

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: P869200

Luminaire Tested: **EMM2-HTN-SA3A-AMB-U-T2U-HSS**

Issue Date: 08/22/2024

Test Information

Test Method: LM-79-08
Report Number: P869200
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-T2U-HSS
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 46W 0CRI 1540K FIXTURE
w/ TYPE II URBAN DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (30) 1540K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

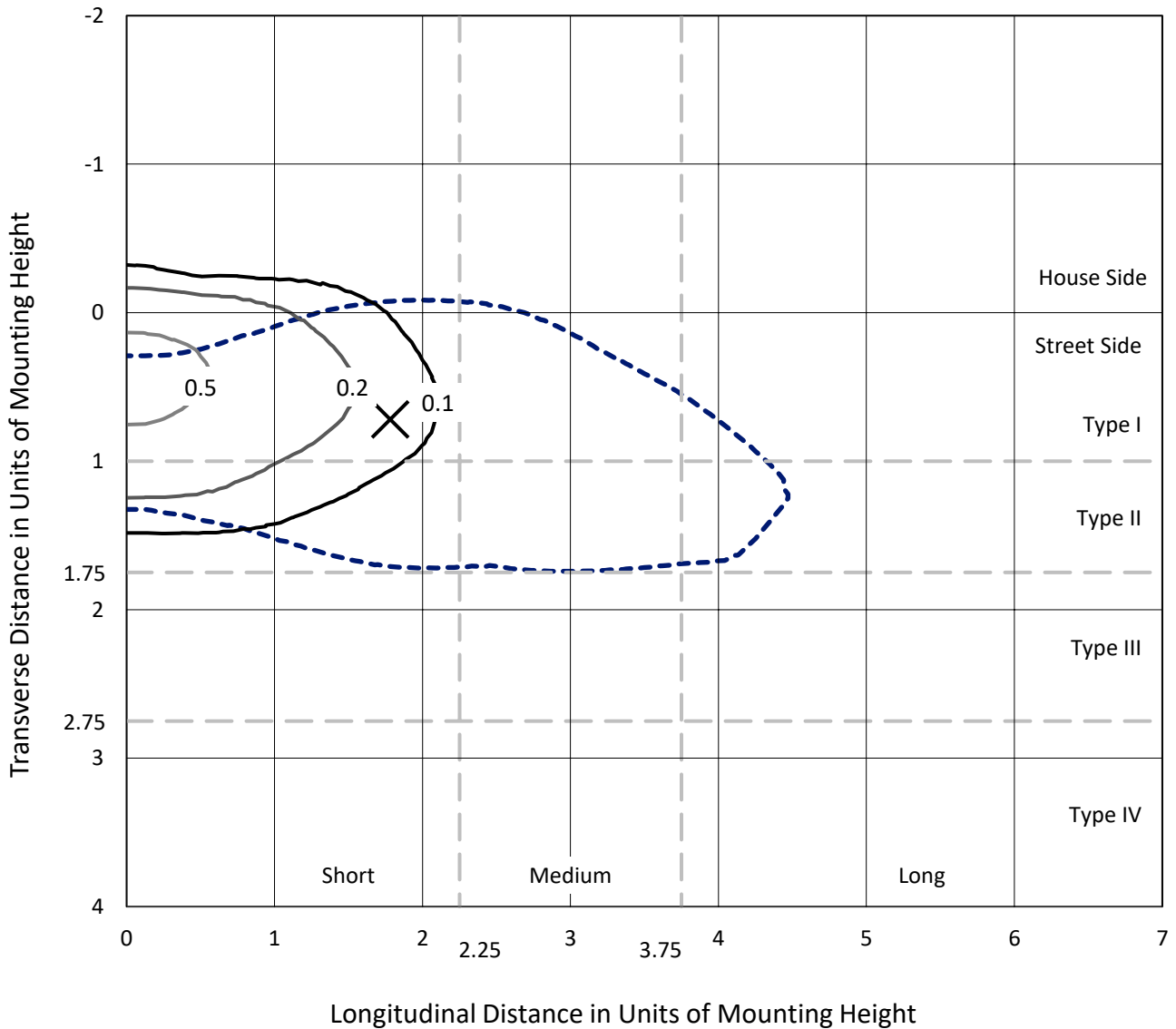
Lumens per Lamp: N/A
Luminaire Lumens: 958.5 lumens
Efficiency: N/A
Efficacy: 20.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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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 CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

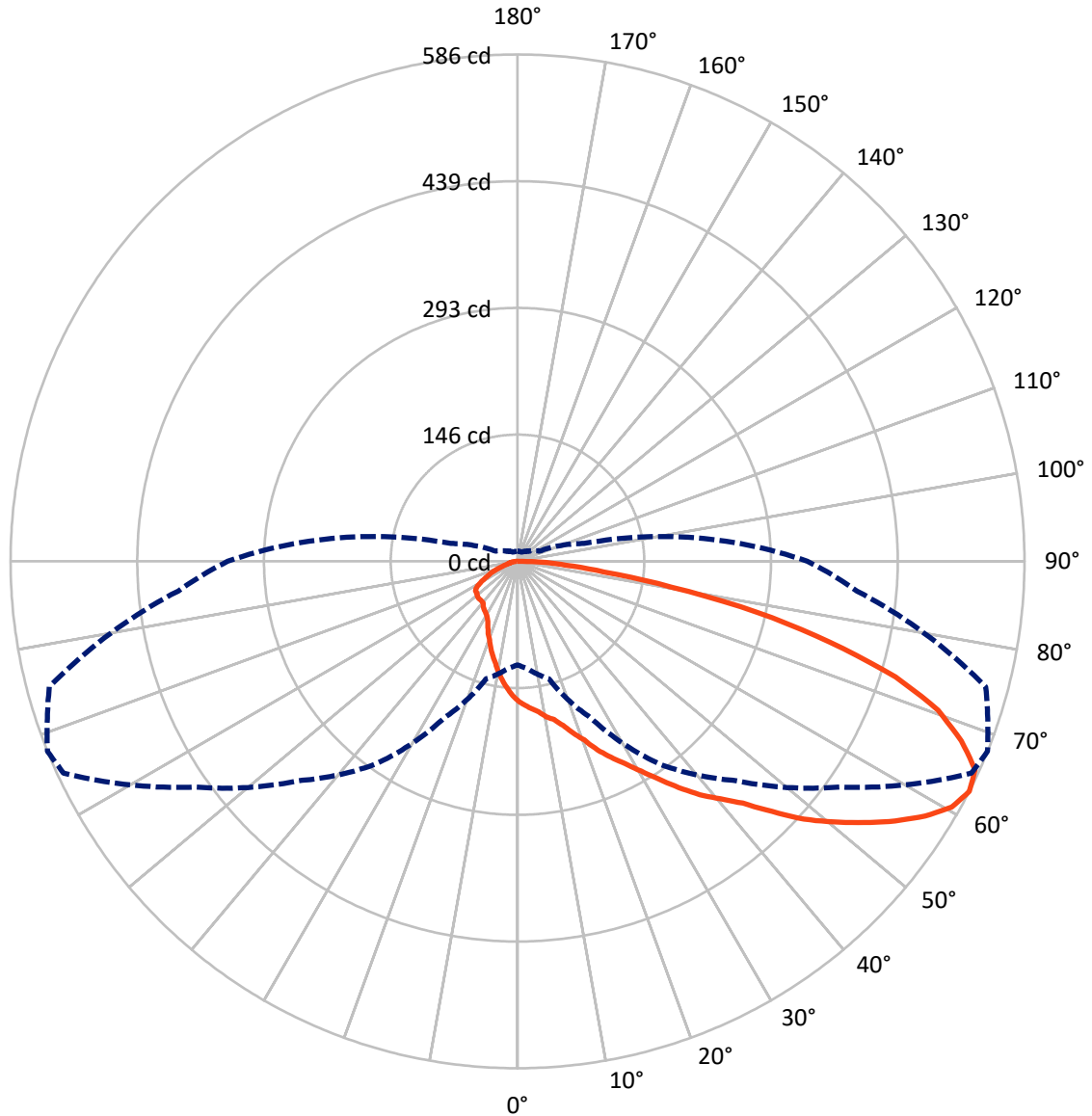
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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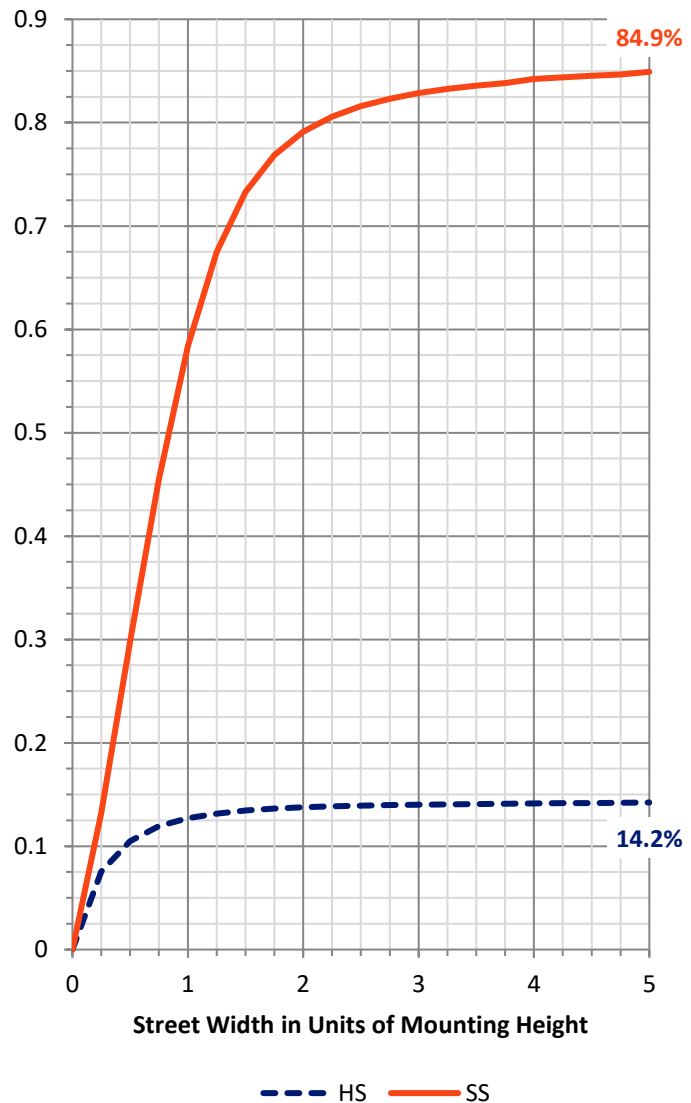
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	138.1	0.0	138.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	820.4	0.0	820.4
	% Fixture	85.6	0.0	85.6
Total	Lumens	958.5	0.0	958.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	1.5
10°-20°	45.9	4.8
20°-30°	82.4	8.6
30°-40°	126.3	13.2
40°-50°	177.0	18.5
50°-60°	200.6	20.9
60°-70°	180.1	18.8
70°-80°	106.2	11.1
80°-90°	25.2	2.6
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°	958.5	100.0
0°-180°	958.5	100.0



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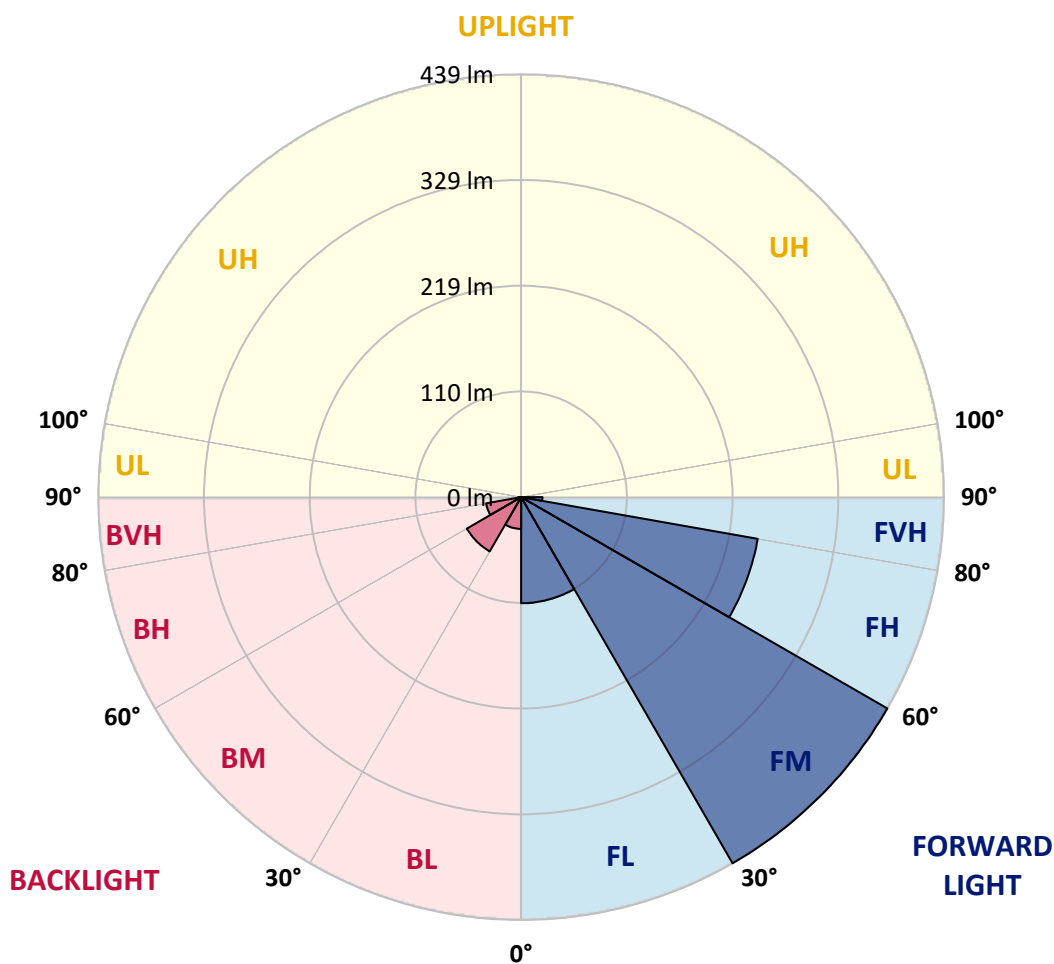
CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.1	11.5			
FM (30°-60°)	438.9	45.8			
FH (60°-80°)	249.3	26.0			G0/660
FVH (80°-90°)	22.1	2.3			G1/100
BL (0°-30°)	33.0	3.4	B0/110		
BM (30°-60°)	65.0	6.8	B0/220		
BH (60°-80°)	36.9	3.9	B0/110		G0/110
BVH (80°-90°)	3.2	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 II Short





REPORT NUMBER: P869200

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7
2.5°	175.7	175.7	175.7	175.7	173.4	173.4	171.1	168.7	166.4	166.4	164.0
5°	185.1	185.1	185.1	185.1	182.8	180.4	178.1	173.4	171.1	168.7	164.0
7.5°	203.9	203.9	203.9	196.8	194.5	189.8	185.1	178.1	175.7	173.4	166.4
10°	229.6	232.0	227.3	222.6	213.2	203.9	192.2	185.1	182.8	175.7	168.7
12.5°	257.8	255.4	253.1	246.0	234.3	222.6	206.2	192.2	187.5	180.4	171.1
15°	283.5	283.5	281.2	269.5	257.8	241.4	222.6	203.9	196.8	187.5	173.4
17.5°	311.7	311.7	304.6	292.9	278.9	257.8	239.0	215.6	208.6	192.2	178.1
20°	328.1	328.1	325.7	316.3	302.3	278.9	255.4	229.6	220.3	201.5	180.4
22.5°	335.1	335.1	335.1	330.4	318.7	299.9	271.8	246.0	236.7	210.9	187.5
25°	335.1	335.1	337.4	339.8	335.1	318.7	292.9	260.1	250.7	222.6	192.2
27.5°	330.4	330.4	335.1	337.4	339.8	332.8	311.7	276.5	264.8	236.7	199.2
30°	339.8	339.8	339.8	339.8	344.5	344.5	328.1	292.9	281.2	250.7	206.2
32.5°	363.2	363.2	363.2	356.2	351.5	353.8	344.5	311.7	299.9	267.1	215.6
35°	382.0	379.6	382.0	382.0	370.2	365.6	360.9	330.4	321.0	290.6	229.6
37.5°	396.0	398.4	398.4	400.7	396.0	386.6	377.3	353.8	342.1	309.3	243.7
40°	405.4	407.7	414.8	417.1	412.4	407.7	398.4	372.6	360.9	325.7	253.1
42.5°	407.7	414.8	426.5	433.5	421.8	419.5	414.8	393.7	382.0	351.5	267.1
45°	405.4	407.7	431.2	433.5	428.8	428.8	435.9	419.5	412.4	379.6	283.5
47.5°	389.0	389.0	403.1	421.8	424.1	435.9	454.6	449.9	445.2	410.1	304.6
50°	358.5	356.2	382.0	400.7	412.4	438.2	471.0	480.4	473.4	440.5	323.4
52.5°	297.6	299.9	332.8	377.3	398.4	435.9	482.7	508.5	501.5	468.7	339.8
55°	248.4	250.7	283.5	342.1	382.0	426.5	492.1	534.3	529.6	494.4	358.5
57.5°	196.8	201.5	232.0	292.9	353.8	403.1	494.4	557.7	555.4	522.6	374.9
60°	152.3	157.0	180.4	246.0	323.4	384.3	482.7	571.8	576.5	546.0	386.6
62.5°	119.5	124.2	140.6	199.2	285.9	358.5	454.6	578.8	585.8	560.1	393.7
65°	96.1	98.4	110.1	159.3	250.7	328.1	419.5	557.7	581.1	560.1	393.7
67.5°	77.3	82.0	91.4	124.2	210.9	290.6	374.9	520.2	553.0	550.7	379.6
70°	65.6	65.6	75.0	98.4	173.4	241.4	321.0	468.7	515.5	520.2	344.5
72.5°	53.9	53.9	60.9	79.7	140.6	192.2	264.8	403.1	456.9	473.4	299.9
75°	46.9	46.9	51.6	65.6	110.1	147.6	201.5	323.4	372.6	400.7	246.0
77.5°	39.8	39.8	44.5	51.6	77.3	110.1	154.7	243.7	283.5	309.3	185.1
80°	32.8	32.8	37.5	42.2	56.2	72.6	103.1	161.7	180.4	194.5	119.5
82.5°	30.5	30.5	30.5	35.1	42.2	49.2	65.6	89.0	100.8	112.5	75.0
85°	23.4	23.4	23.4	28.1	30.5	35.1	42.2	51.6	56.2	68.0	44.5
87.5°	14.1	14.1	14.1	16.4	18.7	21.1	23.4	25.8	28.1	32.8	18.7
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: P869200

CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7
2.5°	161.7	161.7	157.0	154.7	152.3	150.0	147.6	145.3	142.9	145.3	142.9
5°	161.7	159.3	152.3	145.3	138.3	131.2	126.5	121.9	119.5	117.2	117.2
7.5°	161.7	157.0	147.6	135.9	124.2	114.8	105.4	98.4	96.1	93.7	93.7
10°	161.7	154.7	140.6	126.5	110.1	98.4	89.0	82.0	77.3	75.0	75.0
12.5°	164.0	154.7	135.9	114.8	96.1	84.4	72.6	65.6	63.3	60.9	60.9
15°	164.0	154.7	131.2	105.4	84.4	70.3	60.9	56.2	53.9	51.6	51.6
17.5°	166.4	154.7	126.5	96.1	72.6	60.9	53.9	49.2	46.9	44.5	44.5
20°	168.7	154.7	119.5	86.7	63.3	51.6	46.9	42.2	39.8	39.8	39.8
22.5°	173.4	157.0	114.8	79.7	56.2	46.9	42.2	39.8	37.5	37.5	37.5
25°	178.1	157.0	110.1	70.3	51.6	42.2	37.5	35.1	35.1	32.8	32.8
27.5°	180.4	159.3	105.4	63.3	44.5	37.5	35.1	32.8	32.8	32.8	32.8
30°	187.5	161.7	103.1	58.6	42.2	35.1	32.8	30.5	30.5	30.5	30.5
32.5°	196.8	168.7	100.8	56.2	39.8	32.8	30.5	28.1	28.1	28.1	28.1
35°	203.9	173.4	100.8	53.9	37.5	30.5	28.1	28.1	28.1	28.1	28.1
37.5°	215.6	182.8	98.4	51.6	37.5	30.5	28.1	25.8	25.8	25.8	25.8
40°	220.3	185.1	93.7	49.2	37.5	28.1	25.8	25.8	25.8	23.4	23.4
42.5°	232.0	192.2	91.4	49.2	35.1	28.1	23.4	23.4	23.4	23.4	23.4
45°	248.4	203.9	91.4	49.2	35.1	28.1	23.4	21.1	21.1	21.1	21.1
47.5°	262.5	215.6	91.4	49.2	35.1	25.8	23.4	21.1	21.1	18.7	18.7
50°	276.5	225.0	89.0	49.2	32.8	25.8	21.1	18.7	18.7	18.7	18.7
52.5°	292.9	232.0	89.0	46.9	32.8	23.4	18.7	18.7	16.4	16.4	16.4
55°	309.3	239.0	89.0	46.9	30.5	21.1	18.7	16.4	16.4	14.1	14.1
57.5°	321.0	246.0	86.7	44.5	28.1	21.1	16.4	16.4	14.1	14.1	14.1
60°	330.4	250.7	82.0	37.5	23.4	18.7	16.4	14.1	11.7	11.7	11.7
62.5°	335.1	250.7	79.7	28.1	21.1	16.4	14.1	11.7	11.7	11.7	11.7
65°	330.4	241.4	72.6	21.1	18.7	16.4	14.1	11.7	9.4	9.4	9.4
67.5°	318.7	229.6	60.9	18.7	16.4	14.1	11.7	9.4	9.4	9.4	9.4
70°	285.9	206.2	44.5	14.1	14.1	11.7	11.7	9.4	7.0	7.0	7.0
72.5°	250.7	173.4	30.5	11.7	11.7	9.4	9.4	7.0	7.0	7.0	7.0
75°	199.2	131.2	21.1	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0
77.5°	142.9	84.4	16.4	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7
80°	89.0	49.2	11.7	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7
82.5°	51.6	28.1	9.4	4.7	4.7	4.7	7.0	7.0	7.0	4.7	4.7
85°	25.8	14.1	7.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	9.4	4.7	2.3	2.3	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

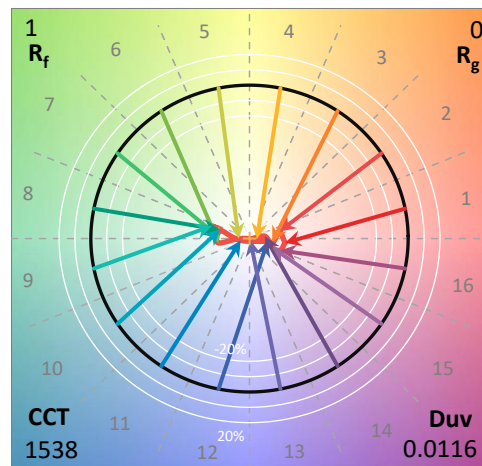
Test Information

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
 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

REPORT NUMBER: SP1-2407-157-1

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



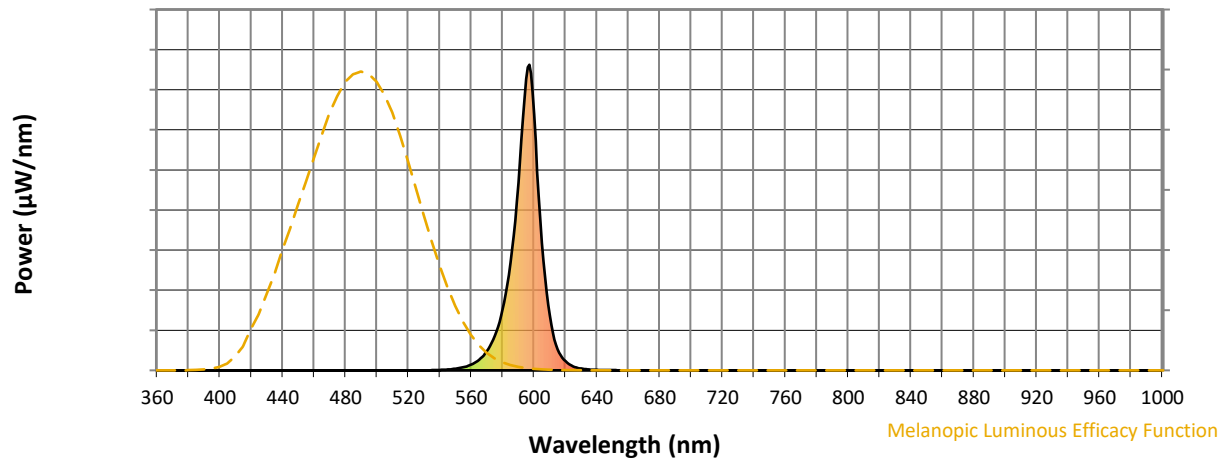
Scotopic Lumens: NR

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

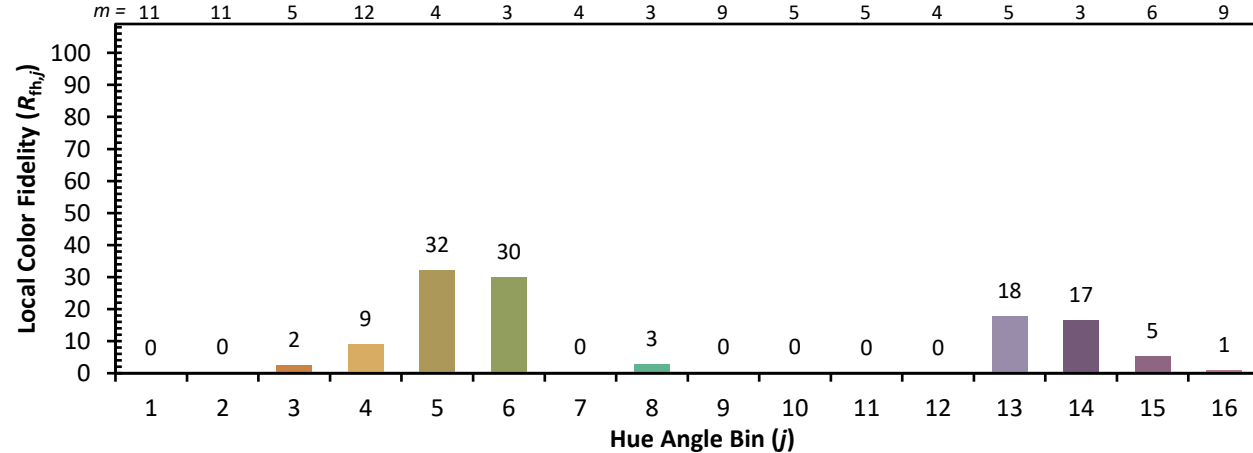
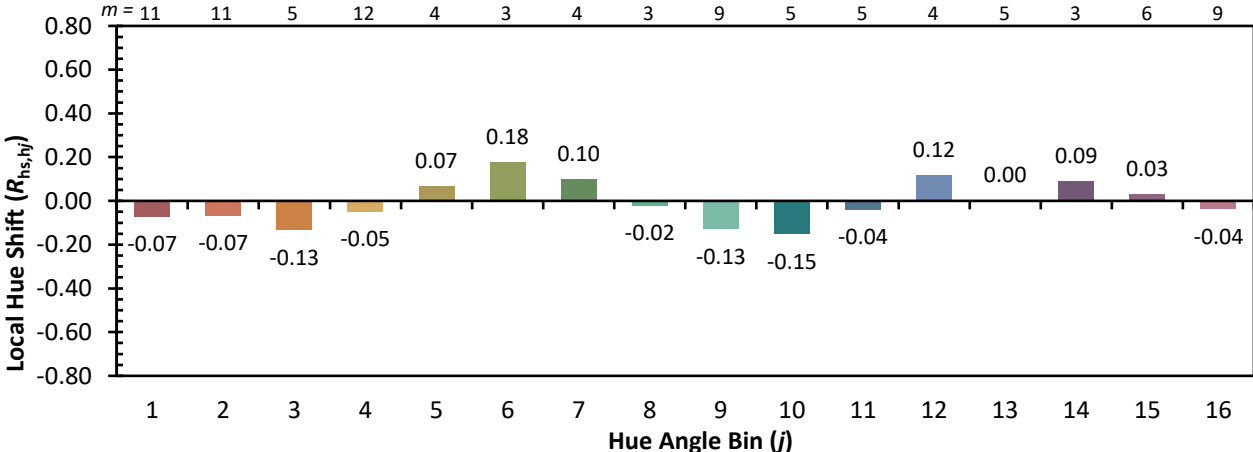
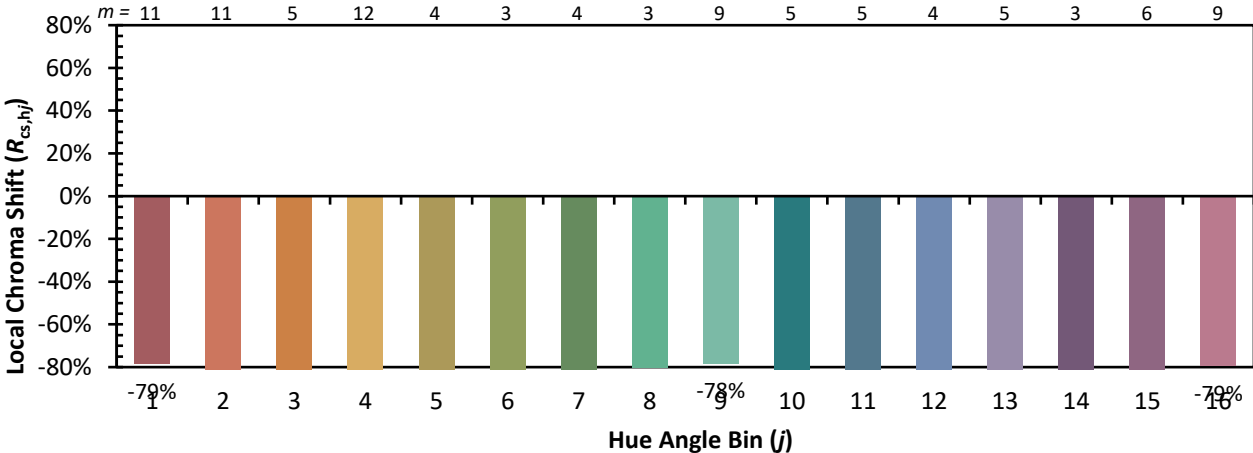


Individual Sample Fidelity Index ($R_{f,i}$)

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)