

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: P870610

Luminaire Tested: **EMM2-HTN-SA2B-840-U-T1**

Issue Date: 09/05/2024



Test Information

Test Method: LM-79-08
Report Number: P870610
Test Lab: INNOVATION CENTER(G3)
Issue Date: 09/05/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM2-HTN-SA2B-840-U-T1
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 100W 80CRI 4000K
FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source: (20) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

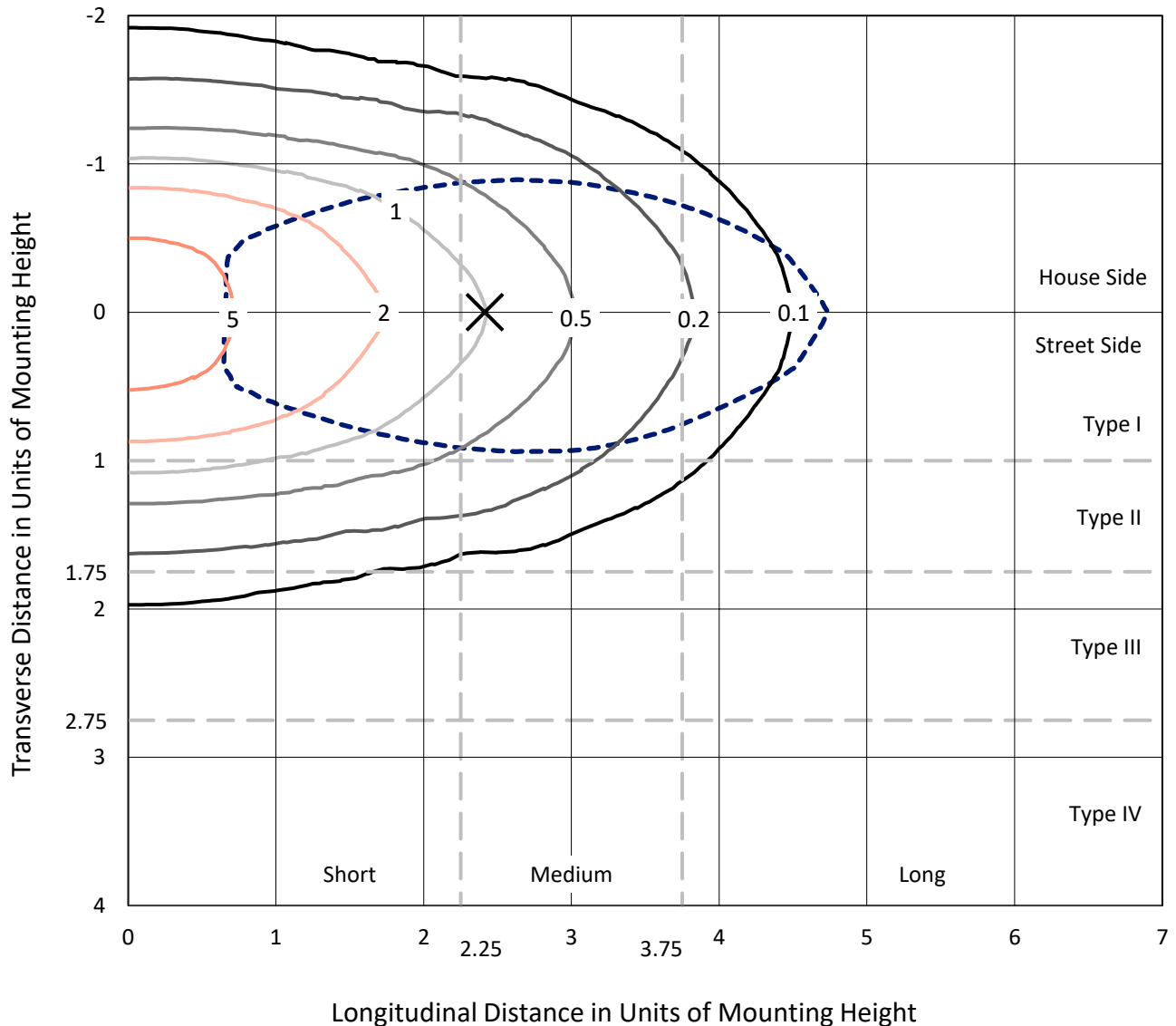
Lumens per Lamp: N/A
Luminaire Lumens: 12658.2 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 90
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P870610
 CATALOG NUMBER: EMM2-HTN-SA2B-840-U-T1

Iso-Footcandle Lines of Horizontal Illumination

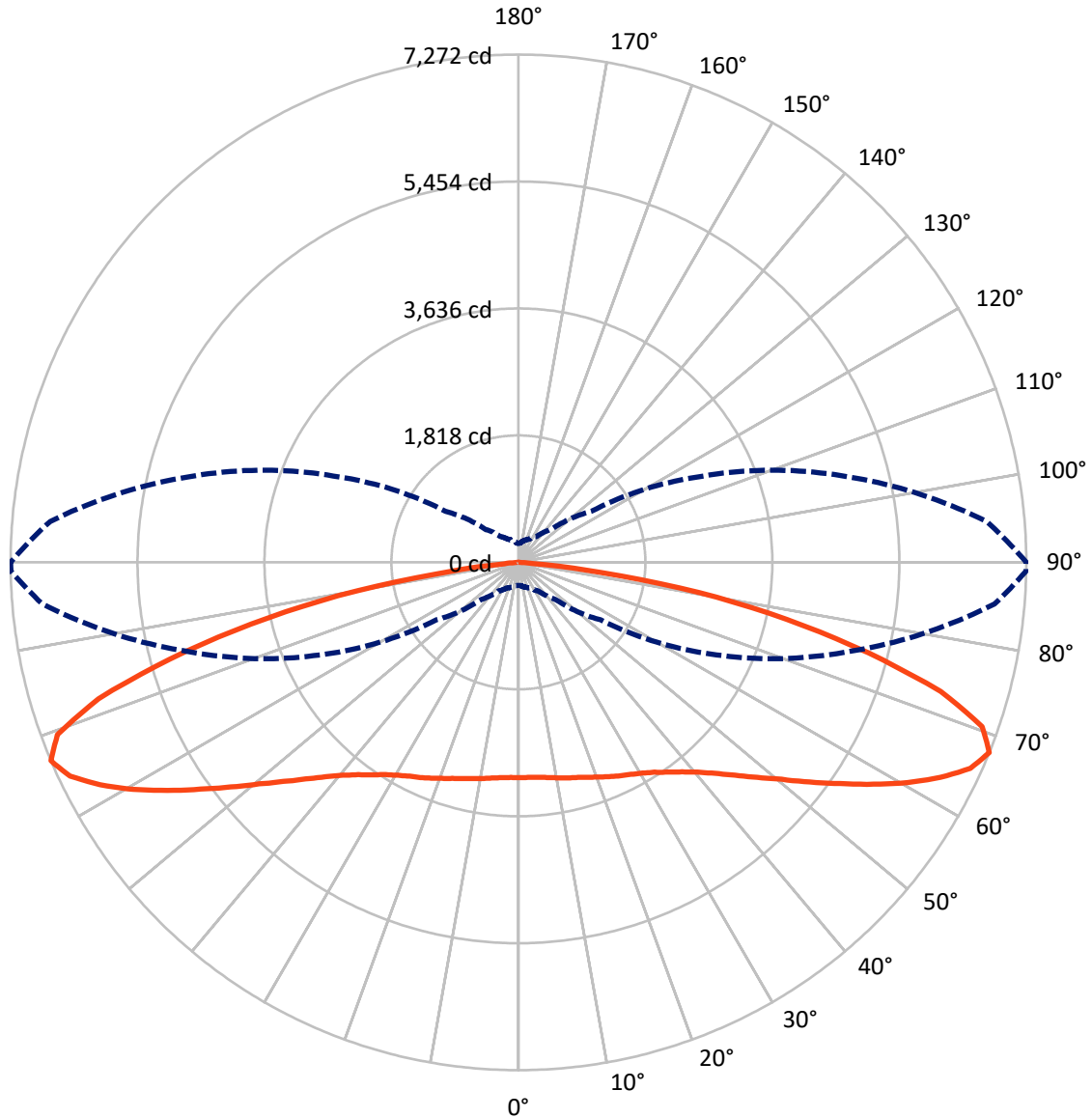
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	6216.7	0.0	6216.7
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	6441.5	0.0	6441.5
	% Fixture	50.9	0.0	50.9
Total	Lumens	12658.2	0.0	12658.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	2.3
10°-20°	888.2	7.0
20°-30°	1470.0	11.6
30°-40°	1949.2	15.4
40°-50°	2197.7	17.4
50°-60°	2253.0	17.8
60°-70°	2127.9	16.8
70°-80°	1305.7	10.3
80°-90°	170.8	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°	12658.2	100.0
0°-180°	12658.2	100.0



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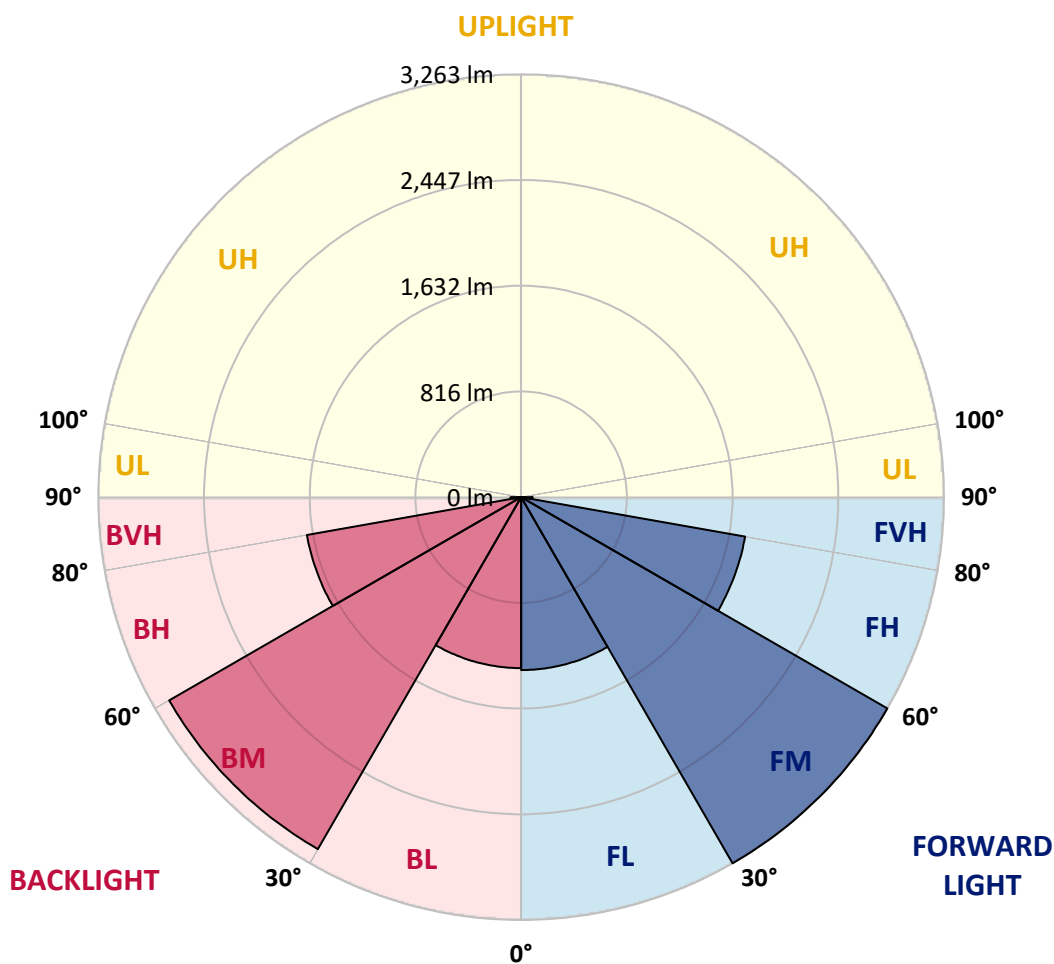
CATALOG NUMBER: EMM2-HTN-SA2B-840-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.5	10.5			
FM (30°-60°)	3263.1	25.8			
FH (60°-80°)	1754.8	13.9			G1/1800
FVH (80°-90°)	89.0	0.7			G1/100
BL (0°-30°)	1319.3	10.4	B3/2500		
BM (30°-60°)	3136.8	24.8	B3/5000		
BH (60°-80°)	1678.8	13.3	B3/2500		G3/2500
BVH (80°-90°)	81.8	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°	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1
2.5°	3096.3	3096.3	3089.0	3076.8	3074.4	3076.8	3091.4	3084.1	3084.1	3086.6	3084.1
5°	3096.3	3096.3	3091.4	3079.3	3079.3	3079.3	3096.3	3089.0	3091.4	3093.9	3093.9
7.5°	3101.2	3101.2	3096.3	3086.6	3086.6	3086.6	3110.9	3106.0	3106.0	3113.3	3108.4
10°	3113.3	3108.4	3103.6	3106.0	3098.7	3110.9	3123.0	3125.5	3135.2	3140.0	3137.6
12.5°	3113.3	3108.4	3096.3	3110.9	3110.9	3127.9	3144.9	3154.6	3166.8	3166.8	3166.8
15°	3098.7	3093.9	3084.1	3108.4	3118.2	3140.0	3164.3	3178.9	3200.8	3200.8	3198.4
17.5°	3081.7	3074.4	3069.6	3106.0	3127.9	3157.1	3193.5	3212.9	3237.3	3239.7	3234.8
20°	3050.1	3047.7	3050.1	3098.7	3137.6	3178.9	3222.7	3249.4	3281.0	3290.7	3283.4
22.5°	3016.1	3016.1	3025.8	3091.4	3152.2	3208.1	3266.4	3300.4	3332.0	3341.8	3332.0
25°	2969.9	2969.9	2989.4	3067.1	3157.1	3239.7	3307.7	3353.9	3383.1	3392.8	3387.9
27.5°	2899.4	2899.4	2921.3	3018.5	3142.5	3264.0	3351.5	3404.9	3436.5	3446.3	3441.4
30°	2799.8	2794.9	2824.1	2945.6	3115.7	3290.7	3402.5	3458.4	3499.7	3507.0	3499.7
32.5°	2641.8	2649.1	2692.9	2846.0	3072.0	3307.7	3463.3	3528.9	3575.1	3589.7	3584.8
35°	2449.8	2462.0	2522.7	2719.6	2989.4	3305.3	3526.5	3606.7	3667.4	3686.9	3684.4
37.5°	2221.4	2238.4	2313.7	2544.6	2865.4	3268.8	3584.8	3694.2	3774.4	3798.7	3803.5
40°	1971.0	1988.0	2085.3	2340.4	2697.7	3183.8	3618.8	3793.8	3900.7	3949.4	3956.6
42.5°	1706.1	1735.3	1851.9	2099.8	2496.0	3047.7	3618.8	3891.0	4022.3	4112.2	4119.5
45°	1450.9	1475.2	1616.2	1859.2	2279.7	2872.7	3577.5	3988.2	4187.5	4343.1	4338.2
47.5°	1229.8	1237.1	1365.9	1611.3	2039.1	2673.4	3492.4	4075.7	4362.5	4569.1	4612.8
50°	1001.3	1018.3	1127.7	1370.7	1793.6	2454.7	3349.1	4131.6	4542.4	4855.9	4911.8
52.5°	840.9	843.3	926.0	1149.6	1538.4	2189.8	3176.5	4146.2	4714.9	5167.0	5235.0
55°	685.4	697.5	768.0	935.7	1293.0	1929.7	2952.9	4124.3	4872.9	5468.3	5594.7
57.5°	588.1	590.6	641.6	775.3	1091.2	1652.7	2705.0	4051.4	5004.1	5801.3	5961.7
60°	505.5	505.5	544.4	646.5	882.2	1382.9	2413.4	3922.6	5077.0	6158.6	6391.9
62.5°	439.9	442.3	476.4	551.7	734.0	1142.3	2092.5	3720.9	5103.8	6503.7	6771.0
65°	398.6	401.0	420.5	471.5	605.2	928.4	1764.4	3475.4	5067.3	6761.3	7108.8
67.5°	330.5	333.0	367.0	405.9	503.1	746.1	1433.9	3135.2	4919.1	6841.5	7266.8
70°	252.8	260.0	306.2	347.5	418.0	595.4	1101.0	2685.6	4564.2	6569.3	7006.8
72.5°	211.4	213.9	247.9	294.1	350.0	466.6	836.0	2114.4	4024.7	5866.9	6353.0
75°	184.7	187.1	206.6	247.9	291.6	374.3	580.9	1460.7	3210.5	4744.1	5188.8
77.5°	167.7	170.1	175.0	209.0	245.5	289.2	410.7	867.6	2265.1	3626.1	3859.4
80°	160.4	160.4	148.3	172.6	201.7	226.0	274.6	498.2	1453.4	2445.0	2632.1
82.5°	114.2	111.8	102.1	106.9	123.9	123.9	141.0	206.6	556.6	1032.9	1120.4
85°	7.3	7.3	12.2	14.6	21.9	29.2	36.5	48.6	141.0	192.0	199.3
87.5°	2.4	2.4	2.4	2.4	2.4	4.9	4.9	4.9	7.3	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1
2.5°	3081.7	3084.1	3084.1	3089.0	3093.9	3091.4	3089.0	3093.9	3086.6	3072.0	3069.6
5°	3091.4	3091.4	3089.0	3093.9	3098.7	3093.9	3089.0	3089.0	3084.1	3069.6	3067.1
7.5°	3110.9	3108.4	3108.4	3108.4	3108.4	3101.2	3093.9	3089.0	3081.7	3067.1	3059.8
10°	3137.6	3135.2	3132.7	3130.3	3118.2	3110.9	3098.7	3091.4	3081.7	3064.7	3059.8
12.5°	3166.8	3161.9	3157.1	3159.5	3135.2	3113.3	3101.2	3084.1	3076.8	3038.0	3030.7
15°	3195.9	3188.6	3186.2	3176.5	3152.2	3120.6	3096.3	3072.0	3047.7	3011.2	2999.1
17.5°	3234.8	3230.0	3215.4	3205.7	3171.6	3127.9	3091.4	3057.4	3025.8	2982.1	2974.8
20°	3281.0	3276.1	3261.6	3242.1	3198.4	3144.9	3093.9	3040.4	3001.5	2950.5	2938.3
22.5°	3332.0	3324.7	3312.6	3290.7	3234.8	3171.6	3101.2	3030.7	2972.3	2914.0	2906.7
25°	3385.5	3380.6	3368.5	3336.9	3276.1	3198.4	3101.2	2996.6	2923.7	2872.7	2850.8
27.5°	3436.5	3434.1	3419.5	3383.1	3319.9	3217.8	3079.3	2940.7	2843.5	2775.5	2760.9
30°	3502.2	3497.3	3480.3	3439.0	3368.5	3230.0	3035.5	2846.0	2724.4	2649.1	2627.2
32.5°	3582.4	3577.5	3553.2	3502.2	3426.8	3232.4	2972.3	2724.4	2564.0	2483.8	2457.1
35°	3689.3	3679.6	3648.0	3587.2	3482.7	3208.1	2860.5	2568.9	2372.0	2267.5	2231.1
37.5°	3806.0	3793.8	3752.5	3677.2	3521.6	3142.5	2702.6	2359.9	2136.3	2012.3	1985.6
40°	3949.4	3932.3	3869.1	3764.6	3536.2	3028.2	2525.2	2146.0	1907.8	1771.7	1740.1
42.5°	4129.2	4100.0	3998.0	3861.9	3507.0	2872.7	2313.7	1924.9	1652.7	1526.3	1519.0
45°	4345.5	4299.3	4146.2	3956.6	3443.8	2678.3	2090.1	1677.0	1416.9	1293.0	1261.4
47.5°	4600.7	4544.8	4318.8	4029.6	3319.9	2479.0	1849.5	1436.3	1198.2	1071.8	1047.5
50°	4882.6	4829.1	4501.0	4070.9	3186.2	2245.7	1613.8	1222.5	984.3	879.8	879.8
52.5°	5225.3	5103.8	4676.0	4075.7	2982.1	1988.0	1387.7	1013.5	826.3	734.0	714.5
55°	5589.9	5446.5	4834.0	4032.0	2770.6	1752.3	1144.7	843.3	678.1	612.5	595.4
57.5°	5995.7	5777.0	4948.2	3944.5	2503.3	1494.7	955.1	695.1	571.1	517.7	510.4
60°	6404.0	6122.1	5016.3	3796.2	2218.9	1256.5	794.7	580.9	490.9	452.0	444.8
62.5°	6783.2	6404.0	5021.1	3579.9	1941.9	1047.5	651.3	500.7	435.0	405.9	405.9
65°	7111.3	6639.8	4938.5	3302.9	1589.5	840.9	537.1	422.9	379.1	347.5	340.3
67.5°	7271.7	6729.7	4792.7	2923.7	1273.5	665.9	452.0	367.0	325.7	277.1	272.2
70°	7045.6	6469.6	4418.4	2437.7	984.3	529.8	376.7	313.5	272.2	230.9	226.0
72.5°	6323.8	5777.0	3813.3	1888.4	741.3	427.7	313.5	267.3	223.6	201.7	196.9
75°	5174.3	4804.8	3013.7	1300.2	517.7	335.4	262.5	226.0	189.6	179.8	177.4
77.5°	3927.5	3572.6	2201.9	814.2	354.8	262.5	223.6	192.0	165.3	172.6	167.7
80°	2622.4	2459.5	1463.1	461.8	238.2	192.0	170.1	141.0	126.4	145.8	141.0
82.5°	1190.9	1127.7	687.8	201.7	106.9	82.6	58.3	43.7	34.0	31.6	36.5
85°	199.3	175.0	48.6	21.9	12.2	7.3	4.9	4.9	2.4	2.4	2.4
87.5°	9.7	7.3	7.3	4.9	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-8

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-40-840-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-40-840-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-157-8
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/05/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-SA-40-840-U-5WQ**
 Description: Epic Modern Light Square 40W 5WQ Optic

Spectral Parameters

CCT (K): 3996
 CIE u': 0.2245
 CIE v': 0.5031
 Duv: 0.0012
 CIE x: 0.3815
 CIE y: 0.3799
 CIE z: 0.2386
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 578
 Purity: 28.49233
 Rf: 82.6
 Rg: 95.1

CRI (Ra):	80.6		
R1:	78.1	R9:	-5.8
R2:	87.1	R10:	70.3
R3:	94.5	R11:	78.7
R4:	79.7	R12:	60.5
R5:	78.7	R13:	80.2
R6:	82.7	R14:	97.2
R7:	84.3	R15:	70.6
R8:	59.5		



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 24.3

REPORT NUMBER: SP1-2407-157-8

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 4000K 4-step quadrangle

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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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.66

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

Summary

$R_f = 82.6$
 $R_g = 95.1$
 CIE $R_a = 80.6$
 $R_9 = -5.8$

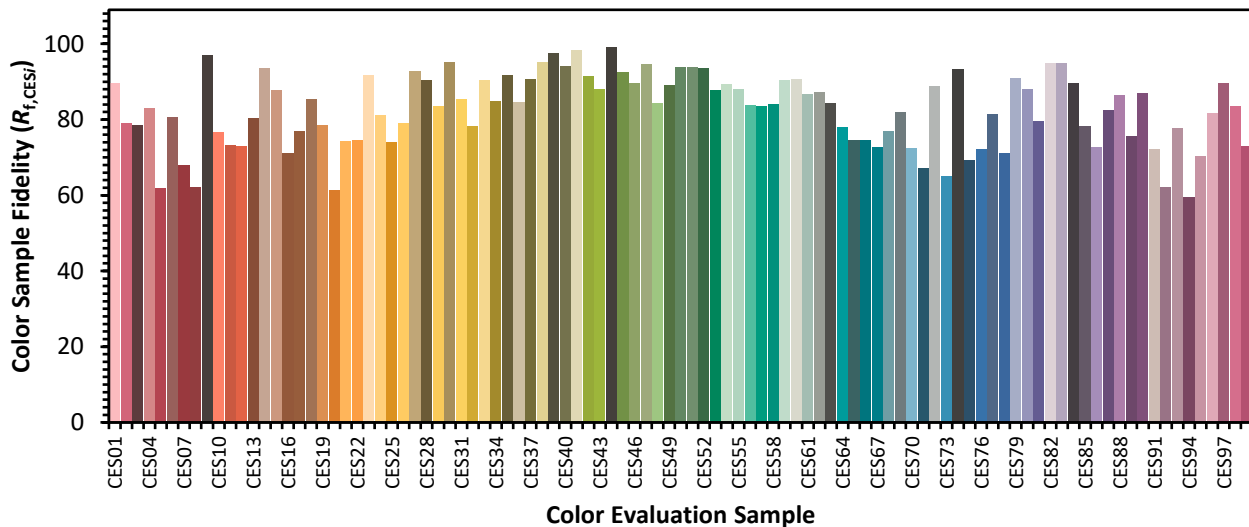


Color Vector Graphics



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

CES01 = 85	CES26 = 79	CES51 = 94	CES76 = 72
CES02 = 61	CES27 = 93	CES52 = 94	CES77 = 82
CES03 = 31	CES28 = 90	CES53 = 88	CES78 = 71
CES04 = 69	CES29 = 83	CES54 = 89	CES79 = 91
CES05 = 48	CES30 = 95	CES55 = 88	CES80 = 88
CES06 = 50	CES31 = 86	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 78	CES57 = 84	CES82 = 95
CES08 = 39	CES33 = 90	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 85	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 85	CES61 = 87	CES86 = 73
CES12 = 63	CES37 = 91	CES62 = 87	CES87 = 83
CES13 = 42	CES38 = 95	CES63 = 84	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 76
CES15 = 71	CES40 = 94	CES65 = 75	CES90 = 87
CES16 = 46	CES41 = 98	CES66 = 75	CES91 = 72
CES17 = 49	CES42 = 92	CES67 = 73	CES92 = 62
CES18 = 56	CES43 = 88	CES68 = 77	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 60
CES20 = 65	CES45 = 93	CES70 = 72	CES95 = 70
CES21 = 86	CES46 = 90	CES71 = 67	CES96 = 82
CES22 = 78	CES47 = 95	CES72 = 89	CES97 = 90
CES23 = 91	CES48 = 84	CES73 = 65	CES98 = 84
CES24 = 90	CES49 = 89	CES74 = 93	CES99 = 73
CES25 = 71	CES50 = 94	CES75 = 69	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)