

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: P868273

Luminaire Tested: **MEM2-HSN-SA-46-AMB-U-T2R**

Issue Date: 08/22/2024



Test Information

Test Method: LM-79-08
Report Number: P868273
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/22/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HSN-SA-46-AMB-U-T2R
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 46W OCRI 1540K
FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source: (30) 1540K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

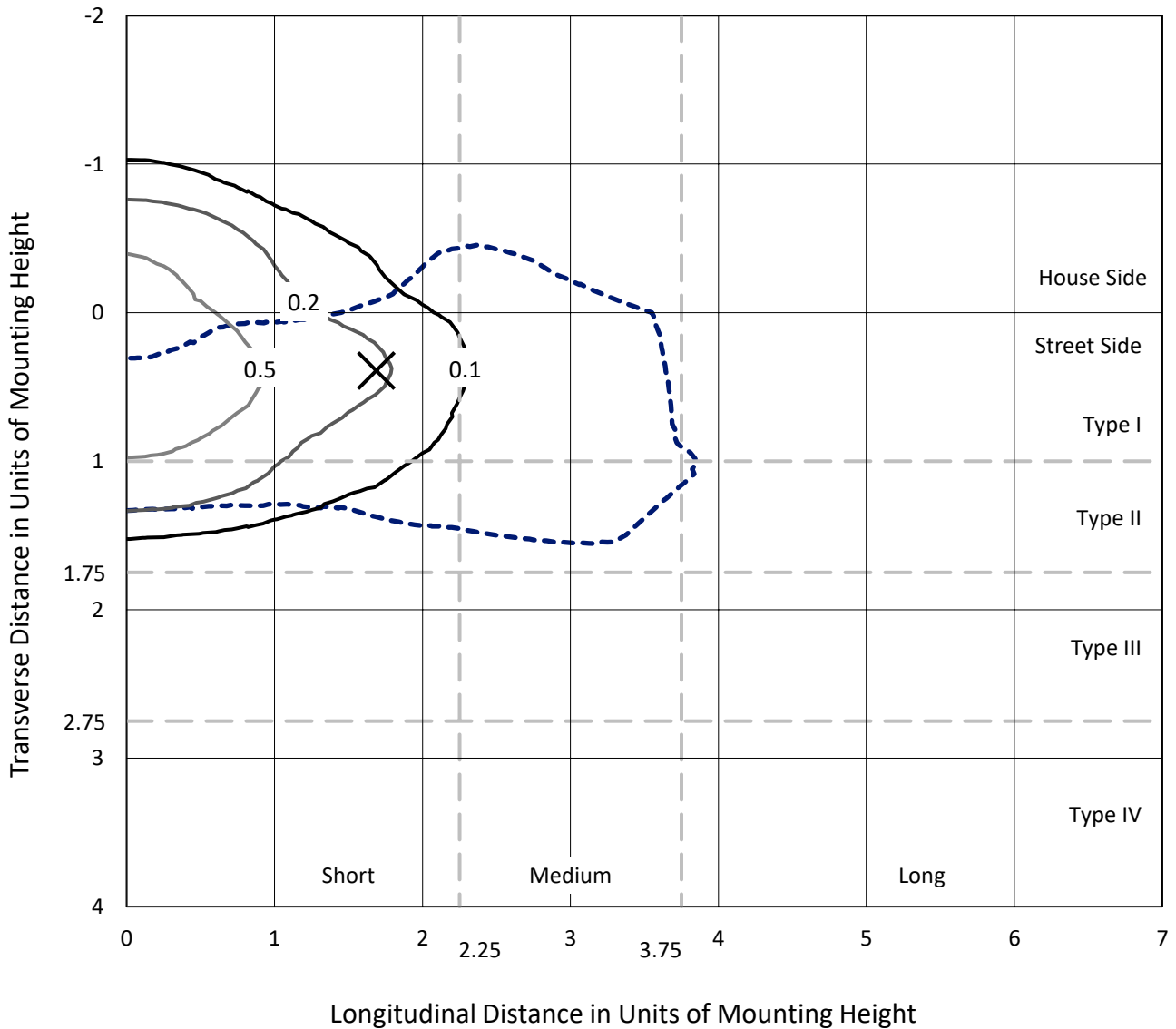
Lumens per Lamp: N/A
Luminaire Lumens: 1423.8 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

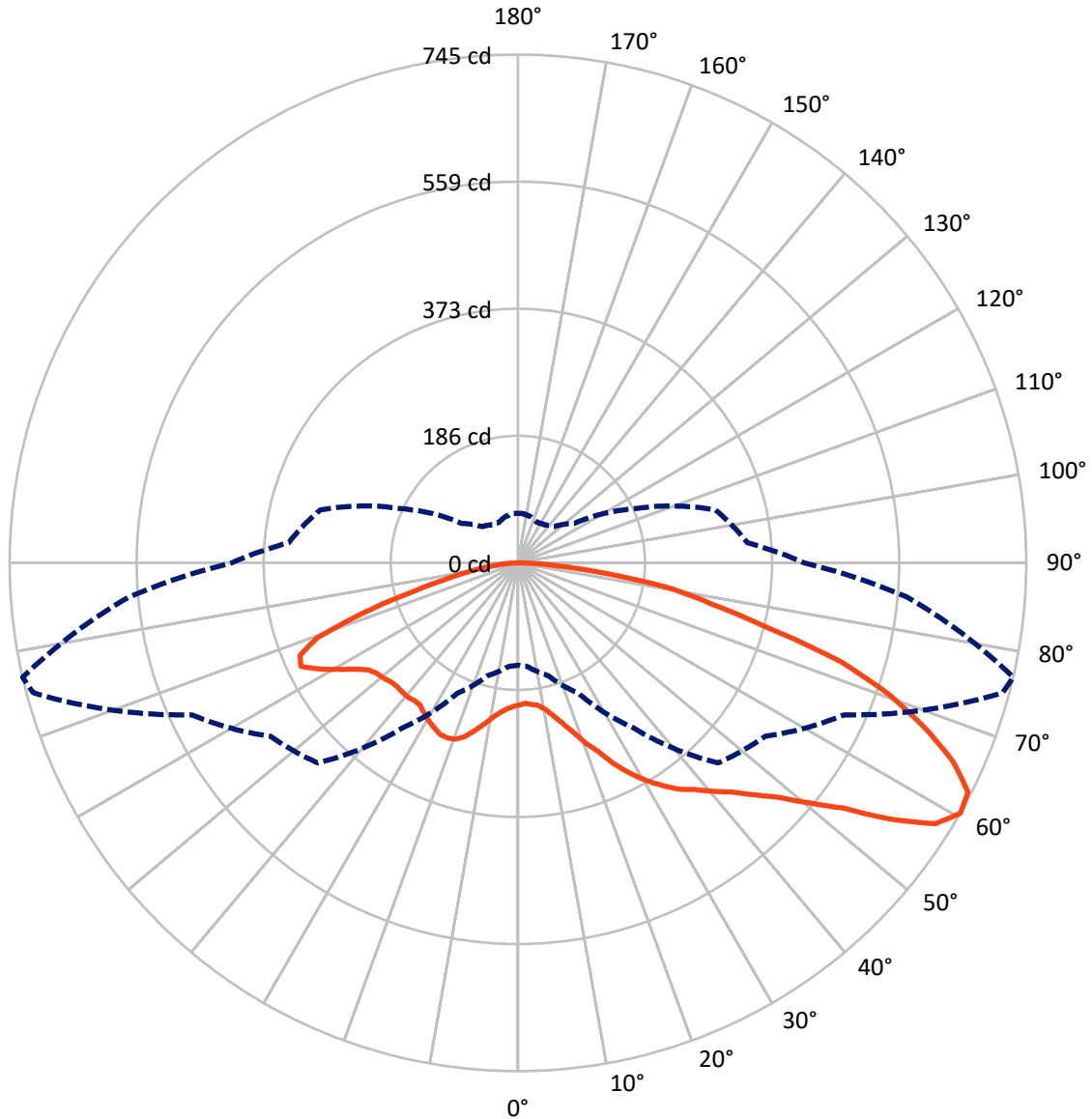
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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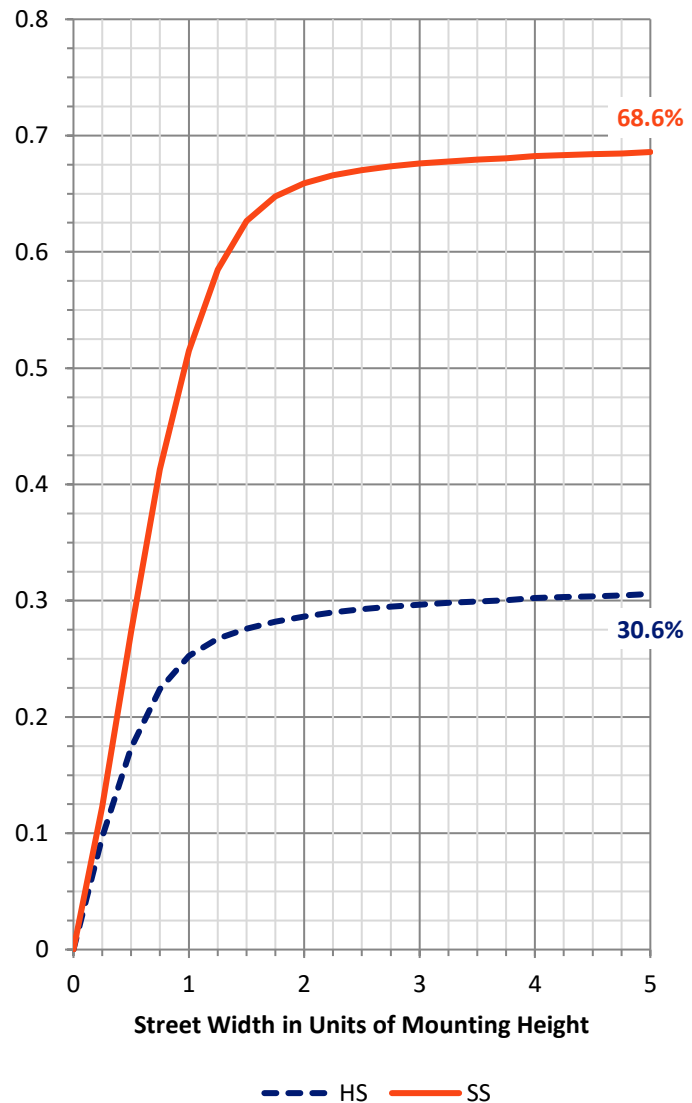
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	442.8	0.0	442.8
	% Fixture	31.1	0.0	31.1
Street Side	Lumens	981.0	0.0	981.0
	% Fixture	68.9	0.0	68.9
Total	Lumens	1423.8	0.0	1423.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	1.5
10°-20°	78.9	5.5
20°-30°	150.0	10.5
30°-40°	225.7	15.9
40°-50°	275.3	19.3
50°-60°	268.3	18.8
60°-70°	236.1	16.6
70°-80°	135.5	9.5
80°-90°	32.7	2.3
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°	1423.8	100.0
0°-180°	1423.8	100.0



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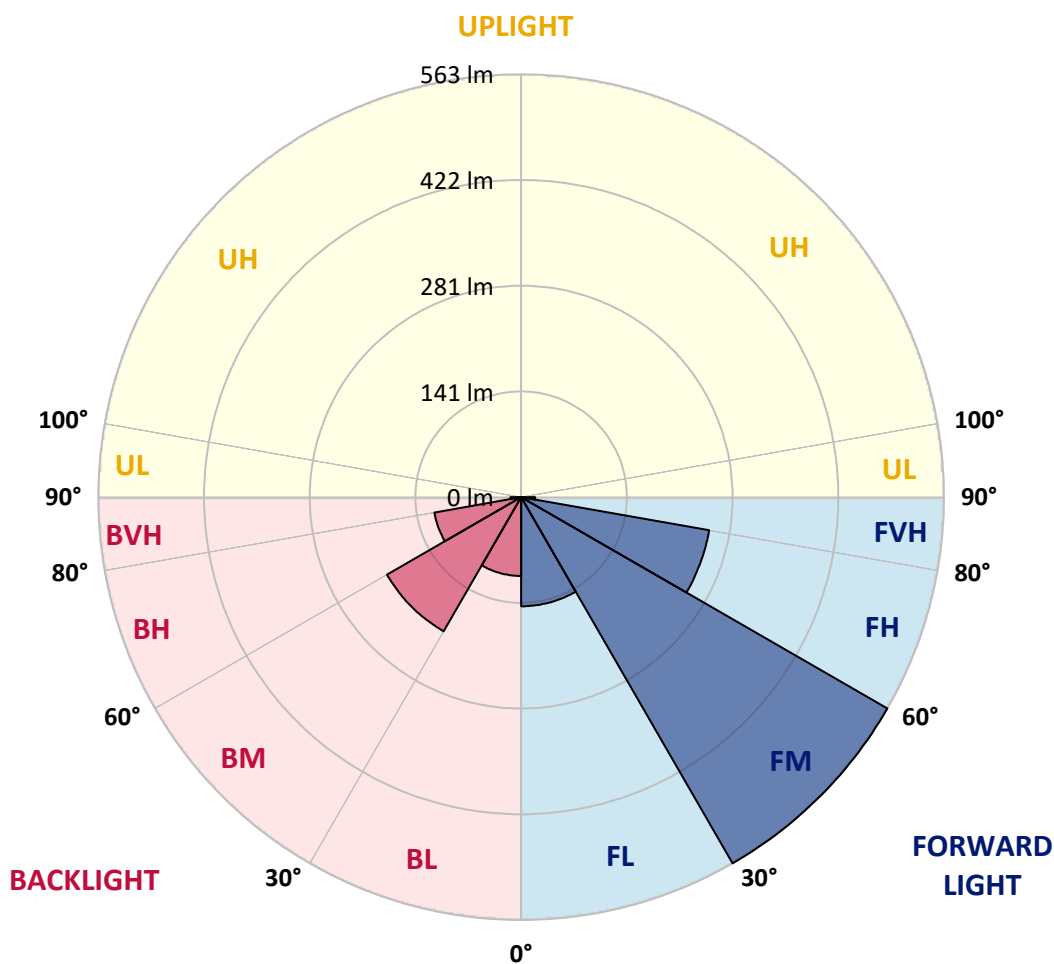
CATALOG NUMBER: MEM2-HSN-SA-46-AMB-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.3	10.2			
FM (30°-60°)	563.0	39.5			
FH (60°-80°)	254.2	17.9			G0/660
FVH (80°-90°)	18.5	1.3			G1/100
BL (0°-30°)	104.9	7.4	B0/110		
BM (30°-60°)	206.3	14.5	B0/220		
BH (60°-80°)	117.4	8.2	B1/500		G1/500
BVH (80°-90°)	14.2	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
2.5°	203.9	203.9	203.9	203.9	203.9	206.2	206.2	206.2	206.2	206.2	208.6
5°	210.9	210.9	208.6	208.6	208.6	208.6	206.2	206.2	208.6	208.6	210.9
7.5°	227.3	227.3	227.3	222.6	220.3	215.6	213.2	210.9	210.9	210.9	213.2
10°	260.1	260.1	257.8	248.4	241.4	232.0	225.0	220.3	217.9	217.9	220.3
12.5°	307.0	304.6	299.9	288.2	271.8	260.1	243.7	234.3	229.6	229.6	229.6
15°	351.5	349.1	344.5	330.4	314.0	290.6	269.5	253.1	246.0	243.7	243.7
17.5°	379.6	379.6	377.3	367.9	353.8	328.1	299.9	274.2	260.1	260.1	260.1
20°	403.0	400.7	398.4	391.3	382.0	365.6	335.1	302.3	281.2	281.2	276.5
22.5°	431.2	428.8	419.4	410.1	403.0	393.7	367.9	330.4	304.6	299.9	292.9
25°	466.3	461.6	449.9	435.9	424.1	417.1	393.7	358.5	330.4	325.7	309.3
27.5°	501.5	496.8	482.7	466.3	447.6	428.8	412.4	386.6	356.2	349.1	323.4
30°	529.6	524.9	515.5	496.8	473.3	452.3	431.2	410.1	377.3	370.2	337.4
32.5°	574.1	571.8	553.0	524.9	506.1	480.4	454.6	433.5	396.0	389.0	349.1
35°	630.3	623.3	609.3	564.7	531.9	508.5	485.1	454.6	414.8	407.7	358.5
37.5°	637.4	635.0	635.0	609.3	569.4	536.6	513.2	482.7	433.5	421.8	365.6
40°	609.3	606.9	613.9	611.6	592.9	567.1	541.3	513.2	452.3	440.5	374.9
42.5°	564.7	564.7	576.4	578.8	578.8	590.5	576.4	541.3	475.7	459.3	372.6
45°	534.3	529.6	534.3	539.0	543.6	574.1	602.2	569.4	501.5	485.1	377.3
47.5°	501.5	499.1	499.1	501.5	506.1	534.3	599.9	611.6	534.3	513.2	389.0
50°	468.7	461.6	461.6	466.3	473.3	482.7	569.4	639.7	576.4	553.0	407.7
52.5°	393.7	398.4	414.8	433.5	452.3	447.6	515.5	635.0	628.0	597.5	433.5
55°	297.6	290.6	323.4	379.6	428.8	431.2	459.3	606.9	686.6	663.1	468.7
57.5°	210.9	213.2	234.3	288.2	384.3	428.8	435.9	564.7	726.4	721.7	515.5
60°	150.0	152.3	171.1	210.9	295.3	414.8	442.9	527.2	735.8	745.2	571.8
62.5°	112.5	112.5	121.9	150.0	210.9	349.1	471.0	522.6	721.7	740.5	621.0
65°	86.7	89.0	93.7	114.8	152.3	243.7	478.0	562.4	686.6	700.6	639.7
67.5°	70.3	72.6	77.3	86.7	110.1	164.0	400.7	618.6	618.6	642.1	611.6
70°	60.9	60.9	63.3	72.6	86.7	117.2	281.2	611.6	560.0	576.4	539.0
72.5°	51.6	53.9	56.2	60.9	70.3	89.0	182.8	485.1	515.5	494.4	440.5
75°	42.2	42.2	46.9	51.6	56.2	70.3	114.8	353.8	412.4	374.9	356.2
77.5°	37.5	37.5	39.8	44.5	49.2	53.9	79.7	215.6	309.3	290.6	264.8
80°	30.5	32.8	32.8	37.5	39.8	42.2	51.6	117.2	217.9	227.3	164.0
82.5°	28.1	28.1	28.1	30.5	32.8	32.8	37.5	60.9	119.5	133.6	84.4
85°	21.1	21.1	21.1	23.4	23.4	23.4	25.8	30.5	53.9	58.6	42.2
87.5°	9.4	9.4	9.4	11.7	11.7	11.7	14.1	11.7	18.7	21.1	16.4
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: MEM2-HSN-SA-46-AMB-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
2.5°	208.6	210.9	210.9	213.2	215.6	215.6	215.6	215.6	217.9	217.9	217.9
5°	210.9	213.2	215.6	220.3	222.6	225.0	227.3	227.3	229.6	229.6	227.3
7.5°	215.6	217.9	222.6	227.3	234.3	236.7	239.0	239.0	239.0	239.0	239.0
10°	222.6	225.0	232.0	239.0	243.7	248.4	250.7	248.4	248.4	248.4	248.4
12.5°	234.3	236.7	243.7	250.7	255.4	260.1	257.8	257.8	255.4	255.4	255.4
15°	248.4	248.4	255.4	262.4	264.8	267.1	262.4	260.1	260.1	257.8	260.1
17.5°	262.4	262.4	267.1	269.5	269.5	264.8	262.4	257.8	257.8	257.8	257.8
20°	274.2	274.2	274.2	269.5	264.8	260.1	257.8	253.1	253.1	255.4	255.4
22.5°	290.6	285.9	274.2	267.1	257.8	253.1	248.4	243.7	243.7	246.0	246.0
25°	302.3	292.9	271.8	260.1	250.7	241.4	236.7	232.0	232.0	232.0	234.3
27.5°	309.3	295.3	264.8	250.7	241.4	232.0	225.0	220.3	215.6	215.6	215.6
30°	316.3	297.6	257.8	243.7	236.7	225.0	213.2	206.2	201.5	199.2	196.8
32.5°	321.0	295.3	250.7	236.7	232.0	220.3	203.9	192.1	185.1	182.8	182.8
35°	325.7	290.6	243.7	234.3	232.0	213.2	194.5	180.4	173.4	168.7	171.1
37.5°	325.7	288.2	243.7	236.7	227.3	206.2	185.1	171.1	164.0	157.0	157.0
40°	328.1	288.2	246.0	236.7	220.3	196.8	178.1	159.3	150.0	142.9	142.9
42.5°	325.7	285.9	246.0	236.7	213.2	187.5	164.0	147.6	138.3	133.6	133.6
45°	323.4	283.5	246.0	232.0	201.5	173.4	147.6	131.2	126.5	124.2	121.9
47.5°	323.4	283.5	248.4	229.6	187.5	152.3	126.5	117.2	112.5	107.8	105.4
50°	332.7	285.9	253.1	227.3	168.7	131.2	107.8	98.4	93.7	91.4	91.4
52.5°	344.5	292.9	255.4	220.3	150.0	114.8	93.7	84.4	82.0	79.7	79.7
55°	363.2	299.9	262.4	208.6	133.6	98.4	82.0	75.0	72.6	72.6	72.6
57.5°	389.0	314.0	278.9	199.2	119.5	84.4	72.6	68.0	70.3	72.6	72.6
60°	419.4	337.4	299.9	187.5	100.8	75.0	68.0	65.6	70.3	72.6	72.6
62.5°	456.9	372.6	321.0	175.7	86.7	65.6	63.3	65.6	68.0	72.6	72.6
65°	501.5	412.4	337.4	161.7	72.6	58.6	60.9	63.3	65.6	72.6	72.6
67.5°	522.6	431.2	325.7	140.6	60.9	53.9	58.6	60.9	65.6	70.3	70.3
70°	487.4	396.0	292.9	107.8	51.6	51.6	53.9	56.2	60.9	68.0	68.0
72.5°	407.7	330.4	217.9	72.6	44.5	46.9	49.2	53.9	58.6	65.6	65.6
75°	351.5	264.8	138.3	49.2	37.5	42.2	46.9	51.6	53.9	60.9	60.9
77.5°	281.2	210.9	86.7	37.5	32.8	37.5	42.2	46.9	49.2	51.6	51.6
80°	185.1	157.0	56.2	28.1	28.1	32.8	37.5	42.2	42.2	46.9	46.9
82.5°	93.7	91.4	37.5	23.4	23.4	28.1	32.8	35.1	37.5	42.2	42.2
85°	42.2	44.5	23.4	16.4	16.4	23.4	25.8	28.1	30.5	28.1	28.1
87.5°	14.1	14.1	11.7	7.0	9.4	11.7	14.1	16.4	16.4	11.7	11.7
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

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
 Rf: 1.1
 Rg: 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

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CIE 1931 Chromaticity Diagram



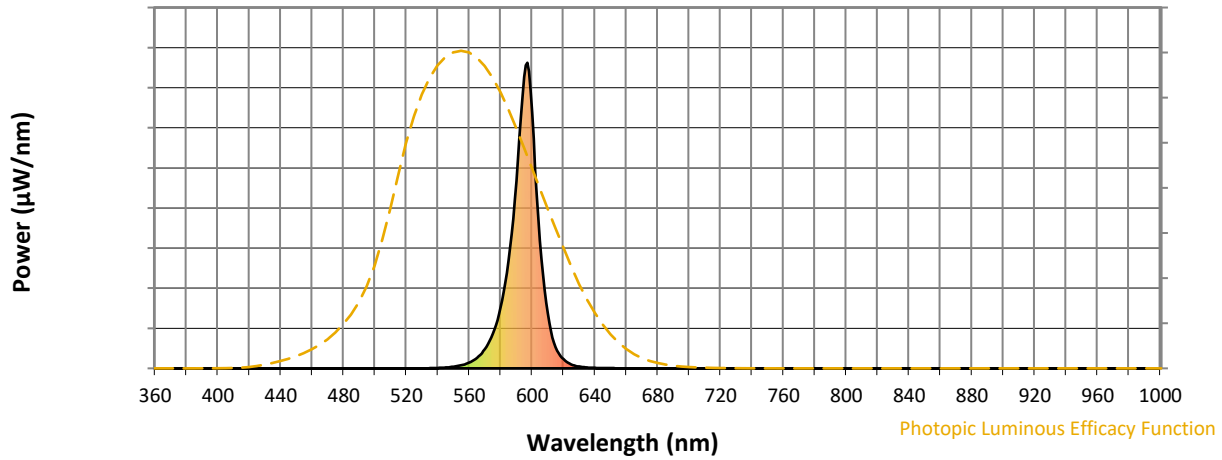
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

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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	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			

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Scotopic Flux vs. Wavelength



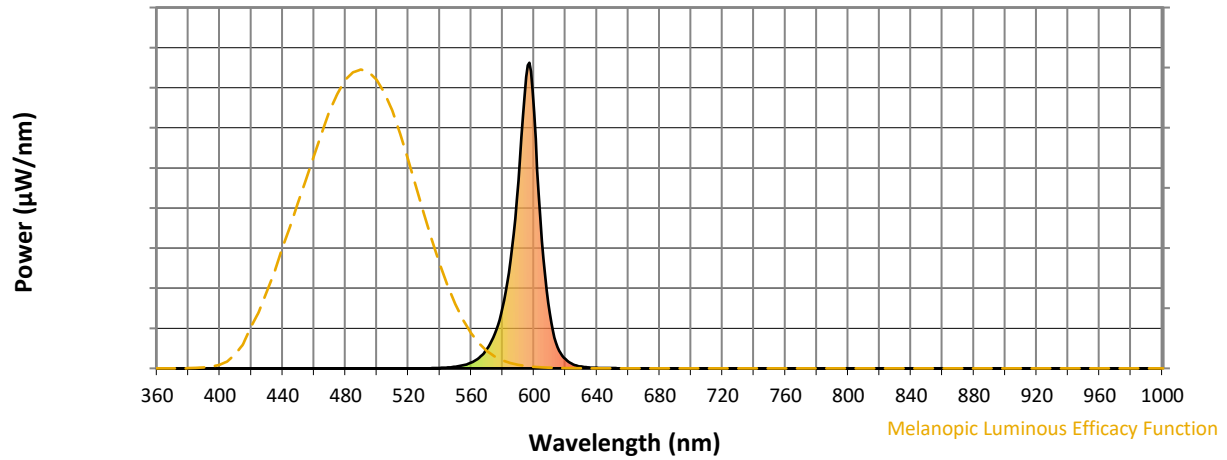
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.12

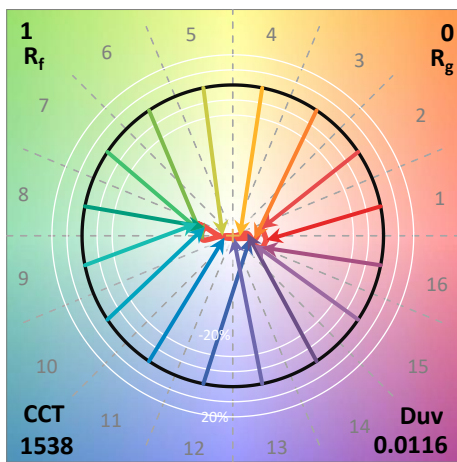
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	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

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

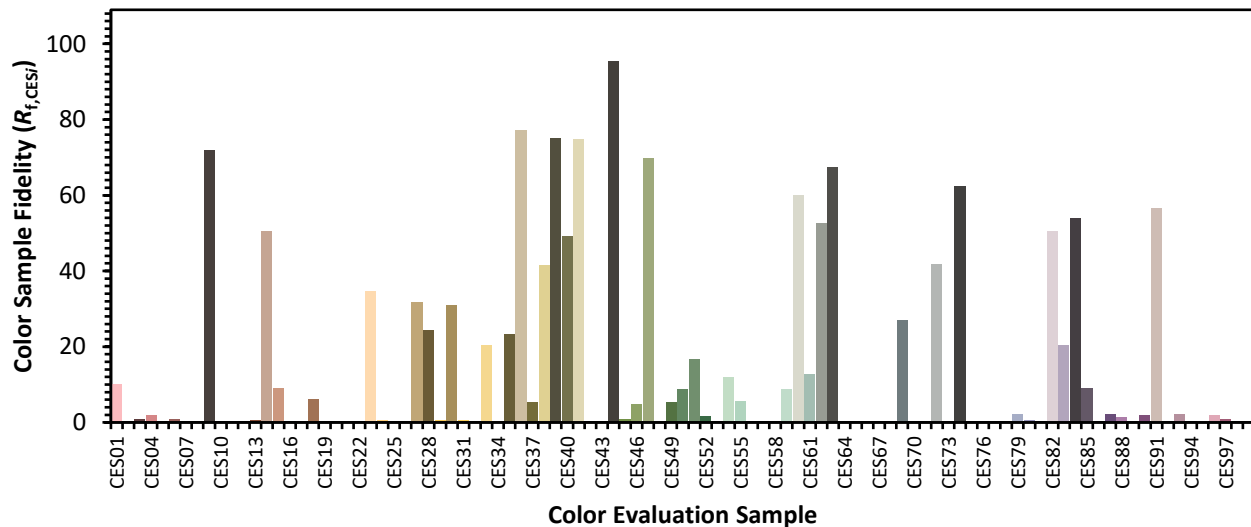


Color Vector Graphics



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)