

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: P867971

Luminaire Tested: **MEM2-HSN-SA-120-730-U-T2U**

Issue Date: 08/21/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P867971  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HSN-SA-120-730-U-T2U  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 120W 70CRI 3000K  
FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC  
Light Source: (20) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

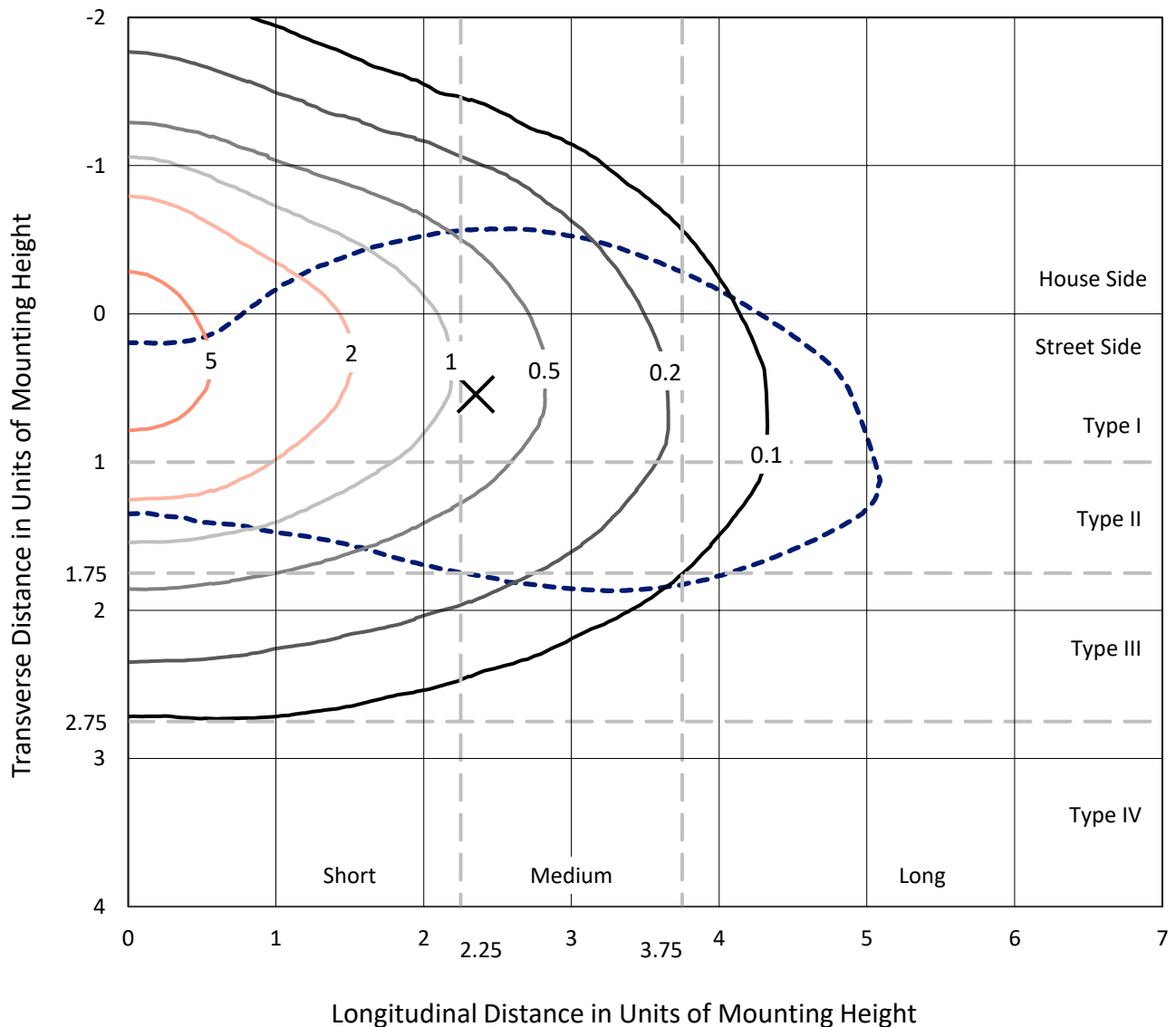
Lumens per Lamp: N/A  
Luminaire Lumens: 13075.8 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

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

REPORT NUMBER: P867971  
 CATALOG NUMBER: MEM2-HSN-SA-120-730-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

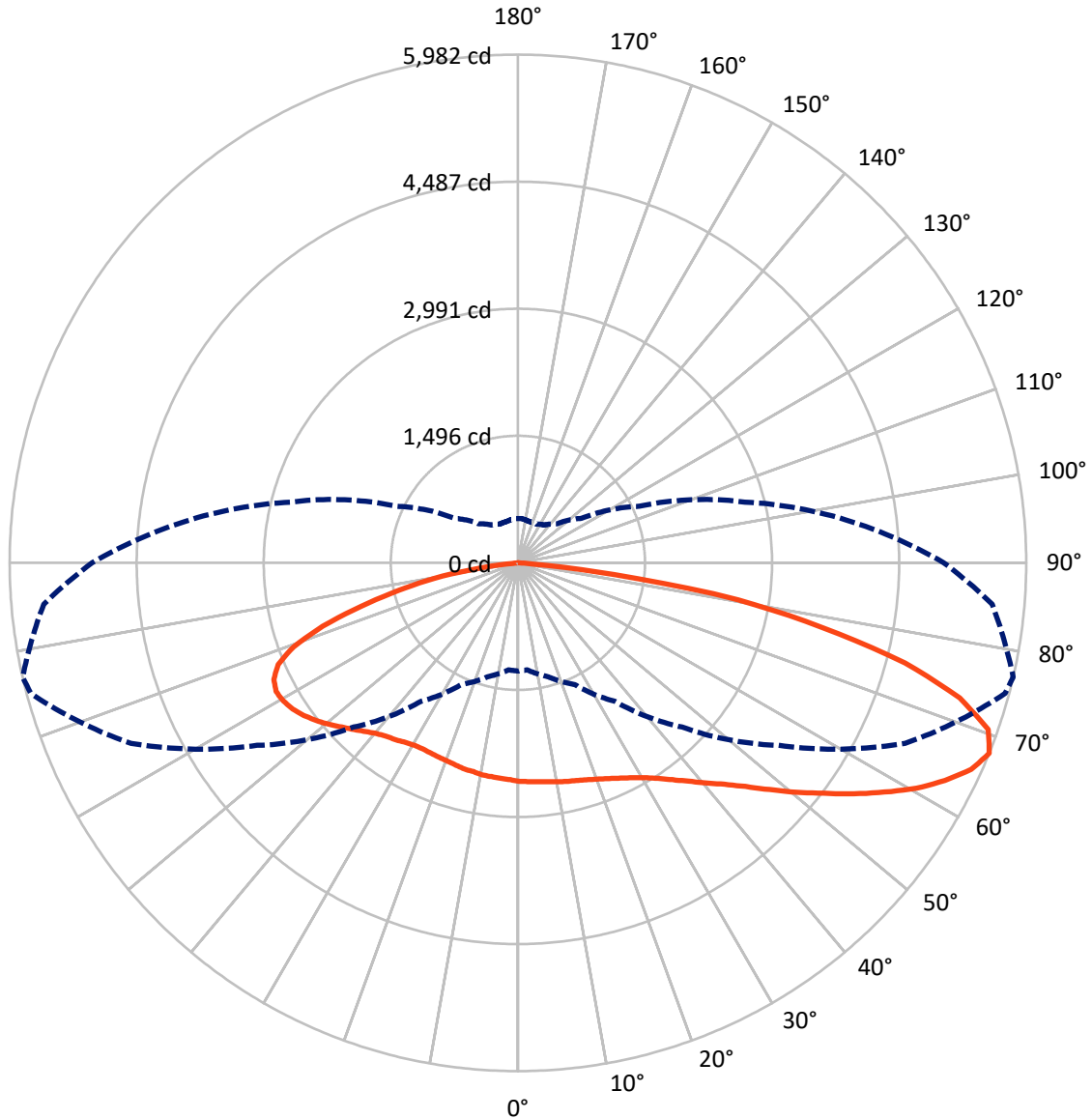
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4348.2	0.0	4348.2
	% Fixture	33.3	0.0	33.3
<b>Street Side</b>	Lumens	8727.7	0.0	8727.7
	% Fixture	66.7	0.0	66.7
<b>Total</b>	Lumens	13075.8	0.0	13075.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.1	1.9
10°-20°	749.4	5.7
20°-30°	1263.4	9.7
30°-40°	1792.8	13.7
40°-50°	2268.3	17.3
50°-60°	2484.8	19.0
60°-70°	2402.0	18.4
70°-80°	1615.5	12.4
80°-90°	252.5	1.9
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°	13075.8	100.0
0°-180°	13075.8	100.0

**Coefficient of Utilization**



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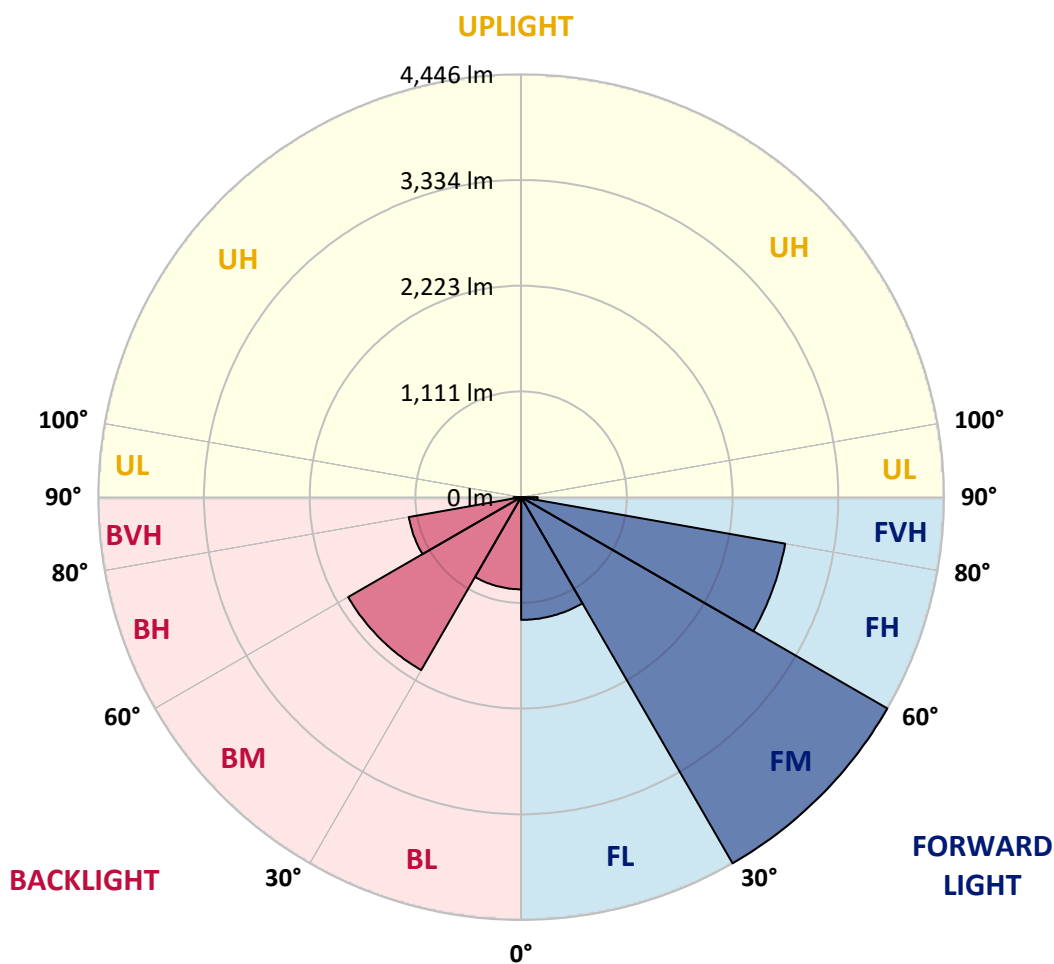
CATALOG NUMBER: MEM2-HSN-SA-120-730-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.6	9.9			
FM (30°-60°)	4445.9	34.0			
FH (60°-80°)	2818.3	21.6			G2/5000
FVH (80°-90°)	172.9	1.3			G2/225
BL (0°-30°)	969.3	7.4	B2/1000		
BM (30°-60°)	2100.0	16.1	B2/2500		
BH (60°-80°)	1199.2	9.2	B3/2500		G3/2500
BVH (80°-90°)	79.6	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8
2.5°	2627.7	2625.2	2612.2	2617.4	2601.9	2612.2	2596.7	2583.8	2581.2	2578.6	2581.2
5°	2710.5	2697.6	2684.6	2676.9	2664.0	2658.8	2632.9	2607.1	2591.5	2588.9	2583.8
7.5°	2806.2	2801.0	2782.9	2772.6	2736.4	2718.3	2682.1	2635.5	2612.2	2601.9	2588.9
10°	2904.5	2917.4	2894.1	2873.4	2832.1	2793.3	2731.2	2671.7	2625.2	2620.0	2591.5
12.5°	3026.0	3023.5	3007.9	2971.7	2922.6	2868.3	2793.3	2710.5	2648.4	2638.1	2596.7
15°	3134.7	3132.1	3111.4	3077.8	3013.1	2945.9	2845.0	2749.3	2671.7	2656.2	2607.1
17.5°	3235.5	3230.4	3217.4	3181.2	3101.0	3018.3	2920.0	2793.3	2700.2	2682.1	2614.8
20°	3323.5	3328.6	3313.1	3276.9	3201.9	3114.0	2989.8	2850.2	2736.4	2715.7	2638.1
22.5°	3419.2	3421.8	3414.0	3401.1	3305.4	3212.3	3077.8	2914.8	2777.8	2757.1	2664.0
25°	3520.0	3522.6	3527.8	3520.0	3411.4	3310.5	3168.3	2995.0	2834.7	2806.2	2700.2
27.5°	3636.4	3639.0	3649.4	3633.8	3517.4	3411.4	3269.2	3080.4	2894.1	2863.1	2731.2
30°	3768.3	3778.7	3770.9	3765.7	3631.2	3527.8	3370.0	3168.3	2971.7	2932.9	2785.5
32.5°	3926.1	3923.5	3908.0	3892.5	3755.4	3646.8	3483.8	3282.1	3067.4	3023.5	2873.4
35°	4039.9	4039.9	4016.6	4008.9	3882.1	3768.3	3608.0	3408.8	3176.0	3134.7	2966.6
37.5°	4109.7	4120.1	4102.0	4107.1	3985.6	3879.5	3732.1	3538.1	3295.0	3258.8	3080.4
40°	4135.6	4161.5	4177.0	4197.7	4076.1	3985.6	3864.0	3677.8	3447.6	3406.2	3217.4
42.5°	4140.8	4179.6	4233.9	4277.8	4140.8	4065.8	3990.8	3820.1	3597.6	3561.4	3367.4
45°	4114.9	4096.8	4228.7	4233.9	4177.0	4130.4	4102.0	3990.8	3814.9	3755.4	3553.7
47.5°	3918.3	3897.6	3933.9	4099.4	4133.0	4158.9	4215.8	4189.9	4032.1	3985.6	3768.3
50°	3600.2	3589.9	3734.7	3913.2	4024.4	4156.3	4308.9	4381.3	4272.7	4244.2	4039.9
52.5°	3075.2	3046.7	3341.6	3688.1	3882.1	4130.4	4373.5	4577.9	4544.2	4502.9	4272.7
55°	2741.5	2741.5	2940.7	3372.6	3701.1	4037.3	4414.9	4784.8	4844.3	4797.7	4539.1
57.5°	2384.6	2413.1	2620.0	2917.4	3439.9	3866.6	4409.7	4958.1	5133.9	5090.0	4821.0
60°	2079.4	2102.7	2221.7	2521.7	3132.1	3641.6	4352.8	5100.3	5402.9	5387.4	5069.3
62.5°	1769.1	1797.5	1893.2	2175.1	2726.0	3383.0	4233.9	5177.9	5656.4	5640.9	5320.1
65°	1520.8	1523.4	1619.1	1854.4	2320.0	3070.0	4024.4	5162.4	5852.9	5863.3	5532.2
67.5°	1272.5	1264.7	1388.9	1580.3	1988.9	2733.8	3745.0	5025.3	5935.7	5982.3	5602.1
70°	936.3	946.6	1119.9	1332.0	1681.1	2345.8	3354.5	4758.9	5801.2	5873.6	5441.7
72.5°	703.5	724.2	892.3	1112.1	1404.4	1957.9	2927.8	4295.9	5426.2	5436.5	4952.9
75°	571.6	576.8	726.8	923.3	1150.9	1569.9	2351.0	3587.3	4588.2	4707.2	4208.0
77.5°	486.2	481.1	553.5	744.9	928.5	1254.4	1771.7	2728.6	3602.8	3657.1	3295.0
80°	413.8	411.2	437.1	602.6	726.8	894.9	1213.0	1901.0	2570.8	2630.3	2340.7
82.5°	217.3	232.8	227.6	372.4	411.2	470.7	581.9	863.8	1122.5	1138.0	1075.9
85°	10.3	10.3	10.3	15.5	25.9	41.4	80.2	80.2	87.9	168.1	191.4
87.5°	2.6	2.6	5.2	5.2	5.2	7.8	7.8	10.3	10.3	10.3	10.3
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°	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8	2570.8
2.5°	2576.0	2565.7	2550.2	2552.7	2550.2	2550.2	2537.2	2526.9	2524.3	2529.5	2539.8
5°	2578.6	2563.1	2539.8	2532.0	2524.3	2519.1	2498.4	2482.9	2475.1	2480.3	2482.9
7.5°	2578.6	2555.3	2529.5	2513.9	2493.3	2477.7	2454.5	2433.8	2423.4	2426.0	2431.2
10°	2573.4	2547.6	2526.9	2495.8	2462.2	2444.1	2407.9	2382.0	2369.1	2371.7	2358.8
12.5°	2573.4	2545.0	2503.6	2475.1	2428.6	2389.8	2361.3	2332.9	2322.6	2312.2	2307.0
15°	2576.0	2539.8	2498.4	2438.9	2384.6	2343.2	2307.0	2288.9	2273.4	2268.2	2270.8
17.5°	2576.0	2539.8	2477.7	2407.9	2345.8	2294.1	2263.1	2242.4	2237.2	2232.0	2232.0
20°	2588.9	2542.4	2459.6	2376.9	2299.3	2245.0	2216.5	2203.6	2203.6	2195.8	2195.8
22.5°	2609.6	2547.6	2449.3	2351.0	2260.5	2201.0	2170.0	2154.4	2162.2	2157.0	2154.4
25°	2632.9	2565.7	2436.4	2314.8	2208.8	2146.7	2115.6	2105.3	2102.7	2089.8	2107.9
27.5°	2651.0	2578.6	2428.6	2278.6	2162.2	2089.8	2051.0	2032.9	2019.9	2025.1	2019.9
30°	2700.2	2614.8	2431.2	2247.5	2110.5	2022.5	1976.0	1955.3	1950.1	1950.1	1950.1
32.5°	2767.4	2661.4	2449.3	2234.6	2061.3	1957.9	1901.0	1880.3	1875.1	1864.8	1869.9
35°	2852.8	2731.2	2477.7	2213.9	2022.5	1882.9	1820.8	1792.3	1784.6	1774.2	1774.2
37.5°	2948.5	2801.0	2498.4	2203.6	1970.8	1805.3	1735.4	1699.2	1694.1	1683.7	1688.9
40°	3070.0	2896.7	2532.0	2182.9	1911.3	1735.4	1642.3	1582.9	1595.8	1601.0	1611.3
42.5°	3207.1	3018.3	2583.8	2162.2	1864.8	1663.0	1526.0	1466.5	1482.0	1476.8	1487.2
45°	3393.3	3160.5	2648.4	2154.4	1807.9	1575.1	1407.0	1339.7	1334.6	1326.8	1332.0
47.5°	3587.3	3331.2	2710.5	2138.9	1745.8	1466.5	1272.5	1187.1	1166.4	1156.1	1145.8
50°	3789.0	3501.9	2782.9	2128.6	1663.0	1344.9	1138.0	1039.7	1000.9	988.0	975.1
52.5°	4016.6	3685.6	2845.0	2102.7	1572.5	1218.2	1016.4	905.2	861.3	835.4	838.0
55°	4257.1	3853.7	2901.9	2071.7	1469.1	1099.2	894.9	801.8	757.8	750.0	750.0
57.5°	4479.6	4027.0	2943.3	2017.4	1365.6	982.8	794.0	713.8	693.1	703.5	703.5
60°	4707.2	4166.6	2964.0	1957.9	1259.6	884.5	724.2	659.5	649.2	669.9	672.5
62.5°	4890.8	4277.8	2958.8	1875.1	1143.2	799.2	656.9	605.2	610.4	646.6	654.3
65°	5022.7	4332.2	2894.1	1751.0	1032.0	724.2	597.4	548.3	548.3	574.2	581.9
67.5°	5012.4	4262.3	2764.8	1577.7	913.0	649.2	543.1	504.3	504.3	522.4	519.9
70°	4800.3	4021.8	2519.1	1368.2	796.6	584.5	496.6	468.1	465.5	473.3	470.7
72.5°	4290.8	3533.0	2136.3	1130.2	688.0	519.9	450.0	424.2	419.0	408.6	400.9
75°	3540.7	2901.9	1668.2	900.1	581.9	457.8	406.1	382.8	362.1	375.0	367.3
77.5°	2746.7	2226.9	1241.5	698.3	473.3	398.3	362.1	336.2	331.1	377.6	362.1
80°	2004.4	1538.9	876.8	499.2	367.3	323.3	302.6	281.9	356.9	478.5	475.9
82.5°	889.7	742.3	400.9	237.9	170.7	142.2	119.0	134.5	225.0	219.8	227.6
85°	80.2	82.8	44.0	28.4	18.1	15.5	10.3	10.3	7.8	7.8	7.8
87.5°	10.3	10.3	7.8	7.8	5.2	5.2	5.2	5.2	2.6	2.6	2.6
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-40-730-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-730-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-40-730-U-5WQ-2**  
 Description: Epic Modern Light Square 40W 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			

REPORT NUMBER: SP1-2407-157-4

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 2.27**

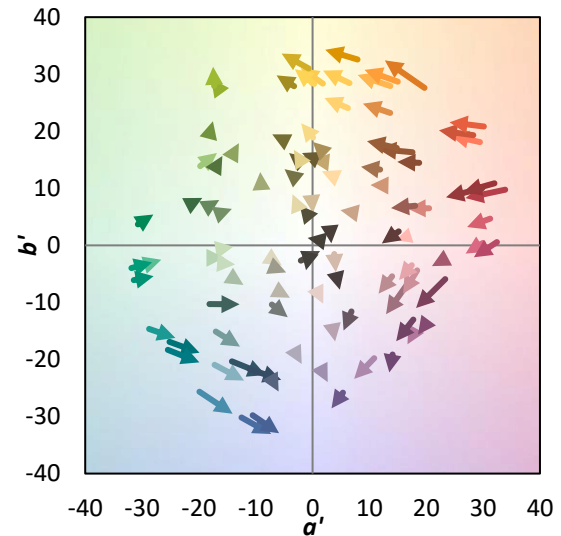
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	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**

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



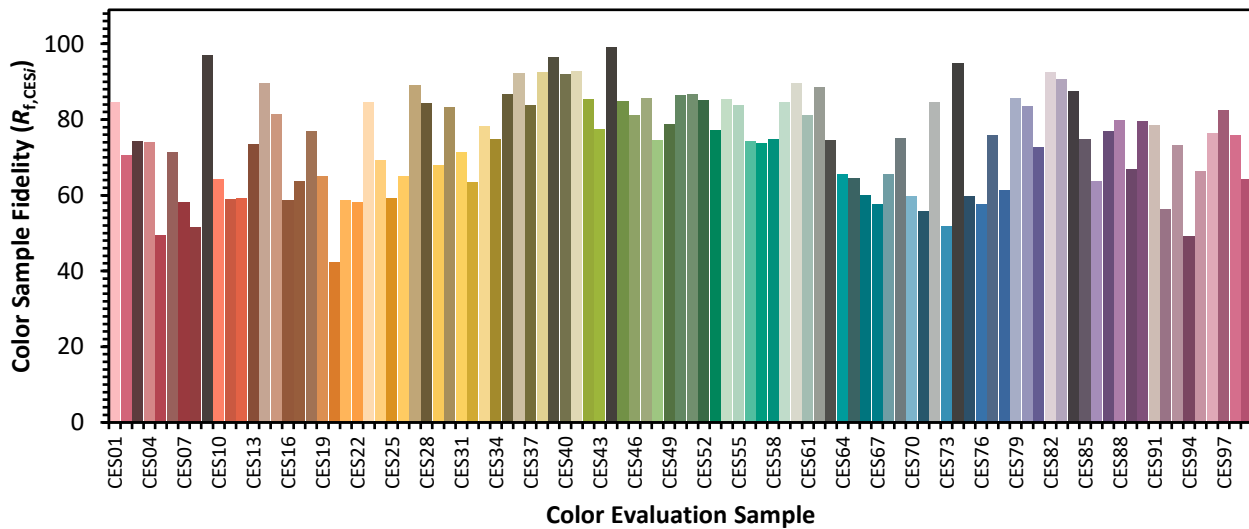
**Color Vector Graphics**





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

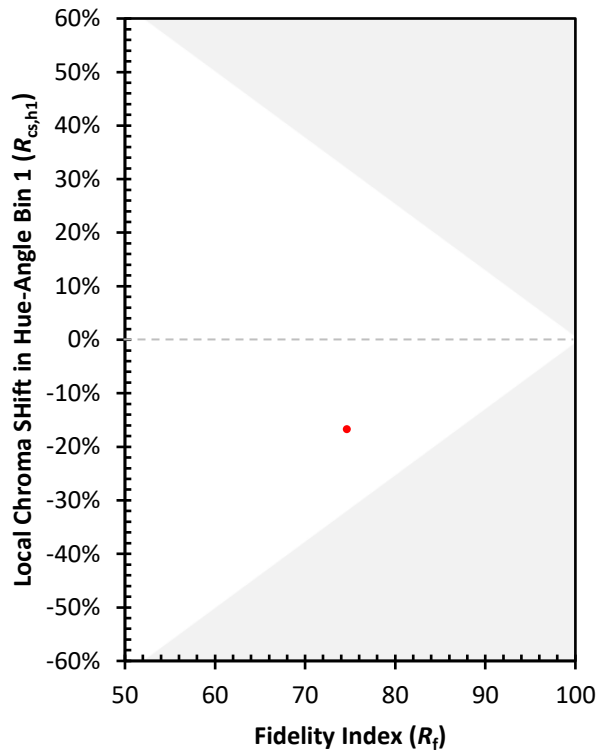
CES01 = 86	CES26 = 65	CES51 = 87	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 61
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 86
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 83
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 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)