

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: P869226

Luminaire Tested: **EMM2-HSN-SA2A-AMB-U-T2U**

Issue Date: 08/22/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P869226  
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-T2U  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 30W OCRI 1540K  
FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC  
Light Source: (20) 1540K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

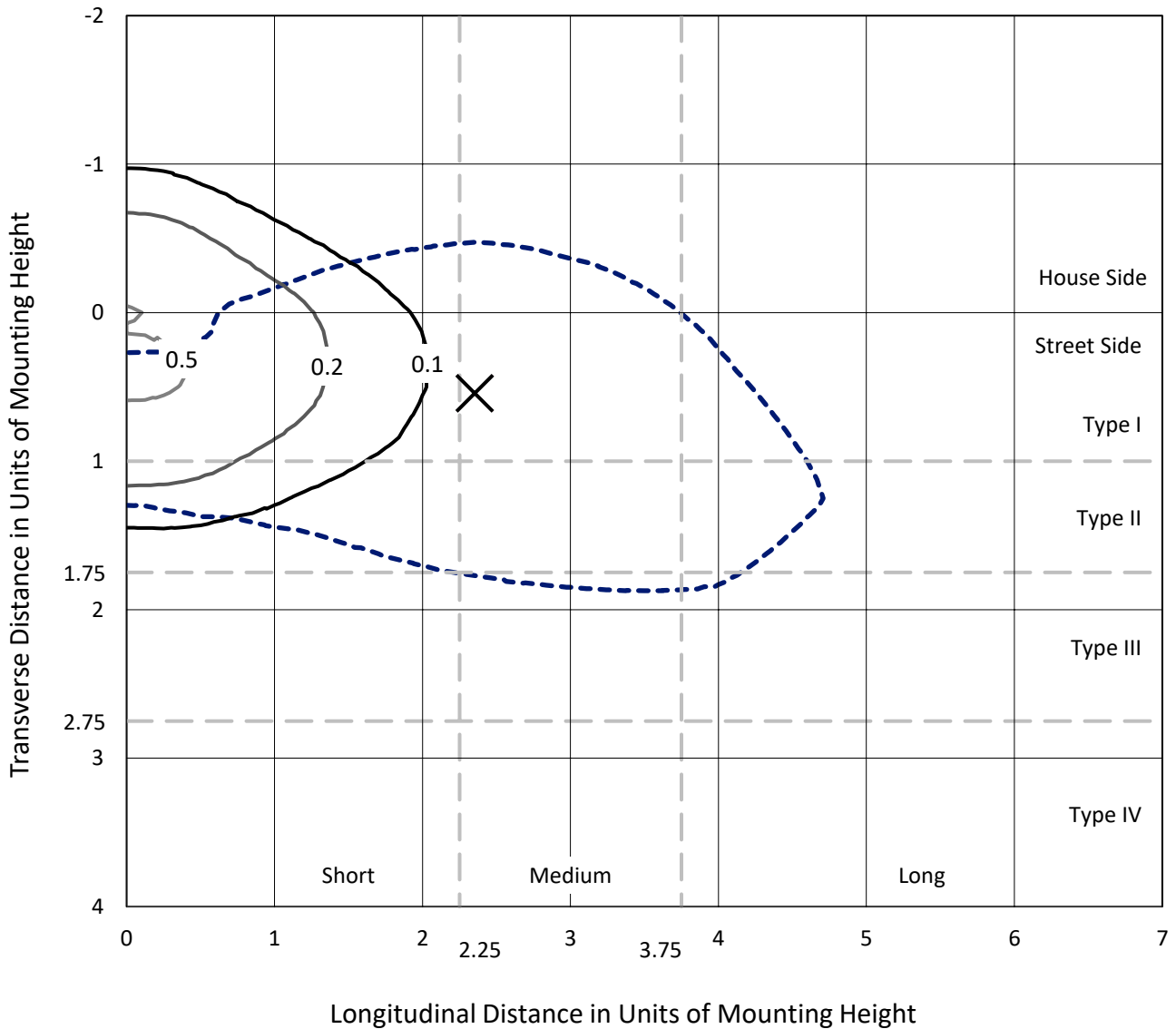
Lumens per Lamp: N/A  
Luminaire Lumens: 1098.7 lumens  
Efficiency: N/A  
Efficacy: 36.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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: P869226  
 CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

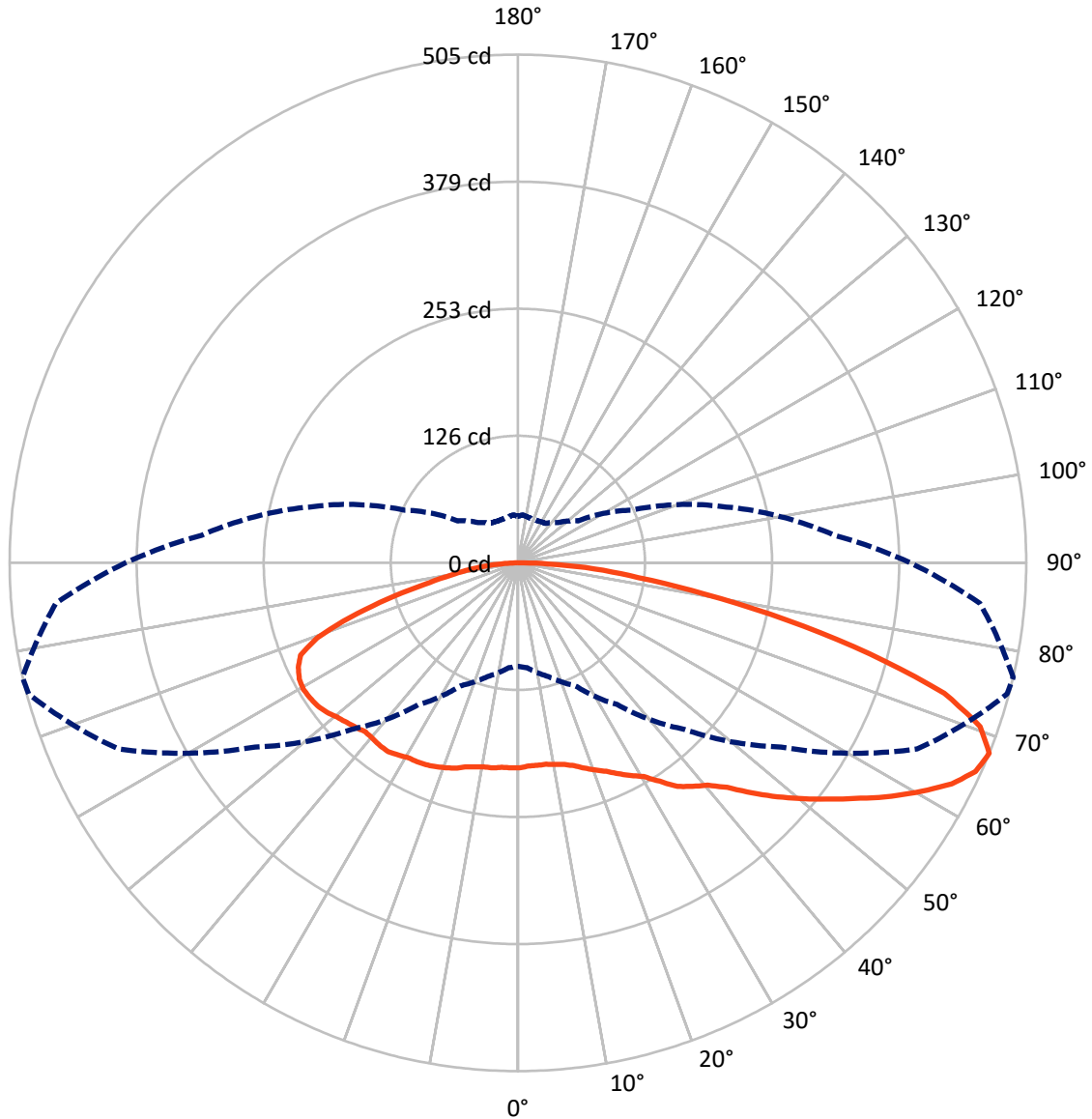
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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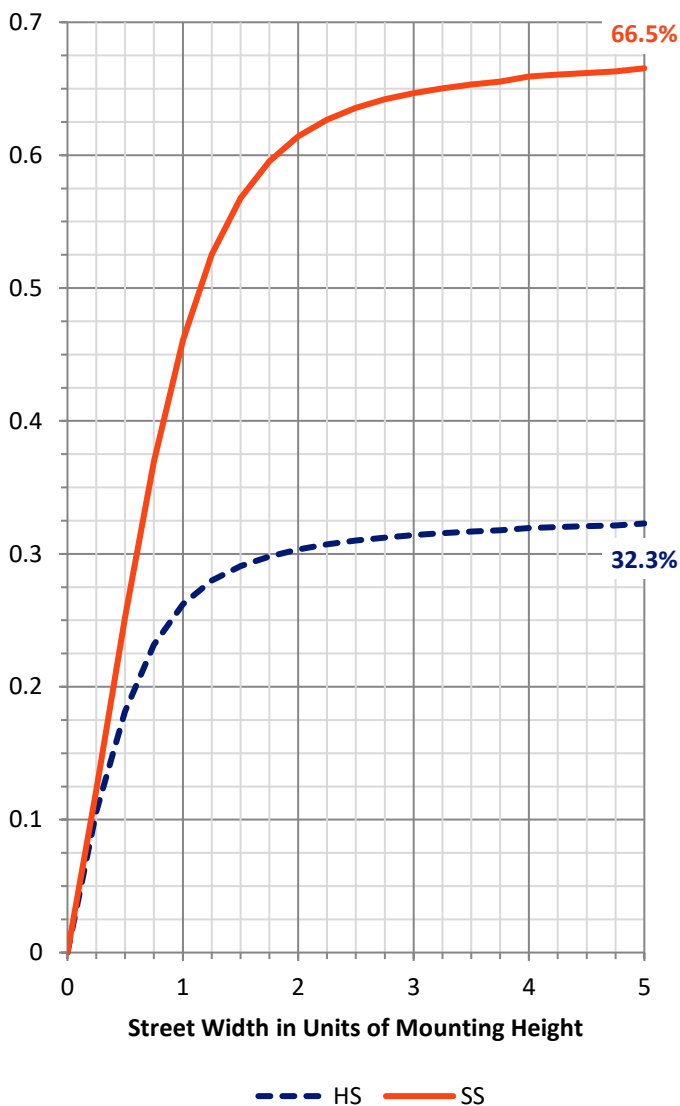
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	361.5	0.0	361.5
	% Fixture	32.9	0.0	32.9
<b>Street Side</b>	Lumens	737.2	0.0	737.2
	% Fixture	67.1	0.0	67.1
<b>Total</b>	Lumens	1098.7	0.0	1098.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.3	1.8
10°-20°	60.0	5.5
20°-30°	106.9	9.7
30°-40°	151.2	13.8
40°-50°	188.8	17.2
50°-60°	207.9	18.9
60°-70°	200.4	18.2
70°-80°	128.0	11.7
80°-90°	36.3	3.3
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°	1098.7	100.0
0°-180°	1098.7	100.0

**Coefficient of Utilization**



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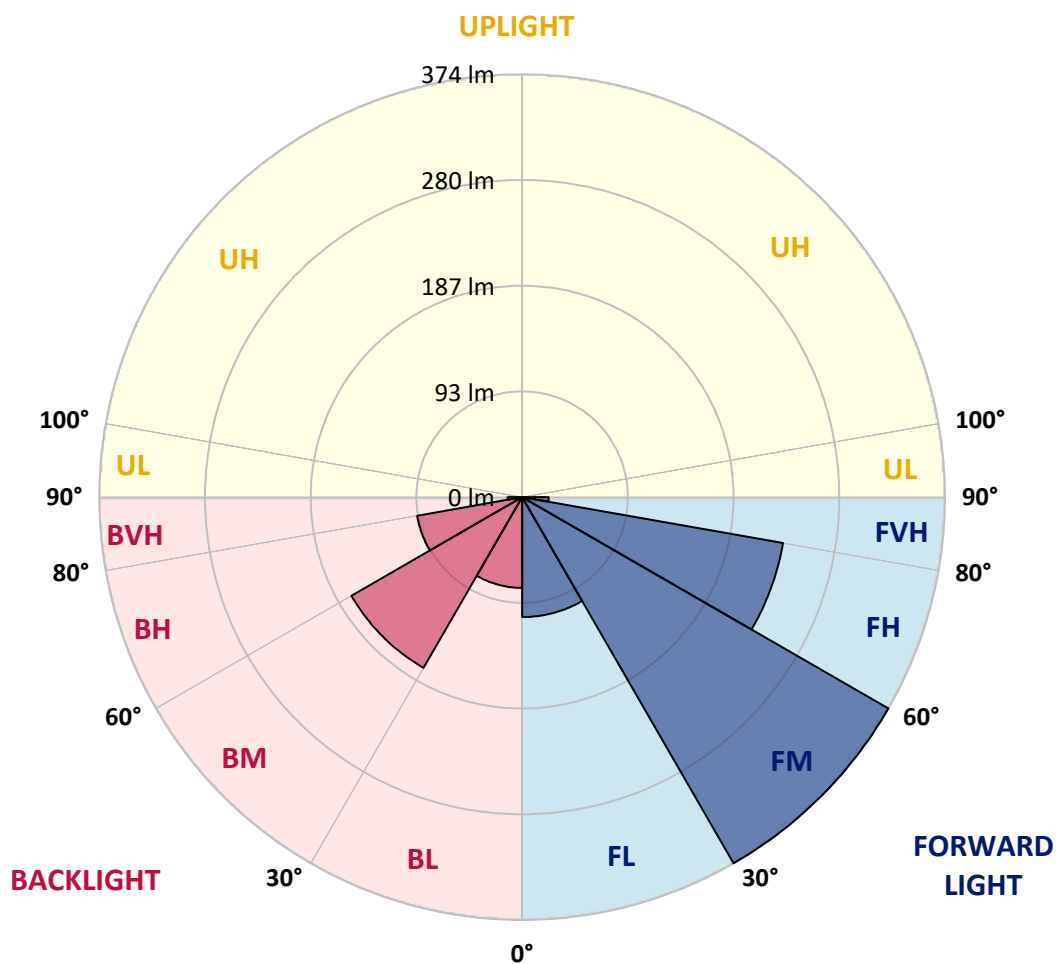
CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.0	9.6			
FM (30°-60°)	373.7	34.0			
FH (60°-80°)	234.1	21.3			G0/660
FVH (80°-90°)	23.5	2.1			G1/100
BL (0°-30°)	80.2	7.3	B0/110		
BM (30°-60°)	174.2	15.9	B0/220		
BH (60°-80°)	94.3	8.6	B0/110		G0/110
BVH (80°-90°)	12.8	1.2			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9
2.5°	200.4	200.4	200.4	200.4	200.4	202.2	202.2	202.2	202.2	202.2	203.9
5°	198.6	198.6	200.4	200.4	200.4	200.4	200.4	200.4	202.2	202.2	203.9
7.5°	202.2	202.2	202.2	202.2	202.2	200.4	200.4	200.4	202.2	202.2	203.9
10°	212.8	212.8	212.8	211.0	207.5	203.9	202.2	202.2	202.2	203.9	203.9
12.5°	228.8	230.5	228.8	223.4	218.1	211.0	207.5	205.7	205.7	205.7	207.5
15°	251.8	250.0	246.5	241.2	232.3	221.7	214.6	211.0	209.2	209.2	211.0
17.5°	271.3	273.1	269.5	260.7	248.3	234.1	223.4	216.3	214.6	214.6	214.6
20°	290.8	290.8	287.3	280.2	266.0	248.3	234.1	223.4	218.1	219.9	219.9
22.5°	301.5	301.5	301.5	294.4	283.7	267.8	248.3	232.3	225.2	225.2	225.2
25°	308.6	308.6	310.3	308.6	301.5	283.7	262.4	242.9	232.3	232.3	232.3
27.5°	310.3	312.1	313.9	313.9	308.6	297.9	278.4	253.6	239.4	239.4	239.4
30°	312.1	313.9	319.2	321.0	317.4	308.6	290.8	264.2	248.3	246.5	246.5
32.5°	315.6	317.4	321.0	326.3	326.3	319.2	301.5	276.6	258.9	258.9	255.4
35°	317.4	319.2	324.5	328.1	331.6	328.1	312.1	289.0	274.9	273.1	266.0
37.5°	321.0	322.7	326.3	333.4	336.9	335.2	324.5	303.2	285.5	282.0	278.4
40°	321.0	324.5	331.6	338.7	340.5	340.5	336.9	315.6	294.4	290.8	283.7
42.5°	322.7	328.1	336.9	344.0	340.5	342.2	344.0	328.1	308.6	305.0	296.1
45°	321.0	321.0	338.7	342.2	338.7	345.8	352.9	345.8	329.8	326.3	312.1
47.5°	306.8	306.8	317.4	329.8	333.4	345.8	363.5	365.3	349.3	347.6	326.3
50°	285.5	285.5	301.5	317.4	326.3	345.8	372.4	384.8	372.4	368.8	345.8
52.5°	244.7	246.5	271.3	299.7	313.9	342.2	381.3	404.3	391.9	390.1	363.5
55°	219.9	223.4	241.2	274.9	301.5	333.4	384.8	422.0	415.0	413.2	384.8
57.5°	193.3	198.6	219.9	237.6	280.2	319.2	386.6	439.8	439.8	438.0	409.6
60°	170.2	173.8	188.0	211.0	257.1	301.5	377.7	450.4	461.1	461.1	436.2
62.5°	145.4	147.2	161.4	184.4	225.2	280.2	363.5	457.5	482.3	484.1	457.5
65°	124.1	125.9	138.3	157.8	198.6	260.7	344.0	454.0	498.3	500.1	469.9
67.5°	102.9	104.6	117.0	134.8	172.0	234.1	319.2	438.0	503.6	505.4	461.1
70°	78.0	78.0	94.0	111.7	141.9	198.6	289.0	409.6	489.4	487.7	415.0
72.5°	58.5	60.3	76.3	90.4	115.3	157.8	248.3	368.8	448.6	443.3	360.0
75°	47.9	49.7	60.3	76.3	92.2	127.7	193.3	308.6	377.7	361.8	290.8
77.5°	40.8	40.8	46.1	60.3	76.3	97.5	143.6	241.2	285.5	273.1	214.6
80°	35.5	35.5	37.2	49.7	58.5	69.2	95.8	159.6	191.5	188.0	145.4
82.5°	31.9	30.1	30.1	39.0	46.1	51.4	63.8	97.5	124.1	120.6	101.1
85°	21.3	21.3	23.1	28.4	31.9	35.5	44.3	56.7	81.6	76.3	51.4
87.5°	12.4	12.4	12.4	16.0	17.7	19.5	23.1	26.6	30.1	30.1	21.3
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: P869226  
 CATALOG NUMBER: EMM2-HSN-SA2A-AMB-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9
2.5°	203.9	203.9	203.9	203.9	205.7	205.7	203.9	203.9	203.9	205.7	205.7
5°	203.9	203.9	203.9	203.9	203.9	203.9	203.9	202.2	202.2	203.9	202.2
7.5°	203.9	203.9	205.7	205.7	203.9	200.4	198.6	196.8	196.8	196.8	196.8
10°	205.7	205.7	205.7	203.9	202.2	198.6	193.3	191.5	189.7	189.7	191.5
12.5°	207.5	207.5	207.5	203.9	198.6	193.3	189.7	186.2	184.4	184.4	184.4
15°	211.0	211.0	209.2	203.9	196.8	189.7	184.4	180.9	179.1	179.1	179.1
17.5°	216.3	216.3	212.8	203.9	193.3	186.2	182.7	179.1	177.3	175.6	177.3
20°	221.7	221.7	214.6	202.2	191.5	184.4	179.1	175.6	173.8	173.8	173.8
22.5°	227.0	227.0	216.3	202.2	189.7	182.7	177.3	173.8	170.2	170.2	170.2
25°	234.1	230.5	218.1	200.4	188.0	179.1	173.8	170.2	166.7	164.9	164.9
27.5°	237.6	235.8	218.1	198.6	184.4	175.6	170.2	163.1	157.8	157.8	156.1
30°	244.7	239.4	218.1	195.1	179.1	170.2	163.1	156.1	152.5	150.7	150.7
32.5°	253.6	246.5	219.9	193.3	175.6	164.9	156.1	150.7	145.4	143.6	143.6
35°	260.7	251.8	221.7	191.5	170.2	157.8	149.0	145.4	138.3	136.5	134.8
37.5°	271.3	258.9	219.9	186.2	164.9	150.7	143.6	136.5	131.2	129.5	127.7
40°	274.9	260.7	218.1	182.7	161.4	143.6	134.8	127.7	125.9	124.1	124.1
42.5°	283.7	266.0	216.3	179.1	154.3	136.5	125.9	120.6	118.8	115.3	115.3
45°	296.1	274.9	218.1	177.3	149.0	129.5	117.0	109.9	108.2	104.6	104.6
47.5°	310.3	283.7	219.9	173.8	143.6	120.6	106.4	99.3	95.8	92.2	92.2
50°	324.5	294.4	221.7	172.0	136.5	111.7	95.8	86.9	83.3	79.8	79.8
52.5°	340.5	305.0	225.2	168.5	127.7	102.9	85.1	78.0	72.7	70.9	70.9
55°	360.0	315.6	227.0	164.9	118.8	92.2	76.3	69.2	65.6	63.8	63.8
57.5°	375.9	324.5	227.0	159.6	109.9	83.3	69.2	63.8	60.3	60.3	60.3
60°	393.7	329.8	227.0	154.3	102.9	74.5	63.8	58.5	56.7	58.5	58.5
62.5°	406.1	329.8	225.2	149.0	94.0	67.4	58.5	55.0	53.2	56.7	56.7
65°	406.1	322.7	221.7	138.3	83.3	62.1	53.2	49.7	49.7	51.4	51.4
67.5°	390.1	315.6	214.6	124.1	72.7	56.7	47.9	46.1	46.1	47.9	46.1
70°	354.7	292.6	193.3	101.1	63.8	49.7	44.3	42.6	42.6	42.6	42.6
72.5°	315.6	260.7	154.3	83.3	55.0	44.3	39.0	39.0	37.2	37.2	37.2
75°	251.8	211.0	115.3	63.8	44.3	39.0	35.5	33.7	33.7	35.5	35.5
77.5°	193.3	150.7	81.6	49.7	35.5	31.9	31.9	30.1	31.9	37.2	35.5
80°	134.8	104.6	58.5	35.5	28.4	28.4	28.4	26.6	37.2	44.3	42.6
82.5°	88.7	72.7	42.6	28.4	23.1	23.1	23.1	28.4	39.0	40.8	40.8
85°	42.6	42.6	28.4	17.7	17.7	16.0	17.7	30.1	28.4	24.8	23.1
87.5°	17.7	16.0	12.4	7.1	7.1	7.1	8.9	19.5	10.6	10.6	8.9
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



Point lies outside the range

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**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			

REPORT NUMBER: SP1-2407-157-1

**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**

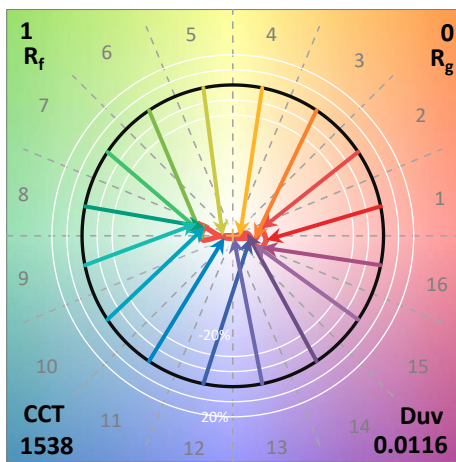
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13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



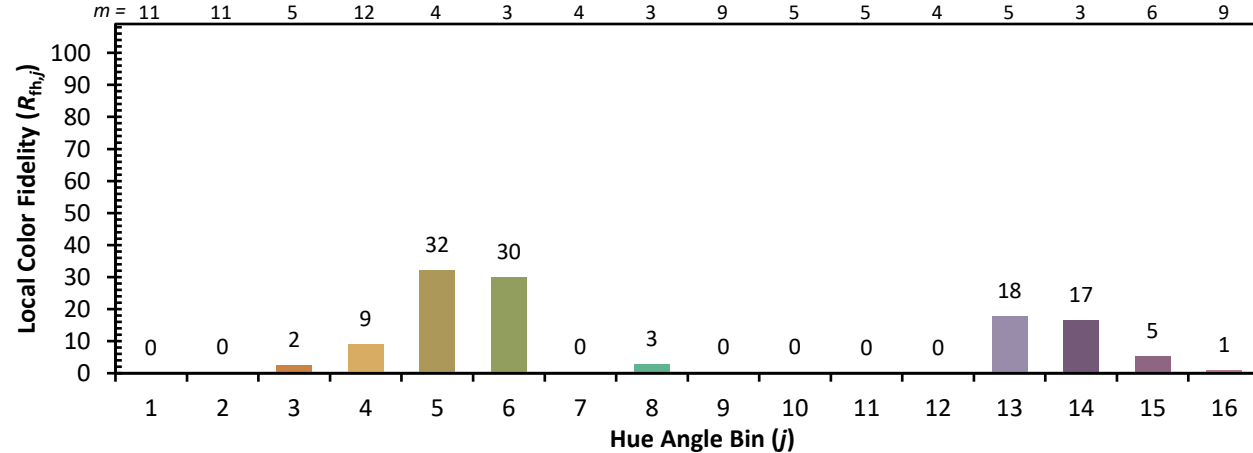
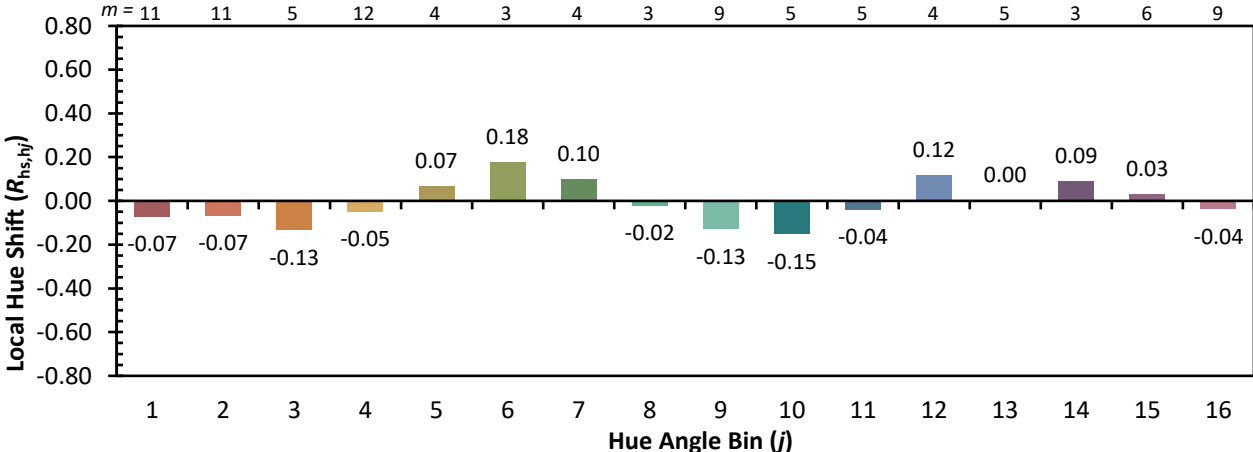
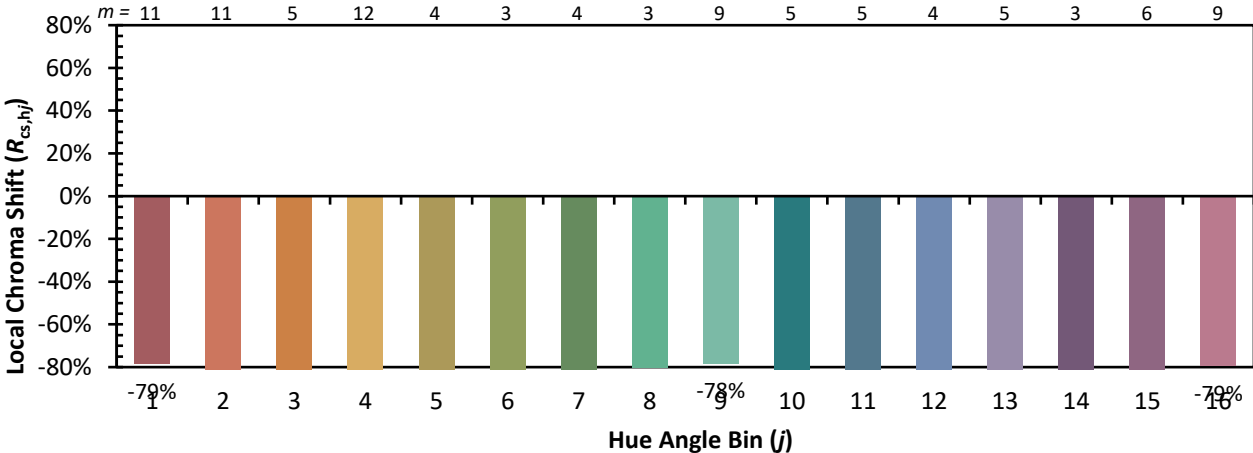


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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)