

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: FAIL-SAFE

Report Number: P412262

Luminaire Tested: **MRI-4ASR-8-500-L840-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-4ASR-8-500-L840-HEO  
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (672) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7887.0 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')  
CIE Type: Direct

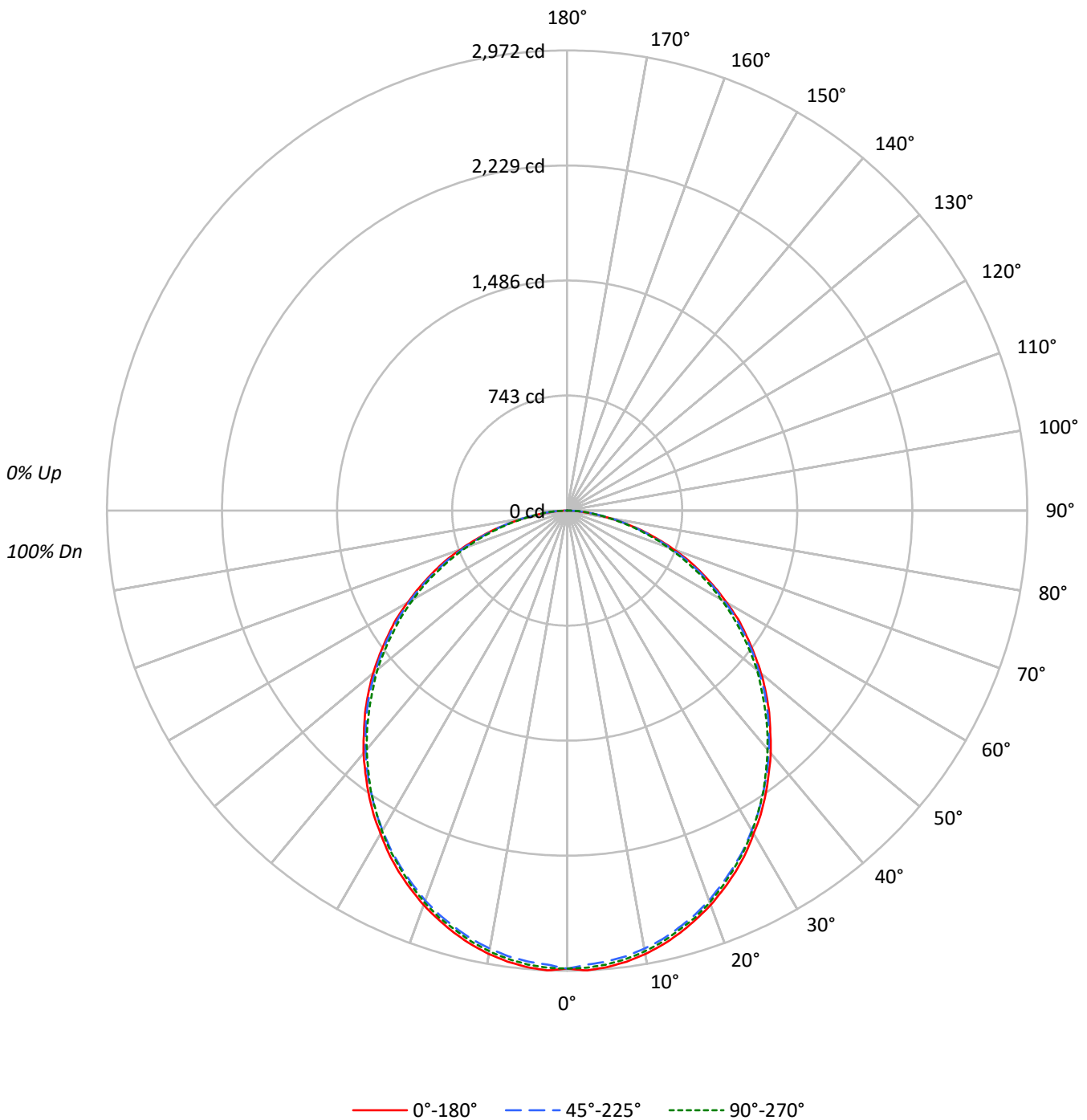
Input Watts (W): 61.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11942	11942	11942
5°	11992	11846	11923
10°	11922	11774	11848
15°	11796	11654	11713
20°	11645	11512	11567
25°	11464	11318	11358
30°	11230	11109	11141
35°	11011	10893	10893
40°	10780	10675	10607
45°	10533	10448	10305
50°	10270	10152	10051
55°	9964	9852	9662
60°	9616	9487	9262
65°	9212	9041	8764
70°	8626	8390	8167
75°	7848	7662	7366
80°	6430	6546	6267
85°	4622	5224	5595



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	3.5
10°-20°	791.5	10.0
20°-30°	1177.1	14.9
30°-40°	1387.9	17.6
40°-50°	1410.1	17.9
50°-60°	1251.3	15.9
60°-70°	936.3	11.9
70°-80°	518.6	6.6
80°-90°	134.8	1.7
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°-30°	2247.9	28.5
0°-40°	3635.8	46.1
0°-60°	6297.3	79.8
0°-90°	7887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2960	2952	2924	2946	2943	281
15°	2823	2818	2789	2810	2803	796
25°	2574	2564	2541	2554	2550	1185
35°	2235	2231	2211	2214	2211	1398
45°	1845	1845	1830	1815	1805	1423
55°	1416	1422	1400	1382	1373	1267
65°	964	970	947	931	918	954
75°	503	498	491	477	472	529
85°	100	114	113	117	121	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2972.5	2963.5	2934.6	2958.5	2954.5
5°	2959.5	2951.6	2923.6	2945.6	2942.6
7.5°	2938.6	2929.6	2903.6	2925.6	2920.6
10°	2908.6	2899.6	2872.7	2895.6	2890.6
12.5°	2869.7	2861.7	2836.7	2855.7	2851.7
15°	2822.7	2817.8	2788.8	2809.8	2802.8
17.5°	2768.8	2763.8	2737.9	2757.8	2753.9
20°	2710.9	2701.9	2680.0	2693.9	2692.9
22.5°	2644.0	2636.0	2611.1	2628.0	2625.0
25°	2574.1	2564.1	2541.2	2554.2	2550.2
27.5°	2496.2	2486.3	2467.3	2477.3	2475.3
30°	2409.4	2406.4	2383.4	2392.4	2390.4
32.5°	2327.5	2319.5	2303.5	2302.5	2299.5
35°	2234.6	2230.6	2210.7	2213.7	2210.7
37.5°	2139.8	2137.8	2120.8	2116.8	2110.8
40°	2045.9	2039.9	2025.9	2018.0	2013.0
42.5°	1942.1	1945.1	1926.1	1917.1	1913.1
45°	1845.2	1845.2	1830.2	1815.3	1805.3
47.5°	1741.4	1742.4	1726.4	1707.4	1701.4
50°	1635.5	1637.5	1616.6	1600.6	1600.6
52.5°	1524.7	1530.7	1510.7	1493.7	1486.8
55°	1415.9	1421.9	1399.9	1381.9	1372.9
57.5°	1311.0	1310.0	1292.1	1268.1	1266.1
60°	1191.2	1198.2	1175.2	1157.3	1147.3
62.5°	1077.4	1086.4	1061.4	1044.4	1038.4
65°	964.5	970.5	946.6	930.6	917.6
67.5°	853.7	851.7	829.8	811.8	804.8
70°	730.9	734.9	710.9	697.9	692.0
72.5°	616.1	620.1	599.1	590.1	580.1
75°	503.2	498.2	491.3	477.3	472.3
77.5°	383.4	388.4	386.4	371.4	369.4
80°	276.6	287.6	281.6	270.6	269.6
82.5°	183.7	194.7	191.7	188.7	185.7
85°	99.8	113.8	112.8	116.8	120.8
87.5°	37.9	48.9	57.9	56.9	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)