

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: P412208

Luminaire Tested: **MRI-2ASR-8-1000-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-8-1000-L940-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7912.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

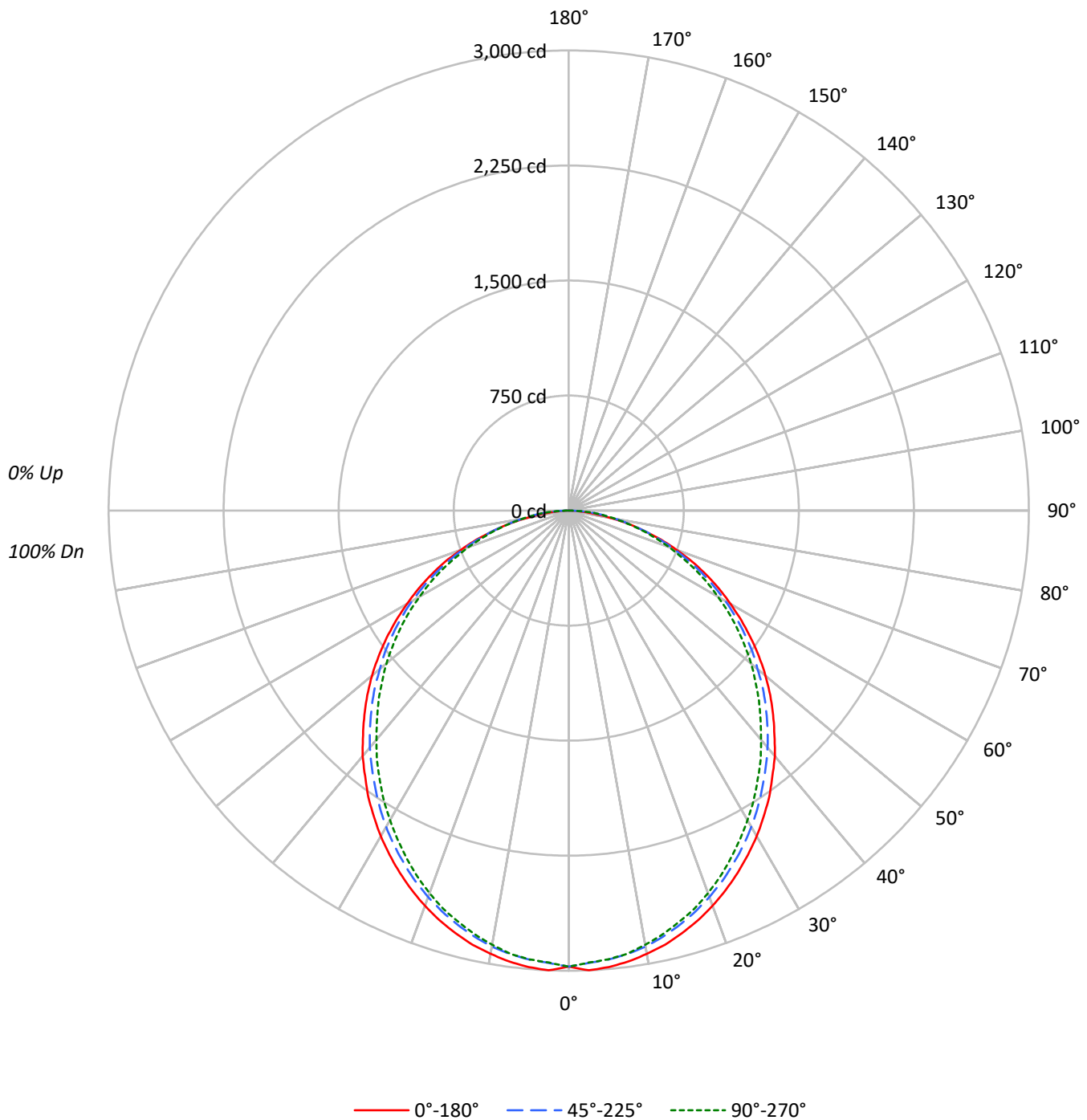
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51	
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30	
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24004	24004	24004
5°	24210	23815	23799
10°	24051	23660	23559
15°	23840	23370	23205
20°	23555	23031	22806
25°	23211	22627	22276
30°	22849	22202	21721
35°	22456	21698	21153
40°	22026	21256	20544
45°	21507	20747	20019
50°	21033	20185	19491
55°	20404	19678	18873
60°	19651	19046	18122
65°	18898	18199	17393
70°	17663	17132	16379
75°	15795	15823	15268
80°	12989	14212	14082
85°	8772	13551	13987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	3.5
10°-20°	792.6	10.0
20°-30°	1175.0	14.9
30°-40°	1381.8	17.5
40°-50°	1403.6	17.7
50°-60°	1248.6	15.8
60°-70°	941.6	11.9
70°-80°	535.0	6.8
80°-90°	153.2	1.9
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°	2248.1	28.4
0°-40°	3629.9	45.9
0°-60°	6282.2	79.4
0°-90°	7912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2973	2973	2973	2973	2973	
5°	2988	2967	2939	2960	2937	283
15°	2852	2830	2796	2806	2776	804
25°	2606	2579	2540	2531	2501	1200
35°	2279	2248	2202	2174	2146	1424
45°	1884	1860	1817	1781	1754	1454
55°	1450	1435	1398	1359	1341	1296
65°	989	983	953	923	910	977
75°	506	514	507	493	490	540
85°	95	130	146	146	151	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.4	2973.4	2973.4	2973.4	2973.4
2.5°	2999.7	2979.0	2951.8	2974.3	2950.0
5°	2987.5	2966.8	2938.7	2960.3	2936.8
7.5°	2965.9	2945.3	2917.1	2936.8	2914.3
10°	2934.0	2915.3	2886.2	2902.1	2874.0
12.5°	2899.3	2874.9	2844.0	2858.1	2829.9
15°	2852.4	2829.9	2796.2	2806.5	2776.5
17.5°	2800.9	2774.6	2741.8	2747.4	2722.1
20°	2741.8	2715.5	2680.8	2682.7	2654.6
22.5°	2676.2	2651.8	2614.3	2607.7	2581.4
25°	2605.8	2578.6	2540.2	2530.8	2500.8
27.5°	2529.9	2504.6	2463.3	2448.3	2416.4
30°	2451.1	2421.1	2381.7	2359.2	2330.1
32.5°	2364.8	2337.6	2293.6	2265.4	2242.9
35°	2278.6	2247.6	2201.7	2173.6	2146.4
37.5°	2181.1	2152.0	2108.9	2080.7	2053.5
40°	2090.1	2058.2	2017.0	1982.3	1949.4
42.5°	1985.1	1962.6	1917.6	1882.9	1851.0
45°	1883.8	1860.4	1817.2	1780.7	1753.5
47.5°	1781.6	1758.2	1716.9	1677.5	1651.3
50°	1674.7	1649.4	1607.2	1572.5	1551.9
52.5°	1563.1	1545.3	1507.8	1468.4	1445.0
55°	1449.7	1434.7	1398.1	1358.7	1340.9
57.5°	1335.3	1323.1	1289.3	1251.8	1234.0
60°	1217.1	1211.5	1179.6	1144.0	1122.4
62.5°	1105.5	1097.1	1064.3	1038.0	1018.3
65°	989.3	982.7	952.7	922.7	910.5
67.5°	872.0	864.5	836.4	815.8	797.0
70°	748.3	748.3	725.8	706.1	693.9
72.5°	631.1	632.0	617.0	596.4	590.7
75°	506.4	513.9	507.3	493.2	489.5
77.5°	395.7	402.3	403.2	398.5	392.0
80°	279.4	298.2	305.7	304.7	302.9
82.5°	179.1	209.1	223.2	222.2	224.1
85°	94.7	130.3	146.3	146.3	151.0
87.5°	32.8	66.6	71.3	65.6	62.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)