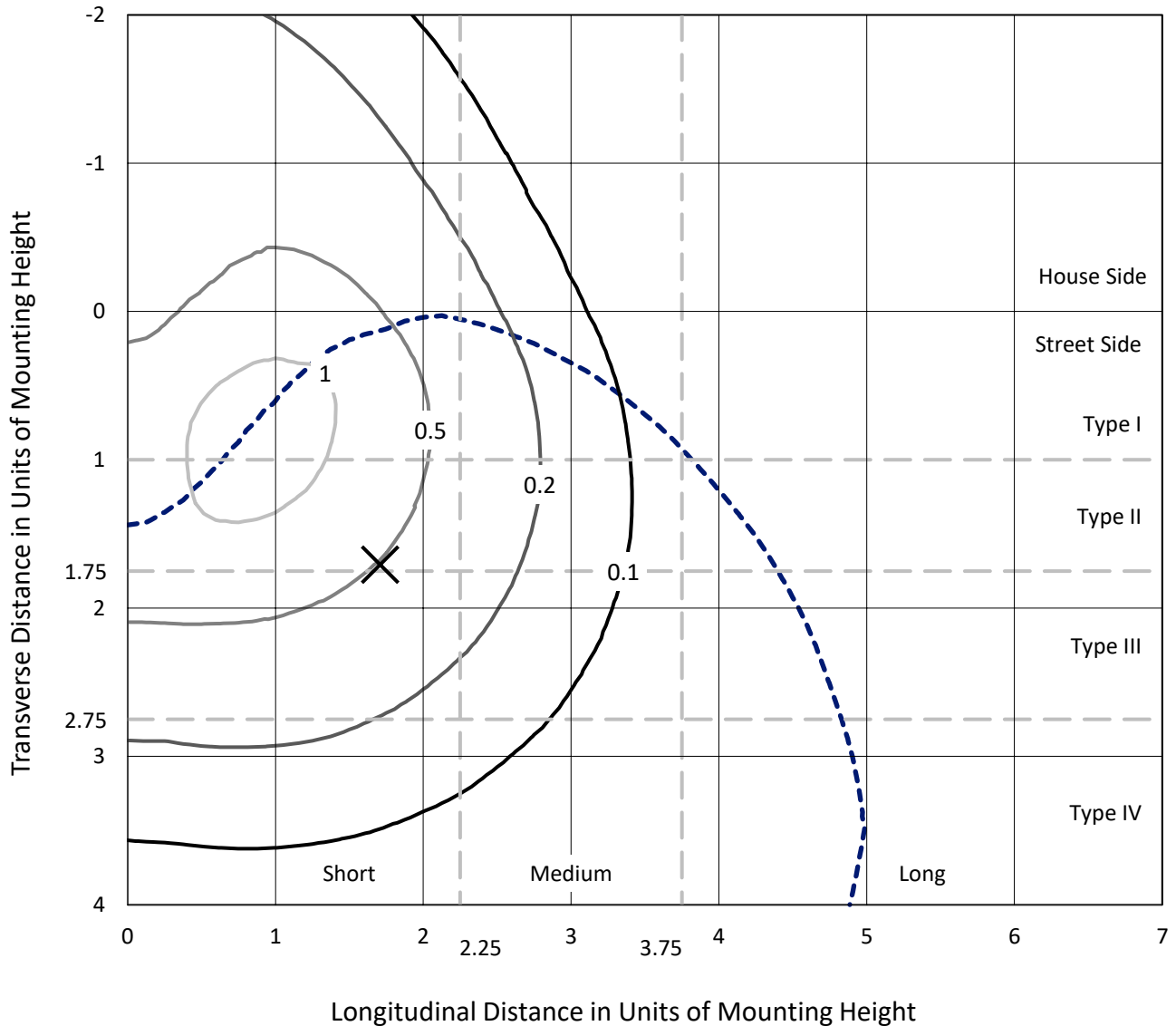
Lumens per Lamp: N/A
Luminaire Lumens: 3790.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

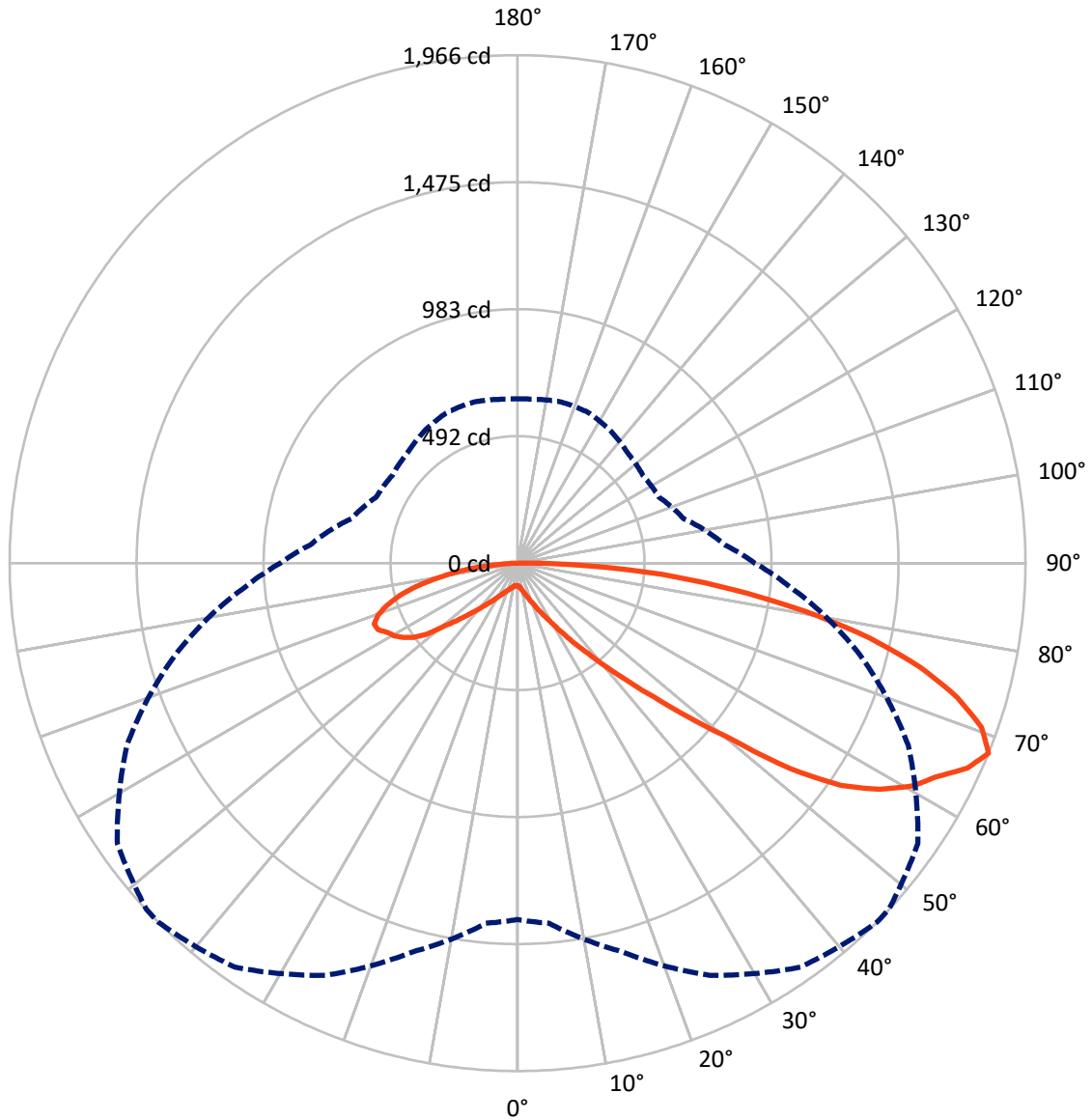
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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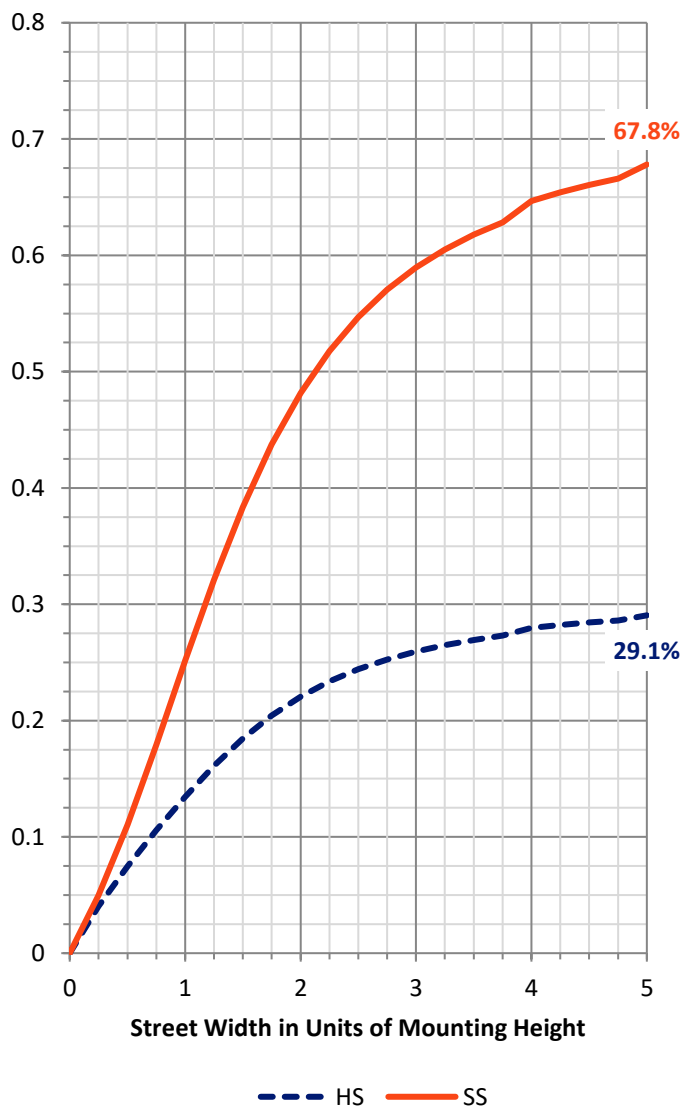
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.4	0.0	1123.4
	% Fixture	29.6	0.0	29.6
Street Side	Lumens	2667.1	0.0	2667.1
	% Fixture	70.4	0.0	70.4
Total	Lumens	3790.5	0.0	3790.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.2
10°-20°	33.7	0.9
20°-30°	79.4	2.1
30°-40°	174.2	4.6
40°-50°	379.3	10.0
50°-60°	779.3	20.6
60°-70°	1097.9	29.0
70°-80°	932.1	24.6
80°-90°	305.5	8.1
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°	3790.5	100.0
0°-180°	3790.5	100.0



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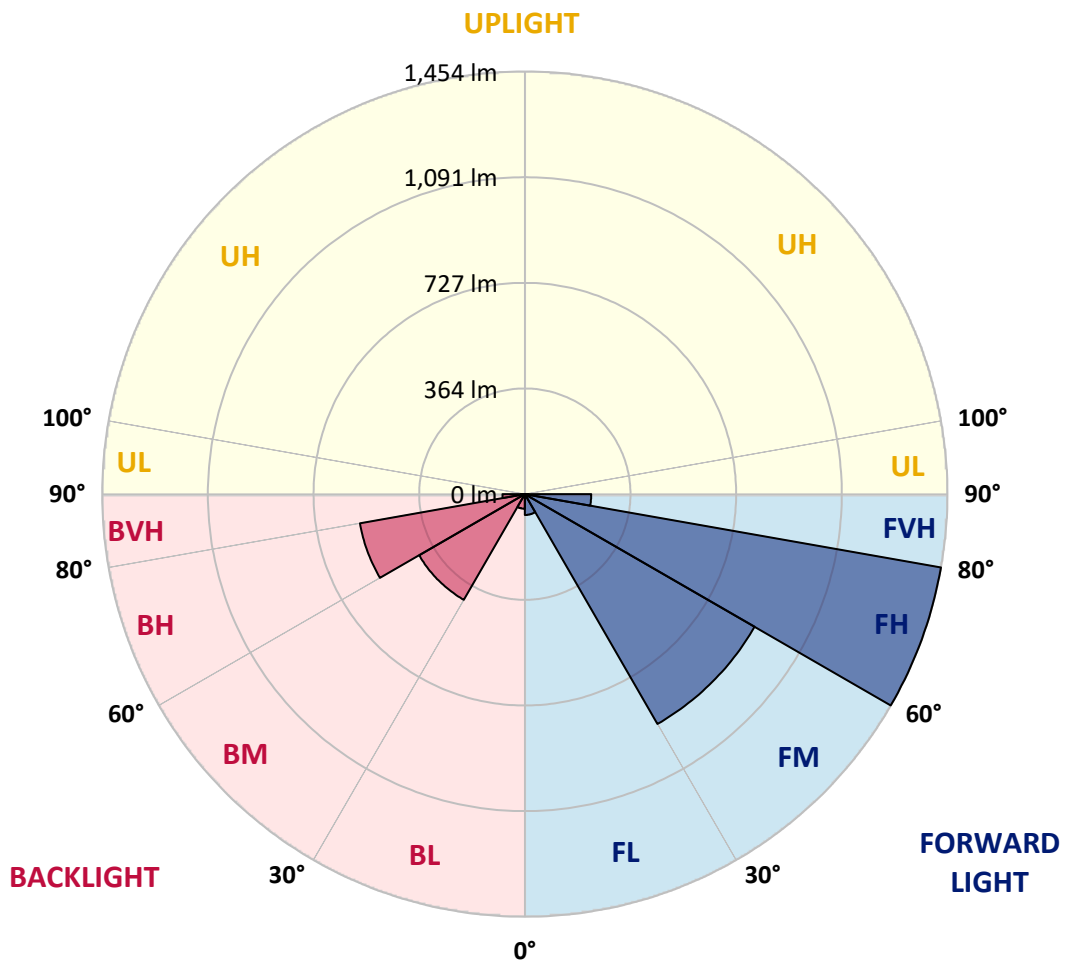
CATALOG NUMBER: MEM2-HSN-VA-40-830-U-WT4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.7	1.9			
FM (30°-60°)	912.9	24.1			
FH (60°-80°)	1454.0	38.4			G1/1800
FVH (80°-90°)	228.4	6.0			G3/500
BL (0°-30°)	50.4	1.3	B0/110		
BM (30°-60°)	419.9	11.1	B1/1000		
BH (60°-80°)	576.0	15.2	B2/1000		G2/1000
BVH (80°-90°)	77.0	2.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P879921

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	90.2	89.8	90.2	90.2	90.2	89.8	89.8	89.8	89.5	89.1	88.7
5°	95.7	95.7	95.7	95.3	95.3	94.5	94.5	94.1	93.3	92.6	91.8
7.5°	103.0	102.6	102.6	102.2	101.9	101.1	100.7	100.3	98.8	97.6	96.0
10°	111.9	111.9	111.5	110.8	110.8	108.8	109.2	108.4	106.5	104.2	101.5
12.5°	122.8	122.8	122.0	122.0	121.2	119.7	119.3	118.1	116.2	112.3	109.2
15°	134.8	134.8	135.5	134.8	134.0	132.1	132.1	130.5	126.3	123.2	118.5
17.5°	149.9	147.9	149.1	148.7	148.7	147.6	146.4	144.5	141.0	135.5	129.7
20°	165.4	165.8	164.6	165.8	166.1	164.6	164.6	162.3	157.2	150.7	141.4
22.5°	184.7	184.7	182.4	185.5	187.4	186.3	185.9	181.2	175.1	166.1	156.8
25°	204.9	204.1	208.0	208.7	213.0	212.6	212.2	208.0	198.7	187.8	173.5
27.5°	227.7	228.9	236.2	238.2	242.4	242.1	241.7	237.0	226.9	212.2	193.6
30°	256.0	257.5	264.5	271.1	278.5	279.2	278.5	274.6	259.9	240.5	219.6
32.5°	288.9	293.2	300.1	311.4	320.7	324.9	325.7	318.7	302.1	276.5	249.0
35°	333.8	330.4	340.0	358.6	374.1	382.6	382.2	373.0	354.8	322.2	283.1
37.5°	378.0	376.8	391.9	416.3	437.2	444.2	446.2	440.0	416.7	373.7	327.6
40°	424.1	433.8	451.2	479.5	510.4	525.2	526.3	517.4	485.7	437.2	376.4
42.5°	484.1	493.8	515.9	550.7	595.6	620.0	621.6	611.5	573.2	510.4	435.3
45°	560.0	565.4	588.7	641.7	699.4	738.6	749.8	737.4	690.1	603.0	508.5
47.5°	641.7	641.7	679.7	749.8	836.9	888.4	896.9	885.7	815.2	710.3	590.2
50°	732.7	733.1	793.5	893.9	1003.8	1068.1	1074.7	1047.6	962.4	819.5	673.5
52.5°	827.2	837.3	925.6	1077.4	1225.0	1323.3	1329.9	1298.6	1185.1	976.0	762.2
55°	957.4	973.2	1101.4	1287.7	1441.1	1518.5	1518.9	1481.4	1345.0	1127.8	868.3
57.5°	1137.8	1144.0	1263.7	1453.9	1598.7	1651.8	1647.9	1592.9	1435.7	1212.6	955.4
60°	1286.9	1301.3	1398.9	1575.5	1716.8	1753.2	1749.0	1676.2	1497.6	1262.2	997.3
62.5°	1384.9	1391.9	1493.0	1662.6	1789.6	1820.2	1815.6	1747.8	1573.5	1348.5	1067.0
65°	1408.6	1420.2	1548.4	1720.7	1843.9	1912.8	1909.7	1873.3	1694.4	1412.4	1099.9
67.5°	1379.9	1399.3	1556.5	1760.6	1908.9	1966.2	1964.7	1891.5	1668.4	1371.4	1058.4
70°	1321.4	1338.1	1533.3	1756.3	1889.9	1905.4	1893.4	1809.8	1592.1	1303.2	996.5
72.5°	1229.2	1257.5	1448.1	1659.1	1770.7	1780.7	1776.5	1674.2	1477.5	1185.9	902.8
75°	1108.4	1142.9	1315.6	1486.4	1592.5	1609.9	1601.8	1512.3	1313.3	1039.1	786.6
77.5°	955.4	974.8	1106.5	1268.7	1390.7	1393.8	1389.2	1289.3	1106.1	870.2	661.9
80°	752.9	764.5	878.7	1013.9	1115.0	1127.4	1123.1	1055.7	878.4	688.6	516.2
82.5°	557.7	549.9	626.6	737.4	837.7	838.5	845.4	770.7	657.6	499.6	369.5
85°	321.1	324.2	390.8	466.3	527.1	562.3	561.9	525.9	422.9	318.0	225.4
87.5°	89.5	96.4	138.6	201.8	229.3	249.4	242.1	218.4	176.6	99.9	57.3
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: P879921

CATALOG NUMBER: MEM2-HSN-VA-40-830-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	88.7	88.3	87.9	87.5	86.8	86.8	86.4	86.8	86.8	86.8	86.8
5°	91.0	90.6	89.5	88.7	87.5	86.8	86.4	86.4	86.4	86.4	86.4
7.5°	94.9	94.5	92.6	91.0	89.5	88.7	87.9	87.5	87.1	86.8	87.1
10°	100.7	99.1	97.2	94.9	92.6	91.4	90.2	89.8	89.5	89.1	89.1
12.5°	107.3	106.1	102.6	99.5	97.2	95.3	93.7	92.9	92.6	92.2	92.2
15°	116.2	113.9	109.2	105.3	101.9	99.5	98.0	97.2	96.8	96.4	96.4
17.5°	126.3	123.2	117.0	111.9	108.1	105.0	103.0	101.9	101.1	101.5	101.9
20°	137.9	132.8	125.9	119.7	114.6	111.2	109.2	107.7	106.9	107.3	107.7
22.5°	151.4	146.0	135.9	128.6	122.4	118.1	116.2	115.0	114.2	113.9	113.1
25°	166.9	159.9	148.3	138.3	130.9	126.6	124.3	123.5	122.8	122.0	122.0
27.5°	185.5	177.4	161.5	150.7	141.7	137.5	134.8	133.6	133.6	132.5	132.5
30°	207.2	196.4	177.0	162.7	153.8	148.3	145.2	144.8	144.1	145.2	145.2
32.5°	233.1	218.4	194.8	178.2	168.1	163.0	159.9	159.2	158.0	158.8	161.1
35°	265.7	246.7	218.4	198.7	186.3	181.2	177.4	177.0	175.1	177.0	173.9
37.5°	302.1	281.2	243.6	220.4	206.8	201.0	198.3	197.1	196.7	196.7	194.4
40°	346.6	321.4	275.7	247.1	231.6	224.6	221.9	221.5	220.8	223.5	220.8
42.5°	401.6	363.3	309.1	276.5	260.6	253.3	250.2	249.0	251.0	252.1	251.7
45°	462.8	421.4	351.7	314.1	295.9	288.5	284.3	283.1	283.9	283.9	287.8
47.5°	533.3	484.5	400.5	355.1	338.5	329.6	326.9	323.0	321.1	320.3	326.9
50°	606.9	546.1	450.4	399.7	384.6	377.6	378.4	370.6	367.9	364.8	364.0
52.5°	680.8	611.9	507.3	461.6	444.2	447.7	446.2	438.0	422.1	418.3	409.0
55°	769.5	686.3	561.9	507.3	492.2	494.9	501.1	501.1	497.7	489.1	481.8
57.5°	844.7	747.8	603.0	534.8	521.7	528.6	541.0	550.3	558.5	564.7	564.3
60°	886.5	785.8	629.7	555.8	540.3	553.8	572.4	588.3	605.7	623.9	623.1
62.5°	944.2	838.9	677.4	592.9	566.2	570.5	591.8	619.3	635.1	650.2	654.5
65°	959.3	848.5	695.2	619.3	597.6	598.4	612.7	635.1	648.7	652.6	654.9
67.5°	918.6	805.9	665.7	603.8	592.2	603.0	626.2	644.1	646.0	636.7	635.9
70°	857.4	753.7	619.3	567.4	560.0	576.7	607.3	628.6	623.9	604.9	603.8
72.5°	771.1	674.6	556.9	519.3	512.0	532.9	560.0	582.5	575.5	561.2	560.0
75°	667.3	577.1	481.4	453.5	453.1	476.0	499.6	513.2	512.8	502.7	499.6
77.5°	554.6	481.4	396.6	371.4	380.7	402.4	419.8	429.9	426.4	422.9	421.8
80°	434.1	369.1	306.0	290.9	305.2	312.5	331.1	330.4	332.3	324.9	330.4
82.5°	309.1	266.1	219.2	212.6	214.6	229.3	239.3	238.2	233.1	227.7	225.4
85°	187.4	163.8	140.6	131.3	137.9	136.7	142.9	137.9	134.8	132.1	134.4
87.5°	51.9	44.9	43.0	31.0	38.3	30.2	31.8	22.1	19.4	23.2	20.1
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: SP1-2407-176-7

Test Date: 09/27/2024

Luminaire Tested: MEM2-HTN-VA-30-830-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-830-U-WQ

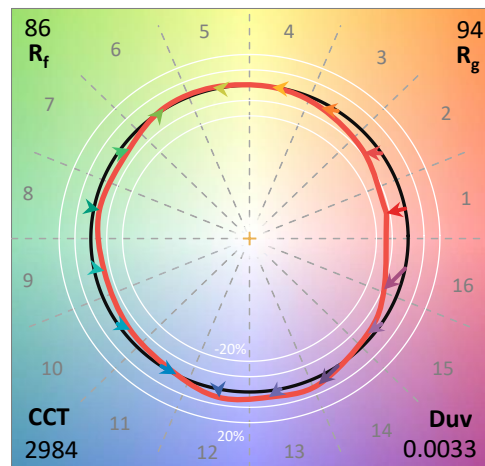
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/27/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-VA-30-830-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 2984
 CIE u': 0.2500
 CIE v': 0.5264
 Duv: 0.0033
 CIE x: 0.4431
 CIE y: 0.4147
 CIE z: 0.1422
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 581
 Purity: 57.4798
 Rf: 85.8
 Rg: 94.1

CRI (Ra):	81.8		
R1:	79.4	R9:	-1.1
R2:	89.9	R10:	78.4
R3:	96.6	R11:	80.8
R4:	80.6	R12:	72.8
R5:	80.1	R13:	81.7
R6:	88.9	R14:	98.5
R7:	82.6	R15:	70.2
R8:	56.0		



Test Conditions

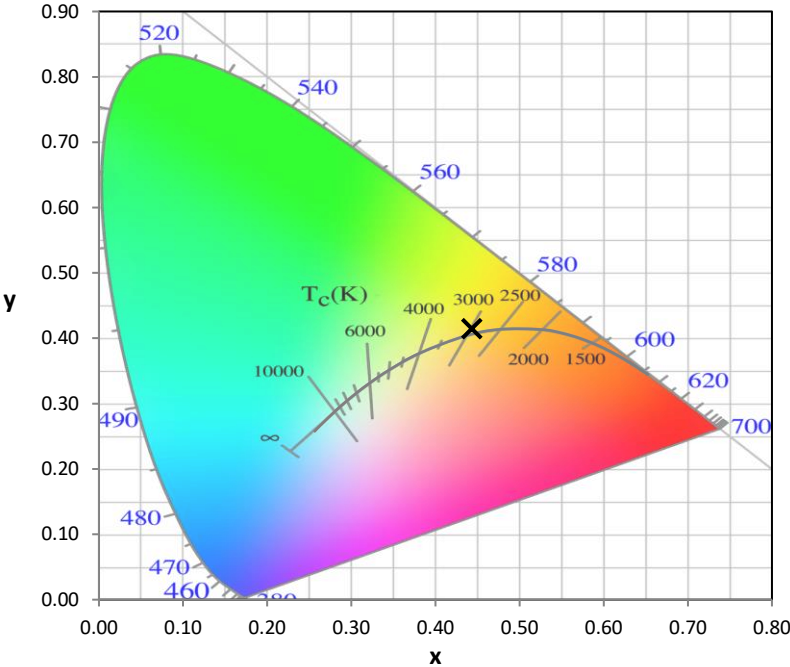
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-7

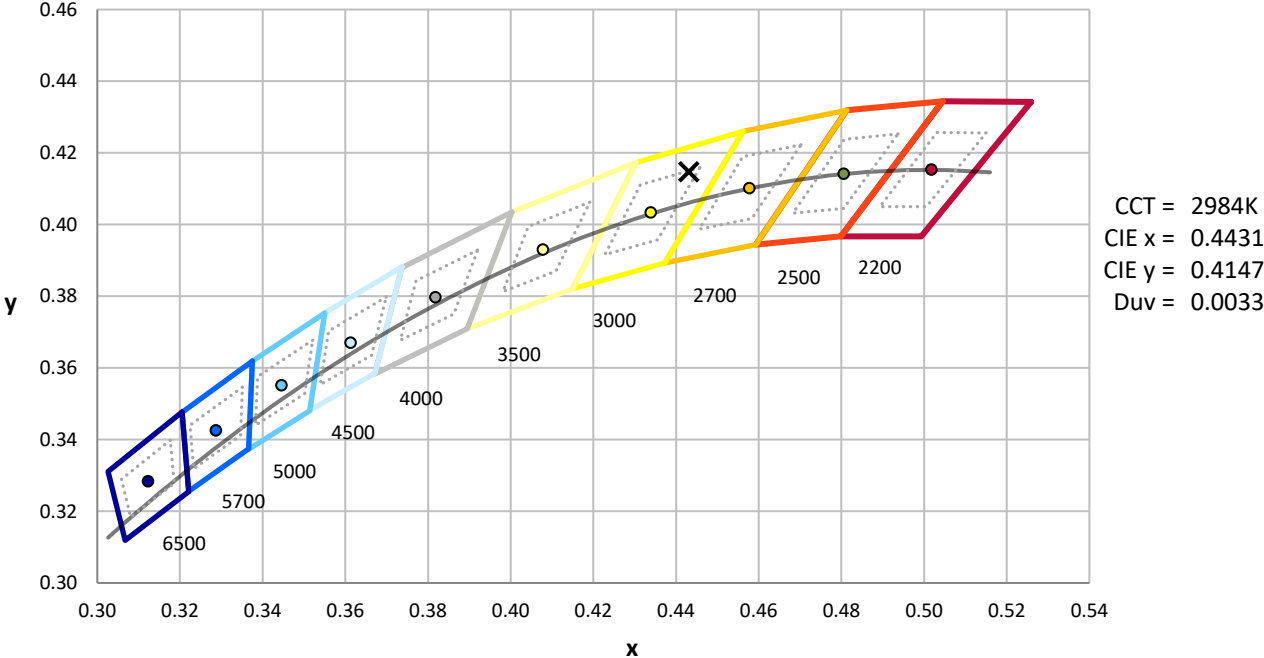
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

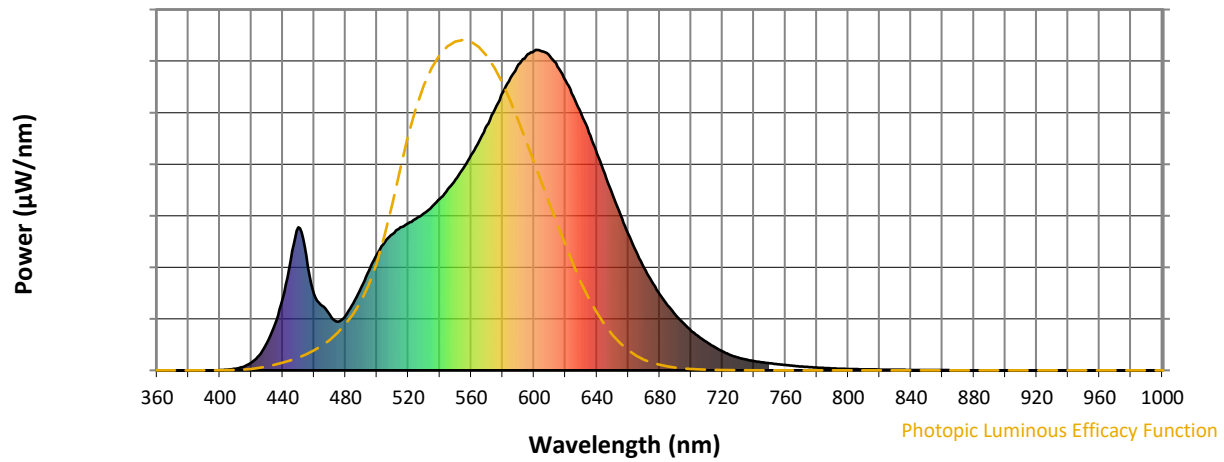


CCT = 2984K
 CIE x = 0.4431
 CIE y = 0.4147
 Duv = 0.0033

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

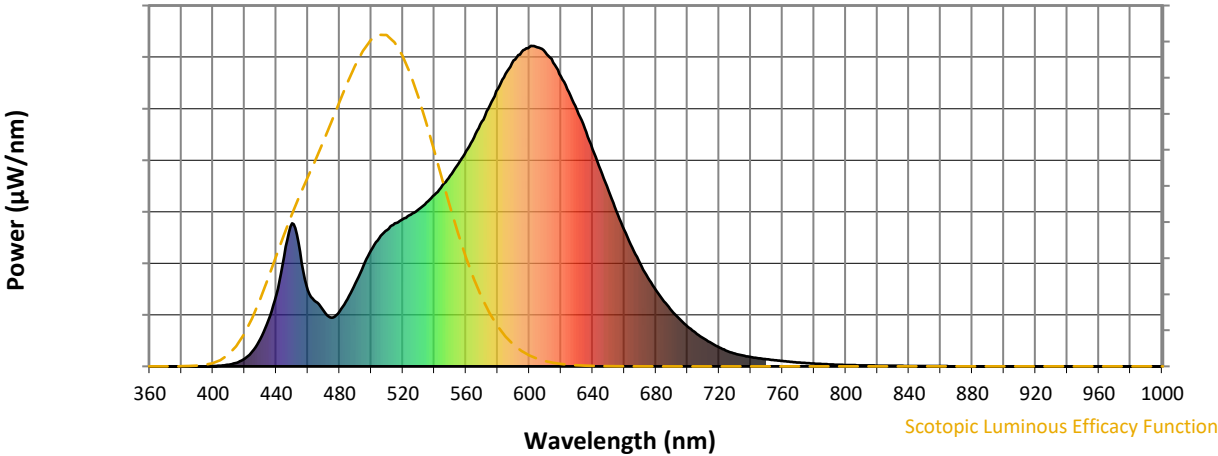


Photopic Lumens: NR

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

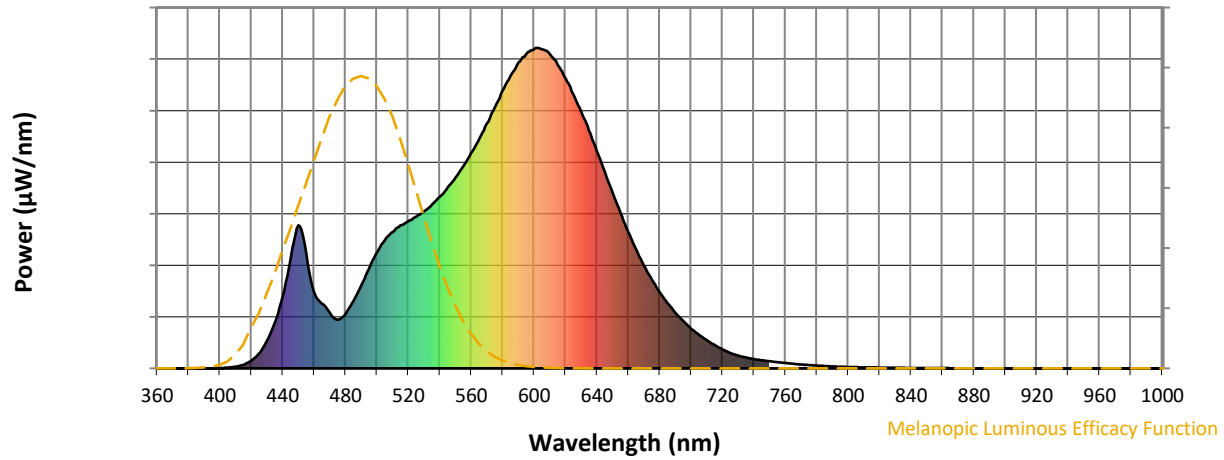


Scotopic Lumens: NR S/P: 1.32

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



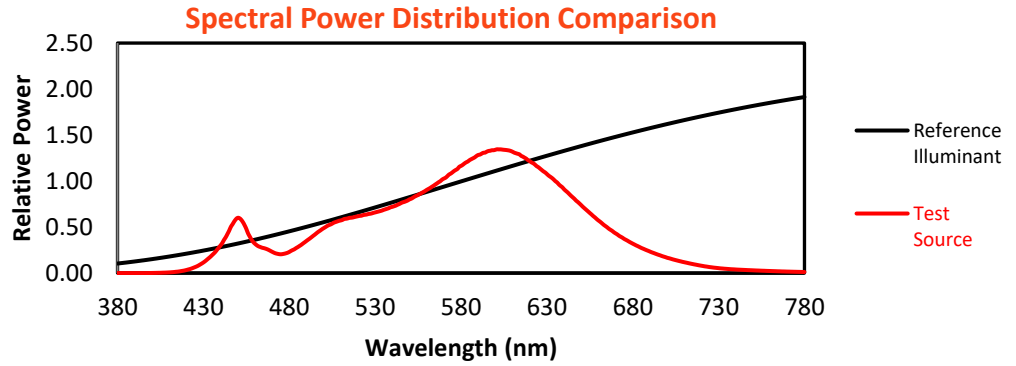
Melanopic Lumens: NR

M/P: 2.51

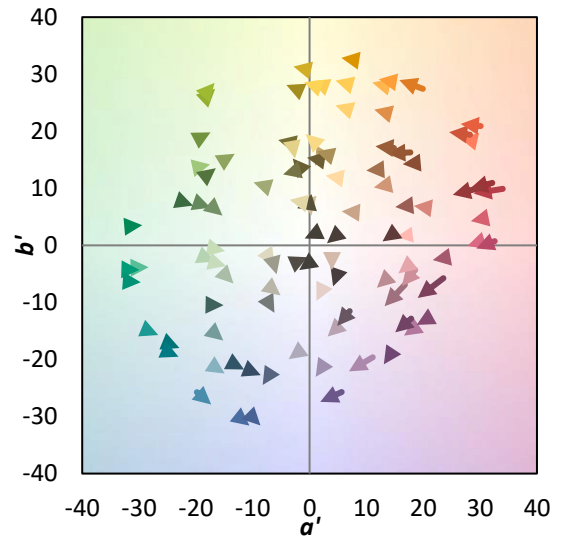
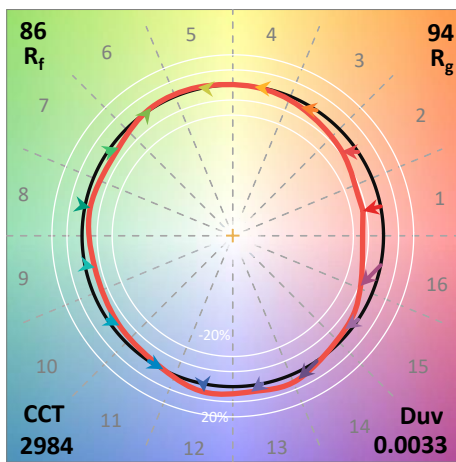
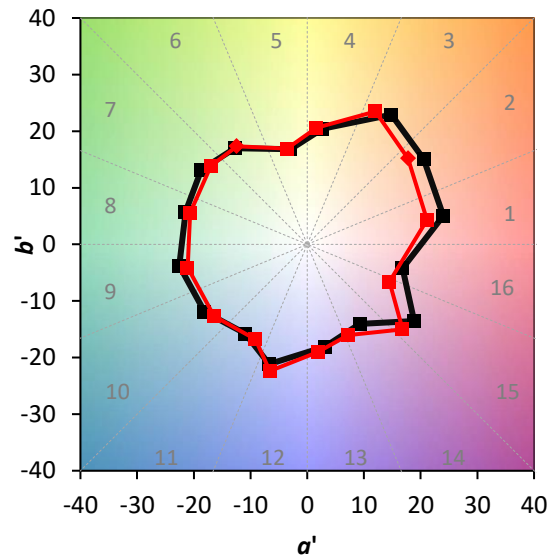
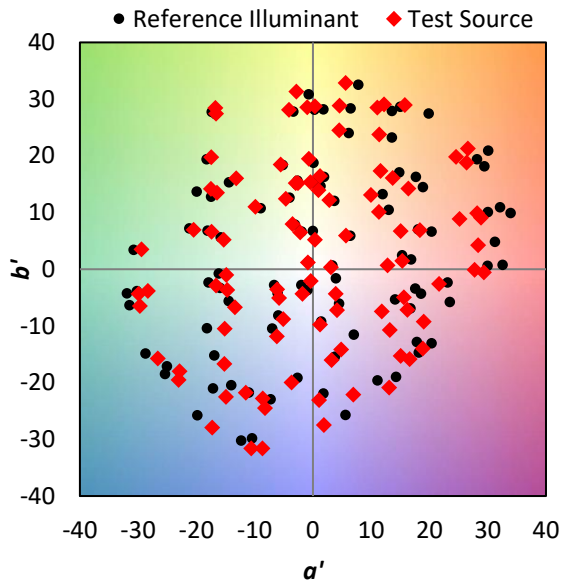
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

Summary

$R_f = 85.8$
 $R_g = 94.1$
 $CIE R_a = 81.8$
 $R_9 = -1.1$

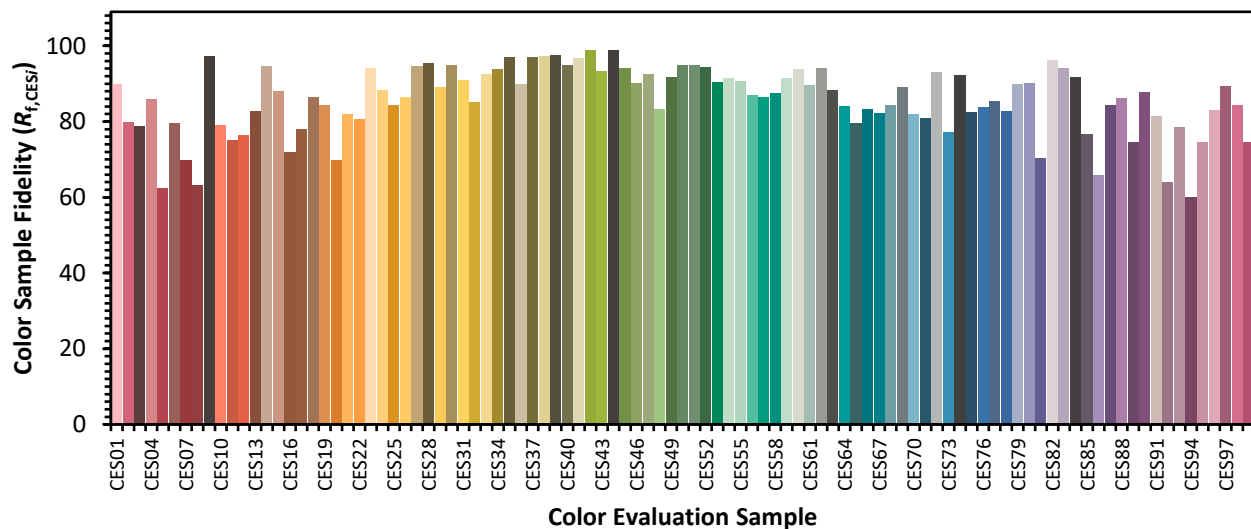


Color Vector Graphics

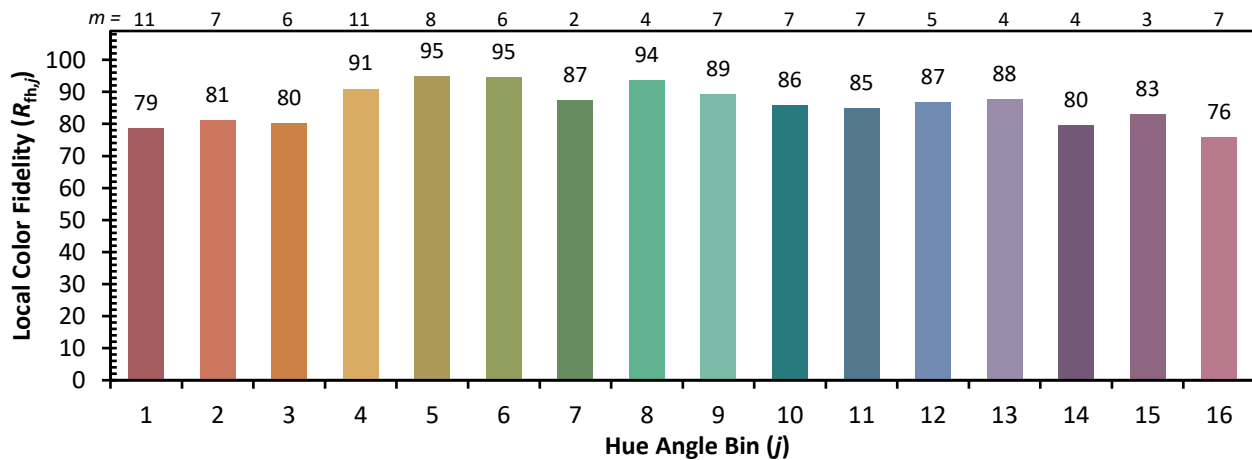
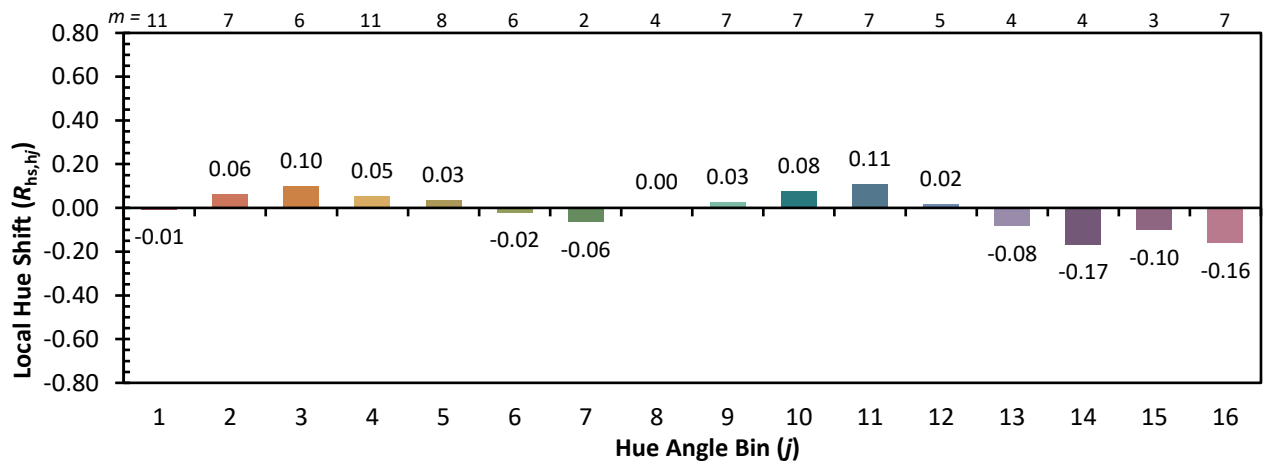
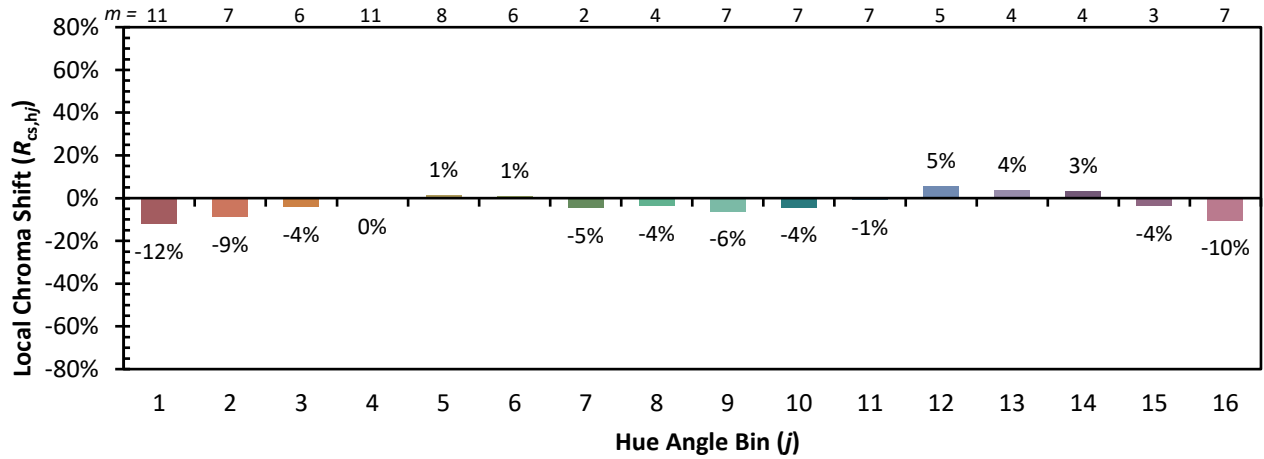


Individual Sample Fidelity Index ($R_{f,i}$)

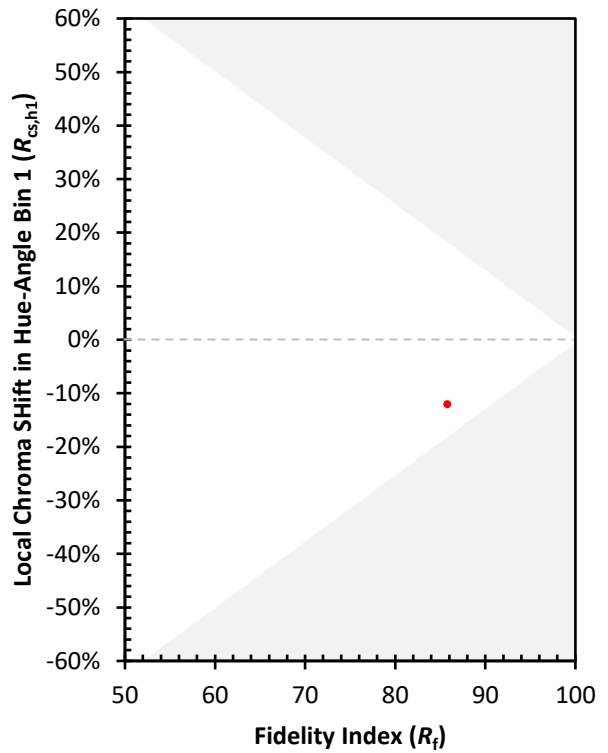
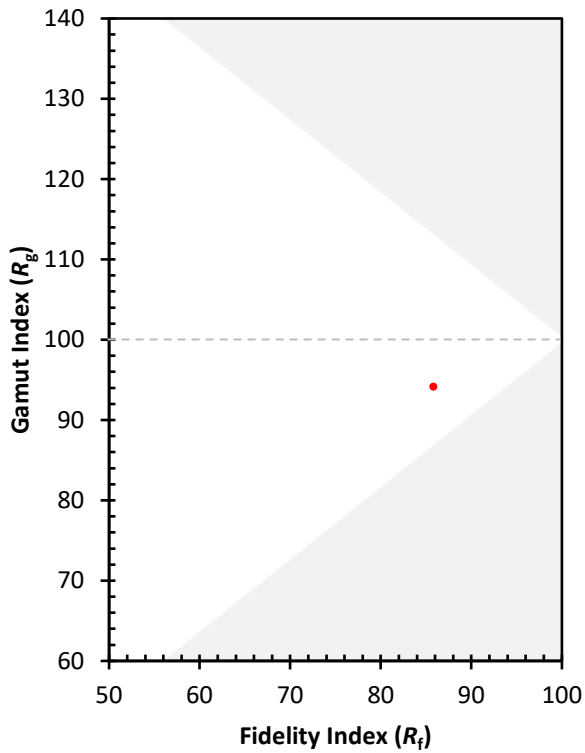
CES01 = 86	CES26 = 86	CES51 = 95	CES76 = 84
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 70	CES29 = 89	CES54 = 91	CES79 = 90
CES05 = 50	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 91	CES56 = 87	CES81 = 70
CES07 = 42	CES32 = 85	CES57 = 86	CES82 = 96
CES08 = 41	CES33 = 93	CES58 = 87	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 97	CES60 = 94	CES85 = 77
CES11 = 59	CES36 = 90	CES61 = 90	CES86 = 66
CES12 = 65	CES37 = 97	CES62 = 94	CES87 = 84
CES13 = 43	CES38 = 97	CES63 = 88	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 84	CES89 = 75
CES15 = 72	CES40 = 95	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 83	CES91 = 81
CES17 = 50	CES42 = 99	CES67 = 82	CES92 = 64
CES18 = 56	CES43 = 93	CES68 = 84	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 60
CES20 = 67	CES45 = 94	CES70 = 82	CES95 = 74
CES21 = 87	CES46 = 90	CES71 = 81	CES96 = 83
CES22 = 79	CES47 = 93	CES72 = 93	CES97 = 89
CES23 = 92	CES48 = 83	CES73 = 77	CES98 = 84
CES24 = 91	CES49 = 92	CES74 = 92	CES99 = 75
CES25 = 72	CES50 = 95	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)