

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: P870205

Luminaire Tested: **MEM2-HSN-SA-120-830-U-T1**

Issue Date: 09/05/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P870205  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 09/05/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HSN-SA-120-830-U-T1  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 120W 80CRI 3000K  
FITXURE w/ TYPE 1 DISTRIBUTION OPTIC  
Light Source: (20) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

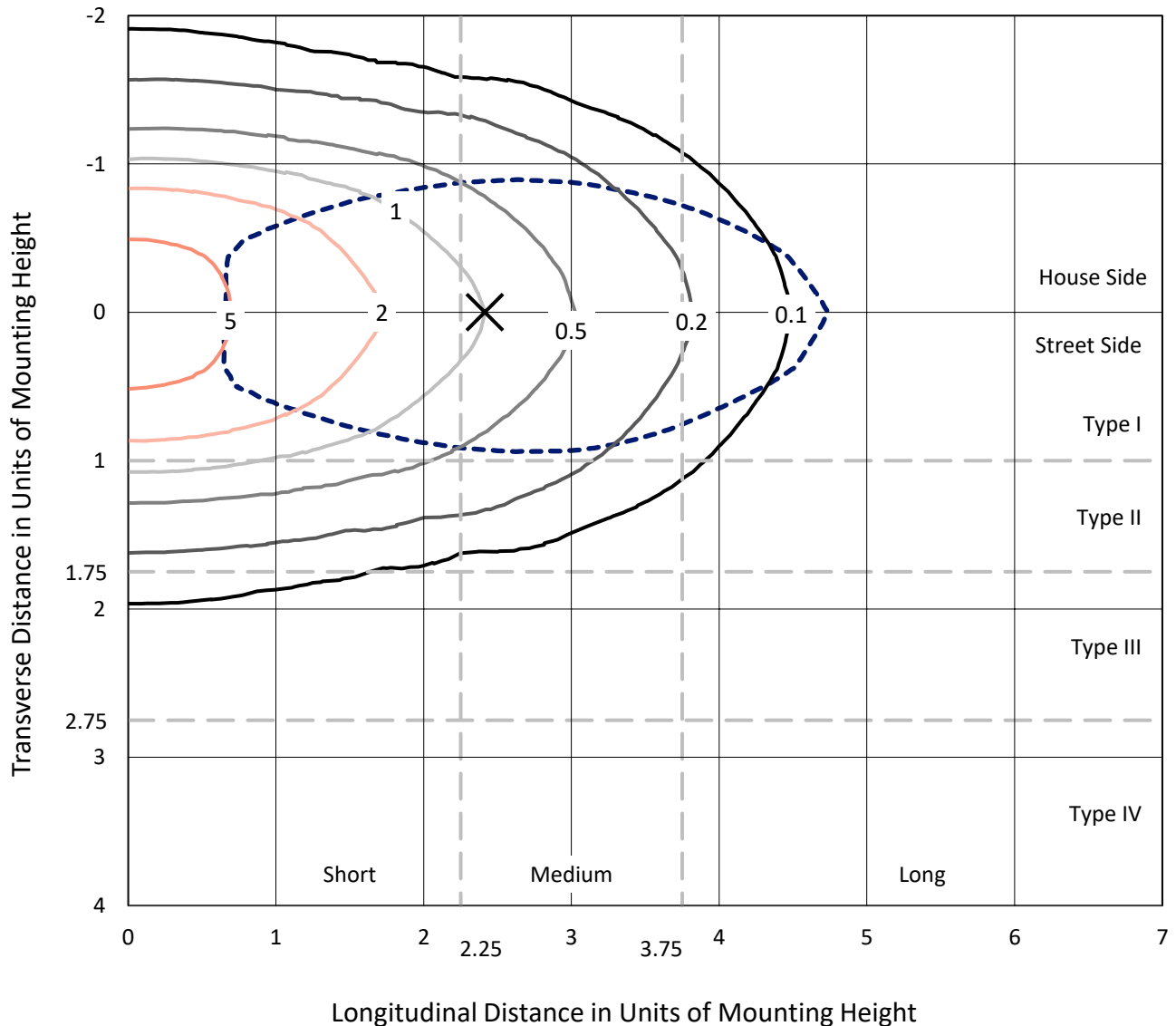
Lumens per Lamp: N/A  
Luminaire Lumens: 12474.6 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 101  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 9.45%  
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

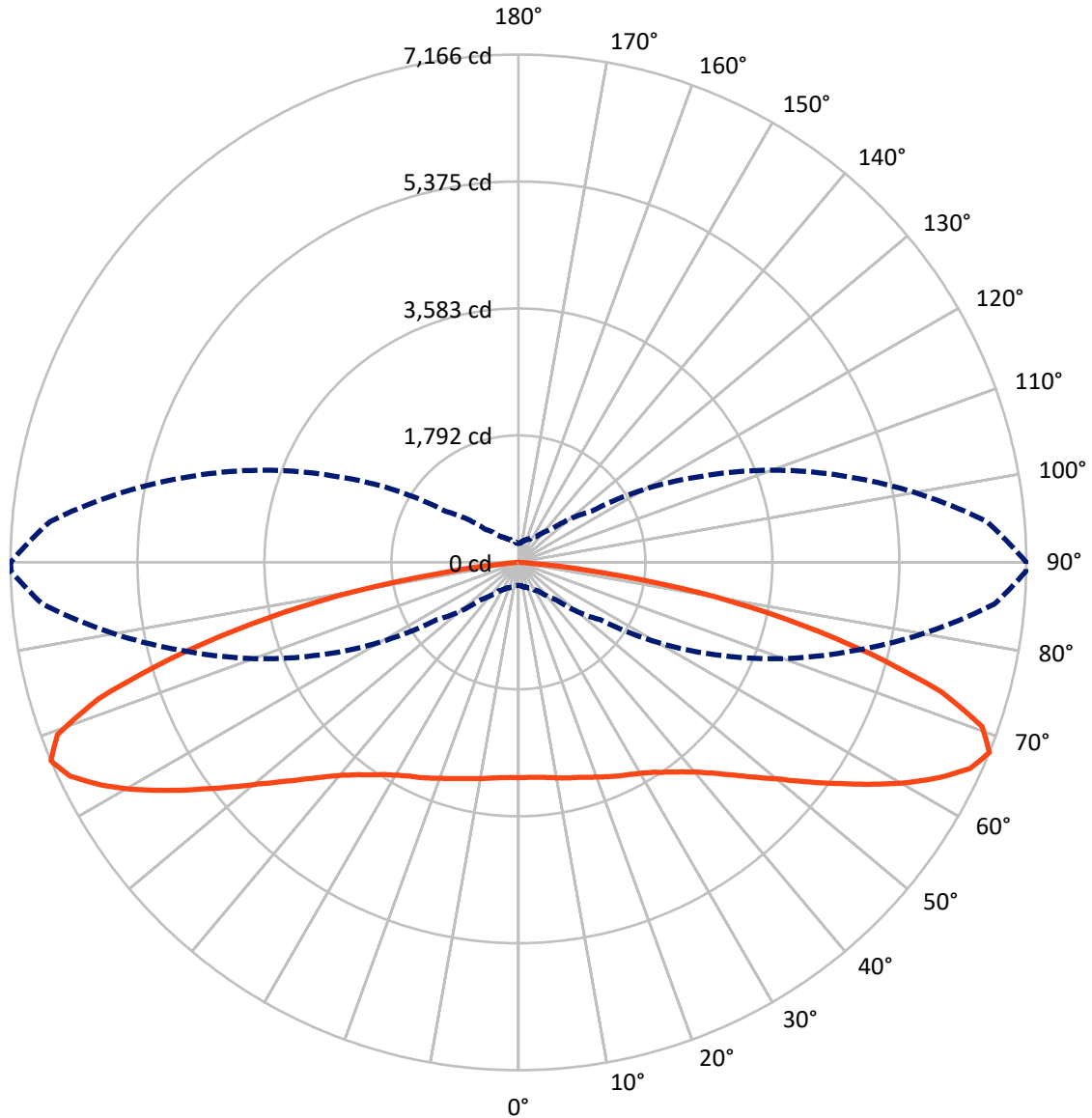
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6126.5	0.0	6126.5
	% Fixture	49.1	0.0	49.1
<b>Street Side</b>	Lumens	6348.1	0.0	6348.1
	% Fixture	50.9	0.0	50.9
<b>Total</b>	Lumens	12474.6	0.0	12474.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	2.3
10°-20°	875.4	7.0
20°-30°	1448.7	11.6
30°-40°	1920.9	15.4
40°-50°	2165.8	17.4
50°-60°	2220.3	17.8
60°-70°	2097.0	16.8
70°-80°	1286.8	10.3
80°-90°	168.4	1.3
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°	12474.6	100.0
0°-180°	12474.6	100.0



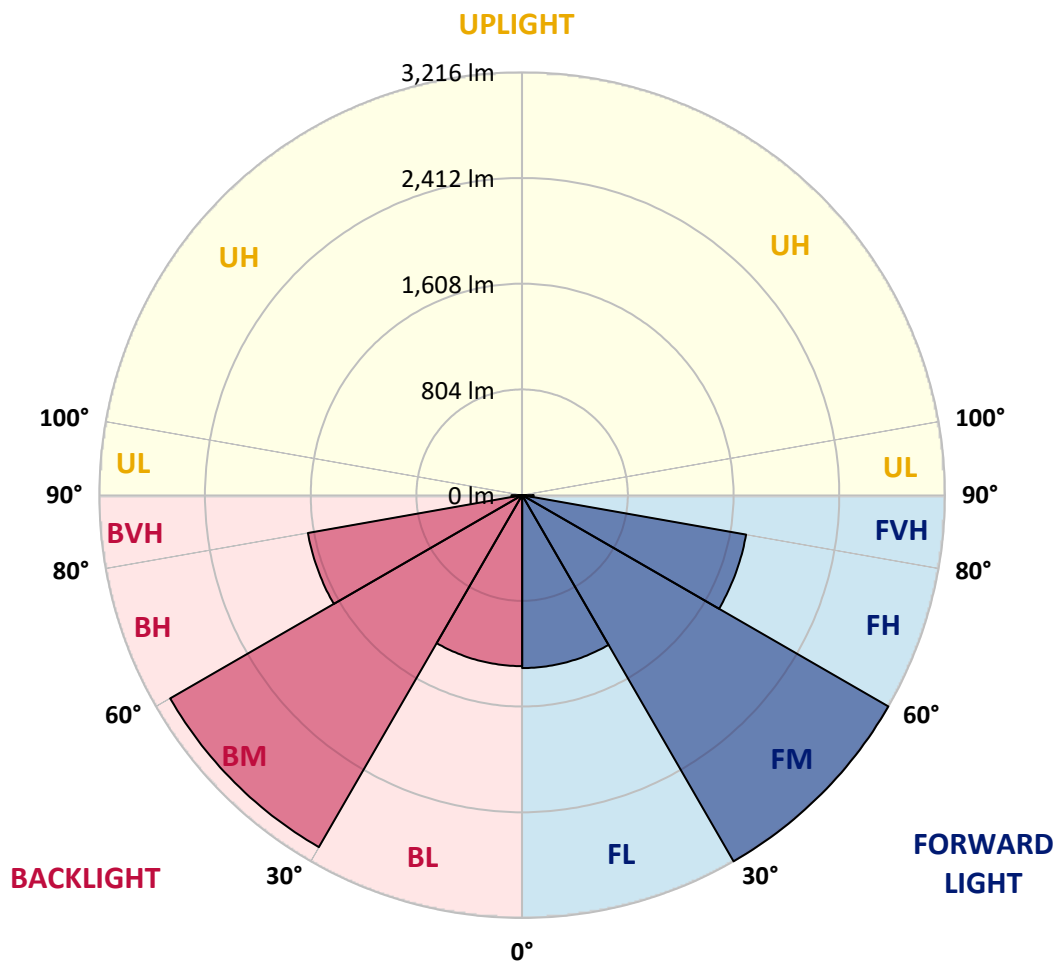
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.2	10.5			
FM (30°-60°)	3215.8	25.8			
FH (60°-80°)	1729.4	13.9			G1/1800
FVH (80°-90°)	87.7	0.7			G1/100
BL (0°-30°)	1300.2	10.4	B3/2500		
BM (30°-60°)	3091.3	24.8	B3/5000		
BH (60°-80°)	1654.4	13.3	B3/2500		G3/2500
BVH (80°-90°)	80.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4
2.5°	3051.4	3051.4	3044.2	3032.2	3029.8	3032.2	3046.6	3039.4	3039.4	3041.8	3039.4
5°	3051.4	3051.4	3046.6	3034.6	3034.6	3034.6	3051.4	3044.2	3046.6	3049.0	3049.0
7.5°	3056.2	3056.2	3051.4	3041.8	3041.8	3041.8	3065.8	3061.0	3061.0	3068.2	3063.4
10°	3068.2	3063.4	3058.6	3061.0	3053.8	3065.8	3077.7	3080.1	3089.7	3094.5	3092.1
12.5°	3068.2	3063.4	3051.4	3065.8	3065.8	3082.5	3099.3	3108.9	3120.8	3120.8	3120.8
15°	3053.8	3049.0	3039.4	3063.4	3072.9	3094.5	3118.4	3132.8	3154.4	3154.4	3152.0
17.5°	3037.0	3029.8	3025.0	3061.0	3082.5	3111.3	3147.2	3166.4	3190.3	3192.7	3187.9
20°	3005.9	3003.5	3005.9	3053.8	3092.1	3132.8	3175.9	3202.3	3233.4	3243.0	3235.8
22.5°	2972.3	2972.3	2981.9	3046.6	3106.5	3161.6	3219.0	3252.6	3283.7	3293.3	3283.7
25°	2926.8	2926.8	2946.0	3022.6	3111.3	3192.7	3259.8	3305.3	3334.0	3343.6	3338.8
27.5°	2857.4	2857.4	2878.9	2974.7	3096.9	3216.6	3302.9	3355.6	3386.7	3396.3	3391.5
30°	2759.2	2754.4	2783.1	2902.9	3070.5	3243.0	3353.2	3408.3	3449.0	3456.2	3449.0
32.5°	2603.5	2610.7	2653.8	2804.7	3027.4	3259.8	3413.0	3477.7	3523.2	3537.6	3532.8
35°	2414.3	2426.3	2486.1	2680.1	2946.0	3257.4	3475.3	3554.4	3614.2	3633.4	3631.0
37.5°	2189.1	2205.9	2280.2	2507.7	2823.8	3221.4	3532.8	3640.6	3719.6	3743.6	3748.4
40°	1942.4	1959.2	2055.0	2306.5	2658.6	3137.6	3566.3	3738.8	3844.2	3892.1	3899.3
42.5°	1681.4	1710.1	1825.1	2069.4	2459.8	3003.5	3566.3	3834.6	3963.9	4052.5	4059.7
45°	1429.9	1453.8	1592.8	1832.3	2246.6	2831.0	3525.6	3930.4	4126.8	4280.1	4275.3
47.5°	1211.9	1219.1	1346.1	1588.0	2009.5	2634.6	3441.8	4016.6	4299.2	4502.8	4545.9
50°	986.8	1003.6	1111.3	1350.8	1767.6	2419.1	3300.5	4071.7	4476.5	4785.5	4840.5
52.5°	828.7	831.1	912.5	1132.9	1516.1	2158.0	3130.4	4086.1	4646.5	5092.0	5159.1
55°	675.4	687.4	756.9	922.1	1274.2	1901.7	2910.1	4064.5	4802.2	5389.0	5513.6
57.5°	579.6	582.0	632.3	764.0	1075.4	1628.7	2665.8	3992.7	4931.6	5717.2	5875.2
60°	498.2	498.2	536.5	637.1	869.4	1362.8	2378.4	3865.7	5003.4	6069.2	6299.2
62.5°	433.5	435.9	469.4	543.7	723.3	1125.7	2062.2	3666.9	5029.8	6409.3	6672.8
65°	392.8	395.2	414.4	464.7	596.4	914.9	1738.9	3425.0	4993.8	6663.2	7005.7
67.5°	325.7	328.1	361.7	400.0	495.8	735.3	1413.1	3089.7	4847.7	6742.3	7161.4
70°	249.1	256.3	301.8	342.5	412.0	586.8	1085.0	2646.6	4498.0	6474.0	6905.1
72.5°	208.4	210.8	244.3	289.8	344.9	459.9	823.9	2083.8	3966.3	5781.8	6260.8
75°	182.0	184.4	203.6	244.3	287.4	368.8	572.4	1439.5	3164.0	4675.3	5113.6
77.5°	165.3	167.7	172.4	206.0	241.9	285.0	404.8	855.1	2232.3	3573.5	3803.5
80°	158.1	158.1	146.1	170.1	198.8	222.7	270.6	491.0	1432.3	2409.5	2593.9
82.5°	112.6	110.2	100.6	105.4	122.2	122.2	138.9	203.6	548.5	1017.9	1104.2
85°	7.2	7.2	12.0	14.4	21.6	28.7	35.9	47.9	138.9	189.2	196.4
87.5°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	7.2	9.6	9.6
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4	3039.4
2.5°	3037.0	3039.4	3039.4	3044.2	3049.0	3046.6	3044.2	3049.0	3041.8	3027.4	3025.0
5°	3046.6	3046.6	3044.2	3049.0	3053.8	3049.0	3044.2	3044.2	3039.4	3025.0	3022.6
7.5°	3065.8	3063.4	3063.4	3063.4	3063.4	3056.2	3049.0	3044.2	3037.0	3022.6	3015.5
10°	3092.1	3089.7	3087.3	3084.9	3072.9	3065.8	3053.8	3046.6	3037.0	3020.2	3015.5
12.5°	3120.8	3116.1	3111.3	3113.7	3089.7	3068.2	3056.2	3039.4	3032.2	2993.9	2986.7
15°	3149.6	3142.4	3140.0	3130.4	3106.5	3075.3	3051.4	3027.4	3003.5	2967.6	2955.6
17.5°	3187.9	3183.1	3168.7	3159.2	3125.6	3082.5	3046.6	3013.1	2981.9	2938.8	2931.6
20°	3233.4	3228.6	3214.3	3195.1	3152.0	3099.3	3049.0	2996.3	2958.0	2907.7	2895.7
22.5°	3283.7	3276.5	3264.6	3243.0	3187.9	3125.6	3056.2	2986.7	2929.2	2871.8	2864.6
25°	3336.4	3331.6	3319.6	3288.5	3228.6	3152.0	3056.2	2953.2	2881.3	2831.0	2809.5
27.5°	3386.7	3384.3	3369.9	3334.0	3271.7	3171.1	3034.6	2898.1	2802.3	2735.2	2720.9
30°	3451.4	3446.6	3429.8	3389.1	3319.6	3183.1	2991.5	2804.7	2684.9	2610.7	2589.1
32.5°	3530.4	3525.6	3501.7	3451.4	3377.1	3185.5	2929.2	2684.9	2526.9	2447.8	2421.5
35°	3635.8	3626.2	3595.1	3535.2	3432.2	3161.6	2819.1	2531.6	2337.6	2234.6	2198.7
37.5°	3750.8	3738.8	3698.1	3623.8	3470.5	3096.9	2663.4	2325.7	2105.3	1983.2	1956.8
40°	3892.1	3875.3	3813.0	3710.0	3484.9	2984.3	2488.5	2114.9	1880.2	1746.0	1714.9
42.5°	4069.3	4040.6	3940.0	3805.8	3456.2	2831.0	2280.2	1896.9	1628.7	1504.1	1497.0
45°	4282.5	4237.0	4086.1	3899.3	3393.9	2639.4	2059.8	1652.6	1396.4	1274.2	1243.1
47.5°	4534.0	4478.9	4256.1	3971.1	3271.7	2443.0	1822.7	1415.5	1180.8	1056.2	1032.3
50°	4811.8	4759.1	4435.8	4011.8	3140.0	2213.1	1590.4	1204.7	970.0	867.0	867.0
52.5°	5149.5	5029.8	4608.2	4016.6	2938.8	1959.2	1367.6	998.8	814.3	723.3	704.2
55°	5508.8	5367.5	4763.9	3973.5	2730.4	1726.9	1128.1	831.1	668.2	603.6	586.8
57.5°	5908.8	5693.2	4876.5	3887.3	2467.0	1473.0	941.3	685.0	562.9	510.2	503.0
60°	6311.1	6033.3	4943.5	3741.2	2186.7	1238.3	783.2	572.4	483.8	445.5	438.3
62.5°	6684.8	6311.1	4948.3	3528.0	1913.7	1032.3	641.9	493.4	428.7	400.0	400.0
65°	7008.1	6543.5	4866.9	3255.0	1566.4	828.7	529.3	416.8	373.6	342.5	335.3
67.5°	7166.2	6632.1	4723.2	2881.3	1255.0	656.3	445.5	361.7	320.9	273.0	268.3
70°	6943.5	6375.8	4354.3	2402.3	970.0	522.1	371.2	309.0	268.3	227.5	222.7
72.5°	6232.1	5693.2	3757.9	1861.0	730.5	421.5	309.0	263.5	220.4	198.8	194.0
75°	5099.2	4735.2	2970.0	1281.4	510.2	330.5	258.7	222.7	186.8	177.2	174.8
77.5°	3870.5	3520.8	2170.0	802.4	349.7	258.7	220.4	189.2	162.9	170.1	165.3
80°	2584.3	2423.9	1441.9	455.1	234.7	189.2	167.7	138.9	124.5	143.7	138.9
82.5°	1173.6	1111.3	677.8	198.8	105.4	81.4	57.5	43.1	33.5	31.1	35.9
85°	196.4	172.4	47.9	21.6	12.0	7.2	4.8	4.8	2.4	2.4	2.4
87.5°	9.6	7.2	7.2	4.8	2.4	2.4	2.4	2.4	2.4	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



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: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-40-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-40-830-U-5WQ

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 09/05/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Streetworks  
 Catalog Number: **MEM2-HTN-SA-40-830-U-5WQ**  
 Description: Epic Modern Light Square 40W 5WQ Optic

**Spectral Parameters**

CCT (K): 3126  
 CIE u': 0.2465  
 CIE v': 0.5182  
 Duv: -0.0004  
 CIE x: 0.4277  
 CIE y: 0.3997  
 CIE z: 0.1727  
 Peak Wavelength (nm): 601  
 Dominant Wavelength (nm): 582  
 Purity: 48.31913  
 Rf: 84.4  
 Rg: 94.7

CRI (Ra):	82.6		
R1:	81.4	R9:	5.1
R2:	92.2	R10:	82.2
R3:	94.9	R11:	79.8
R4:	80.1	R12:	70.4
R5:	81.8	R13:	84.2
R6:	90.5	R14:	97.9
R7:	81.8	R15:	73.6
R8:	58.0		



**Test Conditions**

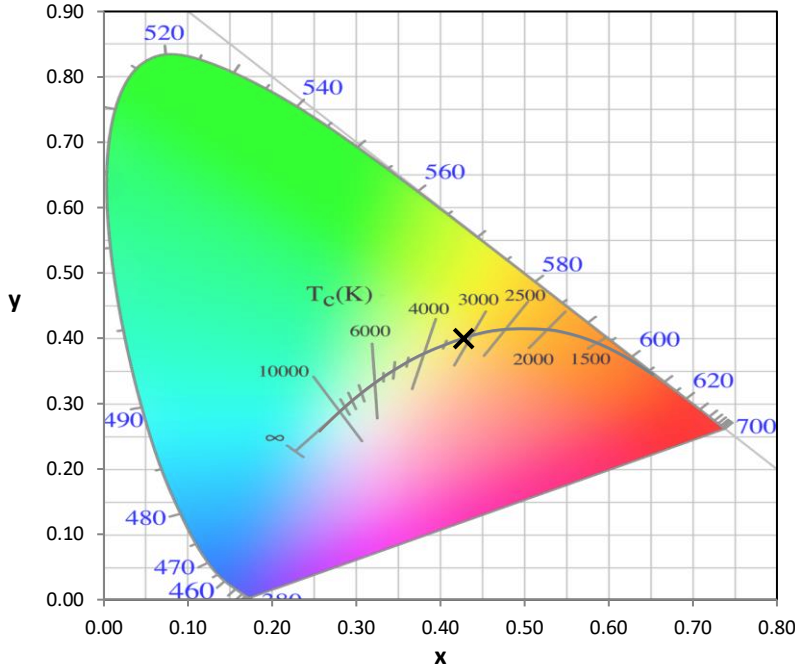
Stabilization Time: 22M  
 Operation Time: 1H 22M  
 Sphere Temperature (°C): 24.3

REPORT NUMBER: SP1-2407-157-7

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 inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR S/P: 1.42

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



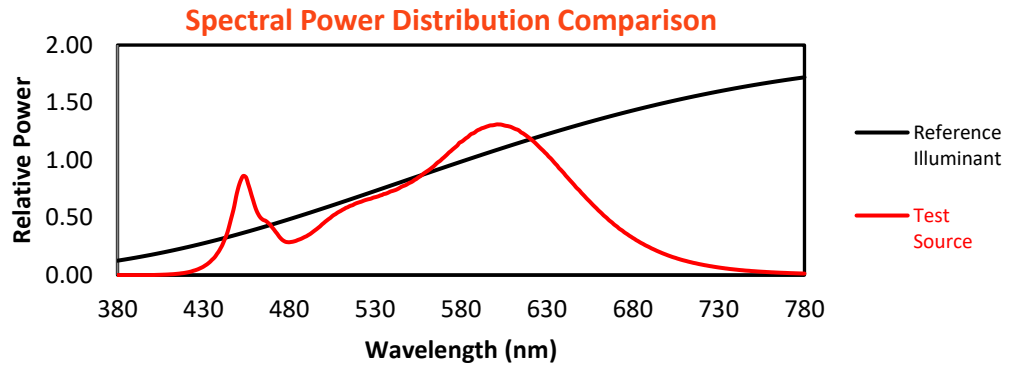
Melanopic Lumens: NR

M/P: 2.79

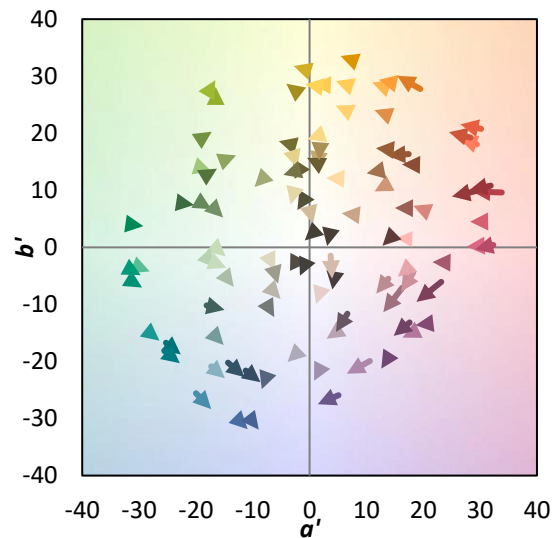
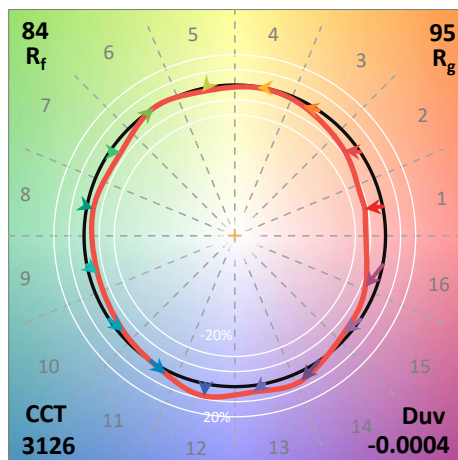
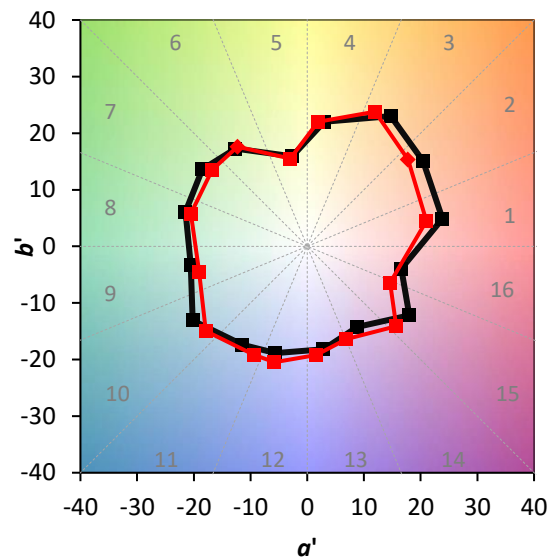
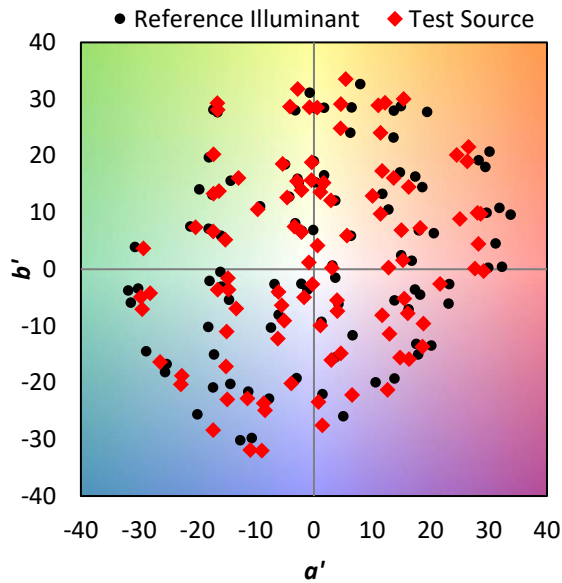
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

**Summary**

$R_f = 84.4$   
 $R_g = 94.7$   
 $CIE R_a = 82.6$   
 $R_9 = 5.1$



**Color Vector Graphics**





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

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 92	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 91	CES55 = 86	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 85	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 96	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 81	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 83	CES87 = 84
CES13 = 43	CES38 = 86	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 75
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 97	CES67 = 76	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 80	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 78	CES95 = 73
CES21 = 87	CES46 = 90	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 88
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 76
CES25 = 72	CES50 = 93	CES75 = 78	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)