

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: P867865

Luminaire Tested: **MEM2-HSN-SA-90-730-U-T1**

Issue Date: 08/21/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P867865  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HSN-SA-90-730-U-T1  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 90W 70CRI 3000K  
FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC  
Light Source: (20) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

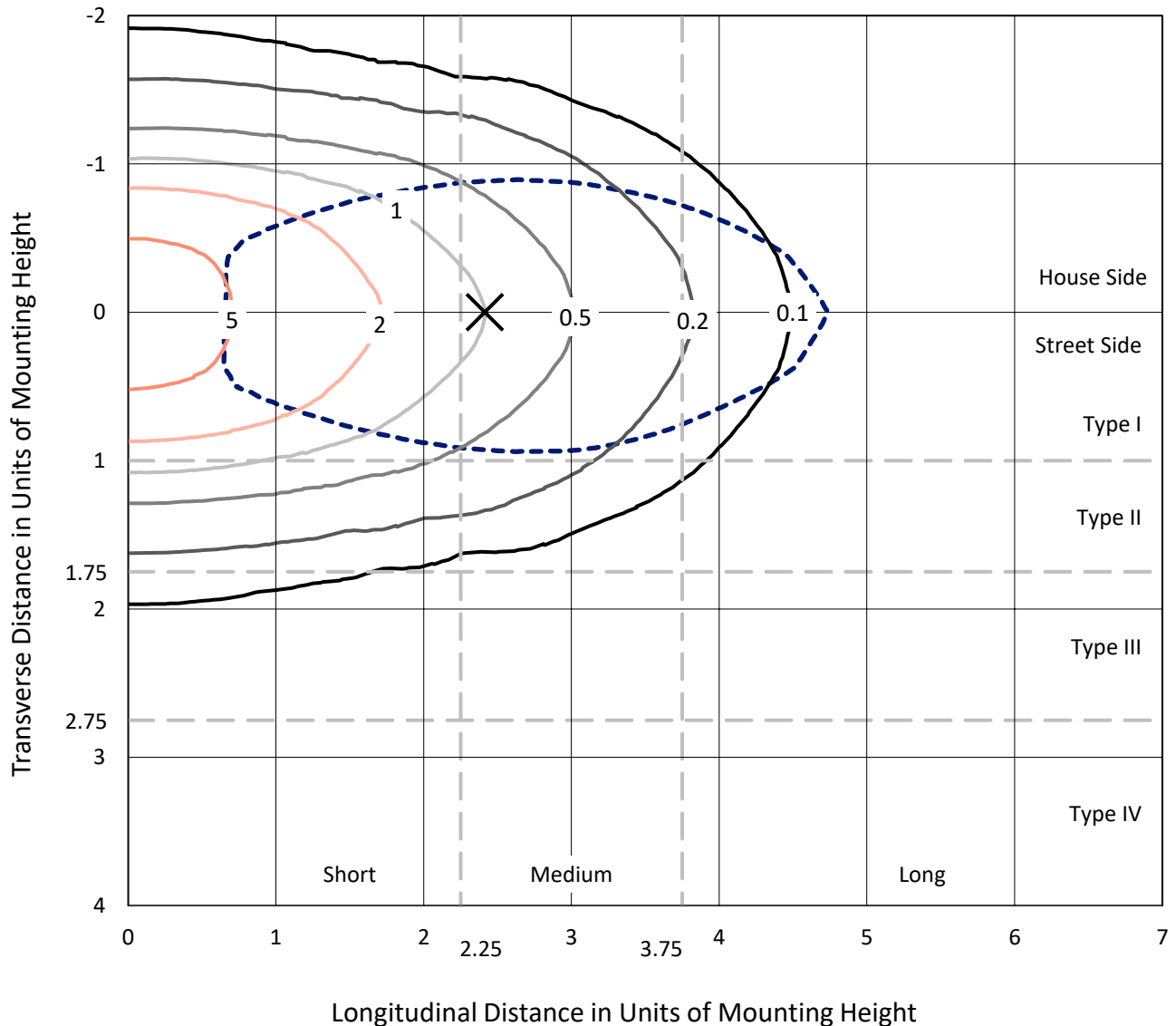
Lumens per Lamp: N/A  
Luminaire Lumens: 12574.2 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 90  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.20%  
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

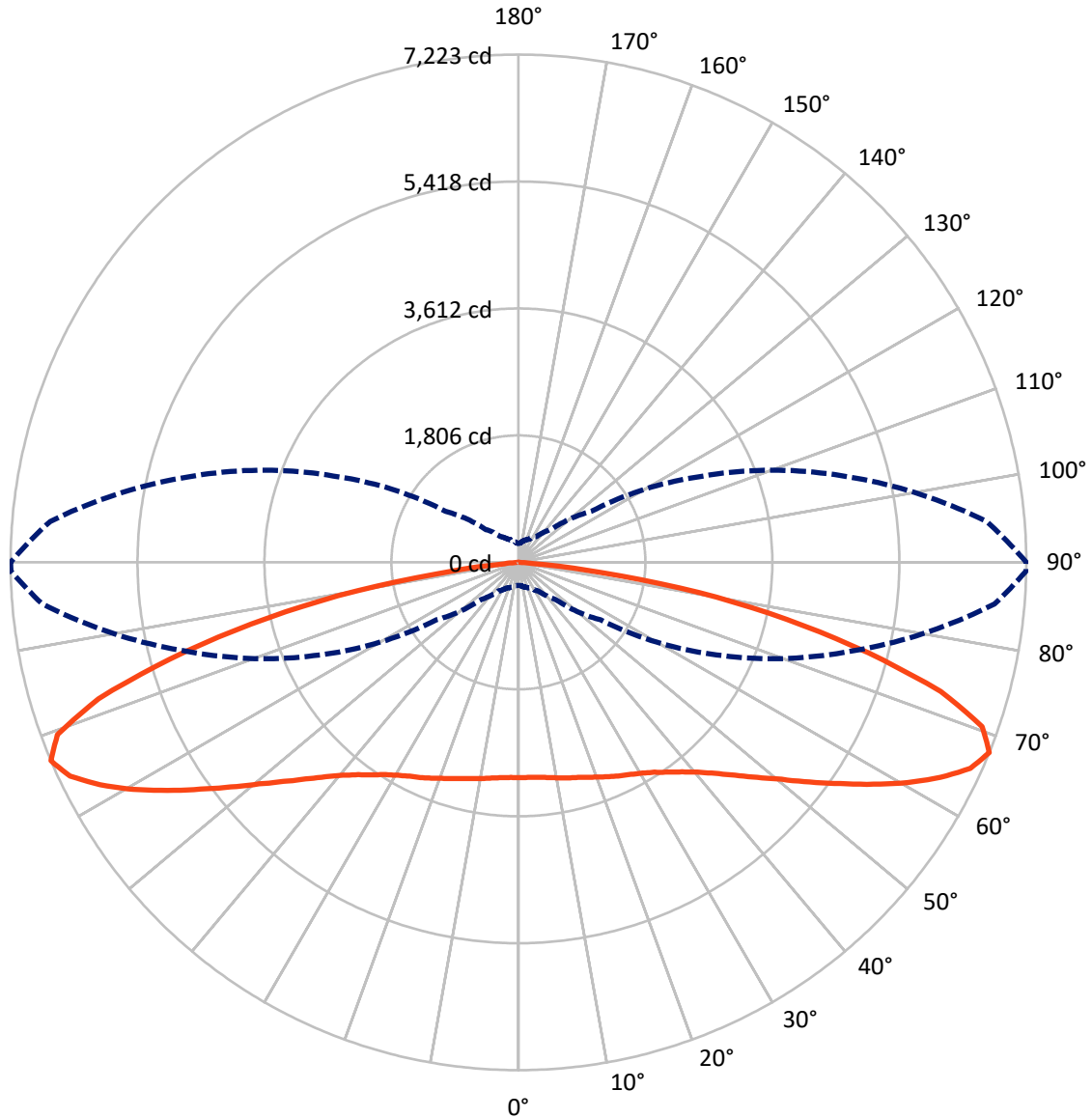
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	6175.4	0.0	6175.4
	% Fixture	49.1	0.0	49.1
<b>Street Side</b>	Lumens	6398.7	0.0	6398.7
	% Fixture	50.9	0.0	50.9
<b>Total</b>	Lumens	12574.2	0.0	12574.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.6	2.3
10°-20°	882.3	7.0
20°-30°	1460.3	11.6
30°-40°	1936.3	15.4
40°-50°	2183.1	17.4
50°-60°	2238.0	17.8
60°-70°	2113.8	16.8
70°-80°	1297.0	10.3
80°-90°	169.7	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°	12574.2	100.0
0°-180°	12574.2	100.0



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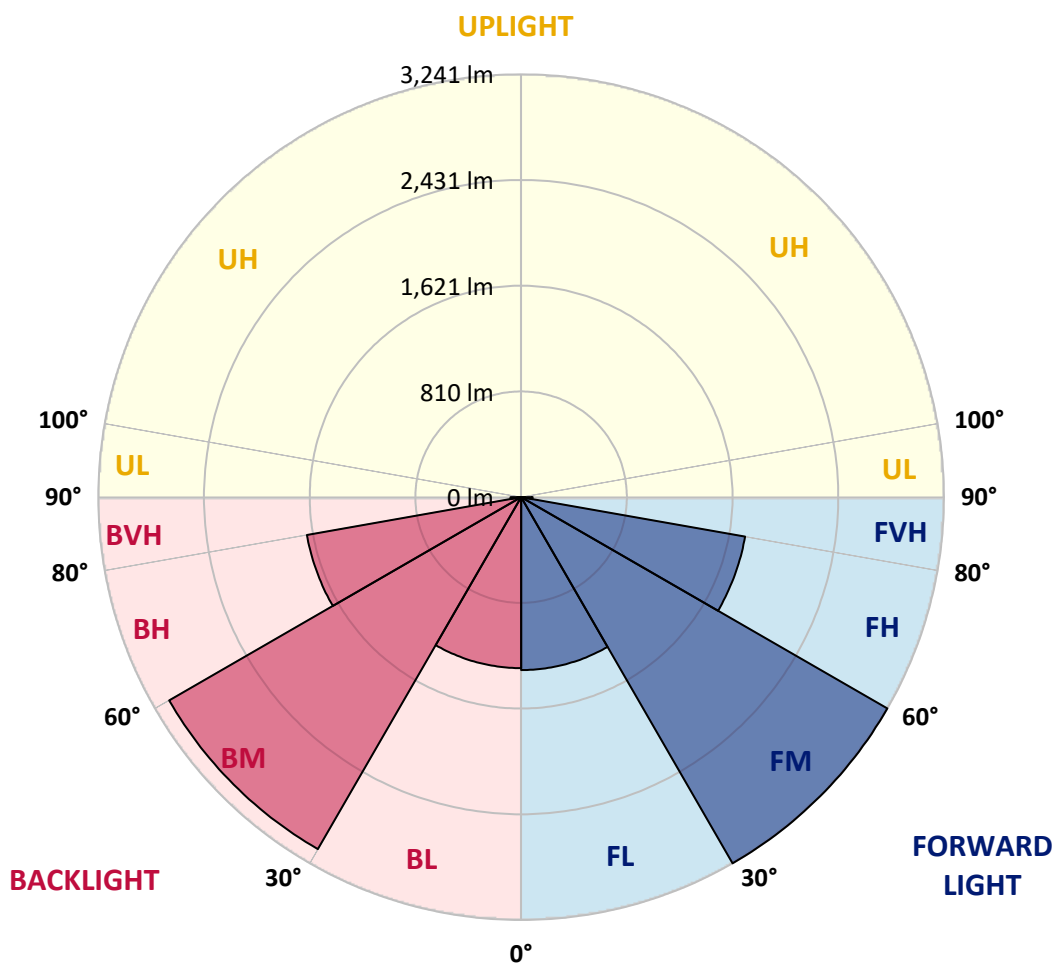
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.7	10.5			
FM	(30°-60°)	3241.5	25.8			
FH	(60°-80°)	1743.2	13.9			G1/1800
FVH	(80°-90°)	88.4	0.7			G1/100
BL	(0°-30°)	1310.5	10.4	B3/2500		
BM	(30°-60°)	3116.0	24.8	B3/5000		
BH	(60°-80°)	1667.6	13.3	B3/2500		G3/2500
BVH	(80°-90°)	81.3	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°	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7
2.5°	3075.7	3075.7	3068.5	3056.4	3054.0	3056.4	3070.9	3063.7	3063.7	3066.1	3063.7
5°	3075.7	3075.7	3070.9	3058.8	3058.8	3058.8	3075.7	3068.5	3070.9	3073.3	3073.3
7.5°	3080.6	3080.6	3075.7	3066.1	3066.1	3066.1	3090.2	3085.4	3085.4	3092.6	3087.8
10°	3092.6	3087.8	3083.0	3085.4	3078.2	3090.2	3102.3	3104.7	3114.4	3119.2	3116.8
12.5°	3092.6	3087.8	3075.7	3090.2	3090.2	3107.1	3124.0	3133.7	3145.8	3145.8	3145.8
15°	3078.2	3073.3	3063.7	3087.8	3097.5	3119.2	3143.3	3157.8	3179.6	3179.6	3177.1
17.5°	3061.3	3054.0	3049.2	3085.4	3107.1	3136.1	3172.3	3191.6	3215.8	3218.2	3213.4
20°	3029.9	3027.5	3029.9	3078.2	3116.8	3157.8	3201.3	3227.8	3259.2	3268.9	3261.6
22.5°	2996.1	2996.1	3005.7	3070.9	3131.3	3186.8	3244.7	3278.5	3309.9	3319.6	3309.9
25°	2950.2	2950.2	2969.5	3046.8	3136.1	3218.2	3285.8	3331.7	3360.6	3370.3	3365.5
27.5°	2880.2	2880.2	2901.9	2998.5	3121.6	3242.3	3329.2	3382.4	3413.7	3423.4	3418.6
30°	2781.2	2776.4	2805.4	2926.1	3095.1	3268.9	3379.9	3435.5	3476.5	3483.8	3476.5
32.5°	2624.3	2631.5	2675.0	2827.1	3051.6	3285.8	3440.3	3505.5	3551.4	3565.8	3561.0
35°	2433.6	2445.6	2506.0	2701.5	2969.5	3283.4	3503.1	3582.7	3643.1	3662.4	3660.0
37.5°	2206.6	2223.5	2298.4	2527.7	2846.4	3247.2	3561.0	3669.6	3749.3	3773.5	3778.3
40°	1958.0	1974.9	2071.4	2324.9	2679.8	3162.7	3594.8	3768.6	3874.9	3923.1	3930.4
42.5°	1694.8	1723.8	1839.7	2085.9	2479.4	3027.5	3594.8	3865.2	3995.6	4084.9	4092.1
45°	1441.3	1465.4	1605.5	1846.9	2264.6	2853.6	3553.8	3961.8	4159.7	4314.3	4309.4
47.5°	1221.6	1228.8	1356.8	1600.6	2025.6	2655.7	3469.3	4048.7	4333.6	4538.8	4582.2
50°	994.7	1011.6	1120.2	1361.6	1781.7	2438.4	3326.8	4104.2	4512.2	4823.7	4879.2
52.5°	835.3	837.7	919.8	1141.9	1528.2	2175.2	3155.4	4118.7	4683.6	5132.7	5200.3
55°	680.8	692.9	762.9	929.5	1284.4	1916.9	2933.3	4097.0	4840.6	5432.0	5557.6
57.5°	584.2	586.7	637.4	770.1	1084.0	1641.7	2687.1	4024.5	4970.9	5762.8	5922.1
60°	502.2	502.2	540.8	642.2	876.4	1373.7	2397.3	3896.6	5043.4	6117.7	6349.5
62.5°	437.0	439.4	473.2	548.0	729.1	1134.7	2078.7	3696.2	5069.9	6460.5	6726.1
65°	395.9	398.4	417.7	468.4	601.1	922.2	1752.7	3452.4	5033.7	6716.4	7061.7
67.5°	328.3	330.8	364.6	403.2	499.7	741.2	1424.4	3114.4	4886.4	6796.1	7218.6
70°	251.1	258.3	304.2	345.2	415.2	591.5	1093.7	2667.7	4533.9	6525.7	6960.3
72.5°	210.0	212.5	246.3	292.1	347.7	463.5	830.5	2100.4	3998.0	5828.0	6310.8
75°	183.5	185.9	205.2	246.3	289.7	371.8	577.0	1451.0	3189.2	4712.6	5154.4
77.5°	166.6	169.0	173.8	207.6	243.8	287.3	408.0	861.9	2250.1	3602.1	3833.8
80°	159.3	159.3	147.3	171.4	200.4	224.5	272.8	494.9	1443.7	2428.7	2614.6
82.5°	113.5	111.1	101.4	106.2	123.1	123.1	140.0	205.2	552.9	1026.1	1113.0
85°	7.2	7.2	12.1	14.5	21.7	29.0	36.2	48.3	140.0	190.7	198.0
87.5°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	7.2	9.7	9.7
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: MEM2-HSN-SA-90-730-U-T1

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7
2.5°	3061.3	3063.7	3063.7	3068.5	3073.3	3070.9	3068.5	3073.3	3066.1	3051.6	3049.2
5°	3070.9	3070.9	3068.5	3073.3	3078.2	3073.3	3068.5	3068.5	3063.7	3049.2	3046.8
7.5°	3090.2	3087.8	3087.8	3087.8	3087.8	3080.6	3073.3	3068.5	3061.3	3046.8	3039.5
10°	3116.8	3114.4	3112.0	3109.5	3097.5	3090.2	3078.2	3070.9	3061.3	3044.4	3039.5
12.5°	3145.8	3140.9	3136.1	3138.5	3114.4	3092.6	3080.6	3063.7	3056.4	3017.8	3010.6
15°	3174.7	3167.5	3165.1	3155.4	3131.3	3099.9	3075.7	3051.6	3027.5	2991.2	2979.2
17.5°	3213.4	3208.5	3194.0	3184.4	3150.6	3107.1	3070.9	3037.1	3005.7	2962.3	2955.0
20°	3259.2	3254.4	3239.9	3220.6	3177.1	3124.0	3073.3	3020.2	2981.6	2930.9	2918.8
22.5°	3309.9	3302.7	3290.6	3268.9	3213.4	3150.6	3080.6	3010.6	2952.6	2894.7	2887.4
25°	3363.0	3358.2	3346.1	3314.8	3254.4	3177.1	3080.6	2976.8	2904.3	2853.6	2831.9
27.5°	3413.7	3411.3	3396.8	3360.6	3297.9	3196.5	3058.8	2921.2	2824.7	2757.1	2742.6
30°	3478.9	3474.1	3457.2	3416.2	3346.1	3208.5	3015.4	2827.1	2706.4	2631.5	2609.8
32.5°	3558.6	3553.8	3529.6	3478.9	3404.1	3210.9	2952.6	2706.4	2547.0	2467.4	2440.8
35°	3664.8	3655.2	3623.8	3563.4	3459.6	3186.8	2841.6	2551.9	2356.3	2252.5	2216.3
37.5°	3780.7	3768.6	3727.6	3652.7	3498.2	3121.6	2684.6	2344.2	2122.1	1999.0	1972.4
40°	3923.1	3906.2	3843.5	3739.7	3512.7	3008.1	2508.4	2131.8	1895.2	1760.0	1728.6
42.5°	4101.8	4072.8	3971.4	3836.2	3483.8	2853.6	2298.4	1912.1	1641.7	1516.1	1508.9
45°	4316.7	4270.8	4118.7	3930.4	3421.0	2660.5	2076.2	1665.8	1407.5	1284.4	1253.0
47.5°	4570.2	4514.6	4290.1	4002.8	3297.9	2462.5	1837.2	1426.8	1190.2	1064.7	1040.5
50°	4850.2	4797.1	4471.2	4043.9	3165.1	2230.8	1603.1	1214.4	977.8	874.0	874.0
52.5°	5190.6	5069.9	4645.0	4048.7	2962.3	1974.9	1378.5	1006.7	820.8	729.1	709.8
55°	5552.8	5410.3	4801.9	4005.2	2752.2	1740.7	1137.1	837.7	673.6	608.4	591.5
57.5°	5955.9	5738.7	4915.4	3918.3	2486.7	1484.8	948.8	690.5	567.3	514.2	507.0
60°	6361.5	6081.5	4983.0	3771.0	2204.2	1248.2	789.5	577.0	487.7	449.0	441.8
62.5°	6738.2	6361.5	4987.8	3556.2	1929.0	1040.5	647.0	497.3	432.1	403.2	403.2
65°	7064.1	6595.7	4905.7	3281.0	1578.9	835.3	533.5	420.1	376.6	345.2	338.0
67.5°	7223.4	6685.0	4760.9	2904.3	1265.1	661.5	449.0	364.6	323.5	275.2	270.4
70°	6998.9	6426.7	4389.1	2421.5	977.8	526.3	374.2	311.4	270.4	229.4	224.5
72.5°	6281.9	5738.7	3787.9	1875.9	736.3	424.9	311.4	265.6	222.1	200.4	195.6
75°	5139.9	4773.0	2993.7	1291.6	514.2	333.2	260.7	224.5	188.3	178.7	176.2
77.5°	3901.4	3548.9	2187.3	808.8	352.5	260.7	222.1	190.7	164.2	171.4	166.6
80°	2605.0	2443.2	1453.4	458.7	236.6	190.7	169.0	140.0	125.5	144.9	140.0
82.5°	1183.0	1120.2	683.2	200.4	106.2	82.1	57.9	43.5	33.8	31.4	36.2
85°	198.0	173.8	48.3	21.7	12.1	7.2	4.8	4.8	2.4	2.4	2.4
87.5°	9.7	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



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-4

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-30-730-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-30-730-U-5WQ-2

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-4  
 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-30-730-U-5WQ-2**  
 Description: Epic Modern Light Square 30W 5WQ Optic and Flare Trim

**Spectral Parameters**

CCT (K): 3057  
 CIE u': 0.2487  
 CIE v': 0.5199  
 Duv: -0.0002  
 CIE x: 0.4326  
 CIE y: 0.4020  
 CIE z: 0.1654  
 Peak Wavelength (nm): 593  
 Dominant Wavelength (nm): 582  
 Purity: 50.50735  
 Rf: 74.6  
 Rg: 94

CRI (Ra):	71.7		
R1:	68.1	R9:	-34.8
R2:	82.0	R10:	58.5
R3:	93.5	R11:	62.5
R4:	67.5	R12:	47.5
R5:	67.2	R13:	70.7
R6:	74.9	R14:	96.4
R7:	77.4	R15:	60.0
R8:	43.1		



**Test Conditions**

Stabilization Time: 21M  
 Operation Time: 1H 21M  
 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 inside the ANSI 3000K 4-step quadrangle

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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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.23**

$\lambda$ (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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 2.27**

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

**Summary**

$R_f = 74.6$   
 $R_g = 94$   
 $CIE R_a = 71.7$   
 $R_9 = -34.8$



**Color Vector Graphics**





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

CES01 = 86	CES26 = 65	CES51 = 87	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 61
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 86
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 83
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 64	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 78
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 56
CES18 = 56	CES43 = 77	CES68 = 66	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 49
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 66
CES21 = 87	CES46 = 81	CES71 = 56	CES96 = 76
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)