

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: P868343

Luminaire Tested: **MEM2-HTN-SA-15-AMB-U-T2R**

Issue Date: 08/22/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P868343  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/22/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HTN-SA-15-AMB-U-T2R  
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 15W 0CRI 1540K FIXTURE  
w/ TYPE II ROADWAY DISTRIBUTION OPTIC  
Light Source: (10) 1540K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

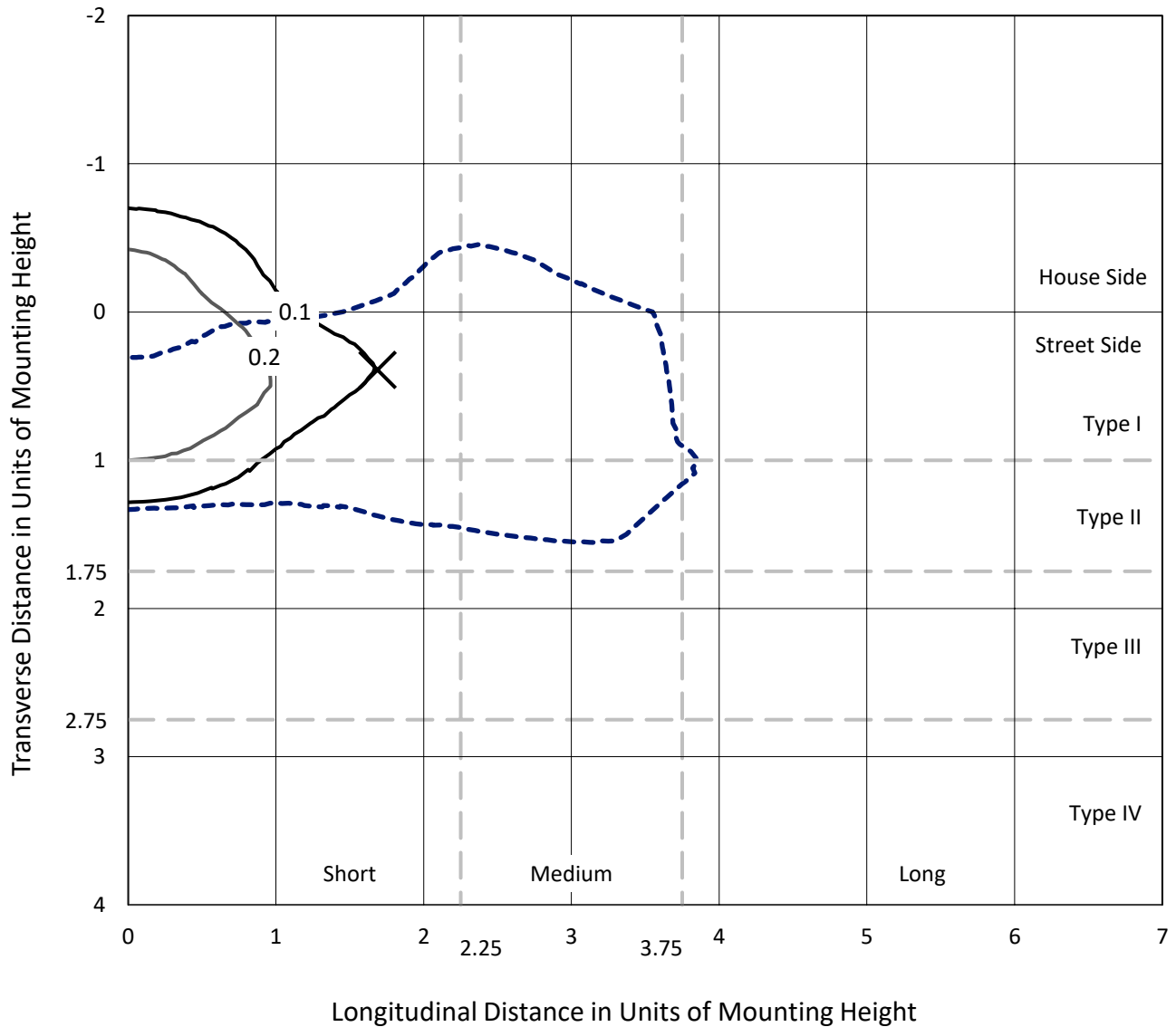
Lumens per Lamp: N/A  
Luminaire Lumens: 602.6 lumens  
Efficiency: N/A  
Efficacy: 37.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

Input Watts (W): 16  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.98  
Total Harmonic Distortion (THDi): 9.98%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P868343  
 CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

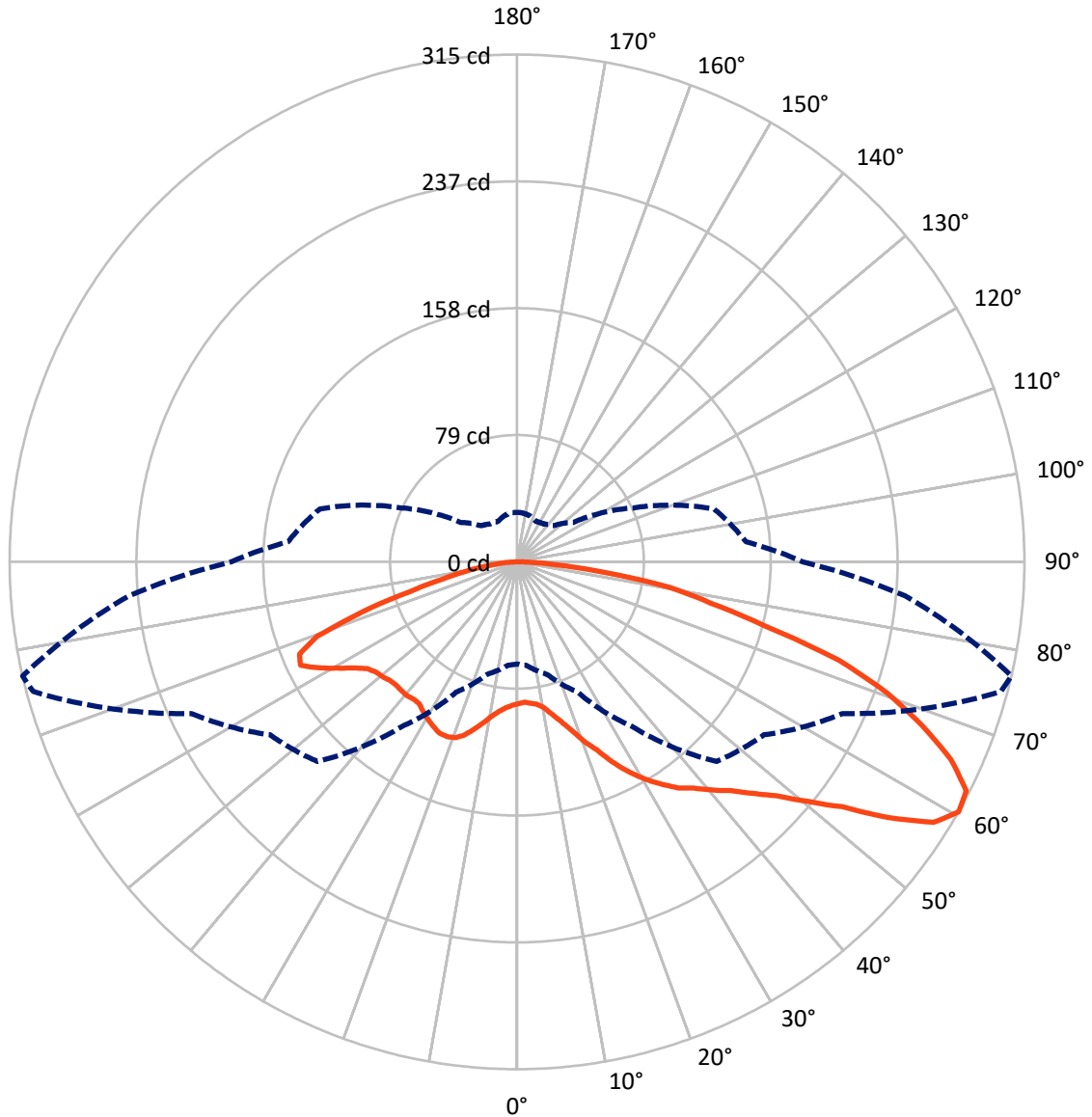
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P868343  
CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

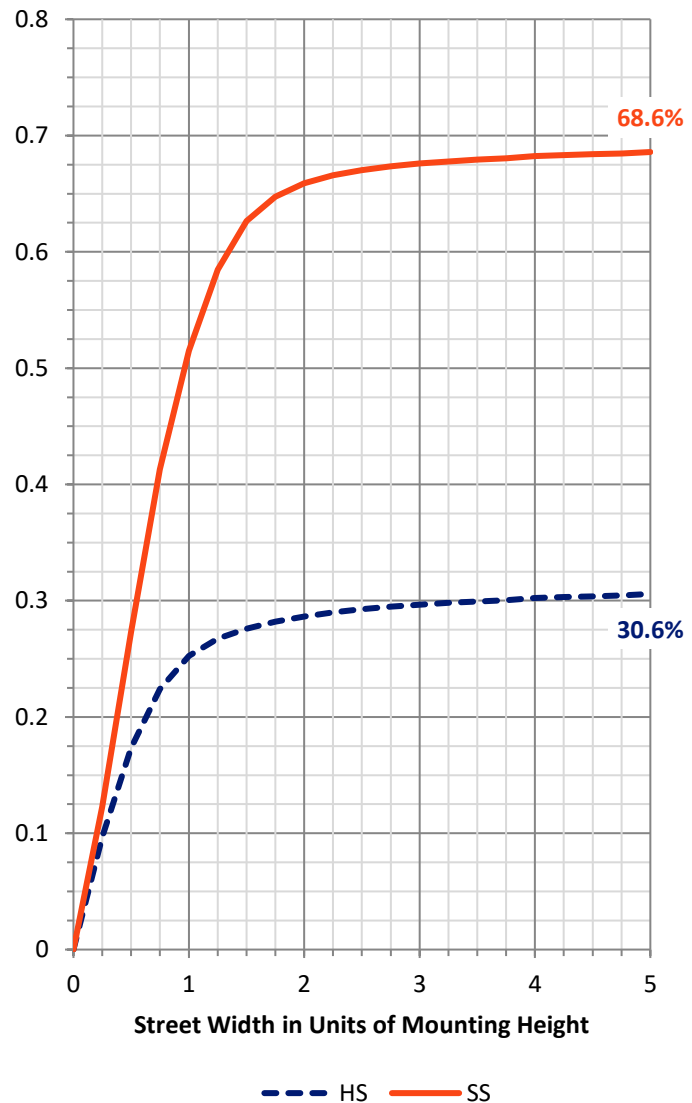
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	187.4	0.0	187.4
	% Fixture	31.1	0.0	31.1
<b>Street Side</b>	Lumens	415.2	0.0	415.2
	% Fixture	68.9	0.0	68.9
<b>Total</b>	Lumens	602.6	0.0	602.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.0	1.5
10°-20°	33.4	5.5
20°-30°	63.5	10.5
30°-40°	95.5	15.9
40°-50°	116.5	19.3
50°-60°	113.6	18.8
60°-70°	99.9	16.6
70°-80°	57.3	9.5
80°-90°	13.9	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°	602.6	100.0
0°-180°	602.6	100.0



REPORT NUMBER: P868343

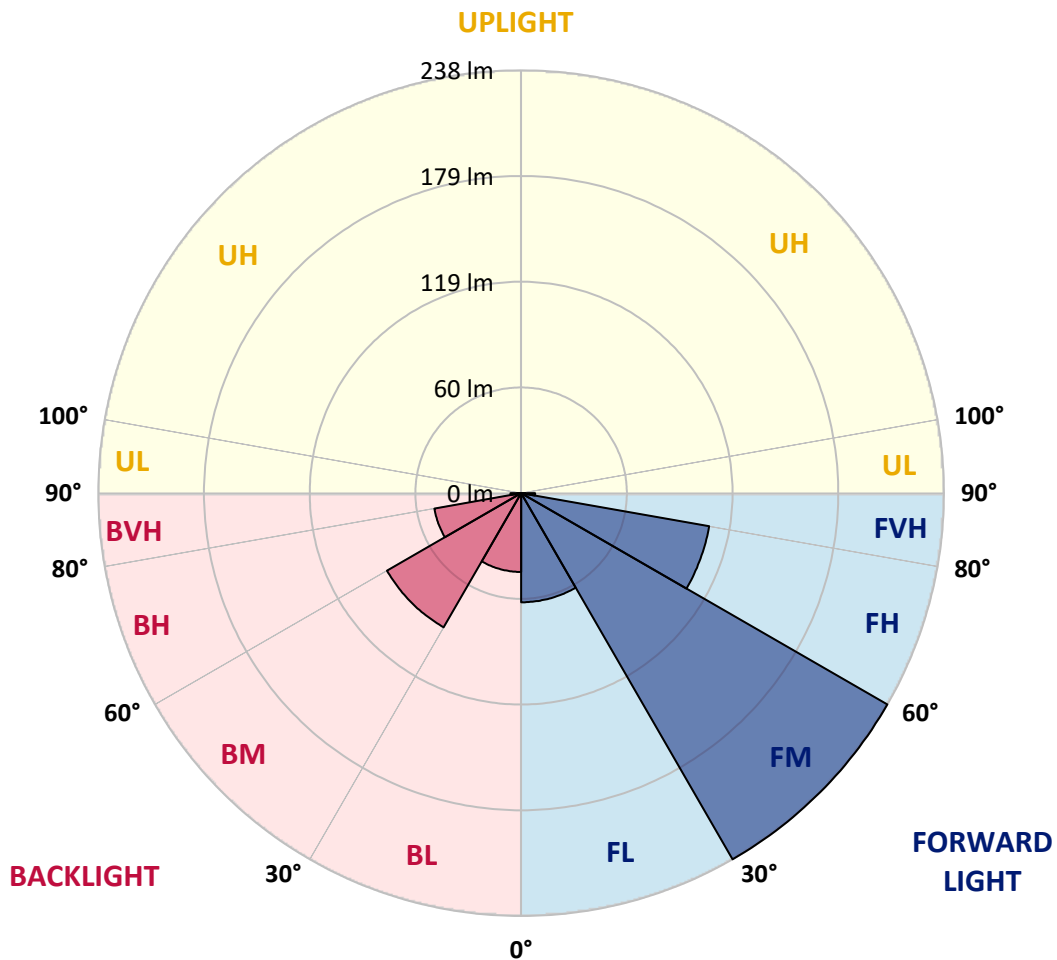
CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	61.5	10.2			
FM (30°-60°)	238.3	39.5			
FH (60°-80°)	107.6	17.9			G0/660
FVH (80°-90°)	7.8	1.3			G0/10
BL (0°-30°)	44.4	7.4	B0/110		
BM (30°-60°)	87.3	14.5	B0/220		
BH (60°-80°)	49.7	8.2	B0/110		G0/110
BVH (80°-90°)	6.0	1.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





REPORT NUMBER: P868343

CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	86.3	86.3	86.3	86.3	86.3	87.3	87.3	87.3	87.3	87.3	88.3
5°	89.3	89.3	88.3	88.3	88.3	88.3	87.3	87.3	88.3	88.3	89.3
7.5°	96.2	96.2	96.2	94.2	93.2	91.2	90.2	89.3	89.3	89.3	90.2
10°	110.1	110.1	109.1	105.1	102.2	98.2	95.2	93.2	92.2	92.2	93.2
12.5°	129.9	128.9	126.9	122.0	115.0	110.1	103.1	99.2	97.2	97.2	97.2
15°	148.8	147.8	145.8	139.8	132.9	123.0	114.1	107.1	104.1	103.1	103.1
17.5°	160.7	160.7	159.7	155.7	149.8	138.8	126.9	116.0	110.1	110.1	110.1
20°	170.6	169.6	168.6	165.6	161.7	154.7	141.8	127.9	119.0	119.0	117.0
22.5°	182.5	181.5	177.5	173.6	170.6	166.6	155.7	139.8	128.9	126.9	124.0
25°	197.4	195.4	190.4	184.5	179.5	176.5	166.6	151.7	139.8	137.9	130.9
27.5°	212.2	210.3	204.3	197.4	189.4	181.5	174.5	163.6	150.7	147.8	136.9
30°	224.1	222.2	218.2	210.3	200.3	191.4	182.5	173.6	159.7	156.7	142.8
32.5°	243.0	242.0	234.1	222.2	214.2	203.3	192.4	183.5	167.6	164.6	147.8
35°	266.8	263.8	257.9	239.0	225.1	215.2	205.3	192.4	175.5	172.6	151.7
37.5°	269.8	268.8	268.8	257.9	241.0	227.1	217.2	204.3	183.5	178.5	154.7
40°	257.9	256.9	259.8	258.8	250.9	240.0	229.1	217.2	191.4	186.5	158.7
42.5°	239.0	239.0	244.0	245.0	245.0	249.9	244.0	229.1	201.3	194.4	157.7
45°	226.1	224.1	226.1	228.1	230.1	243.0	254.9	241.0	212.2	205.3	159.7
47.5°	212.2	211.2	211.2	212.2	214.2	226.1	253.9	258.8	226.1	217.2	164.6
50°	198.4	195.4	195.4	197.4	200.3	204.3	241.0	270.7	244.0	234.1	172.6
52.5°	166.6	168.6	175.5	183.5	191.4	189.4	218.2	268.8	265.8	252.9	183.5
55°	126.0	123.0	136.9	160.7	181.5	182.5	194.4	256.9	290.6	280.7	198.4
57.5°	89.3	90.2	99.2	122.0	162.6	181.5	184.5	239.0	307.4	305.5	218.2
60°	63.5	64.5	72.4	89.3	125.0	175.5	187.4	223.1	311.4	315.4	242.0
62.5°	47.6	47.6	51.6	63.5	89.3	147.8	199.3	221.2	305.5	313.4	262.8
65°	36.7	37.7	39.7	48.6	64.5	103.1	202.3	238.0	290.6	296.5	270.7
67.5°	29.8	30.7	32.7	36.7	46.6	69.4	169.6	261.8	261.8	271.7	258.8
70°	25.8	25.8	26.8	30.7	36.7	49.6	119.0	258.8	237.0	244.0	228.1
72.5°	21.8	22.8	23.8	25.8	29.8	37.7	77.4	205.3	218.2	209.3	186.5
75°	17.9	17.9	19.8	21.8	23.8	29.8	48.6	149.8	174.5	158.7	150.7
77.5°	15.9	15.9	16.9	18.8	20.8	22.8	33.7	91.2	130.9	123.0	112.1
80°	12.9	13.9	13.9	15.9	16.9	17.9	21.8	49.6	92.2	96.2	69.4
82.5°	11.9	11.9	11.9	12.9	13.9	13.9	15.9	25.8	50.6	56.5	35.7
85°	8.9	8.9	8.9	9.9	9.9	9.9	10.9	12.9	22.8	24.8	17.9
87.5°	4.0	4.0	4.0	5.0	5.0	5.0	6.0	5.0	7.9	8.9	6.9
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: P868343  
 CATALOG NUMBER: MEM2-HTN-SA-15-AMB-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	88.3	89.3	89.3	90.2	91.2	91.2	91.2	91.2	92.2	92.2	92.2
5°	89.3	90.2	91.2	93.2	94.2	95.2	96.2	96.2	97.2	97.2	96.2
7.5°	91.2	92.2	94.2	96.2	99.2	100.2	101.2	101.2	101.2	101.2	101.2
10°	94.2	95.2	98.2	101.2	103.1	105.1	106.1	105.1	105.1	105.1	105.1
12.5°	99.2	100.2	103.1	106.1	108.1	110.1	109.1	109.1	108.1	108.1	108.1
15°	105.1	105.1	108.1	111.1	112.1	113.1	111.1	110.1	110.1	109.1	110.1
17.5°	111.1	111.1	113.1	114.1	114.1	112.1	111.1	109.1	109.1	109.1	109.1
20°	116.0	116.0	116.0	114.1	112.1	110.1	109.1	107.1	107.1	108.1	108.1
22.5°	123.0	121.0	116.0	113.1	109.1	107.1	105.1	103.1	103.1	104.1	104.1
25°	127.9	124.0	115.0	110.1	106.1	102.2	100.2	98.2	98.2	98.2	99.2
27.5°	130.9	125.0	112.1	106.1	102.2	98.2	95.2	93.2	91.2	91.2	91.2
30°	133.9	126.0	109.1	103.1	100.2	95.2	90.2	87.3	85.3	84.3	83.3
32.5°	135.9	125.0	106.1	100.2	98.2	93.2	86.3	81.3	78.3	77.4	77.4
35°	137.9	123.0	103.1	99.2	98.2	90.2	82.3	76.4	73.4	71.4	72.4
37.5°	137.9	122.0	103.1	100.2	96.2	87.3	78.3	72.4	69.4	66.4	66.4
40°	138.8	122.0	104.1	100.2	93.2	83.3	75.4	67.4	63.5	60.5	60.5
42.5°	137.9	121.0	104.1	100.2	90.2	79.3	69.4	62.5	58.5	56.5	56.5
45°	136.9	120.0	104.1	98.2	85.3	73.4	62.5	55.5	53.6	52.6	51.6
47.5°	136.9	120.0	105.1	97.2	79.3	64.5	53.6	49.6	47.6	45.6	44.6
50°	140.8	121.0	107.1	96.2	71.4	55.5	45.6	41.7	39.7	38.7	38.7
52.5°	145.8	124.0	108.1	93.2	63.5	48.6	39.7	35.7	34.7	33.7	33.7
55°	153.7	126.9	111.1	88.3	56.5	41.7	34.7	31.7	30.7	30.7	30.7
57.5°	164.6	132.9	118.0	84.3	50.6	35.7	30.7	28.8	29.8	30.7	30.7
60°	177.5	142.8	126.9	79.3	42.6	31.7	28.8	27.8	29.8	30.7	30.7
62.5°	193.4	157.7	135.9	74.4	36.7	27.8	26.8	27.8	28.8	30.7	30.7
65°	212.2	174.5	142.8	68.4	30.7	24.8	25.8	26.8	27.8	30.7	30.7
67.5°	221.2	182.5	137.9	59.5	25.8	22.8	24.8	25.8	27.8	29.8	29.8
70°	206.3	167.6	124.0	45.6	21.8	21.8	22.8	23.8	25.8	28.8	28.8
72.5°	172.6	139.8	92.2	30.7	18.8	19.8	20.8	22.8	24.8	27.8	27.8
75°	148.8	112.1	58.5	20.8	15.9	17.9	19.8	21.8	22.8	25.8	25.8
77.5°	119.0	89.3	36.7	15.9	13.9	15.9	17.9	19.8	20.8	21.8	21.8
80°	78.3	66.4	23.8	11.9	11.9	13.9	15.9	17.9	17.9	19.8	19.8
82.5°	39.7	38.7	15.9	9.9	9.9	11.9	13.9	14.9	15.9	17.9	17.9
85°	17.9	18.8	9.9	6.9	6.9	9.9	10.9	11.9	12.9	11.9	11.9
87.5°	6.0	6.0	5.0	3.0	4.0	5.0	6.0	6.9	6.9	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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

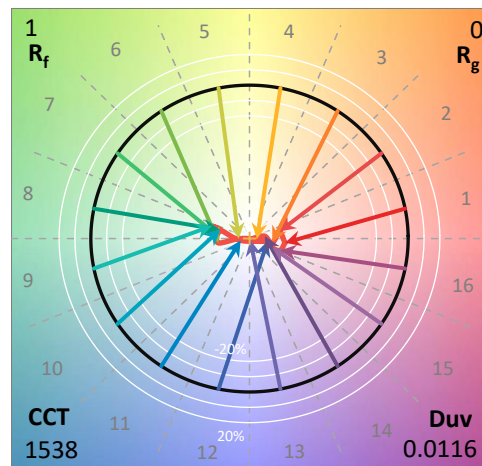
**Test Information**

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

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

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			

REPORT NUMBER: SP1-2407-157-1

**Scotopic Flux vs. Wavelength**



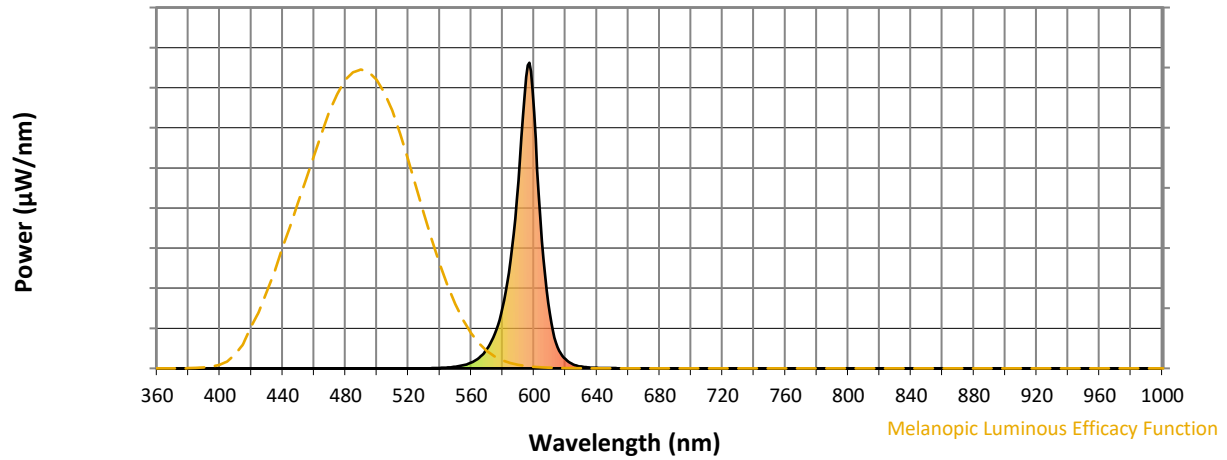
**Scotopic Lumens: NR**

**S/P: 0.22**

$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )
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

**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**

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



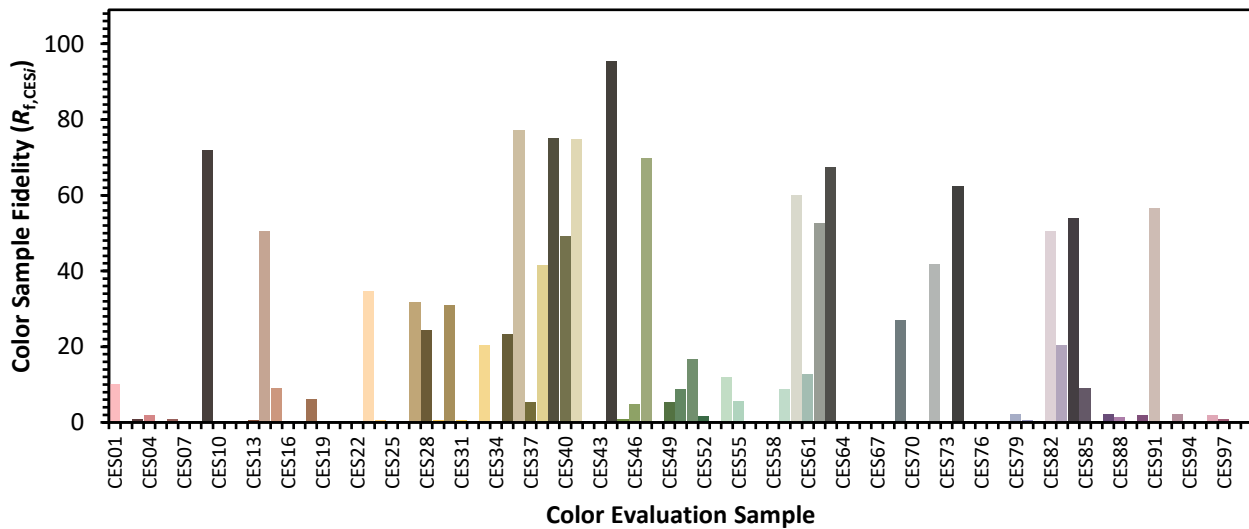
**Color Vector Graphics**





**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)