

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: P869232

Luminaire Tested: **EMM2-HSN-SA2A-AMB-U-T3**

Issue Date: 08/22/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P869232  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/22/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: EMM2-HSN-SA2A-AMB-U-T3  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 30W OCRI 1540K  
FITXURE w/ TYPE III DISTRIBUTION OPTIC  
Light Source: (20) 1540K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

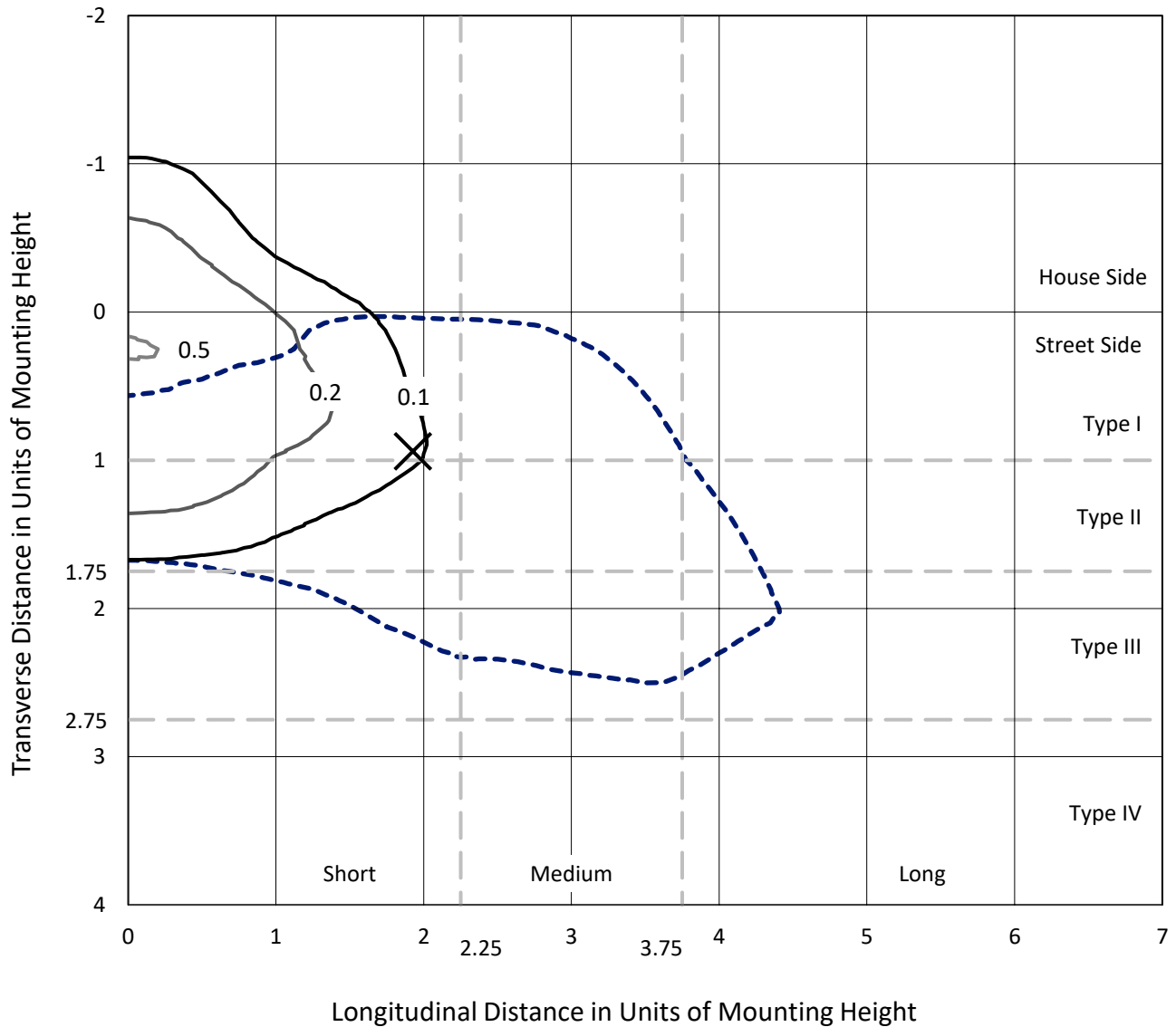
Lumens per Lamp: N/A  
Luminaire Lumens: 1088.9 lumens  
Efficiency: N/A  
Efficacy: 36.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.98  
Total Harmonic Distortion (THDi): 9.04%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P869232  
 CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

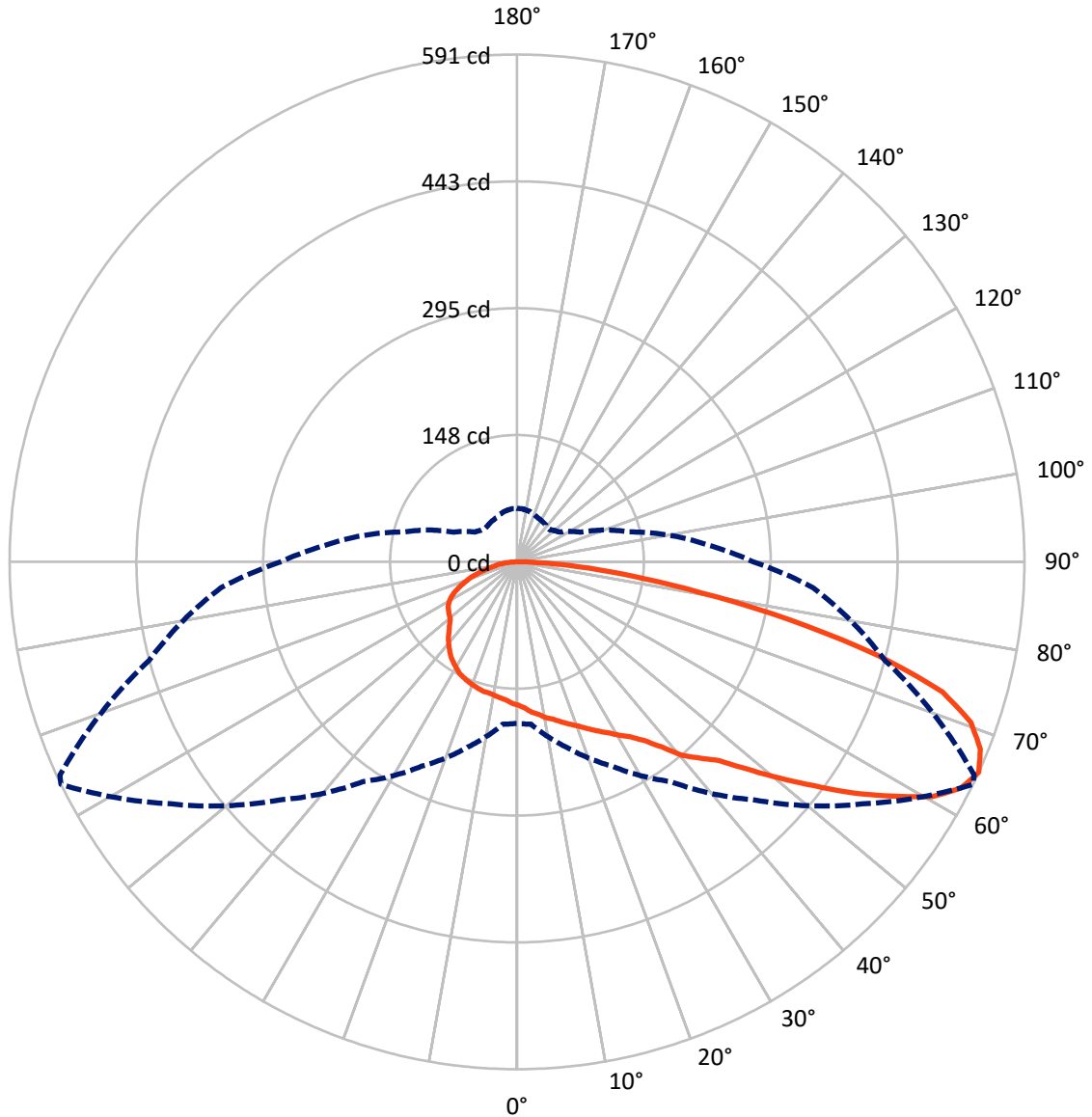
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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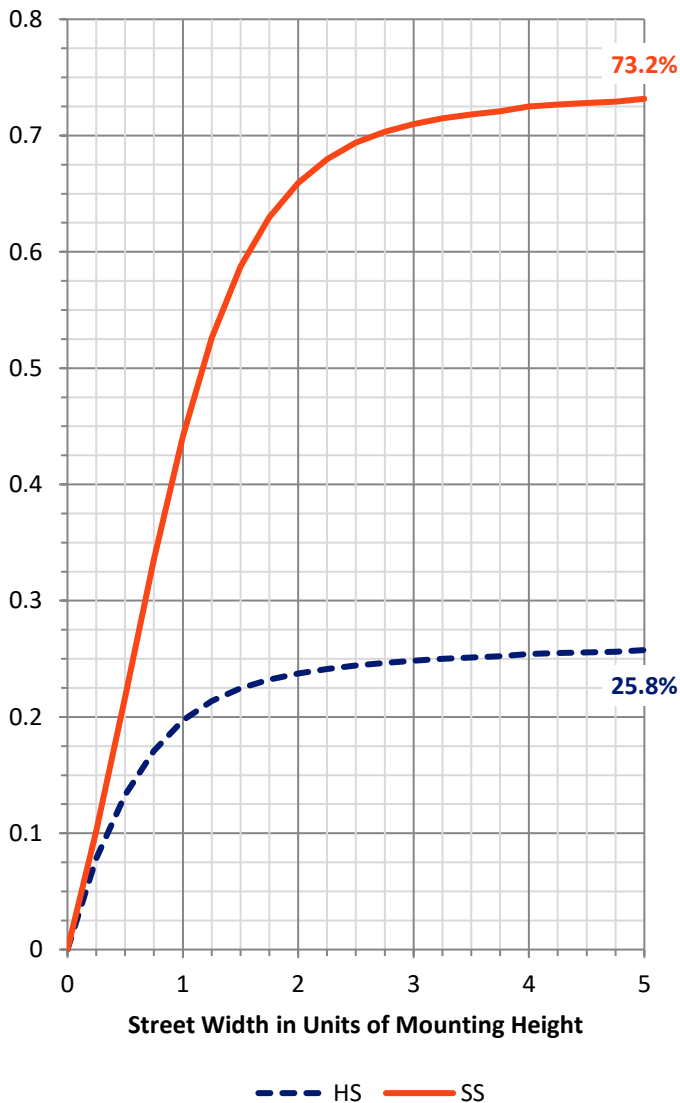
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	285.9	0.0	285.9
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	803.0	0.0	803.0
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	1088.9	0.0	1088.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.4	1.5
10°-20°	51.6	4.7
20°-30°	87.8	8.1
30°-40°	134.5	12.4
40°-50°	184.9	17.0
50°-60°	222.7	20.5
60°-70°	219.1	20.1
70°-80°	138.6	12.7
80°-90°	33.3	3.1
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°	1088.9	100.0
0°-180°	1088.9	100.0



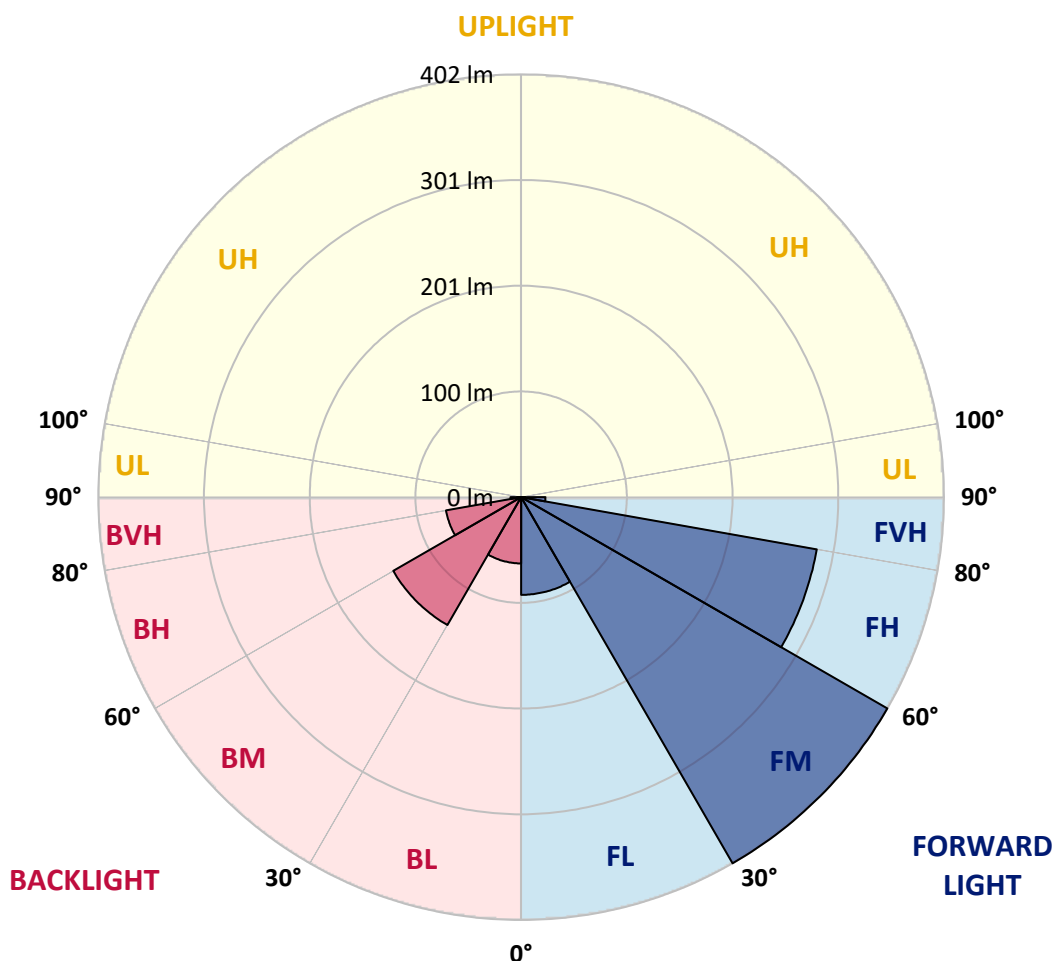
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.9	8.5			
FM (30°-60°)	401.8	36.9			
FH (60°-80°)	285.2	26.2			G0/660
FVH (80°-90°)	23.1	2.1			G1/100
BL (0°-30°)	63.0	5.8	B0/110		
BM (30°-60°)	140.3	12.9	B0/220		
BH (60°-80°)	72.5	6.7	B0/110		G0/110
BVH (80°-90°)	10.1	0.9			G1/100
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: P869232

CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
2.5°	177.3	175.6	175.6	175.6	173.8	173.8	172.0	170.2	170.2	170.2	168.5
5°	188.0	189.7	188.0	188.0	184.4	182.6	179.1	175.6	175.6	172.0	168.5
7.5°	202.2	202.2	202.2	198.6	195.1	191.5	184.4	179.1	179.1	173.8	168.5
10°	216.3	216.3	214.6	211.0	205.7	198.6	191.5	184.4	182.6	175.6	168.5
12.5°	227.0	227.0	227.0	223.4	216.3	207.5	196.8	188.0	186.2	177.3	170.2
15°	232.3	234.1	234.1	230.5	227.0	216.3	205.7	193.3	191.5	179.1	170.2
17.5°	234.1	234.1	235.8	235.8	234.1	225.2	212.8	198.6	196.8	182.6	170.2
20°	232.3	232.3	235.8	239.4	241.2	235.8	221.7	203.9	202.2	184.4	172.0
22.5°	234.1	234.1	237.6	242.9	246.5	242.9	228.8	211.0	207.5	189.7	173.8
25°	246.5	248.3	250.0	250.0	253.6	251.8	237.6	218.1	214.6	193.3	177.3
27.5°	271.3	273.1	271.3	266.0	264.2	258.9	246.5	225.2	223.4	198.6	180.9
30°	301.5	301.5	301.5	290.8	283.7	273.1	257.1	234.1	230.5	202.2	186.2
32.5°	326.3	326.3	328.1	319.2	308.6	289.0	267.8	242.9	239.4	211.0	193.3
35°	338.7	342.2	345.8	342.2	326.3	305.0	285.5	255.4	251.8	221.7	205.7
37.5°	345.8	349.3	356.4	352.9	333.4	321.0	310.3	273.1	269.5	234.1	216.3
40°	367.1	368.8	374.2	363.5	338.7	335.2	331.6	296.1	290.8	248.3	230.5
42.5°	390.1	393.7	399.0	379.5	351.1	347.6	351.1	312.1	306.8	255.4	235.8
45°	409.6	407.9	418.5	388.4	370.6	360.0	370.6	329.8	324.5	267.8	250.0
47.5°	416.7	411.4	411.4	399.0	399.0	370.6	390.1	360.0	352.9	285.5	264.2
50°	415.0	409.6	413.2	404.3	407.9	384.8	411.4	395.4	388.4	306.8	283.7
52.5°	397.2	397.2	406.1	407.9	407.9	393.7	432.7	432.7	423.8	329.8	303.2
55°	367.1	367.1	386.6	399.0	400.8	399.0	454.0	475.2	464.6	354.7	319.2
57.5°	322.7	326.3	344.0	379.5	391.9	406.1	475.2	514.3	505.4	379.5	329.8
60°	276.6	278.4	297.9	345.8	375.9	409.6	489.4	555.0	546.2	402.5	335.2
62.5°	230.5	230.5	258.9	297.9	345.8	404.3	496.5	579.9	572.8	422.0	340.5
65°	188.0	189.7	223.4	262.4	312.1	391.9	491.2	590.5	587.0	443.3	345.8
67.5°	134.8	133.0	173.8	227.0	280.2	372.4	461.1	581.6	585.2	464.6	351.1
70°	90.4	88.7	122.4	173.8	244.7	352.9	418.5	560.4	572.8	459.3	344.0
72.5°	67.4	67.4	86.9	120.6	175.6	319.2	390.1	517.8	539.1	407.9	297.9
75°	51.4	53.2	65.6	83.3	115.3	225.2	367.1	432.7	454.0	315.6	239.4
77.5°	44.3	44.3	47.9	60.3	74.5	134.8	280.2	324.5	335.2	230.5	180.9
80°	37.2	37.2	37.2	44.3	51.4	74.5	156.0	216.3	221.7	152.5	127.7
82.5°	30.1	30.1	30.1	33.7	37.2	46.1	85.1	133.0	138.3	99.3	86.9
85°	23.1	23.1	23.1	24.8	26.6	30.1	47.9	70.9	72.7	63.8	37.2
87.5°	12.4	12.4	14.2	14.2	16.0	17.7	23.1	24.8	24.8	21.3	10.6
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: P869232

CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
2.5°	168.5	166.7	166.7	164.9	163.1	163.1	161.4	161.4	161.4	161.4	161.4
5°	168.5	166.7	163.1	161.4	159.6	159.6	157.8	157.8	156.0	157.8	157.8
7.5°	168.5	164.9	161.4	159.6	157.8	156.0	156.0	154.3	154.3	156.0	156.0
10°	166.7	163.1	159.6	157.8	156.0	154.3	154.3	154.3	154.3	154.3	154.3
12.5°	166.7	163.1	159.6	156.0	156.0	154.3	152.5	152.5	154.3	154.3	154.3
15°	166.7	161.4	157.8	156.0	154.3	152.5	152.5	152.5	152.5	154.3	154.3
17.5°	164.9	161.4	156.0	154.3	152.5	150.7	150.7	150.7	150.7	152.5	152.5
20°	166.7	161.4	156.0	152.5	150.7	149.0	149.0	147.2	147.2	149.0	149.0
22.5°	166.7	161.4	154.3	150.7	149.0	145.4	143.6	143.6	141.9	143.6	145.4
25°	170.2	163.1	154.3	149.0	143.6	141.9	140.1	138.3	136.5	138.3	140.1
27.5°	172.0	164.9	154.3	147.2	138.3	134.8	133.0	133.0	133.0	134.8	136.5
30°	175.6	166.7	154.3	143.6	133.0	127.7	129.5	129.5	131.2	133.0	133.0
32.5°	182.6	172.0	154.3	140.1	127.7	122.4	125.9	129.5	131.2	131.2	133.0
35°	193.3	179.1	154.3	136.5	122.4	118.8	124.1	129.5	131.2	133.0	134.8
37.5°	202.2	188.0	156.0	131.2	118.8	115.3	120.6	131.2	133.0	133.0	134.8
40°	212.8	193.3	154.3	125.9	113.5	111.7	118.8	129.5	131.2	131.2	133.0
42.5°	214.6	189.7	149.0	120.6	108.2	109.9	113.5	127.7	129.5	129.5	127.7
45°	223.4	195.1	145.4	113.5	104.6	106.4	108.2	120.6	125.9	125.9	124.1
47.5°	237.6	202.2	141.9	108.2	99.3	101.1	101.1	111.7	115.3	117.0	115.3
50°	251.8	209.2	140.1	102.9	94.0	94.0	92.2	101.1	106.4	104.6	104.6
52.5°	266.0	212.8	138.3	101.1	90.4	85.1	86.9	92.2	95.8	95.8	94.0
55°	274.9	216.3	136.5	99.3	83.3	76.3	79.8	83.3	86.9	86.9	86.9
57.5°	282.0	219.9	136.5	97.5	78.0	70.9	72.7	74.5	79.8	79.8	79.8
60°	282.0	221.7	138.3	94.0	70.9	63.8	65.6	69.2	72.7	72.7	72.7
62.5°	278.4	223.4	138.3	88.7	65.6	58.5	60.3	62.1	65.6	67.4	67.4
65°	274.9	223.4	134.8	81.6	60.3	53.2	55.0	56.7	60.3	62.1	62.1
67.5°	273.1	221.7	124.1	72.7	55.0	47.9	49.7	51.4	55.0	55.0	56.7
70°	264.2	207.5	108.2	63.8	49.7	44.3	44.3	46.1	49.7	47.9	47.9
72.5°	235.8	175.6	88.7	55.0	44.3	39.0	39.0	42.6	44.3	46.1	46.1
75°	202.2	131.2	67.4	44.3	37.2	35.5	35.5	37.2	40.8	42.6	42.6
77.5°	157.8	95.8	49.7	33.7	30.1	30.1	31.9	33.7	35.5	39.0	37.2
80°	104.6	65.6	35.5	26.6	24.8	26.6	28.4	30.1	33.7	35.5	33.7
82.5°	65.6	44.3	24.8	21.3	21.3	23.1	24.8	26.6	31.9	33.7	31.9
85°	26.6	26.6	17.7	14.2	16.0	17.7	17.7	21.3	24.8	24.8	23.1
87.5°	8.9	8.9	7.1	5.3	7.1	7.1	7.1	8.9	12.4	12.4	10.6
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

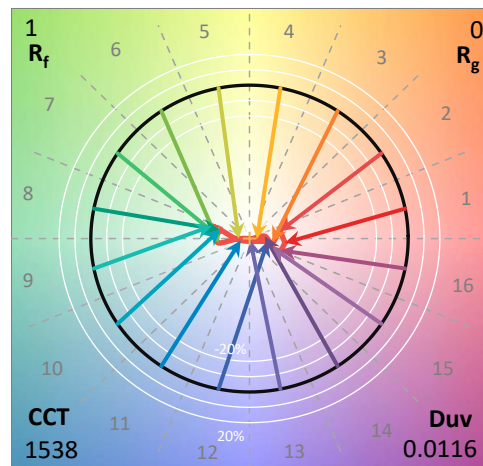
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 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<sub>f</sub>: 1.1  
 R<sub>g</sub>: 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



CCT = 1538K  
 CIE x = 0.5918  
 CIE y = 0.4076  
 Duv = 0.0116

Point lies outside the range

REPORT NUMBER: SP1-2407-157-1

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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**

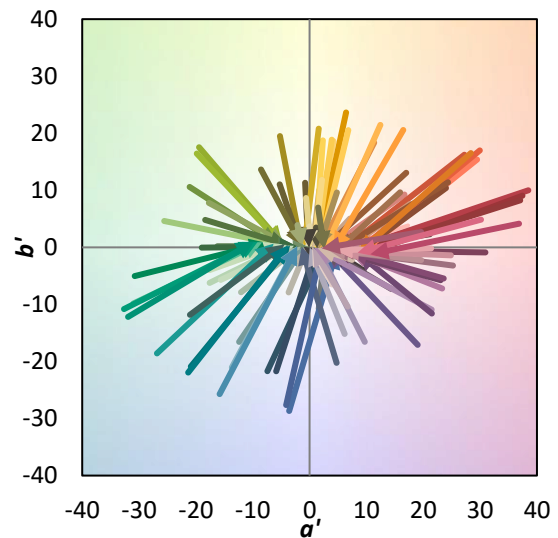
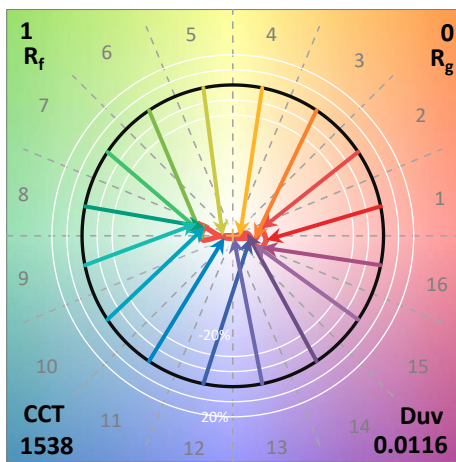
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	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)