

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: P868815

Luminaire Tested: **EMM2-HSN-SA3B-730-U-T2R**

Issue Date: 08/22/2024

Test Information

Test Method: LM-79-08
Report Number: P868815
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/22/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM2-HSN-SA3B-730-U-T2R
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 150W 70CRI 3000K
FITXURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source: (30) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

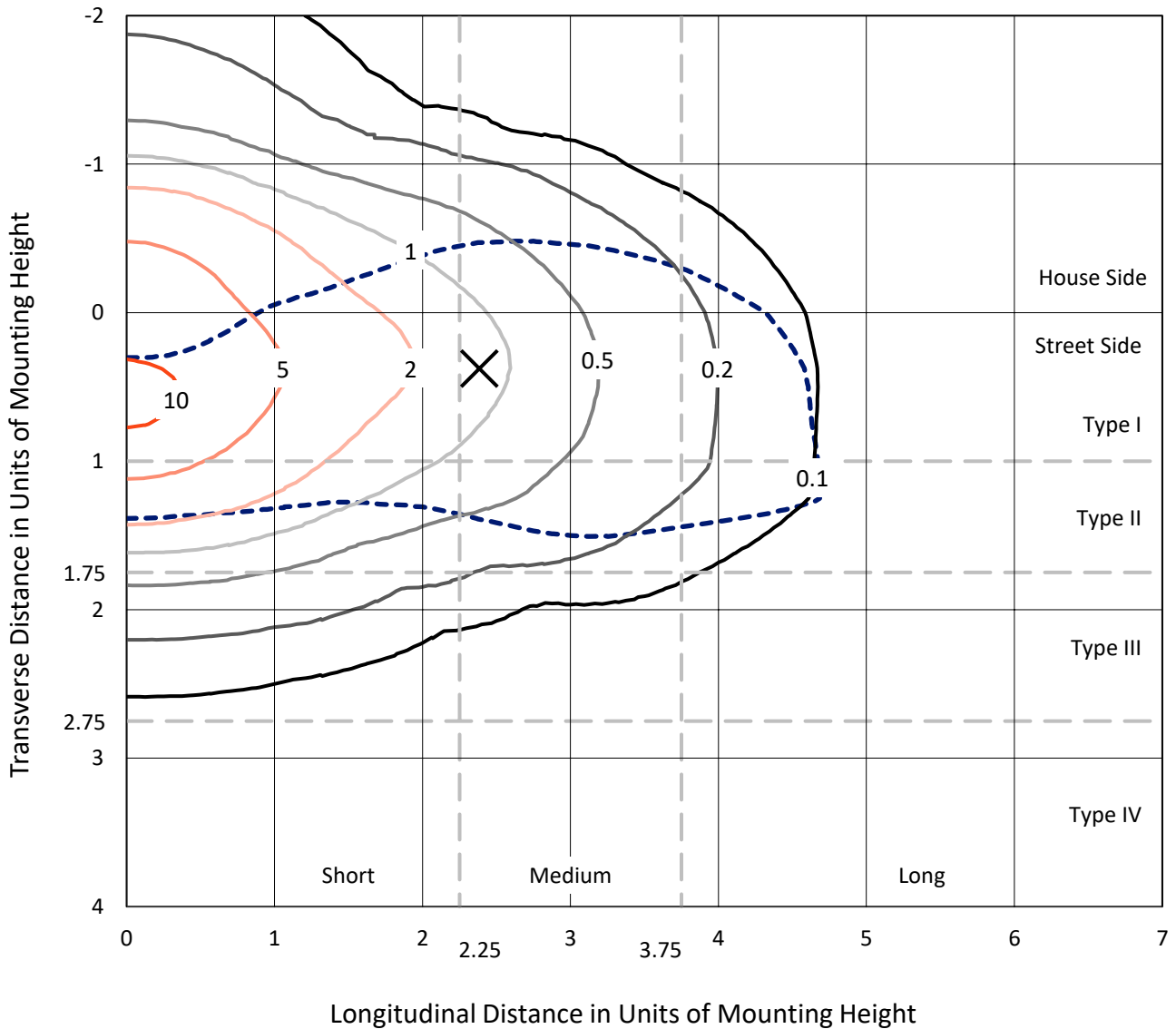
Lumens per Lamp: N/A
Luminaire Lumens: 18088.1 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 134
Input Voltage (V): 120
Input Current (A_{in}): 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-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

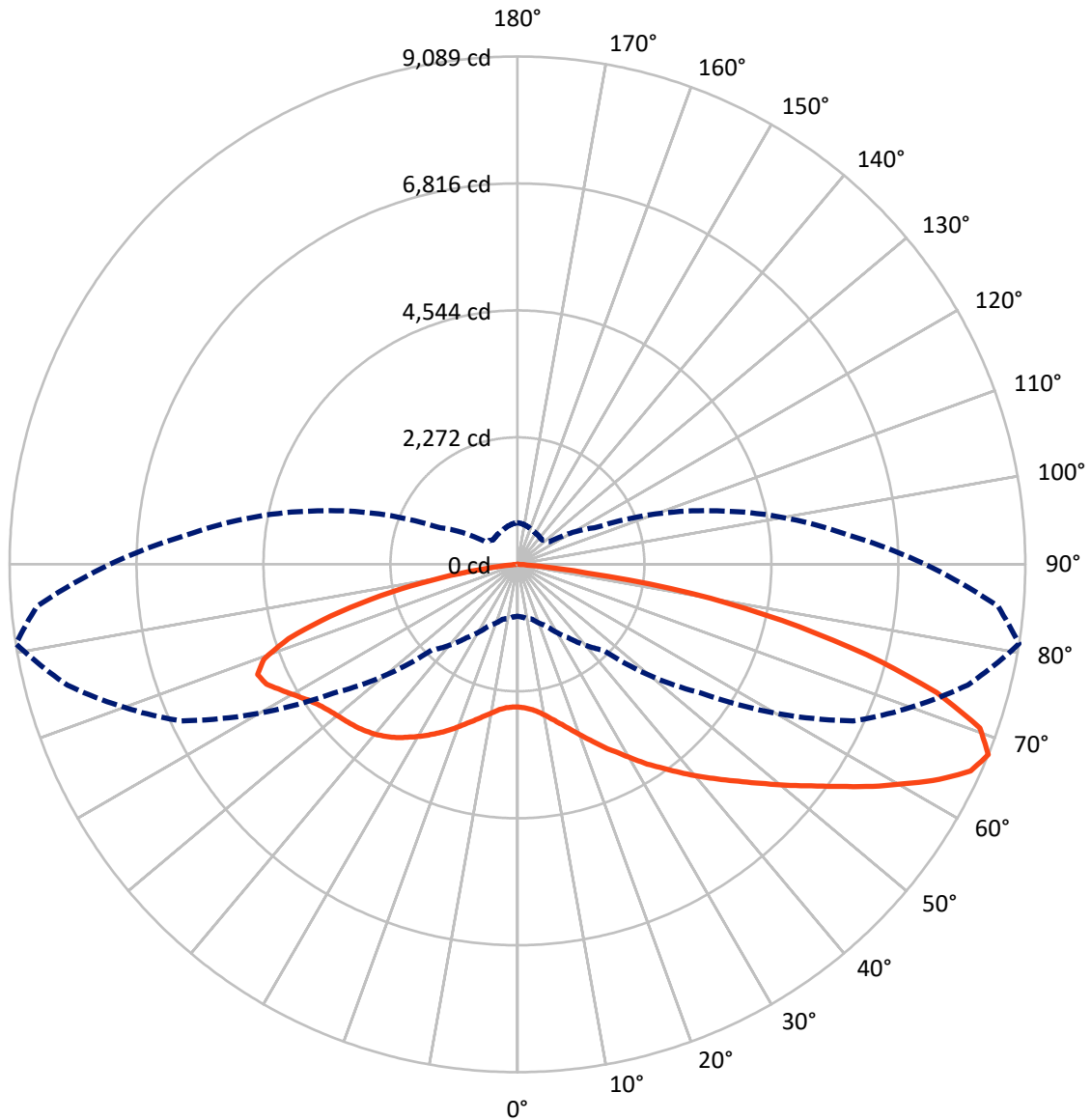
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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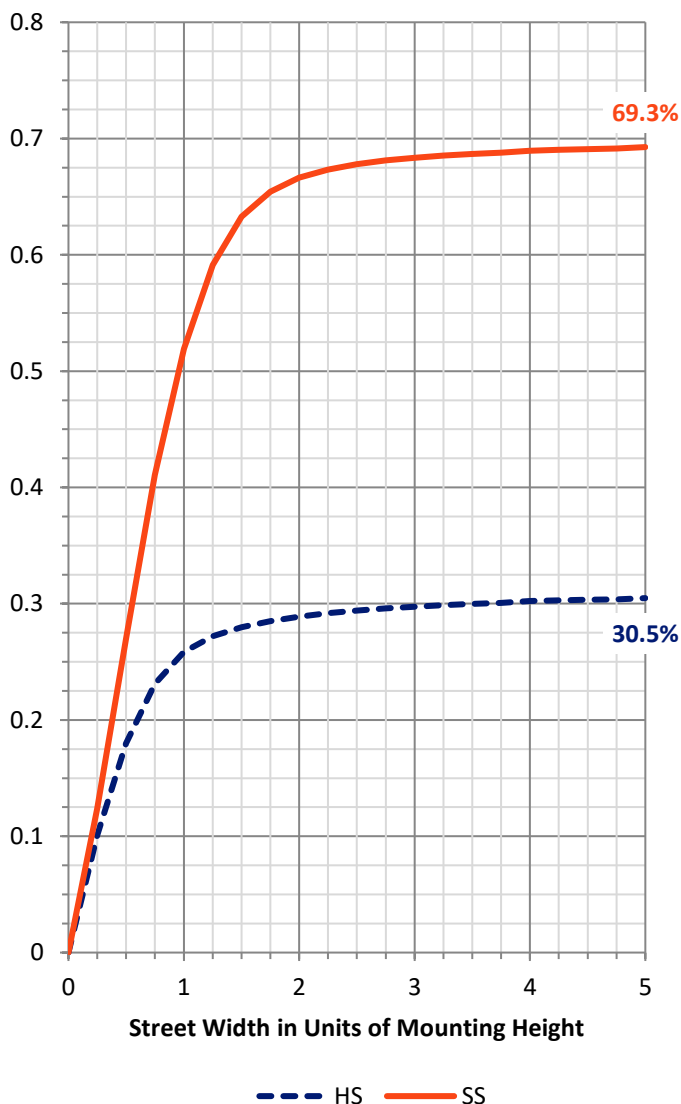
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5542.6	0.0	5542.6
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	12545.4	0.0	12545.4
	% Fixture	69.4	0.0	69.4
Total	Lumens	18088.1	0.0	18088.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	1.4
10°-20°	924.4	5.1
20°-30°	1841.2	10.2
30°-40°	2892.5	16.0
40°-50°	3587.2	19.8
50°-60°	3506.7	19.4
60°-70°	2948.9	16.3
70°-80°	1873.8	10.4
80°-90°	252.9	1.4
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°	18088.1	100.0
0°-180°	18088.1	100.0

Coefficient of Utilization



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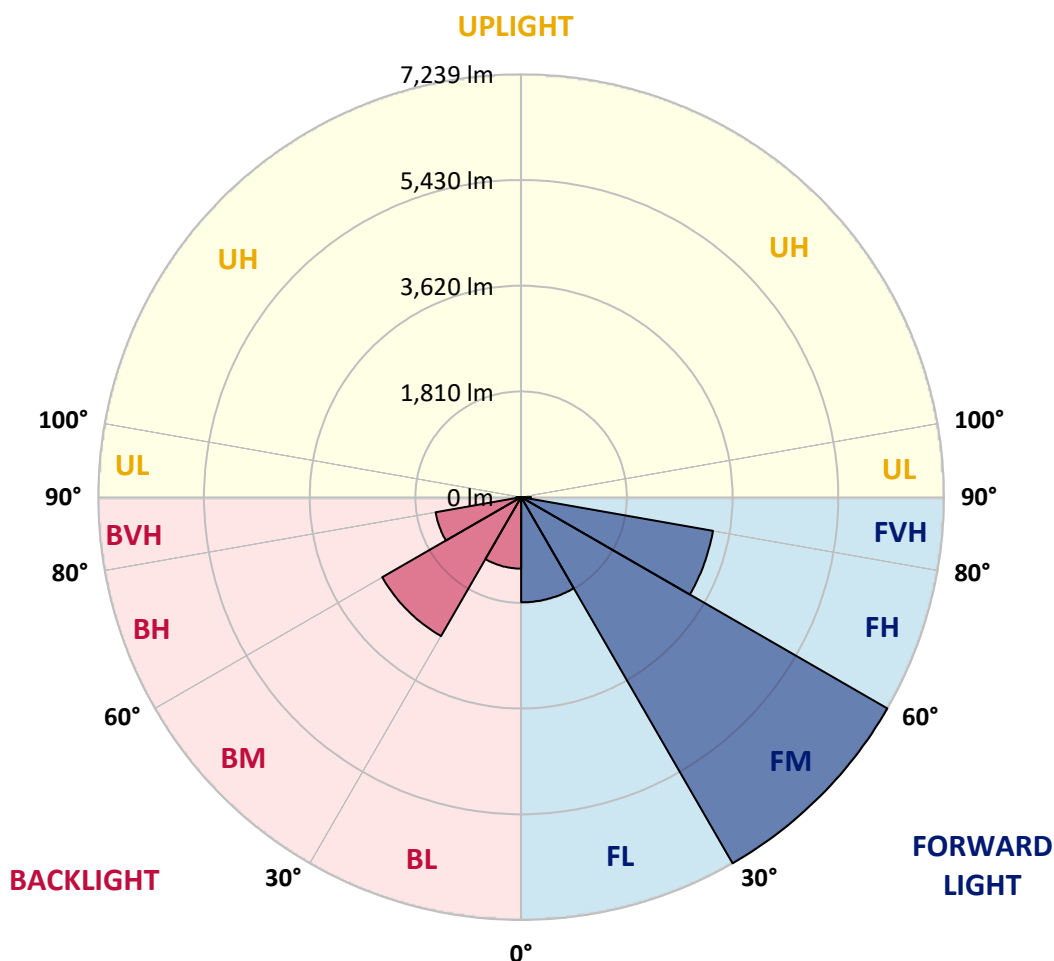
CATALOG NUMBER: EMM2-HSN-SA3B-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.7	10.0			
FM (30°-60°)	7239.4	40.0			
FH (60°-80°)	3334.9	18.4			G2/5000
FVH (80°-90°)	169.5	0.9			G2/225
BL (0°-30°)	1224.3	6.8	B3/2500		
BM (30°-60°)	2747.1	15.2	B3/5000		
BH (60°-80°)	1487.8	8.2	B3/2500		G3/2500
BVH (80°-90°)	83.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7
2.5°	2643.4	2639.8	2639.8	2611.1	2611.1	2603.9	2607.5	2586.0	2575.2	2571.6	2568.1
5°	2833.5	2833.5	2812.0	2794.0	2758.2	2725.9	2697.2	2654.1	2621.9	2607.5	2596.8
7.5°	3120.4	3098.9	3091.7	3037.9	2962.6	2898.0	2840.6	2747.4	2686.4	2664.9	2650.6
10°	3471.9	3443.2	3389.4	3328.4	3231.6	3134.8	3020.0	2894.4	2794.0	2751.0	2733.0
12.5°	3834.2	3794.7	3719.4	3662.0	3536.5	3389.4	3228.0	3055.9	2916.0	2855.0	2822.7
15°	4232.3	4210.8	4121.1	4006.3	3859.3	3651.2	3450.4	3238.8	3059.4	2973.4	2919.6
17.5°	4662.7	4630.4	4533.6	4393.7	4185.7	3938.2	3705.0	3432.5	3224.4	3113.2	3052.3
20°	5085.9	5078.7	4935.3	4802.6	4558.7	4250.2	3948.9	3662.0	3400.2	3271.1	3192.1
22.5°	5559.4	5512.7	5387.2	5200.7	4910.2	4626.8	4271.7	3898.7	3590.3	3439.6	3350.0
25°	6050.7	6047.1	5892.9	5663.4	5322.6	4964.0	4580.2	4167.7	3816.2	3633.3	3514.9
27.5°	6660.5	6613.8	6416.6	6154.7	5760.2	5347.7	4903.0	4447.5	4031.4	3812.6	3669.2
30°	7194.9	7180.5	6958.2	6664.0	6222.9	5731.5	5250.9	4763.1	4286.1	4027.8	3870.0
32.5°	7628.9	7610.9	7420.8	7126.7	6653.3	6144.0	5591.6	5060.8	4540.7	4261.0	4052.9
35°	7991.1	7962.4	7765.2	7471.1	7062.2	6545.7	5957.5	5372.8	4820.5	4479.8	4282.5
37.5°	8134.6	8109.5	7948.1	7704.2	7327.6	6854.1	6287.4	5717.2	5100.3	4727.2	4504.9
40°	8080.8	8066.4	7951.7	7783.1	7496.2	7101.6	6603.1	6075.8	5415.9	4989.1	4723.7
42.5°	7826.1	7826.1	7754.4	7668.3	7524.9	7241.5	6882.8	6420.2	5720.8	5250.9	4931.7
45°	7467.5	7453.1	7428.0	7395.7	7374.2	7266.6	7065.8	6717.8	6057.9	5537.8	5182.8
47.5°	6990.4	7001.2	6983.3	6997.6	7087.3	7155.4	7144.7	6994.0	6402.2	5853.5	5430.2
50°	6240.8	6291.0	6348.4	6517.0	6699.9	6890.0	7065.8	7191.3	6807.5	6212.1	5717.2
52.5°	5311.9	5333.4	5487.6	5885.7	6276.7	6527.8	6861.3	7281.0	7166.2	6585.1	6054.3
55°	4167.7	4207.2	4440.3	5003.4	5699.2	6179.8	6570.8	7241.5	7532.0	7012.0	6448.8
57.5°	2987.7	3012.8	3385.8	3966.9	4874.3	5681.3	6240.8	7083.7	7826.1	7496.2	6854.1
60°	2123.3	2169.9	2410.2	2976.9	3848.5	4992.7	5939.5	6854.1	8098.7	7969.6	7385.0
62.5°	1567.4	1592.5	1761.1	2173.5	2890.9	4052.9	5548.6	6685.6	8278.1	8478.9	7915.8
65°	1180.0	1190.8	1305.6	1588.9	2162.8	2987.7	4931.7	6653.3	8378.5	8912.9	8385.7
67.5°	928.9	946.9	1018.6	1212.3	1610.4	2173.5	4017.1	6631.8	8342.6	9088.6	8633.1
70°	781.9	785.5	839.3	946.9	1205.1	1563.8	3002.1	6309.0	8141.8	8780.2	8403.6
72.5°	677.9	677.9	703.0	789.1	968.4	1183.6	2044.4	5537.8	7632.5	7844.1	7607.3
75°	548.8	545.2	588.2	670.7	778.3	911.0	1373.7	4192.8	6563.6	6456.0	6262.3
77.5°	477.0	473.4	509.3	581.0	642.0	728.1	939.7	2722.3	5164.8	4842.0	4720.1
80°	408.9	398.1	426.8	495.0	527.2	566.7	649.2	1585.3	3375.1	3174.2	3027.2
82.5°	308.5	283.3	276.2	333.6	355.1	330.0	330.0	555.9	1226.6	1237.4	1144.2
85°	25.1	28.7	35.9	43.0	61.0	68.1	71.7	118.4	182.9	175.7	179.3
87.5°	3.6	3.6	3.6	7.2	7.2	10.8	10.8	10.8	14.3	14.3	14.3
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°	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7
2.5°	2564.5	2557.3	2550.1	2550.1	2550.1	2543.0	2539.4	2539.4	2535.8	2525.0	2521.4
5°	2589.6	2578.8	2568.1	2568.1	2568.1	2564.5	2560.9	2564.5	2560.9	2550.1	2546.5
7.5°	2639.8	2625.4	2611.1	2611.1	2618.3	2614.7	2614.7	2618.3	2614.7	2603.9	2600.3
10°	2711.5	2690.0	2682.8	2682.8	2690.0	2686.4	2682.8	2682.8	2679.2	2661.3	2668.5
12.5°	2790.4	2768.9	2761.7	2765.3	2761.7	2754.6	2758.2	2747.4	2743.8	2715.1	2711.5
15°	2890.9	2865.8	2851.4	2855.0	2844.2	2829.9	2815.5	2808.4	2794.0	2768.9	2761.7
17.5°	3005.6	2966.2	2948.2	2948.2	2926.7	2898.0	2876.5	2855.0	2833.5	2804.8	2797.6
20°	3116.8	3081.0	3052.3	3045.1	3002.1	2955.4	2916.0	2880.1	2855.0	2822.7	2815.5
22.5°	3256.7	3206.5	3167.0	3134.8	3070.2	2994.9	2933.9	2883.7	2847.8	2812.0	2801.2
25°	3403.8	3332.0	3267.5	3206.5	3116.8	3009.2	2923.1	2851.4	2804.8	2765.3	2758.2
27.5°	3550.8	3457.6	3364.3	3267.5	3131.2	2991.3	2869.3	2783.3	2722.3	2672.1	2664.9
30°	3708.6	3593.9	3446.8	3306.9	3127.6	2944.7	2790.4	2668.5	2596.8	2539.4	2532.2
32.5°	3870.0	3726.6	3525.7	3335.6	3109.7	2876.5	2675.7	2546.5	2456.9	2392.3	2374.4
35°	4049.4	3873.6	3597.4	3346.4	3059.4	2776.1	2553.7	2392.3	2288.3	2223.7	2209.4
37.5°	4232.3	4009.9	3644.1	3339.2	2987.7	2657.7	2395.9	2230.9	2109.0	2019.3	2005.0
40°	4418.8	4135.4	3672.8	3303.3	2887.3	2510.7	2248.8	2048.0	1872.2	1789.8	1750.3
42.5°	4590.9	4250.2	3687.1	3253.1	2776.1	2356.4	2055.2	1793.3	1628.4	1538.7	1556.6
45°	4770.3	4357.8	3690.7	3192.1	2629.0	2159.2	1811.3	1567.4	1402.4	1334.2	1327.1
47.5°	4924.5	4447.5	3683.5	3106.1	2464.0	1933.2	1556.6	1323.5	1201.5	1137.0	1129.8
50°	5129.0	4547.9	3672.8	3005.6	2248.8	1675.0	1319.9	1129.8	1018.6	968.4	964.8
52.5°	5333.4	4659.1	3665.6	2865.8	2022.9	1431.1	1104.7	954.1	878.7	853.6	846.5
55°	5602.4	4795.4	3669.2	2704.4	1764.6	1180.0	936.1	832.1	792.7	781.9	781.9
57.5°	5910.8	4971.1	3690.7	2525.0	1495.6	975.6	814.2	767.5	764.0	771.1	774.7
60°	6283.9	5204.3	3733.7	2338.5	1248.2	824.9	742.4	738.9	749.6	774.7	781.9
62.5°	6703.5	5458.9	3787.5	2094.6	1011.4	724.5	703.0	717.3	731.7	760.4	764.0
65°	7072.9	5745.9	3819.8	1861.5	846.5	667.1	677.9	685.1	720.9	760.4	760.4
67.5°	7295.3	5953.9	3697.9	1567.4	706.6	616.9	638.4	659.9	699.4	735.3	742.4
70°	7220.0	5885.7	3281.8	1215.9	599.0	570.3	595.4	627.7	667.1	710.2	731.7
72.5°	6696.3	5401.5	2664.9	885.9	520.1	527.2	559.5	602.6	638.4	685.1	713.7
75°	5598.8	4508.5	1922.5	638.4	455.5	484.2	534.4	570.3	595.4	606.1	609.7
77.5°	4250.2	3314.1	1309.1	477.0	394.5	434.0	487.8	527.2	534.4	541.6	548.8
80°	2776.1	2109.0	738.9	333.6	301.3	355.1	398.1	441.2	426.8	448.3	455.5
82.5°	1172.8	921.8	337.1	165.0	139.9	150.6	161.4	143.5	132.7	132.7	114.8
85°	154.2	118.4	50.2	21.5	17.9	10.8	10.8	10.8	7.2	7.2	7.2
87.5°	14.3	14.3	10.8	10.8	7.2	7.2	3.6	7.2	3.6	3.6	3.6
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

REPORT NUMBER: SP1-2407-157-4

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^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/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

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	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

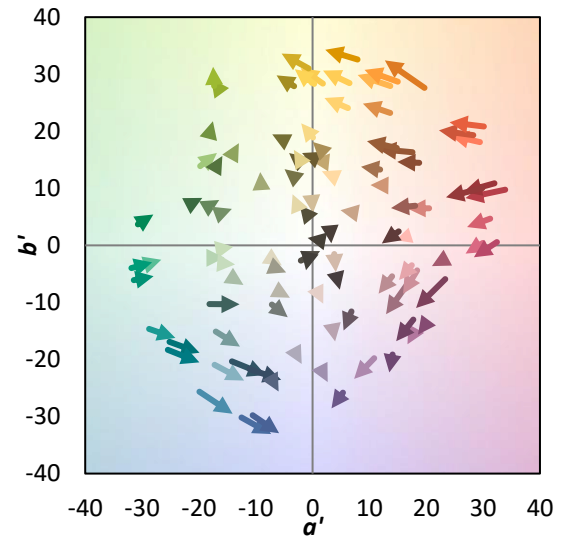
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	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

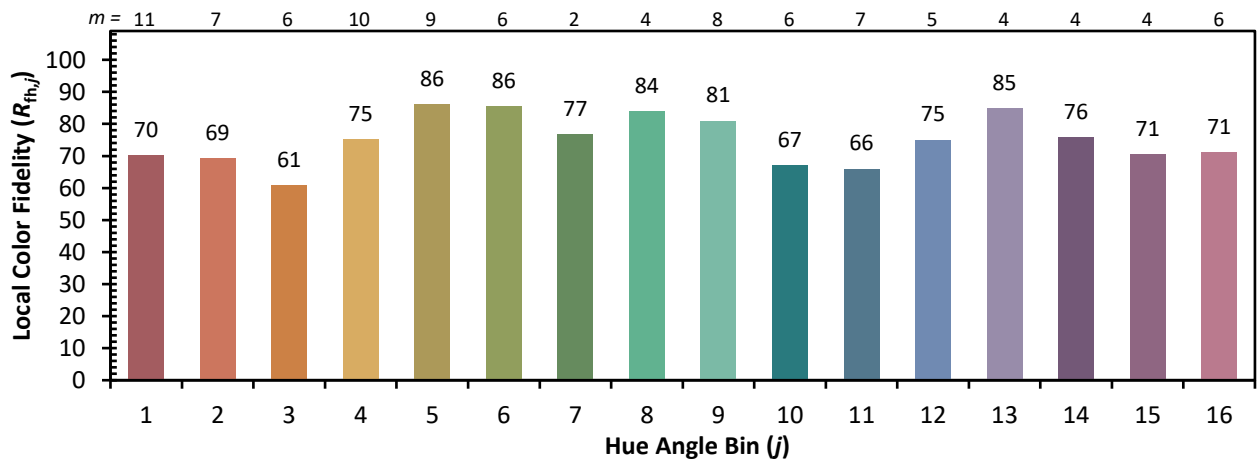
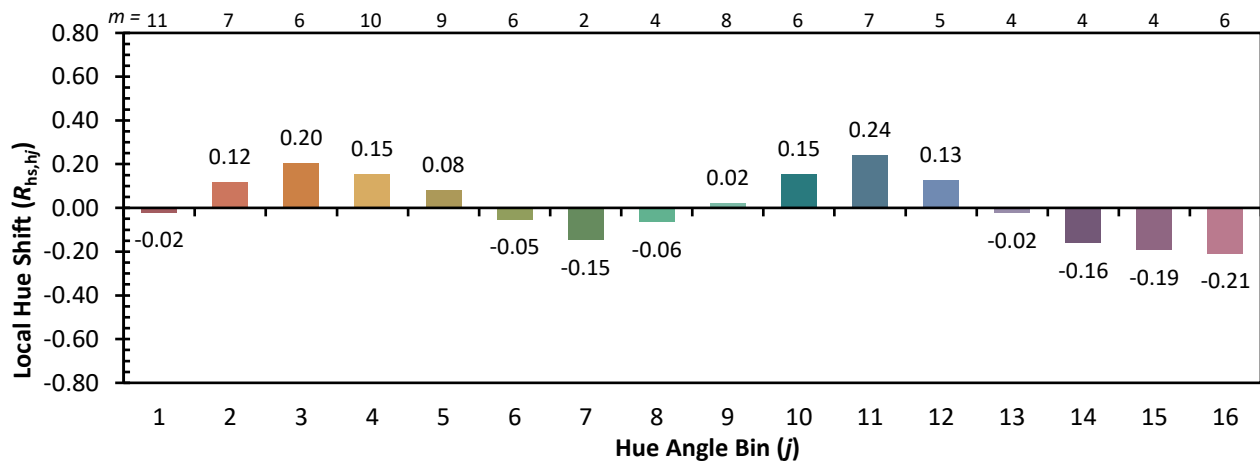
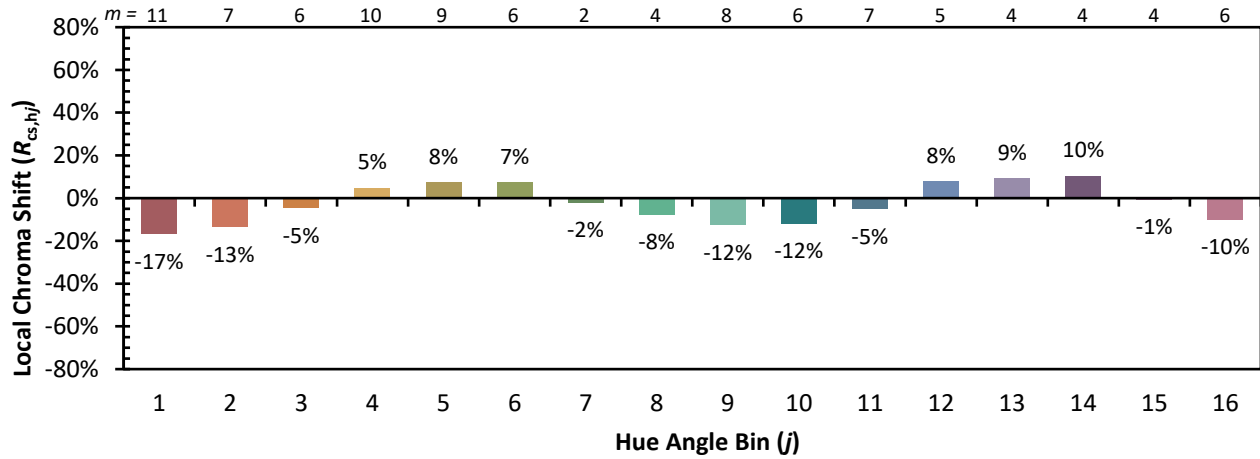


Individual Sample Fidelity Index ($R_{f,i}$)

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)