

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: P870453

Luminaire Tested: **MEM2-HSN-SA-40-840-U-T4W**

Issue Date: 09/05/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P870453  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 09/05/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HSN-SA-40-840-U-T4W  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 40W 80CRI 4000K  
FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC  
Light Source: (10) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

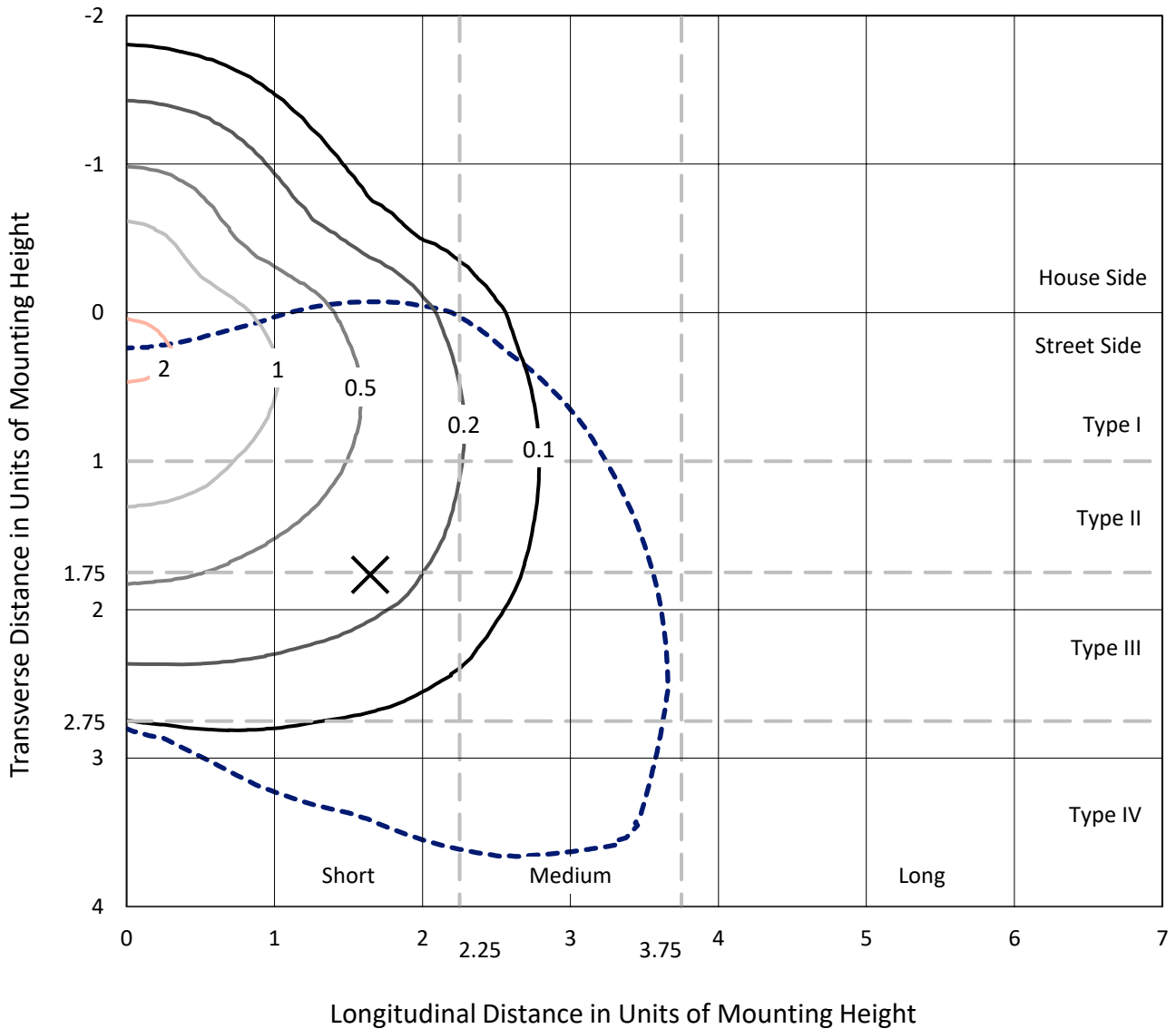
Lumens per Lamp: N/A  
Luminaire Lumens: 4636.1 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 9.76%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P870453  
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### Iso-Footcandle Lines of Horizontal Illumination

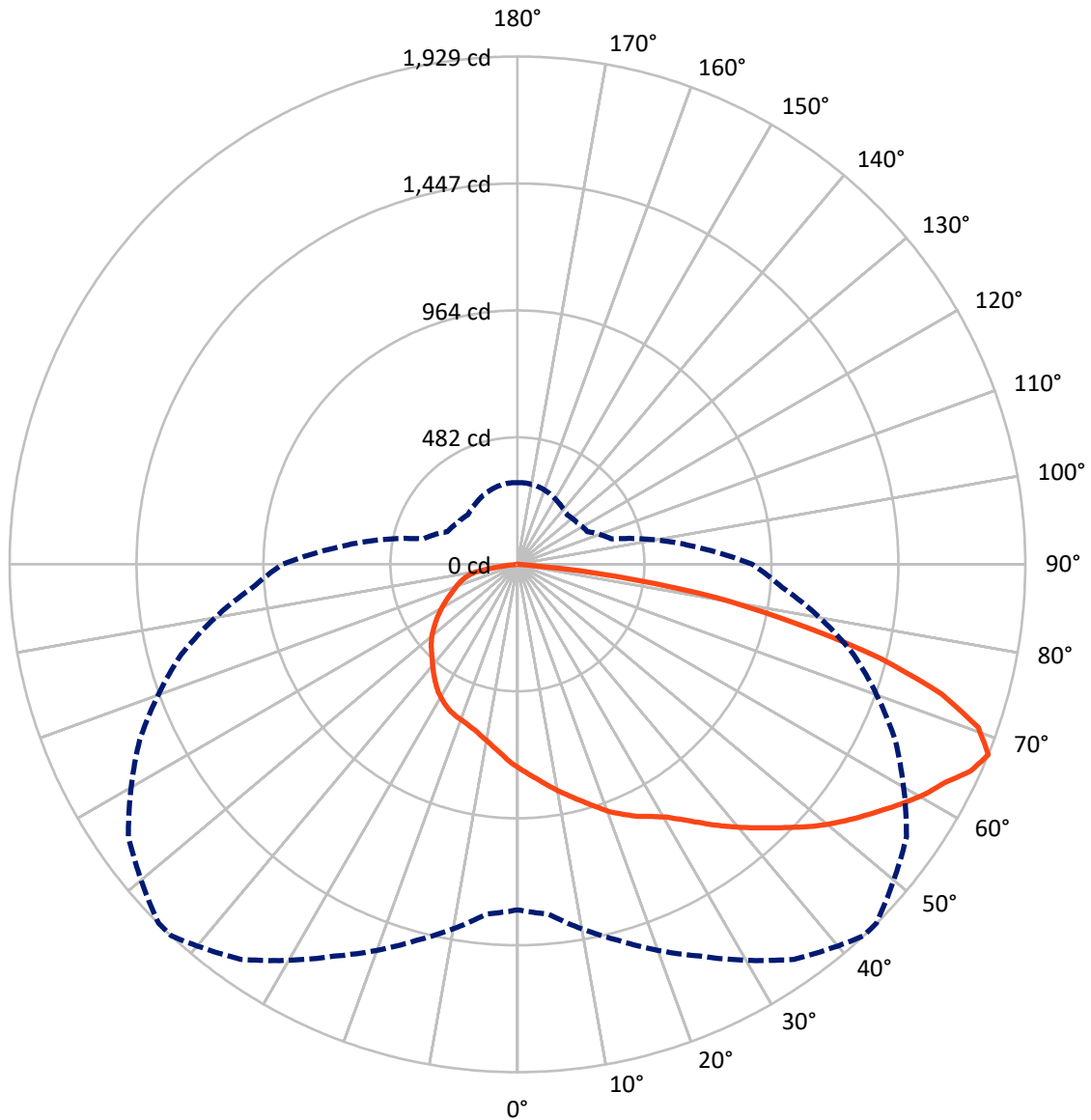
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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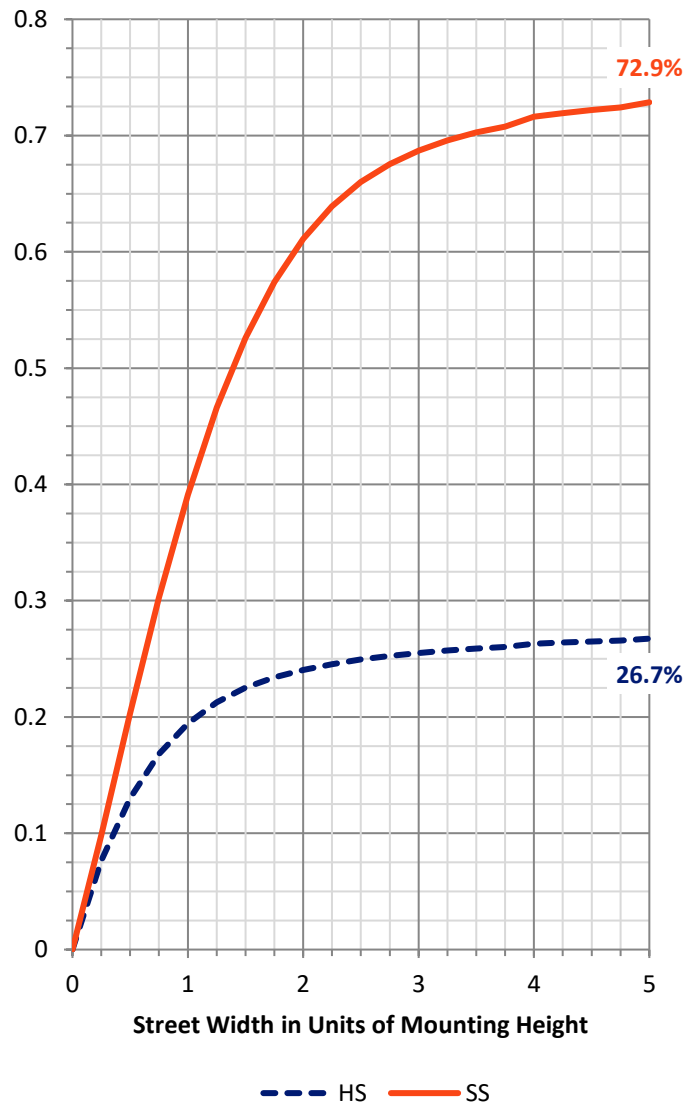
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1247.1	0.0	1247.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	3389.0	0.0	3389.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	4636.1	0.0	4636.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	1.6
10°-20°	226.2	4.9
20°-30°	385.9	8.3
30°-40°	562.8	12.1
40°-50°	756.1	16.3
50°-60°	925.6	20.0
60°-70°	974.1	21.0
70°-80°	636.0	13.7
80°-90°	95.4	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°	4636.1	100.0
0°-180°	4636.1	100.0



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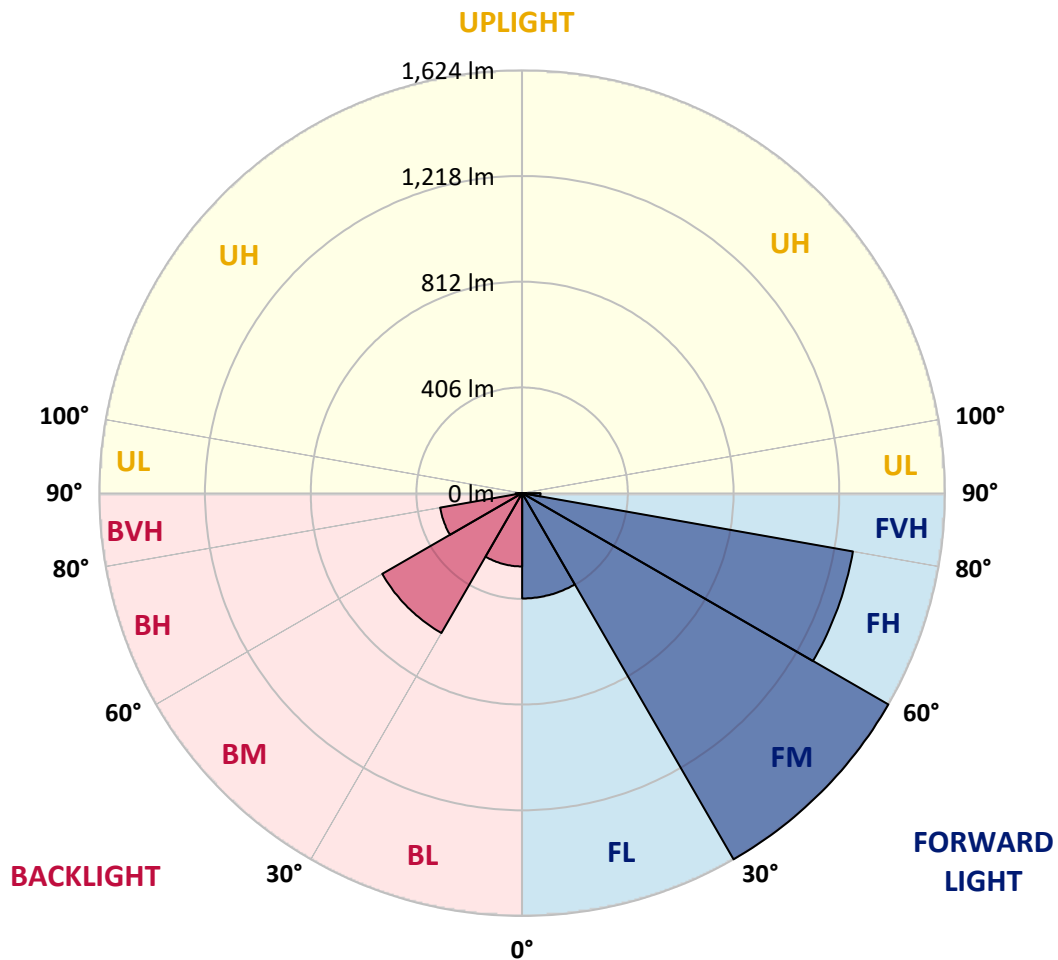
CATALOG NUMBER: MEM2-HSN-SA-40-840-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.6	8.7			
FM (30°-60°)	1624.0	35.0			
FH (60°-80°)	1290.0	27.8			G1/1800
FVH (80°-90°)	70.4	1.5			G1/100
BL (0°-30°)	281.6	6.1	B1/500		
BM (30°-60°)	620.5	13.4	B1/1000		
BH (60°-80°)	320.1	6.9	B1/500		G1/500
BVH (80°-90°)	25.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9
2.5°	809.6	808.6	805.8	803.9	798.3	797.4	797.4	791.7	785.2	781.4	777.7
5°	846.1	841.4	839.6	835.8	826.4	820.8	822.7	812.4	799.2	789.9	779.5
7.5°	879.0	877.1	870.5	865.8	854.6	849.0	847.1	831.1	814.2	800.2	783.3
10°	918.4	913.7	909.9	900.5	885.5	877.1	874.3	853.6	832.1	813.3	790.8
12.5°	954.0	948.4	943.7	934.3	919.3	905.2	901.5	878.0	850.8	825.5	797.4
15°	981.2	982.2	977.5	969.0	952.1	935.3	932.4	901.5	868.7	837.7	803.9
17.5°	1006.5	1010.3	1007.5	1001.9	985.0	968.1	965.3	930.6	891.2	851.8	811.4
20°	1030.9	1030.9	1030.0	1026.2	1014.1	1002.8	997.2	962.5	912.7	866.8	821.7
22.5°	1045.0	1048.8	1048.8	1048.8	1041.3	1031.9	1030.0	996.2	941.8	885.5	831.1
25°	1066.6	1071.3	1071.3	1069.4	1062.8	1060.0	1057.2	1025.3	970.0	907.1	841.4
27.5°	1112.5	1111.6	1104.1	1094.7	1085.3	1084.4	1080.7	1058.1	1002.8	930.6	855.5
30°	1176.3	1178.2	1168.8	1139.8	1118.2	1113.5	1114.4	1094.7	1041.3	957.8	871.5
32.5°	1273.9	1273.9	1237.3	1199.8	1168.8	1156.6	1153.8	1136.9	1080.7	987.8	889.3
35°	1347.1	1344.3	1323.6	1279.5	1241.1	1206.4	1201.7	1179.2	1124.7	1021.6	909.0
37.5°	1402.4	1408.0	1392.1	1358.3	1320.8	1260.8	1251.4	1219.5	1165.1	1054.4	928.7
40°	1509.4	1495.3	1456.8	1425.9	1380.8	1314.2	1305.8	1266.4	1206.4	1091.0	953.1
42.5°	1587.2	1567.5	1523.4	1482.1	1425.9	1367.7	1360.2	1317.0	1254.2	1132.2	978.4
45°	1698.8	1654.8	1593.8	1557.2	1477.5	1425.9	1416.5	1369.6	1303.9	1176.3	1010.3
47.5°	1806.7	1729.8	1665.1	1648.2	1533.7	1488.7	1481.2	1426.8	1357.4	1224.2	1041.3
50°	1792.6	1742.0	1720.4	1704.5	1582.5	1547.8	1540.3	1485.0	1411.8	1274.8	1072.2
52.5°	1757.0	1761.7	1762.6	1724.2	1628.5	1603.2	1595.7	1547.8	1468.1	1318.9	1102.2
55°	1794.5	1800.2	1799.2	1741.1	1682.0	1658.5	1653.8	1611.6	1522.5	1360.2	1123.8
57.5°	1851.7	1833.0	1830.2	1783.3	1739.2	1717.6	1712.0	1675.4	1568.5	1390.2	1140.7
60°	1862.1	1824.5	1836.7	1792.6	1782.3	1775.8	1773.9	1730.7	1611.6	1414.6	1147.3
62.5°	1746.7	1740.1	1788.0	1770.1	1804.8	1823.6	1824.5	1770.1	1635.1	1424.0	1140.7
65°	1549.7	1576.0	1679.1	1730.7	1838.6	1892.1	1890.2	1793.6	1632.2	1396.8	1100.4
67.5°	1312.4	1333.0	1478.4	1641.6	1831.1	1928.7	1927.7	1803.9	1583.5	1321.7	1009.4
70°	995.3	1060.0	1266.4	1481.2	1729.8	1856.4	1872.4	1745.7	1471.8	1184.8	871.5
72.5°	757.0	767.3	1016.9	1242.0	1548.8	1684.8	1682.0	1560.0	1285.2	998.1	726.1
75°	537.5	560.0	765.5	962.5	1269.2	1420.2	1413.7	1279.5	1025.3	776.7	555.3
77.5°	400.6	409.0	560.0	713.9	949.3	1085.3	1082.5	945.6	754.2	570.3	413.7
80°	292.7	306.7	403.4	498.1	643.5	760.8	757.0	627.6	484.0	398.7	302.1
82.5°	164.2	174.5	234.5	301.1	339.6	376.2	360.2	301.1	220.4	171.7	148.2
85°	4.7	5.6	8.4	10.3	17.8	30.0	32.8	29.1	34.7	21.6	23.5
87.5°	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8
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: P870453  
 CATALOG NUMBER: MEM2-HSN-SA-40-840-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9
2.5°	775.8	772.0	764.5	759.8	757.0	753.3	747.6	743.9	741.1	744.8	743.9
5°	774.8	767.3	754.2	744.8	735.4	727.9	719.5	712.9	709.2	711.1	710.1
7.5°	774.8	765.5	744.8	729.8	715.7	704.5	695.1	686.7	682.9	683.9	682.9
10°	778.6	765.5	738.3	716.7	697.9	684.8	674.5	667.0	664.2	667.0	667.9
12.5°	782.3	765.5	732.6	705.4	681.0	667.0	657.6	652.9	654.8	655.7	656.6
15°	784.2	764.5	727.0	692.3	665.1	650.1	644.5	643.5	648.2	652.9	653.8
17.5°	788.9	763.6	718.6	679.2	651.0	638.8	636.0	639.8	649.1	655.7	657.6
20°	794.5	765.5	709.2	663.2	636.9	627.6	632.3	640.7	652.0	661.3	663.2
22.5°	800.2	766.4	700.7	649.1	621.9	620.1	630.4	642.6	655.7	665.1	667.0
25°	806.7	766.4	689.5	631.3	606.9	609.7	625.7	641.6	653.8	666.0	667.9
27.5°	813.3	768.3	677.3	611.6	588.2	596.6	616.3	636.0	649.1	661.3	664.2
30°	824.6	772.0	667.0	594.7	569.4	580.7	604.1	626.6	640.7	653.8	656.6
32.5°	835.8	777.7	658.5	576.9	550.6	563.8	590.0	615.4	630.4	642.6	644.5
35°	850.8	785.2	652.0	559.1	531.9	542.2	570.3	598.5	615.4	624.8	629.4
37.5°	866.8	795.5	646.3	543.1	511.2	520.6	550.6	580.7	598.5	607.9	609.7
40°	886.5	809.6	642.6	528.1	491.5	499.1	529.1	561.9	578.8	585.4	589.1
42.5°	908.1	824.6	639.8	513.1	470.0	477.5	509.4	541.3	558.2	563.8	566.6
45°	935.3	844.3	637.9	497.2	452.1	458.7	490.6	522.5	536.6	544.1	546.9
47.5°	960.6	864.0	632.3	478.4	432.4	441.8	470.9	499.1	515.0	519.7	522.5
50°	985.9	880.8	621.0	457.8	414.6	423.1	449.3	470.0	482.2	487.8	489.7
52.5°	1010.3	893.0	603.2	436.2	395.9	401.5	423.1	442.8	451.2	453.1	458.7
55°	1026.2	899.6	577.9	410.9	377.1	379.0	394.9	412.8	417.4	418.4	418.4
57.5°	1037.5	895.9	547.8	385.5	358.3	358.3	367.7	381.8	383.7	384.6	386.5
60°	1039.4	882.7	509.4	362.1	337.7	334.9	344.3	352.7	353.7	355.5	357.4
62.5°	1025.3	853.6	468.1	339.6	318.0	311.4	319.9	328.3	333.0	335.8	337.7
65°	982.2	794.5	421.2	317.1	299.2	288.0	298.3	312.4	321.8	322.7	322.7
67.5°	892.1	698.9	371.5	293.6	276.7	266.4	279.5	294.6	305.8	310.5	309.6
70°	756.1	592.9	325.5	269.2	254.2	247.7	261.7	278.6	288.0	291.7	293.6
72.5°	608.8	474.7	285.2	244.8	234.5	230.8	244.8	261.7	274.9	280.5	281.4
75°	473.7	373.4	251.4	219.5	211.1	212.0	227.0	243.9	258.0	260.8	252.3
77.5°	367.7	297.4	219.5	189.5	184.8	191.4	206.4	224.2	232.6	235.5	229.8
80°	265.5	228.0	177.3	149.2	149.2	159.5	172.6	193.2	196.1	192.3	194.2
82.5°	125.7	110.7	87.2	72.2	67.5	75.0	79.7	86.3	93.8	95.7	91.0
85°	16.9	11.3	8.4	9.4	8.4	5.6	3.8	3.8	3.8	2.8	2.8
87.5°	2.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
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  
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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

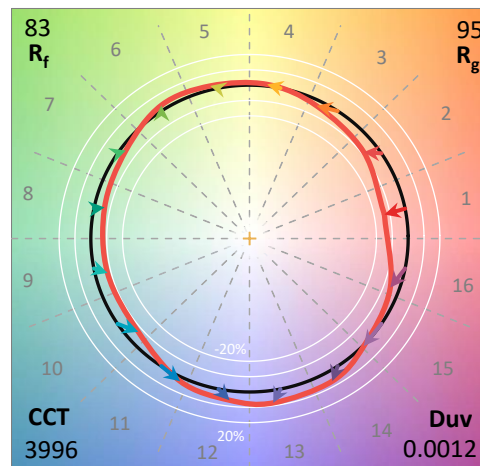
**Test Information**

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**

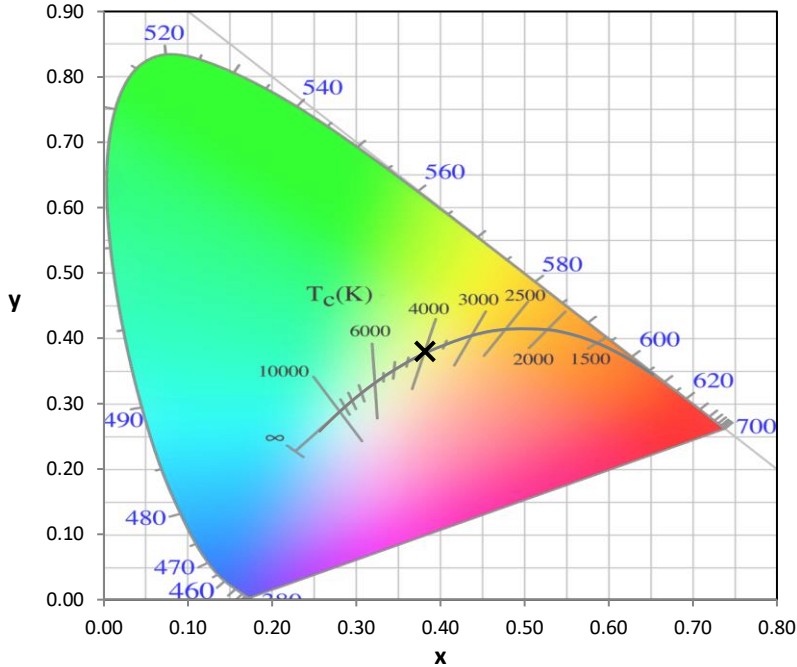
Stabilization Time: 29M  
 Operation Time: 1H 29M  
 Sphere Temperature (°C): 24.3

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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 4000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (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	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 <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	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

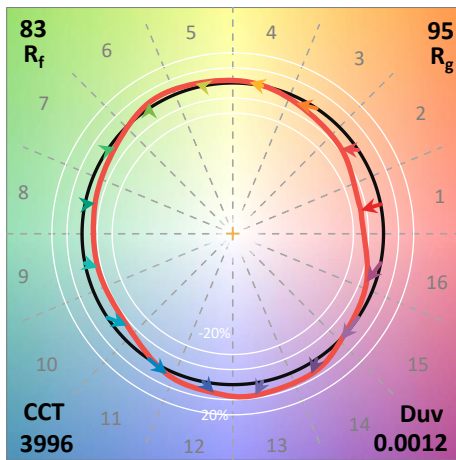
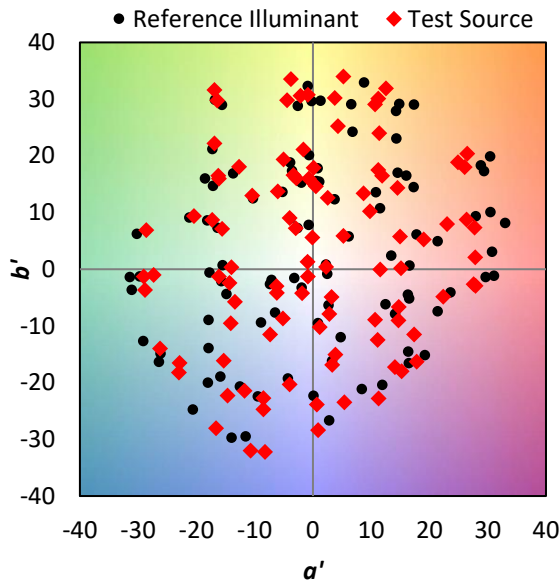
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	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  $R_a = 80.6$   
 $R_g = -5.8$



**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)