

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: P869038

Luminaire Tested: **EMM2-HSN-SA3A-750-U-T4W**

Issue Date: 08/22/2024



Test Information

Test Method: LM-79-08
Report Number: P869038
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/22/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM2-HSN-SA3A-750-U-T4W
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 130W 70CRI 5000K
FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source: (30) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

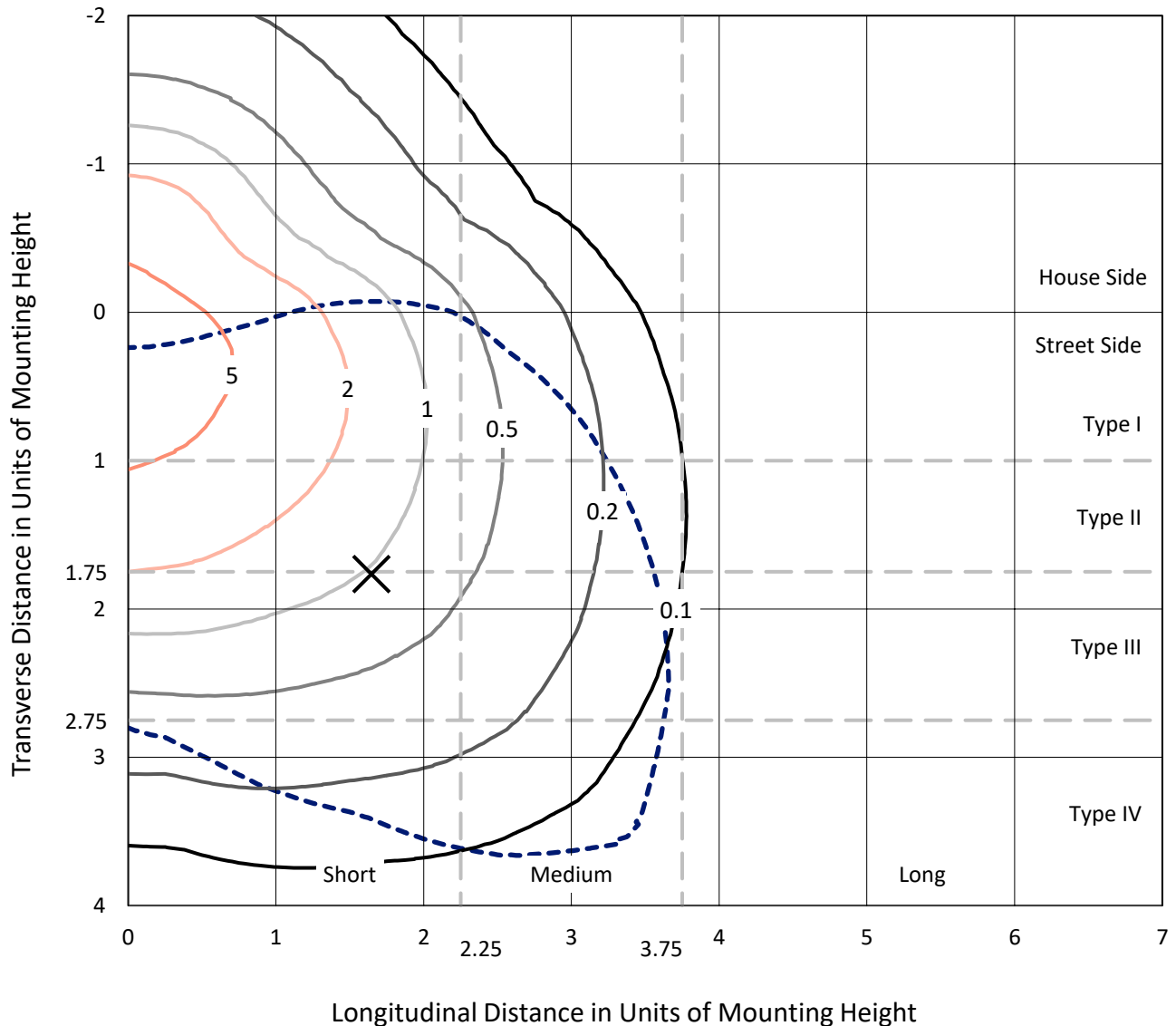
Lumens per Lamp: N/A
Luminaire Lumens: 16414 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 113
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.77%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P869038
 CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

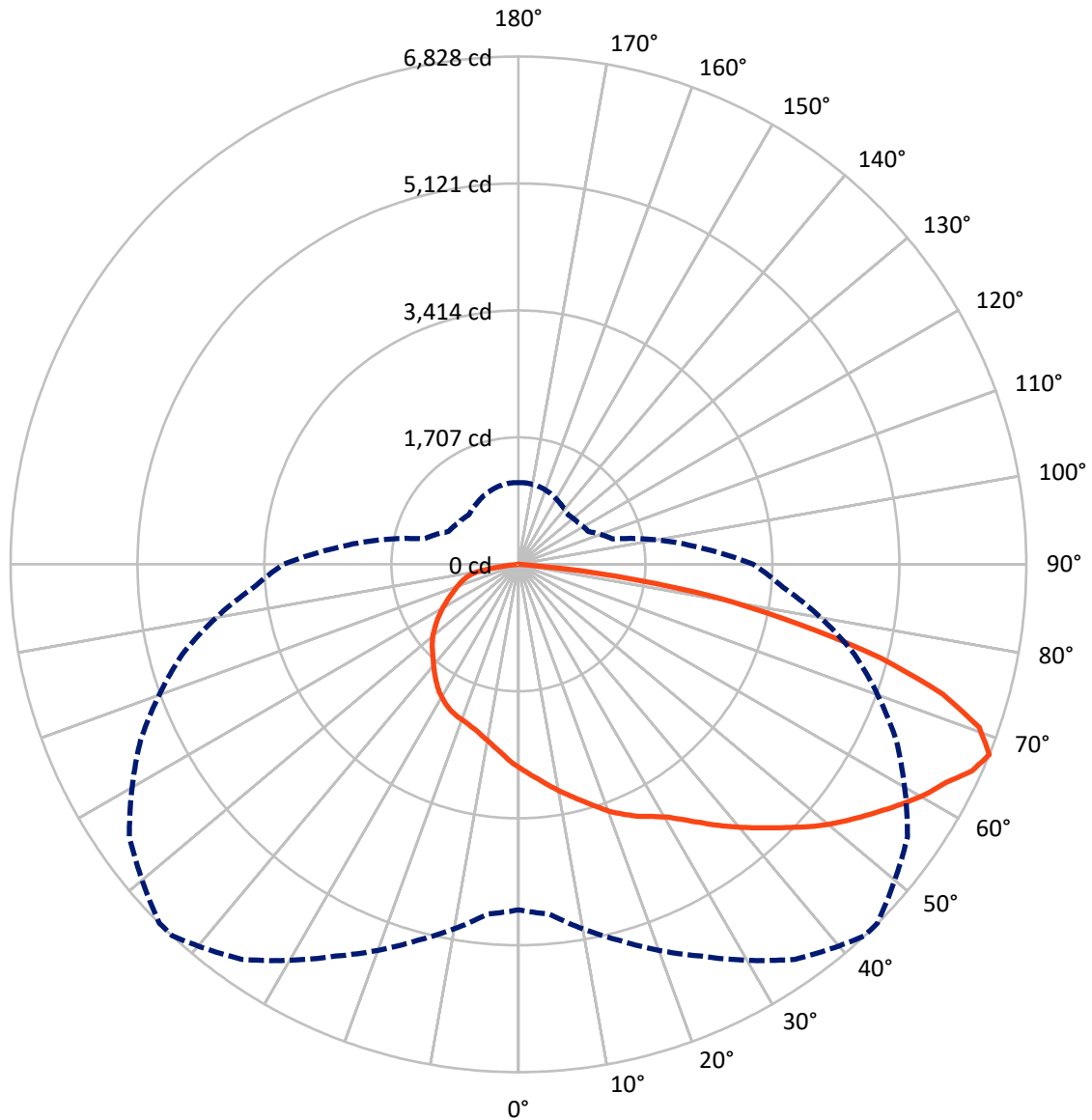
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P869038
CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P869038
 CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

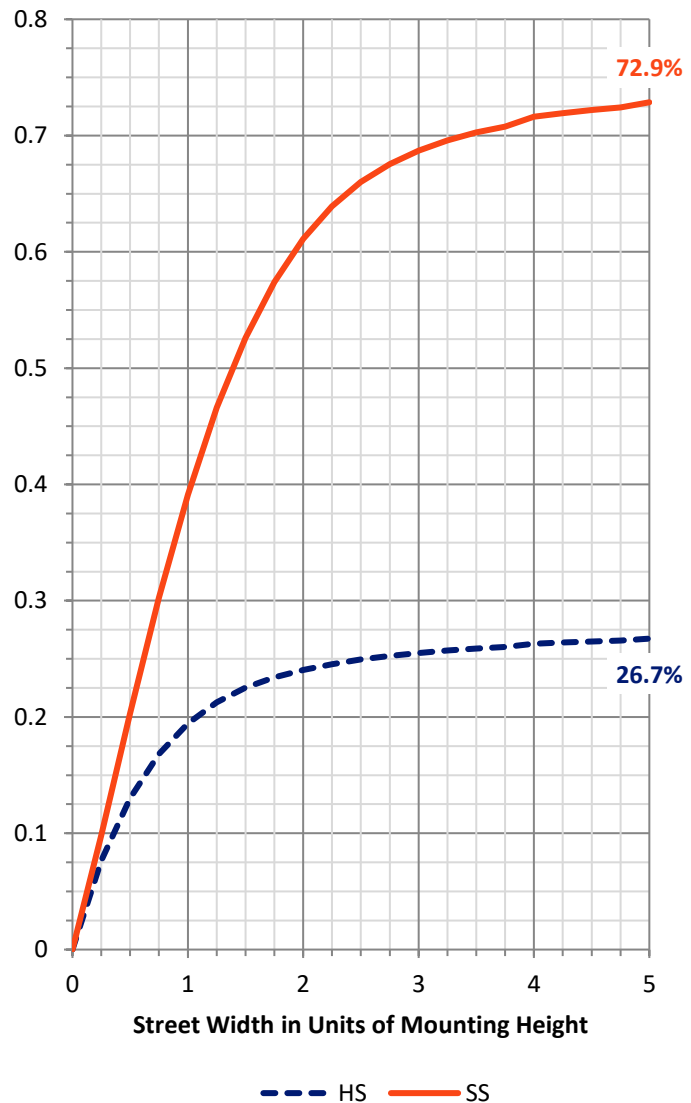
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4415.4	0.0	4415.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11998.6	0.0	11998.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	16414.0	0.0	16414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.6
10°-20°	800.8	4.9
20°-30°	1366.3	8.3
30°-40°	1992.7	12.1
40°-50°	2676.9	16.3
50°-60°	3277.0	20.0
60°-70°	3448.8	21.0
70°-80°	2251.6	13.7
80°-90°	337.8	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°	16414.0	100.0
0°-180°	16414.0	100.0



REPORT NUMBER: P869038

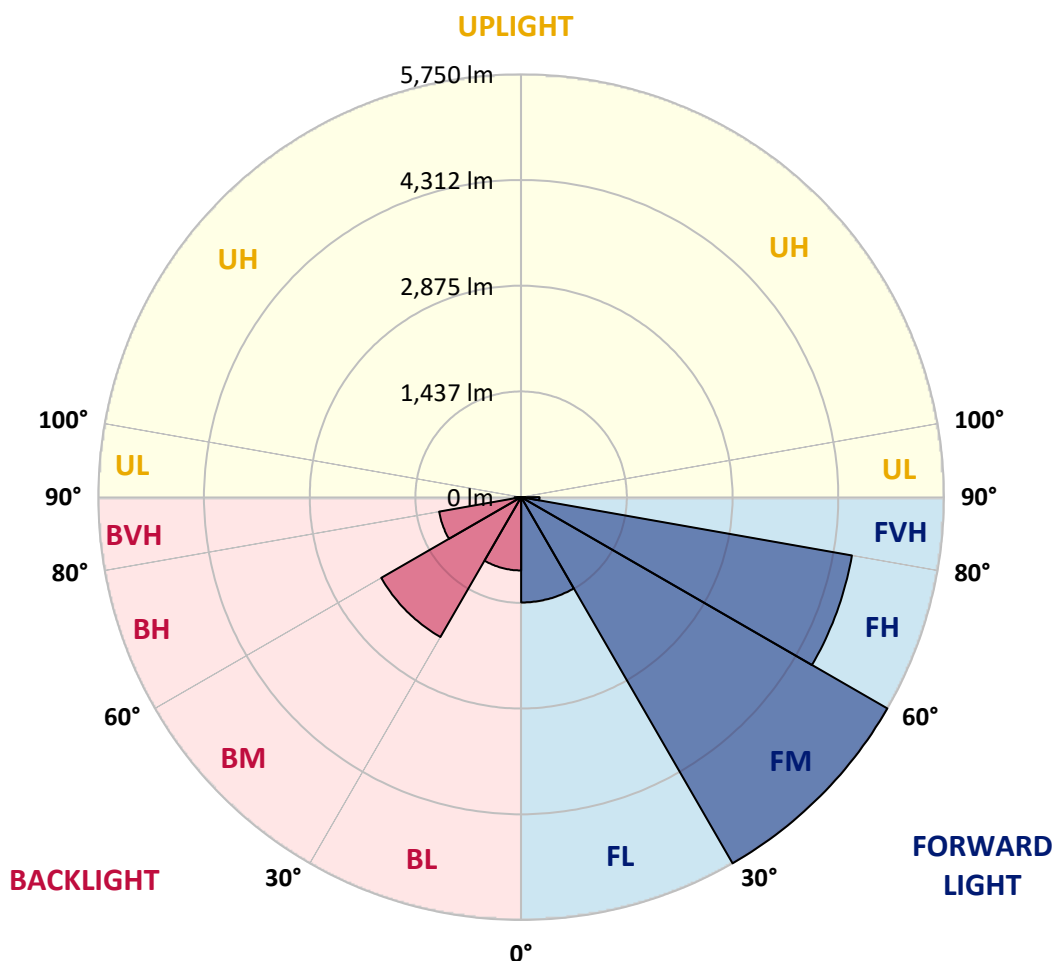
CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.4	8.7			
FM (30°-60°)	5749.7	35.0			
FH (60°-80°)	4567.2	27.8			G2/5000
FVH (80°-90°)	249.2	1.5			G3/500
BL (0°-30°)	996.8	6.1	B2/1000		
BM (30°-60°)	2196.9	13.4	B2/2500		
BH (60°-80°)	1133.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	88.6	0.5			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 IV Short





REPORT NUMBER: P869038

CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0
2.5°	2866.2	2862.9	2852.9	2846.3	2826.3	2823.0	2823.0	2803.1	2779.8	2766.6	2753.3
5°	2995.7	2979.1	2972.5	2959.2	2926.0	2906.1	2912.7	2876.2	2829.7	2796.5	2759.9
7.5°	3112.0	3105.3	3082.1	3065.5	3025.6	3005.7	2999.0	2942.6	2882.8	2833.0	2773.2
10°	3251.5	3234.9	3221.6	3188.4	3135.2	3105.3	3095.4	3022.3	2945.9	2879.5	2799.8
12.5°	3377.7	3357.7	3341.1	3307.9	3254.8	3205.0	3191.7	3108.6	3012.3	2922.7	2823.0
15°	3474.0	3477.3	3460.7	3430.8	3371.0	3311.2	3301.3	3191.7	3075.4	2965.8	2846.3
17.5°	3563.6	3576.9	3567.0	3547.0	3487.3	3427.5	3417.5	3294.6	3155.1	3015.7	2872.8
20°	3650.0	3650.0	3646.7	3633.4	3590.2	3550.4	3530.4	3407.6	3231.5	3068.8	2909.4
22.5°	3699.8	3713.1	3713.1	3713.1	3686.5	3653.3	3646.7	3527.1	3334.5	3135.2	2942.6
25°	3776.2	3792.8	3792.8	3786.2	3762.9	3753.0	3743.0	3630.1	3434.1	3211.6	2979.1
27.5°	3938.9	3935.6	3909.1	3875.8	3842.6	3839.3	3826.0	3746.3	3550.4	3294.6	3028.9
30°	4164.8	4171.4	4138.2	4035.3	3958.9	3942.3	3945.6	3875.8	3686.5	3390.9	3085.4
32.5°	4510.2	4510.2	4380.7	4247.8	4138.2	4095.0	4085.1	4025.3	3826.0	3497.2	3148.5
35°	4769.2	4759.3	4686.2	4530.1	4393.9	4271.1	4254.5	4174.8	3982.1	3616.8	3218.2
37.5°	4965.2	4985.1	4928.7	4809.1	4676.3	4463.7	4430.5	4317.6	4124.9	3733.0	3288.0
40°	5343.8	5294.0	5157.8	5048.2	4888.8	4653.0	4623.1	4483.6	4271.1	3862.6	3374.3
42.5°	5619.5	5549.7	5393.6	5247.5	5048.2	4842.3	4815.7	4663.0	4440.4	4008.7	3464.0
45°	6014.7	5858.6	5642.7	5513.2	5230.9	5048.2	5015.0	4849.0	4616.5	4164.8	3576.9
47.5°	6396.6	6124.3	5895.1	5835.4	5430.2	5270.7	5244.2	5051.5	4805.8	4334.2	3686.5
50°	6346.8	6167.5	6091.1	6034.6	5602.9	5480.0	5453.4	5257.5	4998.4	4513.5	3796.1
52.5°	6220.6	6237.2	6240.5	6104.4	5765.6	5675.9	5649.4	5480.0	5197.7	4669.6	3902.4
55°	6353.5	6373.4	6370.1	6164.1	5954.9	5871.9	5855.3	5705.8	5390.3	4815.7	3978.8
57.5°	6556.1	6489.6	6479.7	6313.6	6157.5	6081.1	6061.2	5931.7	5553.0	4922.0	4038.6
60°	6592.6	6459.7	6502.9	6346.8	6310.3	6287.0	6280.4	6127.6	5705.8	5008.4	4061.8
62.5°	6184.1	6160.8	6330.2	6267.1	6390.0	6456.4	6459.7	6267.1	5788.9	5041.6	4038.6
65°	5486.6	5579.6	5945.0	6127.6	6509.6	6698.9	6692.2	6350.1	5778.9	4945.3	3895.8
67.5°	4646.4	4719.4	5234.2	5812.1	6483.0	6828.4	6825.1	6386.7	5606.2	4679.6	3573.6
70°	3523.8	3753.0	4483.6	5244.2	6124.3	6572.7	6629.1	6180.8	5211.0	4194.7	3085.4
72.5°	2680.2	2716.7	3600.2	4397.3	5483.3	5964.9	5954.9	5523.2	4550.0	3533.8	2570.6
75°	1903.0	1982.8	2710.1	3407.6	4493.6	5028.3	5005.1	4530.1	3630.1	2750.0	1966.2
77.5°	1418.2	1448.0	1982.8	2527.4	3361.1	3842.6	3832.7	3347.8	2670.2	2019.3	1464.6
80°	1036.2	1086.0	1428.1	1763.6	2278.3	2693.5	2680.2	2221.9	1713.7	1411.5	1069.4
82.5°	581.2	617.7	830.3	1066.1	1202.3	1331.8	1275.3	1066.1	780.5	607.8	524.7
85°	16.6	19.9	29.9	36.5	63.1	106.3	116.2	103.0	122.9	76.4	83.0
87.5°	6.6	6.6	6.6	6.6	6.6	10.0	10.0	10.0	10.0	10.0	10.0
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: P869038

CATALOG NUMBER: EMM2-HSN-SA3A-750-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0
2.5°	2746.6	2733.3	2706.8	2690.2	2680.2	2666.9	2647.0	2633.7	2623.7	2637.0	2633.7
5°	2743.3	2716.7	2670.2	2637.0	2603.8	2577.3	2547.4	2524.1	2510.8	2517.5	2514.1
7.5°	2743.3	2710.1	2637.0	2583.9	2534.1	2494.2	2461.0	2431.1	2417.8	2421.2	2417.8
10°	2756.6	2710.1	2613.8	2537.4	2471.0	2424.5	2387.9	2361.4	2351.4	2361.4	2364.7
12.5°	2769.9	2710.1	2593.9	2497.5	2411.2	2361.4	2328.2	2311.6	2318.2	2321.5	2324.8
15°	2776.5	2706.8	2573.9	2451.0	2354.7	2301.6	2281.7	2278.3	2295.0	2311.6	2314.9
17.5°	2793.1	2703.5	2544.0	2404.5	2304.9	2261.7	2251.8	2265.1	2298.3	2321.5	2328.2
20°	2813.1	2710.1	2510.8	2348.1	2255.1	2221.9	2238.5	2268.4	2308.2	2341.4	2348.1
22.5°	2833.0	2713.4	2480.9	2298.3	2202.0	2195.3	2231.8	2275.0	2321.5	2354.7	2361.4
25°	2856.2	2713.4	2441.1	2235.2	2148.8	2158.8	2215.2	2271.7	2314.9	2358.1	2364.7
27.5°	2879.5	2720.1	2397.9	2165.4	2082.4	2112.3	2182.0	2251.8	2298.3	2341.4	2351.4
30°	2919.3	2733.3	2361.4	2105.6	2016.0	2055.8	2138.9	2218.6	2268.4	2314.9	2324.8
32.5°	2959.2	2753.3	2331.5	2042.5	1949.5	1996.0	2089.0	2178.7	2231.8	2275.0	2281.7
35°	3012.3	2779.8	2308.2	1979.4	1883.1	1919.7	2019.3	2118.9	2178.7	2211.9	2228.5
37.5°	3068.8	2816.4	2288.3	1923.0	1810.1	1843.3	1949.5	2055.8	2118.9	2152.1	2158.8
40°	3138.5	2866.2	2275.0	1869.8	1740.3	1766.9	1873.2	1989.4	2049.2	2072.4	2085.7
42.5°	3214.9	2919.3	2265.1	1816.7	1663.9	1690.5	1803.4	1916.3	1976.1	1996.0	2006.0
45°	3311.2	2989.1	2258.4	1760.2	1600.8	1624.1	1737.0	1849.9	1899.7	1926.3	1936.3
47.5°	3400.9	3058.8	2238.5	1693.8	1531.1	1564.3	1667.2	1766.9	1823.3	1839.9	1849.9
50°	3490.6	3118.6	2198.6	1620.7	1468.0	1497.9	1590.9	1663.9	1707.1	1727.0	1733.7
52.5°	3576.9	3161.8	2135.5	1544.4	1401.5	1421.5	1497.9	1567.6	1597.5	1604.1	1624.1
55°	3633.4	3185.0	2045.9	1454.7	1335.1	1341.8	1398.2	1461.3	1477.9	1481.3	1481.3
57.5°	3673.2	3171.7	1939.6	1365.0	1268.7	1268.7	1301.9	1351.7	1358.4	1361.7	1368.3
60°	3679.9	3125.3	1803.4	1282.0	1195.6	1185.7	1218.9	1248.8	1252.1	1258.7	1265.4
62.5°	3630.1	3022.3	1657.3	1202.3	1125.9	1102.6	1132.5	1162.4	1179.0	1189.0	1195.6
65°	3477.3	2813.1	1491.2	1122.6	1059.5	1019.6	1056.1	1106.0	1139.2	1142.5	1142.5
67.5°	3158.5	2474.3	1315.2	1039.5	979.8	943.2	989.7	1042.9	1082.7	1099.3	1096.0
70°	2676.9	2099.0	1152.5	953.2	900.0	876.8	926.6	986.4	1019.6	1032.9	1039.5
72.5°	2155.5	1680.5	1009.6	866.8	830.3	817.0	866.8	926.6	973.1	993.0	996.4
75°	1677.2	1321.8	890.1	777.2	747.3	750.6	803.7	863.5	913.3	923.3	893.4
77.5°	1301.9	1052.8	777.2	670.9	654.3	677.5	730.7	793.8	823.7	833.6	813.7
80°	939.9	807.1	627.7	528.1	528.1	564.6	611.1	684.2	694.1	680.8	687.5
82.5°	445.0	391.9	308.9	255.7	239.1	265.7	282.3	305.6	332.1	338.8	322.2
85°	59.8	39.9	29.9	33.2	29.9	19.9	13.3	13.3	13.3	10.0	10.0
87.5°	10.0	10.0	6.6	6.6	6.6	6.6	6.6	6.6	3.3	3.3	3.3
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

REPORT NUMBER: SP1-2407-157-6

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: SP1-2407-157-6

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

REPORT NUMBER: SP1-2407-157-6

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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			

REPORT NUMBER: SP1-2407-157-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.81

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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			

REPORT NUMBER: SP1-2407-157-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.73

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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

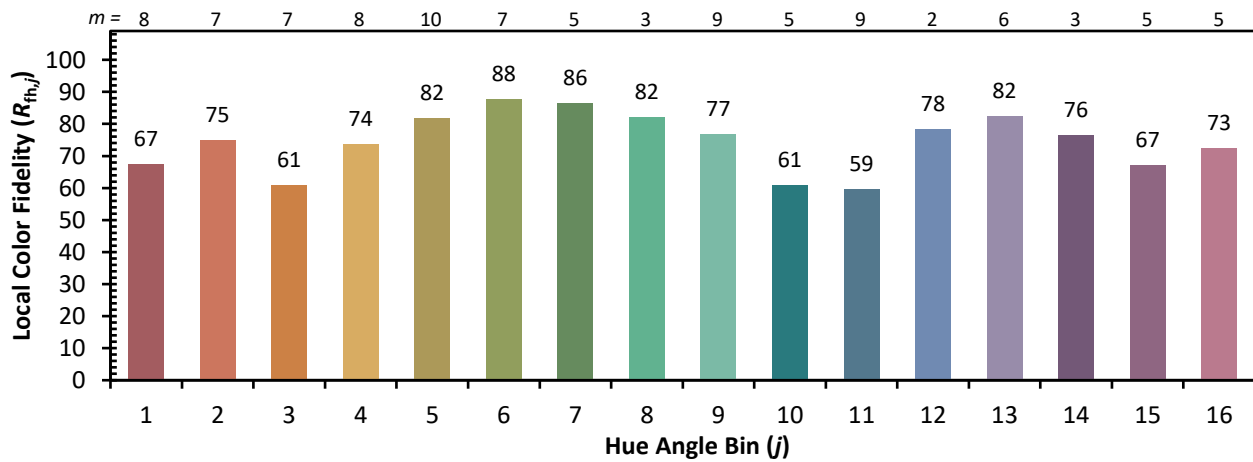


Individual Sample Fidelity Index ($R_{f,i}$)

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)