

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: P869039

Luminaire Tested: **EMM2-HSN-SA3B-750-U-T4W**

Issue Date: 08/22/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P869039  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/22/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: EMM2-HSN-SA3B-750-U-T4W  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 150W 70CRI 5000K  
FITXURE w/ TYPE IV WIDE DISTRIBUTION OPTIC  
Light Source: (30) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

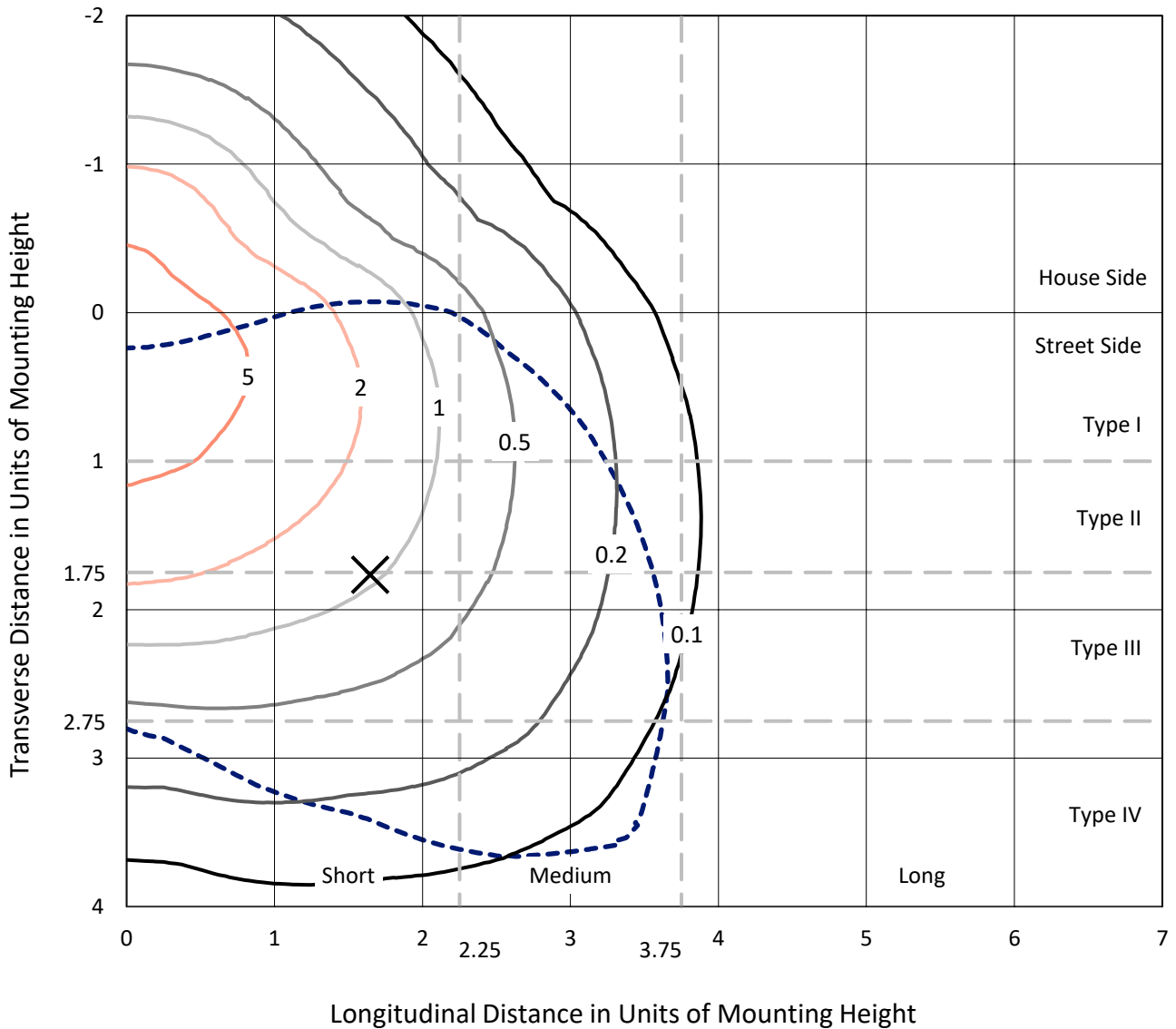
Lumens per Lamp: N/A  
Luminaire Lumens: 18549.2 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 134  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.70%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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 CATALOG NUMBER: EMM2-HSN-SA3B-750-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

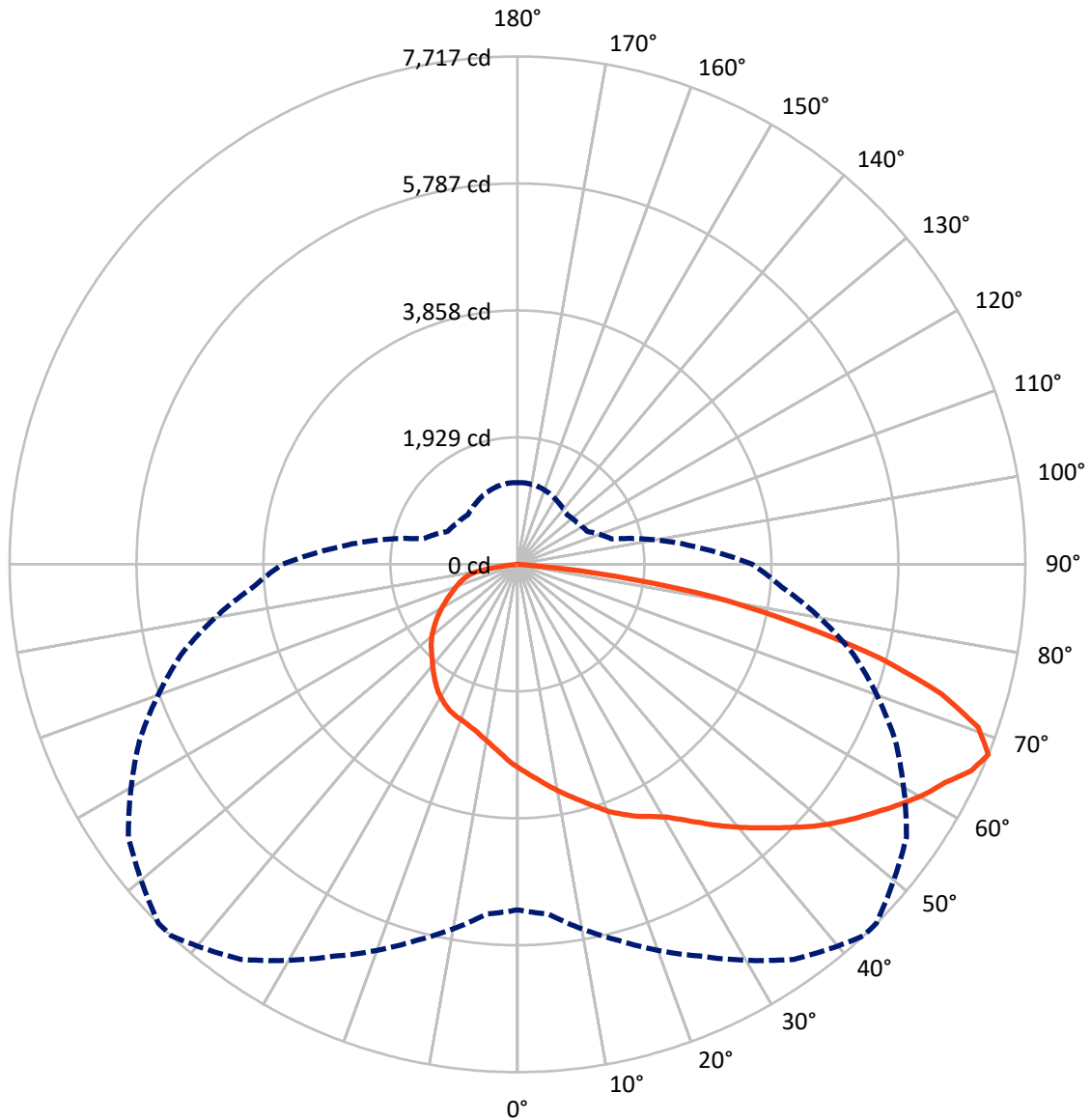
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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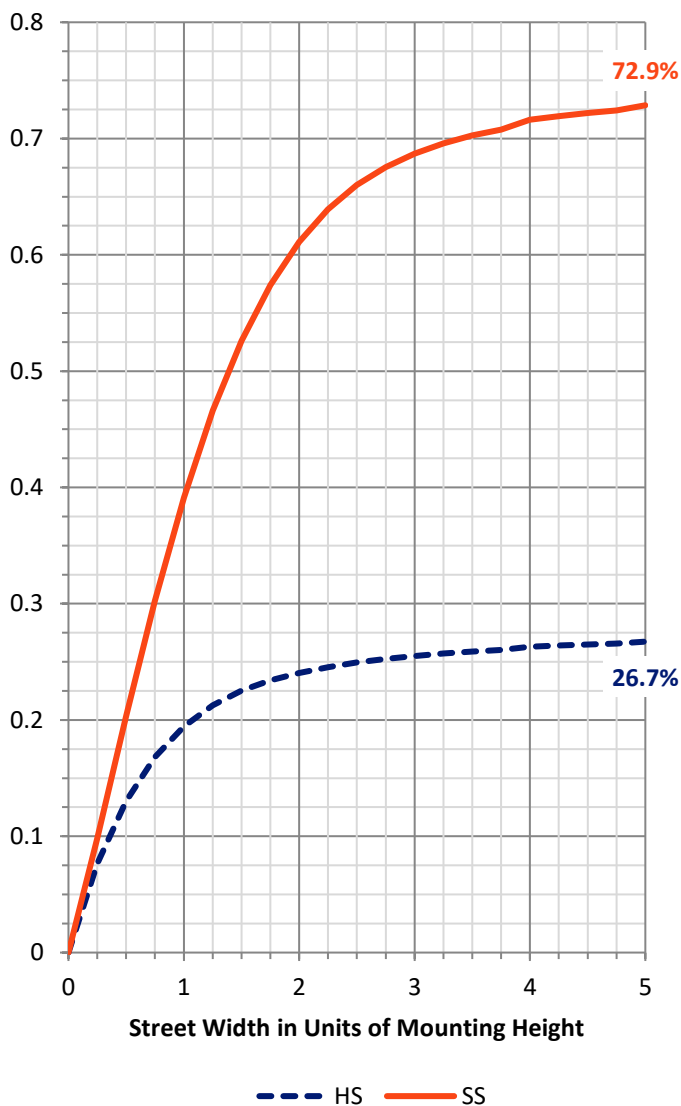
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4989.8	0.0	4989.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	13559.4	0.0	13559.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	18549.2	0.0	18549.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.3	1.6
10°-20°	904.9	4.9
20°-30°	1544.0	8.3
30°-40°	2251.9	12.1
40°-50°	3025.2	16.3
50°-60°	3703.3	20.0
60°-70°	3897.4	21.0
70°-80°	2544.5	13.7
80°-90°	381.7	2.1
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°	18549.2	100.0
0°-180°	18549.2	100.0



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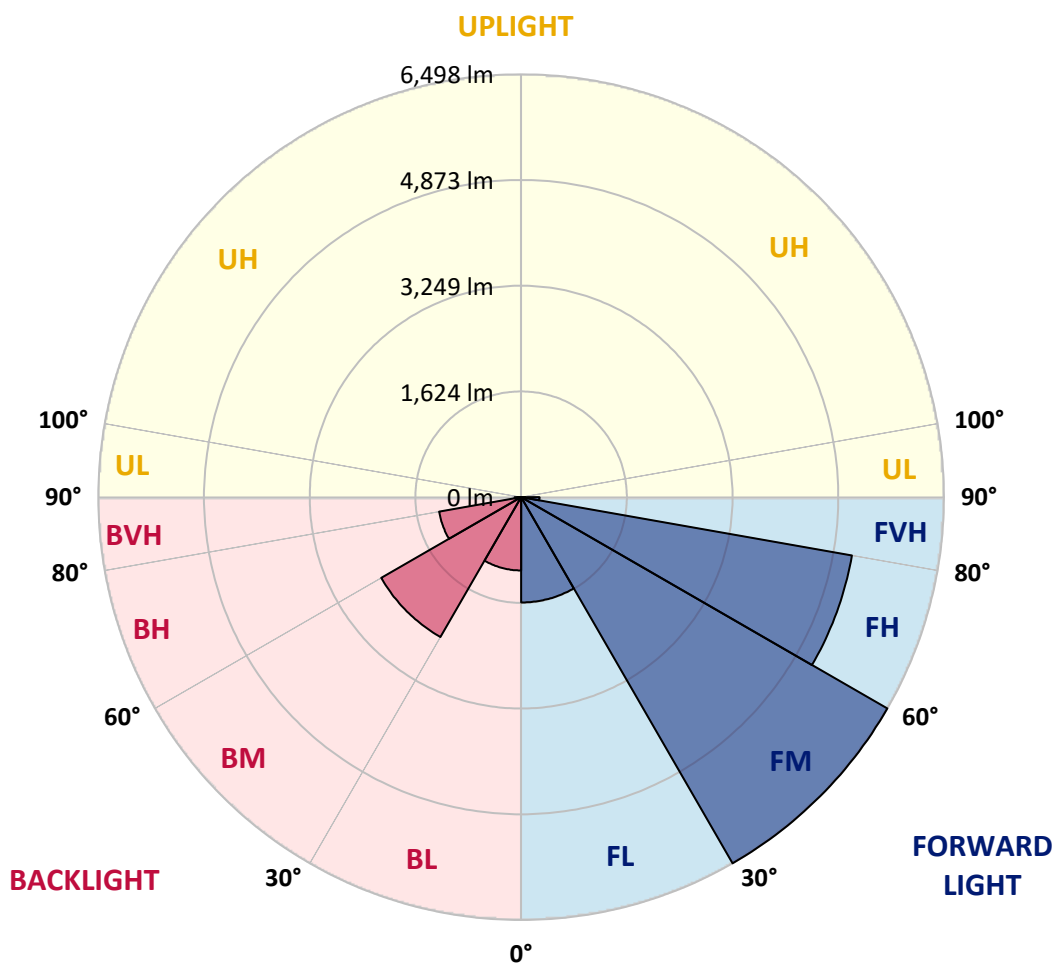
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.8	8.7			
FM (30°-60°)	6497.6	35.0			
FH (60°-80°)	5161.4	27.8			G3/7500
FVH (80°-90°)	281.6	1.5			G3/500
BL (0°-30°)	1126.5	6.1	B3/2500		
BM (30°-60°)	2482.7	13.4	B2/2500		
BH (60°-80°)	1280.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	100.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3239.0	3235.3	3224.0	3216.5	3194.0	3190.2	3190.2	3167.7	3141.5	3126.4	3111.4
5°	3385.4	3366.7	3359.1	3344.1	3306.6	3284.1	3291.6	3250.3	3197.8	3160.2	3118.9
7.5°	3516.8	3509.3	3483.0	3464.2	3419.2	3396.7	3389.2	3325.4	3257.8	3201.5	3134.0
10°	3674.4	3655.6	3640.6	3603.1	3543.1	3509.3	3498.0	3415.4	3329.1	3254.1	3164.0
12.5°	3817.0	3794.5	3775.8	3738.2	3678.2	3621.9	3606.9	3513.0	3404.2	3302.8	3190.2
15°	3925.9	3929.6	3910.9	3877.1	3809.5	3742.0	3730.7	3606.9	3475.5	3351.6	3216.5
17.5°	4027.2	4042.2	4031.0	4008.5	3940.9	3873.3	3862.1	3723.2	3565.6	3407.9	3246.5
20°	4124.8	4124.8	4121.1	4106.0	4057.2	4012.2	3989.7	3850.8	3651.9	3468.0	3287.8
22.5°	4181.1	4196.1	4196.1	4196.1	4166.1	4128.6	4121.1	3985.9	3768.2	3543.1	3325.4
25°	4267.4	4286.2	4286.2	4278.7	4252.4	4241.2	4229.9	4102.3	3880.8	3629.4	3366.7
27.5°	4451.3	4447.6	4417.6	4380.0	4342.5	4338.7	4323.7	4233.6	4012.2	3723.2	3422.9
30°	4706.6	4714.1	4676.5	4560.2	4473.9	4455.1	4458.8	4380.0	4166.1	3832.1	3486.8
32.5°	5096.9	5096.9	4950.5	4800.4	4676.5	4627.7	4616.5	4548.9	4323.7	3952.2	3558.1
35°	5389.6	5378.4	5295.8	5119.4	4965.5	4826.7	4807.9	4717.8	4500.1	4087.3	3636.9
37.5°	5611.1	5633.6	5569.8	5434.7	5284.6	5044.3	5006.8	4879.2	4661.5	4218.6	3715.7
40°	6039.0	5982.7	5828.8	5704.9	5524.8	5258.3	5224.5	5066.9	4826.7	4365.0	3813.3
42.5°	6350.5	6271.7	6095.3	5930.1	5704.9	5472.2	5442.2	5269.5	5018.1	4530.2	3914.6
45°	6797.1	6620.7	6376.7	6230.4	5911.3	5704.9	5667.4	5479.7	5217.0	4706.6	4042.2
47.5°	7228.7	6921.0	6662.0	6594.4	6136.5	5956.4	5926.4	5708.7	5430.9	4898.0	4166.1
50°	7172.4	6969.8	6883.4	6819.6	6331.7	6192.8	6162.8	5941.4	5648.6	5100.6	4289.9
52.5°	7029.8	7048.6	7052.3	6898.4	6515.6	6414.3	6384.3	6192.8	5873.8	5277.0	4410.0
55°	7179.9	7202.5	7198.7	6966.0	6729.5	6635.7	6617.0	6448.1	6091.5	5442.2	4496.4
57.5°	7408.9	7333.8	7322.6	7134.9	6958.5	6872.2	6849.7	6703.3	6275.4	5562.3	4563.9
60°	7450.2	7300.0	7348.8	7172.4	7131.1	7104.9	7097.4	6924.7	6448.1	5659.9	4590.2
62.5°	6988.5	6962.2	7153.7	7082.4	7221.2	7296.3	7300.0	7082.4	6541.9	5697.4	4563.9
65°	6200.3	6305.4	6718.3	6924.7	7356.3	7570.3	7562.8	7176.2	6530.6	5588.6	4402.5
67.5°	5250.8	5333.3	5915.1	6568.2	7326.3	7716.6	7712.9	7217.5	6335.5	5288.3	4038.5
70°	3982.2	4241.2	5066.9	5926.4	6921.0	7427.6	7491.5	6984.8	5888.8	4740.3	3486.8
72.5°	3028.9	3070.1	4068.5	4969.3	6196.6	6740.8	6729.5	6241.6	5141.9	3993.4	2905.0
75°	2150.6	2240.7	3062.6	3850.8	5078.1	5682.4	5656.1	5119.4	4102.3	3107.7	2221.9
77.5°	1602.6	1636.4	2240.7	2856.2	3798.3	4342.5	4331.2	3783.3	3017.6	2282.0	1655.2
80°	1171.0	1227.3	1613.9	1993.0	2574.7	3043.9	3028.9	2510.9	1936.7	1595.1	1208.5
82.5°	656.8	698.1	938.3	1204.8	1358.7	1505.0	1441.2	1204.8	882.0	686.8	593.0
85°	18.8	22.5	33.8	41.3	71.3	120.1	131.4	116.4	138.9	86.3	93.8
87.5°	7.5	7.5	7.5	7.5	7.5	11.3	11.3	11.3	11.3	11.3	11.3
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°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3103.9	3088.9	3058.9	3040.1	3028.9	3013.8	2991.3	2976.3	2965.1	2980.1	2976.3
5°	3100.2	3070.1	3017.6	2980.1	2942.5	2912.5	2878.7	2852.5	2837.4	2845.0	2841.2
7.5°	3100.2	3062.6	2980.1	2920.0	2863.7	2818.7	2781.1	2747.4	2732.4	2736.1	2732.4
10°	3115.2	3062.6	2953.8	2867.5	2792.4	2739.9	2698.6	2668.5	2657.3	2668.5	2672.3
12.5°	3130.2	3062.6	2931.3	2822.4	2724.8	2668.5	2631.0	2612.3	2619.8	2623.5	2627.3
15°	3137.7	3058.9	2908.8	2769.9	2661.0	2601.0	2578.5	2574.7	2593.5	2612.3	2616.0
17.5°	3156.5	3055.1	2875.0	2717.3	2604.7	2556.0	2544.7	2559.7	2597.2	2623.5	2631.0
20°	3179.0	3062.6	2837.4	2653.5	2548.4	2510.9	2529.7	2563.5	2608.5	2646.0	2653.5
22.5°	3201.5	3066.4	2803.7	2597.2	2488.4	2480.9	2522.2	2571.0	2623.5	2661.0	2668.5
25°	3227.8	3066.4	2758.6	2525.9	2428.3	2439.6	2503.4	2567.2	2616.0	2664.8	2672.3
27.5°	3254.1	3073.9	2709.8	2447.1	2353.3	2387.1	2465.9	2544.7	2597.2	2646.0	2657.3
30°	3299.1	3088.9	2668.5	2379.6	2278.2	2323.3	2417.1	2507.2	2563.5	2616.0	2627.3
32.5°	3344.1	3111.4	2634.8	2308.2	2203.1	2255.7	2360.8	2462.1	2522.2	2571.0	2578.5
35°	3404.2	3141.5	2608.5	2236.9	2128.1	2169.4	2282.0	2394.6	2462.1	2499.7	2518.4
37.5°	3468.0	3182.7	2586.0	2173.1	2045.5	2083.0	2203.1	2323.3	2394.6	2432.1	2439.6
40°	3546.8	3239.0	2571.0	2113.1	1966.7	1996.7	2116.8	2248.2	2315.7	2342.0	2357.0
42.5°	3633.1	3299.1	2559.7	2053.0	1880.4	1910.4	2038.0	2165.6	2233.2	2255.7	2267.0
45°	3742.0	3377.9	2552.2	1989.2	1809.1	1835.3	1962.9	2090.6	2146.8	2176.9	2188.1
47.5°	3843.3	3456.7	2529.7	1914.1	1730.2	1767.8	1884.1	1996.7	2060.5	2079.3	2090.6
50°	3944.6	3524.3	2484.6	1831.6	1658.9	1692.7	1797.8	1880.4	1929.2	1951.7	1959.2
52.5°	4042.2	3573.1	2413.3	1745.3	1583.9	1606.4	1692.7	1771.5	1805.3	1812.8	1835.3
55°	4106.0	3599.4	2312.0	1643.9	1508.8	1516.3	1580.1	1651.4	1670.2	1673.9	1673.9
57.5°	4151.1	3584.3	2191.9	1542.6	1433.7	1433.7	1471.3	1527.6	1535.1	1538.8	1546.3
60°	4158.6	3531.8	2038.0	1448.7	1351.2	1339.9	1377.4	1411.2	1415.0	1422.5	1430.0
62.5°	4102.3	3415.4	1872.9	1358.7	1272.3	1246.1	1279.9	1313.6	1332.4	1343.7	1351.2
65°	3929.6	3179.0	1685.2	1268.6	1197.3	1152.2	1193.5	1249.8	1287.4	1291.1	1291.1
67.5°	3569.3	2796.2	1486.3	1174.8	1107.2	1065.9	1118.5	1178.5	1223.6	1242.3	1238.6
70°	3025.1	2372.0	1302.4	1077.2	1017.1	990.9	1047.2	1114.7	1152.2	1167.3	1174.8
72.5°	2435.8	1899.1	1141.0	979.6	938.3	923.3	979.6	1047.2	1099.7	1122.2	1126.0
75°	1895.4	1493.8	1005.9	878.3	844.5	848.2	908.3	975.8	1032.1	1043.4	1009.6
77.5°	1471.3	1189.8	878.3	758.2	739.4	765.7	825.7	897.0	930.8	942.1	919.5
80°	1062.2	912.0	709.4	596.8	596.8	638.0	690.6	773.2	784.4	769.4	776.9
82.5°	502.9	442.9	349.1	289.0	270.2	300.3	319.0	345.3	375.3	382.8	364.1
85°	67.6	45.0	33.8	37.5	33.8	22.5	15.0	15.0	15.0	11.3	11.3
87.5°	11.3	11.3	7.5	7.5	7.5	7.5	7.5	7.5	3.8	3.8	3.8
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: SP1-2407-157-6

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-750-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-750-U-5WQ-2

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-6  
 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-40-750-U-5WQ-2**  
 Description: Epic Modern Light Square 40W 5WQ Optic and Flare Trim

**Spectral Parameters**

CCT (K): 5094  
 CIE u': 0.2082  
 CIE v': 0.4867  
 Duv: 0.0032  
 CIE x: 0.3430  
 CIE y: 0.3564  
 CIE z: 0.3006  
 Peak Wavelength (nm): 451  
 Dominant Wavelength (nm): 568  
 Purity: 9.86439  
 Rf: 73.7  
 Rg: 93

CRI (Ra):	72.0		
R1:	68.6	R9:	-39.6
R2:	78.1	R10:	47.6
R3:	84.6	R11:	68.2
R4:	71.6	R12:	41.4
R5:	69.6	R13:	70.4
R6:	69.4	R14:	91.4
R7:	80.9	R15:	61.4
R8:	53.1		



**Test Conditions**

Stabilization Time: 20M  
 Operation Time: 1H 20M  
 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 5000K 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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.81**

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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.73

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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

**Summary**

$R_f = 73.7$   
 $R_g = 93$   
 $CIE R_a = 72.0$   
 $R_9 = -39.6$



**Color Vector Graphics**





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

CES01 = 85	CES26 = 62	CES51 = 90	CES76 = 50
CES02 = 59	CES27 = 88	CES52 = 89	CES77 = 67
CES03 = 30	CES28 = 80	CES53 = 79	CES78 = 53
CES04 = 69	CES29 = 69	CES54 = 84	CES79 = 80
CES05 = 46	CES30 = 88	CES55 = 83	CES80 = 77
CES06 = 50	CES31 = 72	CES56 = 74	CES81 = 78
CES07 = 38	CES32 = 62	CES57 = 73	CES82 = 90
CES08 = 38	CES33 = 82	CES58 = 73	CES83 = 90
CES09 = 29	CES34 = 69	CES59 = 86	CES84 = 85
CES10 = 72	CES35 = 83	CES60 = 88	CES85 = 77
CES11 = 56	CES36 = 87	CES61 = 82	CES86 = 75
CES12 = 61	CES37 = 78	CES62 = 81	CES87 = 76
CES13 = 41	CES38 = 98	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 91	CES65 = 60	CES90 = 80
CES16 = 46	CES41 = 96	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 79	CES67 = 53	CES92 = 58
CES18 = 55	CES43 = 78	CES68 = 63	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 52
CES20 = 63	CES45 = 86	CES70 = 55	CES95 = 64
CES21 = 85	CES46 = 85	CES71 = 46	CES96 = 76
CES22 = 77	CES47 = 89	CES72 = 82	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 45	CES98 = 76
CES24 = 90	CES49 = 83	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 48	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)