

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: P412252

Luminaire Tested: **MRI-4ASR-8-250-L850-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412252  
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-8-250-L850-HEO  
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (672) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4251.0 lumens  
Efficiency: N/A  
Efficacy: 142.7 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

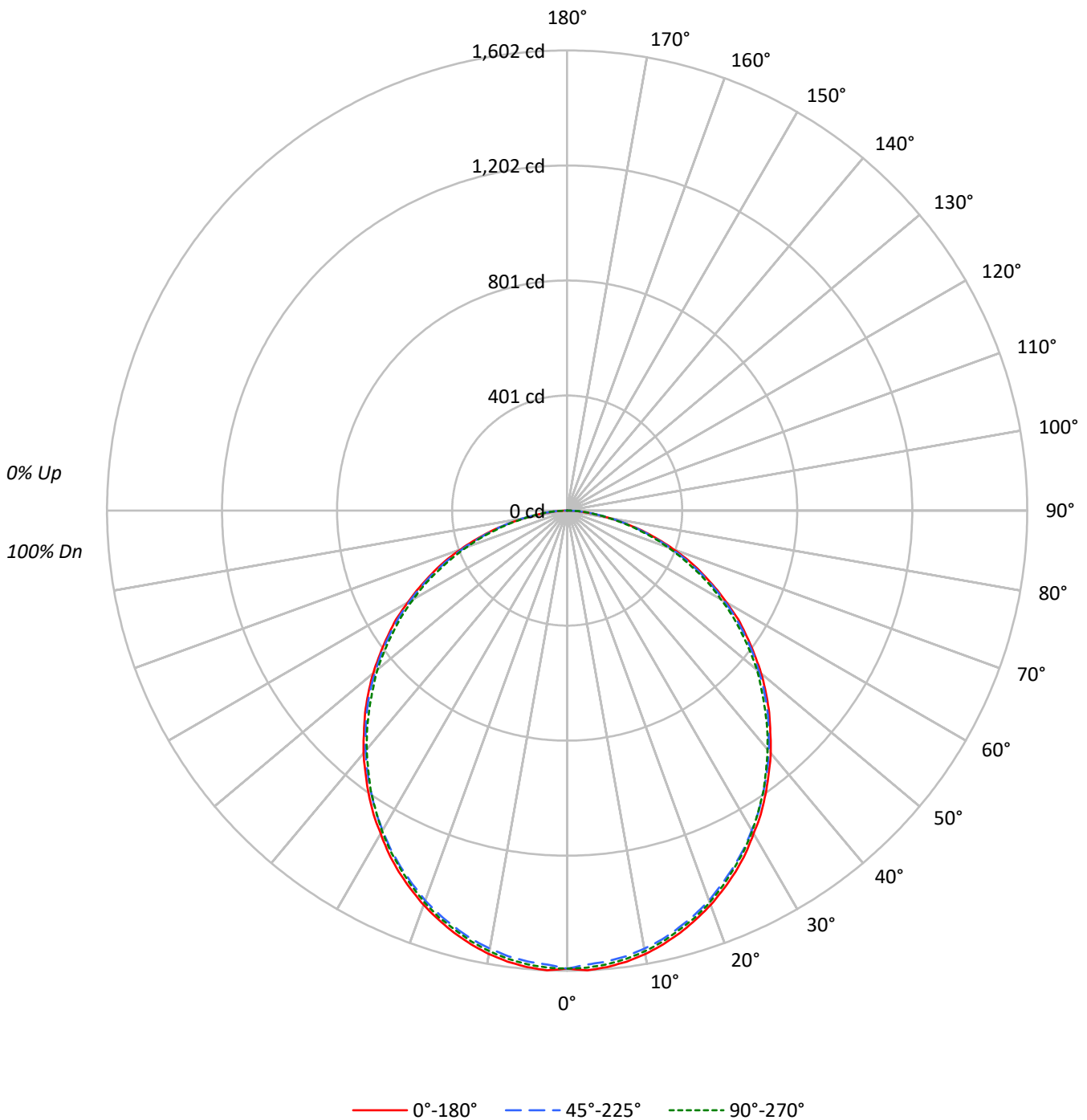
Input Watts (W): 29.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	6437	6437	6437
5°	6464	6385	6426
10°	6426	6346	6386
15°	6358	6281	6313
20°	6277	6205	6235
25°	6179	6100	6122
30°	6053	5987	6005
35°	5935	5871	5871
40°	5810	5754	5717
45°	5678	5631	5554
50°	5535	5471	5417
55°	5370	5310	5208
60°	5183	5113	4992
65°	4966	4873	4724
70°	4649	4522	4402
75°	4230	4130	3971
80°	3466	3529	3378
85°	2492	2816	3015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	3.5
10°-20°	426.6	10.0
20°-30°	634.4	14.9
30°-40°	748.1	17.6
40°-50°	760.0	17.9
50°-60°	674.4	15.9
60°-70°	504.6	11.9
70°-80°	279.5	6.6
80°-90°	72.7	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°	1211.6	28.5
0°-40°	1959.7	46.1
0°-60°	3394.2	79.8
0°-90°	4251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1595	1591	1576	1588	1586	151
15°	1521	1519	1503	1514	1511	429
25°	1387	1382	1370	1377	1374	639
35°	1204	1202	1192	1193	1192	753
45°	995	995	986	978	973	767
55°	763	766	754	745	740	683
65°	520	523	510	502	495	514
75°	271	269	265	257	255	285
85°	54	61	61	63	65	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1594.6	1594.6	1594.6	1594.6	1594.6
2.5°	1602.2	1597.3	1581.7	1594.6	1592.5
5°	1595.2	1590.9	1575.8	1587.6	1586.0
7.5°	1583.9	1579.0	1565.0	1576.9	1574.2
10°	1567.7	1562.9	1548.3	1560.7	1558.0
12.5°	1546.7	1542.4	1529.0	1539.2	1537.0
15°	1521.4	1518.7	1503.1	1514.4	1510.7
17.5°	1492.4	1489.7	1475.7	1486.4	1484.3
20°	1461.2	1456.3	1444.5	1452.0	1451.5
22.5°	1425.1	1420.8	1407.3	1416.5	1414.9
25°	1387.4	1382.0	1369.7	1376.7	1374.5
27.5°	1345.4	1340.1	1329.8	1335.2	1334.1
30°	1298.6	1297.0	1284.6	1289.5	1288.4
32.5°	1254.5	1250.2	1241.6	1241.0	1239.4
35°	1204.4	1202.3	1191.5	1193.1	1191.5
37.5°	1153.3	1152.2	1143.1	1140.9	1137.7
40°	1102.7	1099.5	1092.0	1087.7	1085.0
42.5°	1046.8	1048.4	1038.1	1033.3	1031.1
45°	994.6	994.6	986.5	978.4	973.0
47.5°	938.6	939.1	930.5	920.3	917.1
50°	881.5	882.6	871.3	862.7	862.7
52.5°	821.8	825.0	814.3	805.1	801.3
55°	763.1	766.4	754.5	744.8	740.0
57.5°	706.6	706.1	696.4	683.5	682.4
60°	642.0	645.8	633.4	623.7	618.4
62.5°	580.7	585.5	572.1	562.9	559.7
65°	519.9	523.1	510.2	501.6	494.6
67.5°	460.1	459.1	447.2	437.5	433.8
70°	393.9	396.1	383.2	376.2	373.0
72.5°	332.1	334.2	322.9	318.1	312.7
75°	271.2	268.6	264.8	257.2	254.6
77.5°	206.7	209.4	208.3	200.2	199.1
80°	149.1	155.0	151.8	145.8	145.3
82.5°	99.0	104.9	103.3	101.7	100.1
85°	53.8	61.4	60.8	63.0	65.1
87.5°	20.5	26.4	31.2	30.7	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)