

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: P869212

Luminaire Tested: **EMM2-HTN-SA3A-AMB-U-T4W-HSS**

Issue Date: 08/22/2024



Test Information

Test Method: LM-79-08
Report Number: P869212
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-T4W-HSS
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 46W 0CRI 1540K FIXTURE
w/ TYPE IV WIDE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (30) 1540K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

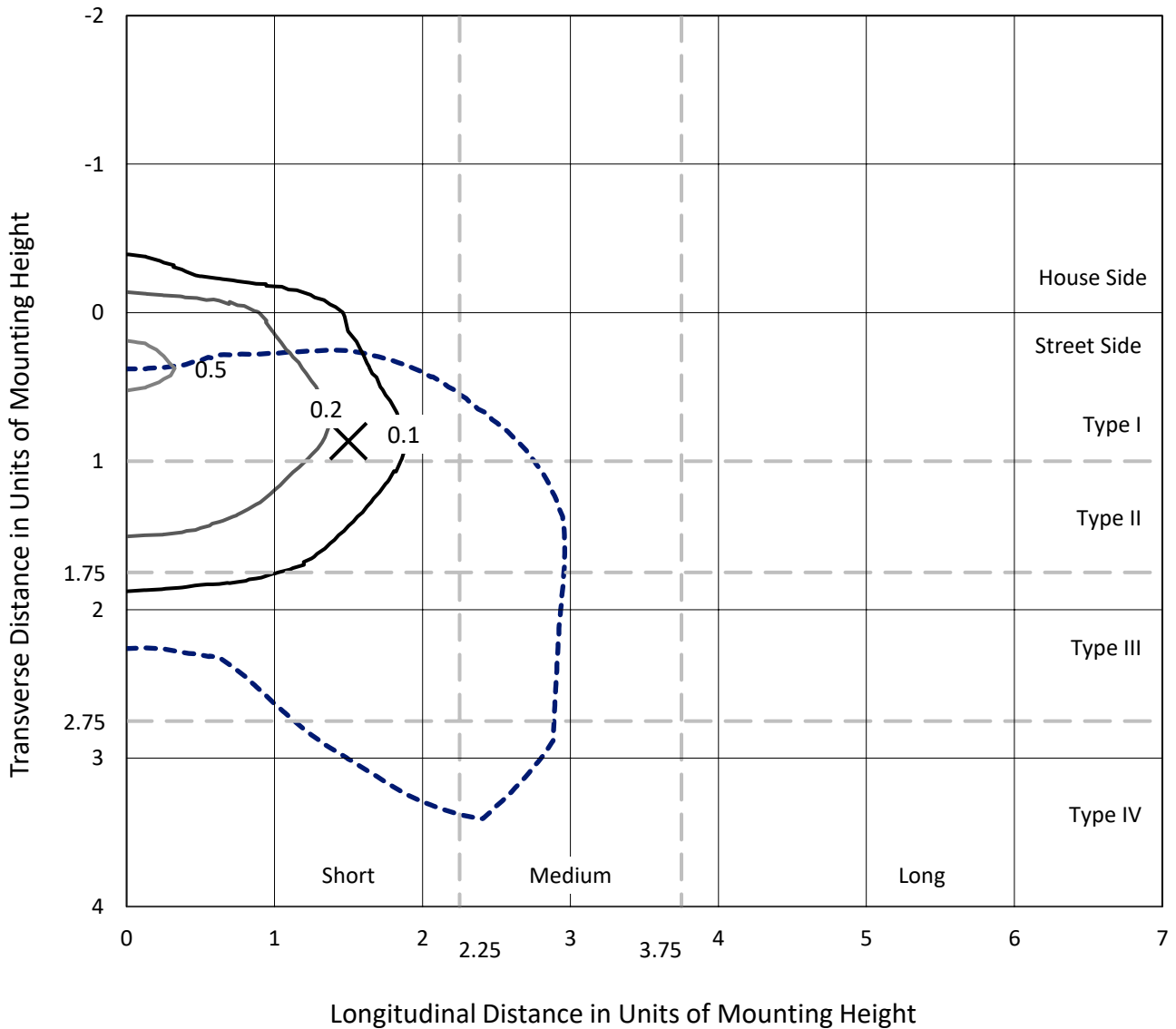
Lumens per Lamp: N/A
Luminaire Lumens: 969.2 lumens
Efficiency: N/A
Efficacy: 21.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

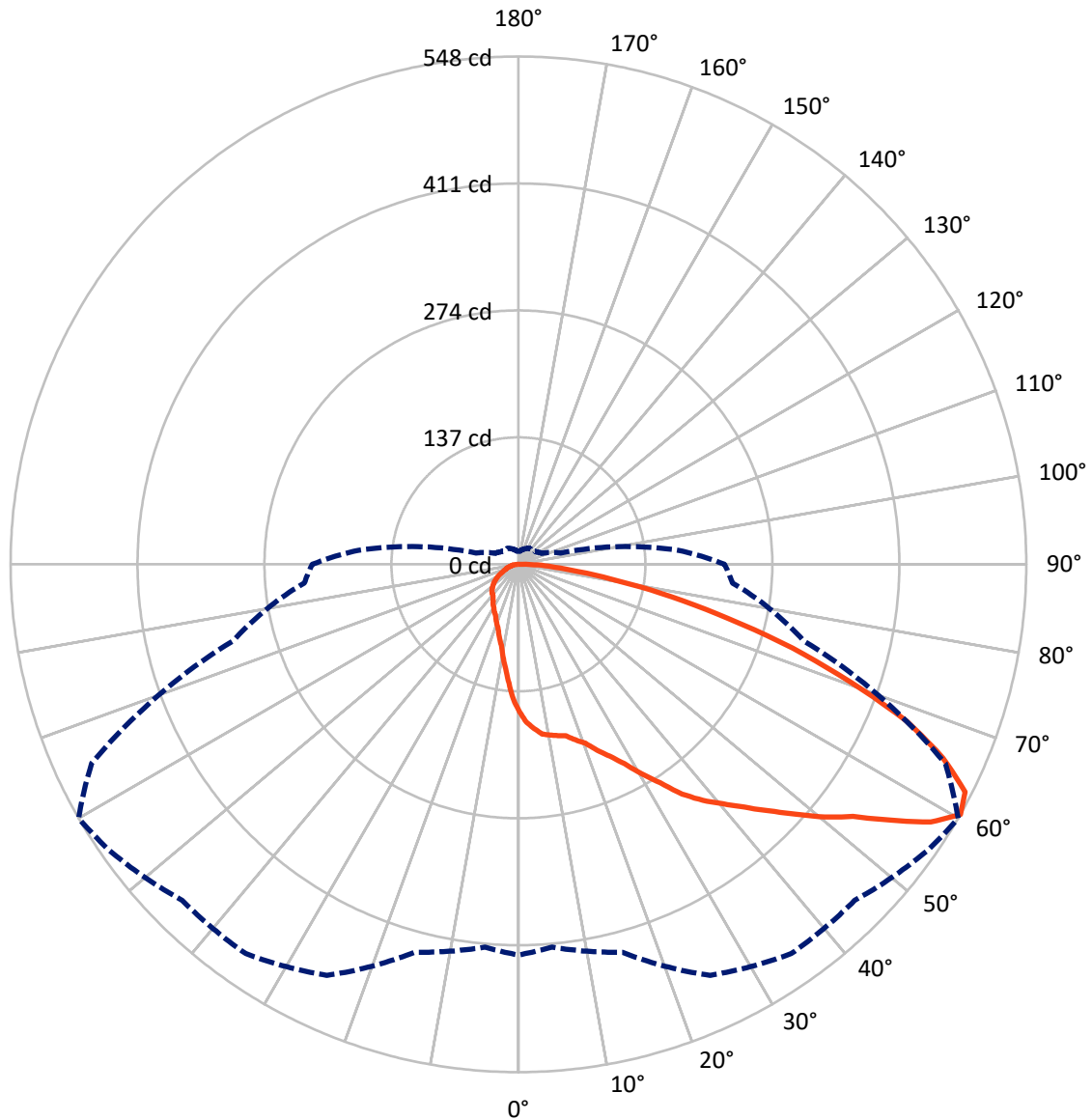
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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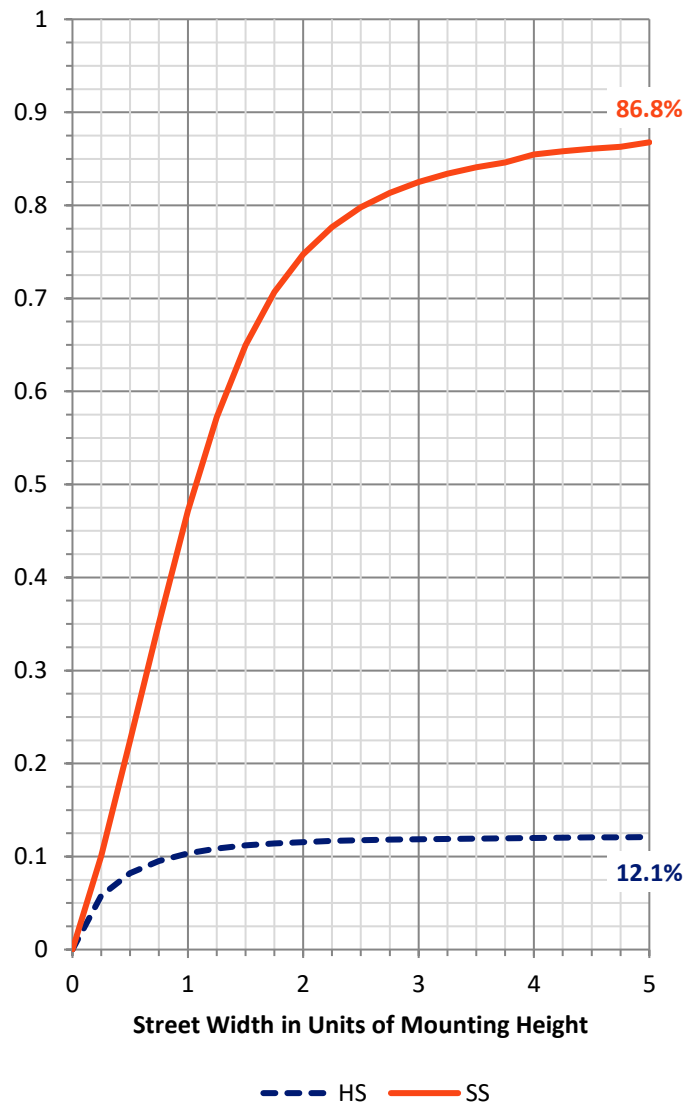
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	118.8	0.0	118.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	850.4	0.0	850.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	969.2	0.0	969.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	1.5
10°-20°	41.2	4.3
20°-30°	72.8	7.5
30°-40°	112.2	11.6
40°-50°	166.8	17.2
50°-60°	216.2	22.3
60°-70°	206.5	21.3
70°-80°	113.6	11.7
80°-90°	25.8	2.7
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°	969.2	100.0
0°-180°	969.2	100.0

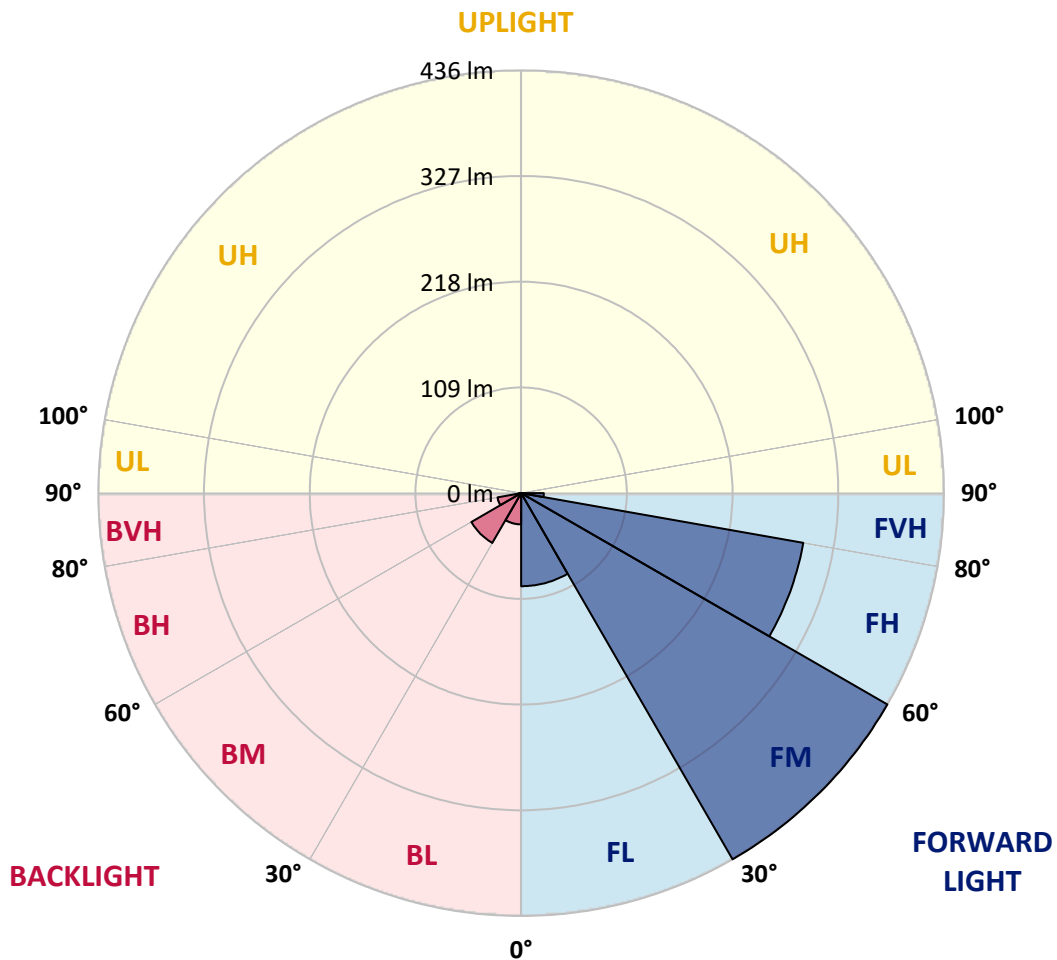


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.9	9.9			
FM (30°-60°)	435.9	45.0			
FH (60°-80°)	295.3	30.5			G0/660
FVH (80°-90°)	23.3	2.4			G1/100
BL (0°-30°)	32.2	3.3	B0/110		
BM (30°-60°)	59.3	6.1	B0/220		
BH (60°-80°)	24.8	2.6	B0/110		G0/110
BVH (80°-90°)	2.5	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	180.4	180.4	180.4	178.1	178.1	175.7	173.4	171.1	168.7	166.4	161.7
5°	187.5	189.8	189.8	187.5	187.5	185.1	182.8	178.1	175.7	171.1	164.0
7.5°	194.5	194.5	194.5	192.1	192.1	189.8	187.5	185.1	182.8	175.7	164.0
10°	203.9	203.9	201.5	199.2	196.8	194.5	189.8	187.5	185.1	178.1	164.0
12.5°	217.9	217.9	215.6	213.2	206.2	199.2	192.1	189.8	187.5	178.1	166.4
15°	239.0	236.7	236.7	229.6	220.3	208.5	196.8	192.1	189.8	182.8	168.7
17.5°	257.8	255.4	255.4	246.0	234.3	220.3	203.9	199.2	192.1	185.1	171.1
20°	271.8	271.8	269.5	262.4	250.7	236.7	215.6	206.2	199.2	187.5	173.4
22.5°	278.8	278.8	278.8	274.2	267.1	250.7	229.6	217.9	206.2	192.1	178.1
25°	281.2	283.5	283.5	281.2	278.8	267.1	243.7	229.6	215.6	196.8	182.8
27.5°	285.9	285.9	285.9	285.9	285.9	278.8	257.8	243.7	229.6	201.5	187.5
30°	292.9	292.9	292.9	292.9	292.9	292.9	276.5	262.4	243.7	208.5	192.1
32.5°	309.3	309.3	307.0	302.3	307.0	309.3	297.6	281.2	262.4	217.9	196.8
35°	342.1	339.8	332.7	318.7	321.0	323.4	321.0	304.6	281.2	227.3	199.2
37.5°	389.0	389.0	374.9	349.1	339.8	337.4	335.1	323.4	292.9	232.0	199.2
40°	421.8	421.8	414.8	381.9	363.2	349.1	351.5	339.8	314.0	241.4	203.9
42.5°	447.6	445.2	442.9	410.1	393.7	367.9	370.2	358.5	332.7	250.7	208.5
45°	480.4	468.6	456.9	433.5	421.8	398.4	389.0	379.6	356.2	262.4	213.2
47.5°	492.1	480.4	471.0	461.6	445.2	428.8	410.1	403.0	377.3	274.2	217.9
50°	494.4	485.1	485.1	471.0	464.0	454.6	435.8	428.8	400.7	288.2	220.3
52.5°	485.1	487.4	494.4	480.4	480.4	473.3	464.0	452.2	426.5	299.9	227.3
55°	485.1	485.1	501.5	489.7	496.8	489.7	496.8	487.4	452.2	311.7	234.3
57.5°	464.0	461.6	480.4	501.5	513.2	506.1	524.9	524.9	482.7	318.7	236.7
60°	421.8	414.8	433.5	489.7	513.2	513.2	538.9	548.3	508.5	318.7	232.0
62.5°	374.9	370.2	386.6	449.9	499.1	499.1	524.9	541.3	515.5	314.0	222.6
65°	307.0	304.6	337.4	407.7	482.7	482.7	487.4	503.8	492.1	302.3	208.5
67.5°	234.3	236.7	269.5	374.9	468.6	461.6	442.9	452.2	447.6	274.2	182.8
70°	178.1	185.1	208.5	337.4	438.2	424.1	389.0	379.6	367.9	236.7	147.6
72.5°	138.3	142.9	164.0	281.2	396.0	363.2	328.1	309.3	285.9	199.2	117.2
75°	110.1	110.1	126.5	213.2	335.1	304.6	255.4	234.3	215.6	159.3	91.4
77.5°	77.3	82.0	93.7	147.6	234.3	241.4	182.8	168.7	152.3	119.5	68.0
80°	51.6	53.9	63.3	96.1	142.9	168.7	128.9	110.1	96.1	75.0	46.9
82.5°	39.8	39.8	46.9	68.0	89.0	107.8	79.7	65.6	53.9	46.9	30.5
85°	28.1	28.1	35.1	46.9	56.2	63.3	49.2	39.8	32.8	30.5	18.7
87.5°	14.1	14.1	21.1	28.1	30.5	35.1	25.8	21.1	16.4	14.1	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



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CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	159.3	157.0	152.3	147.6	145.3	140.6	138.3	133.6	133.6	131.2	131.2
5°	159.3	154.7	142.9	133.6	124.2	117.2	110.1	105.4	100.8	100.8	100.8
7.5°	159.3	152.3	135.9	119.5	107.8	98.4	91.4	86.7	82.0	82.0	82.0
10°	157.0	147.6	126.5	107.8	93.7	84.4	77.3	75.0	72.6	70.3	70.3
12.5°	157.0	145.3	119.5	96.1	82.0	75.0	68.0	65.6	63.3	63.3	63.3
15°	157.0	142.9	112.5	89.0	75.0	65.6	63.3	60.9	58.6	58.6	58.6
17.5°	157.0	140.6	105.4	79.7	68.0	60.9	58.6	56.2	53.9	53.9	53.9
20°	159.3	140.6	100.8	75.0	63.3	56.2	53.9	51.6	51.6	51.6	51.6
22.5°	164.0	142.9	96.1	70.3	58.6	53.9	51.6	49.2	49.2	46.9	46.9
25°	166.4	142.9	91.4	65.6	53.9	49.2	46.9	46.9	46.9	44.5	44.5
27.5°	168.7	145.3	89.0	63.3	51.6	49.2	44.5	44.5	42.2	42.2	42.2
30°	173.4	145.3	84.4	58.6	49.2	46.9	42.2	42.2	39.8	39.8	39.8
32.5°	180.4	147.6	82.0	56.2	46.9	44.5	39.8	39.8	37.5	37.5	37.5
35°	180.4	147.6	77.3	51.6	44.5	42.2	37.5	37.5	35.1	35.1	35.1
37.5°	185.1	150.0	75.0	49.2	42.2	39.8	37.5	35.1	32.8	32.8	32.8
40°	189.8	154.7	75.0	46.9	39.8	37.5	35.1	32.8	32.8	32.8	32.8
42.5°	194.5	157.0	72.6	46.9	37.5	35.1	32.8	30.5	30.5	30.5	30.5
45°	199.2	159.3	72.6	44.5	37.5	32.8	30.5	30.5	28.1	28.1	28.1
47.5°	203.9	164.0	70.3	42.2	35.1	32.8	30.5	28.1	28.1	28.1	28.1
50°	208.5	166.4	65.6	39.8	32.8	30.5	28.1	25.8	25.8	25.8	25.8
52.5°	215.6	171.1	60.9	37.5	30.5	28.1	25.8	25.8	23.4	23.4	23.4
55°	220.3	173.4	56.2	35.1	28.1	25.8	23.4	23.4	21.1	21.1	21.1
57.5°	225.0	173.4	51.6	30.5	25.8	23.4	23.4	21.1	18.7	16.4	16.4
60°	222.6	173.4	46.9	28.1	23.4	21.1	21.1	18.7	16.4	14.1	14.1
62.5°	213.2	166.4	42.2	23.4	21.1	18.7	18.7	16.4	14.1	14.1	11.7
65°	194.5	145.3	35.1	18.7	18.7	18.7	16.4	14.1	11.7	11.7	11.7
67.5°	166.4	117.2	30.5	16.4	16.4	16.4	16.4	11.7	11.7	9.4	9.4
70°	135.9	86.7	25.8	14.1	14.1	14.1	14.1	11.7	9.4	9.4	9.4
72.5°	100.8	63.3	21.1	11.7	14.1	11.7	11.7	9.4	9.4	9.4	7.0
75°	75.0	46.9	18.7	9.4	11.7	9.4	9.4	9.4	7.0	7.0	7.0
77.5°	53.9	35.1	16.4	7.0	9.4	9.4	9.4	7.0	7.0	7.0	7.0
80°	35.1	23.4	9.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	23.4	14.1	7.0	4.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	11.7	7.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	2.3	2.3	0.0	0.0	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

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

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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			

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			

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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)