

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: P412221

Luminaire Tested: **MRI-2ASR-8-250-L940-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-2ASR-8-250-L940-OPL  
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS  
Light Source: (336) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

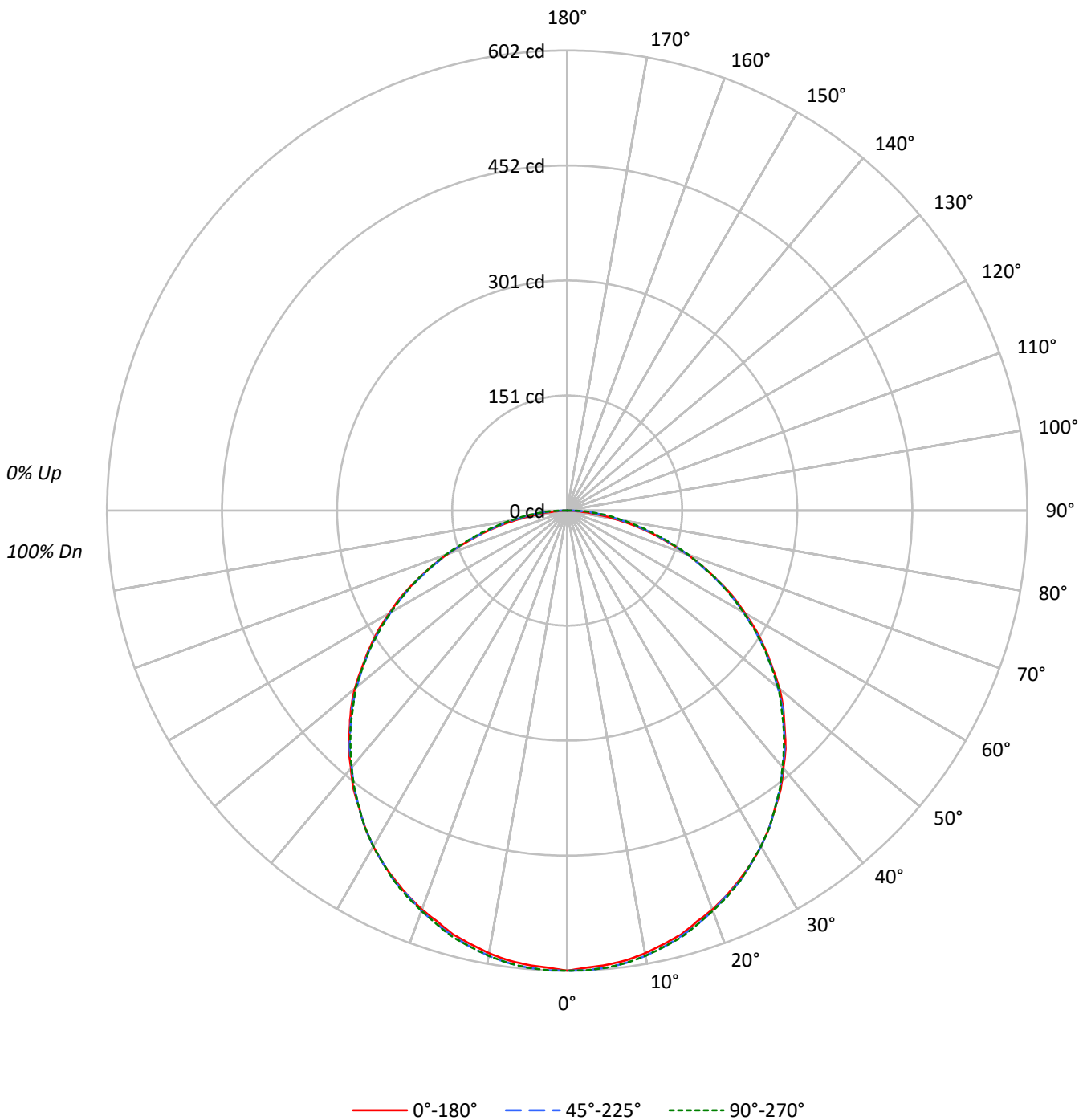
Lumens per Lamp: N/A  
Luminaire Lumens: 1729.0 lumens  
Efficiency: N/A  
Efficacy: 43.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.1  
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	4859	4859	4859
5°	4836	4863	4863
10°	4821	4849	4849
15°	4801	4815	4829
20°	4771	4787	4787
25°	4749	4764	4764
30°	4729	4729	4729
35°	4677	4677	4677
40°	4639	4621	4621
45°	4594	4575	4575
50°	4556	4514	4535
55°	4453	4429	4429
60°	4332	4303	4303
65°	4172	4139	4172
70°	3937	3937	3977
75°	3540	3593	3702
80°	2957	3278	3436
85°	2075	3186	3344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	3.3
10°-20°	162.6	9.4
20°-30°	246.2	14.2
30°-40°	297.3	17.2
40°-50°	309.7	17.9
50°-60°	281.3	16.3
60°-70°	215.1	12.4
70°-80°	123.1	7.1
80°-90°	36.8	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°-30°	465.8	26.9
0°-40°	763.0	44.1
0°-60°	1354.0	78.3
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	597	598	600	600	600	57
15°	574	576	576	578	578	162
25°	533	533	535	535	535	246
35°	475	476	475	475	475	297
45°	402	402	401	401	401	311
55°	316	315	315	315	315	283
65°	218	218	217	217	218	216
75°	114	114	115	117	119	120
85°	22	28	34	34	36	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	601.9	601.9	601.9	601.9	601.9
2.5°	598.4	600.1	601.9	603.6	601.9
5°	596.7	598.4	600.1	600.1	600.1
7.5°	593.3	595.0	596.7	596.7	596.7
10°	588.1	589.8	591.5	591.5	591.5
12.5°	581.2	582.9	584.7	584.7	584.7
15°	574.4	576.1	576.1	577.8	577.8
17.5°	564.0	567.5	567.5	569.2	567.5
20°	555.4	557.2	557.2	557.2	557.2
22.5°	545.1	546.8	545.1	546.8	546.8
25°	533.1	533.1	534.8	534.8	534.8
27.5°	521.0	521.0	521.0	521.0	521.0
30°	507.3	507.3	507.3	507.3	507.3
32.5°	491.8	491.8	491.8	491.8	491.8
35°	474.6	476.3	474.6	474.6	474.6
37.5°	459.1	459.1	457.4	457.4	457.4
40°	440.2	440.2	438.5	438.5	438.5
42.5°	423.0	421.3	421.3	419.6	419.6
45°	402.4	402.4	400.7	400.7	400.7
47.5°	383.5	381.8	381.8	381.8	380.0
50°	362.8	361.1	359.4	359.4	361.1
52.5°	338.8	338.8	337.0	337.0	337.0
55°	316.4	314.7	314.7	314.7	314.7
57.5°	294.1	290.6	290.6	292.3	290.6
60°	268.3	266.5	266.5	266.5	266.5
62.5°	245.9	242.5	242.5	242.5	242.5
65°	218.4	218.4	216.7	216.7	218.4
67.5°	192.6	192.6	190.9	192.6	192.6
70°	166.8	165.1	166.8	166.8	168.5
72.5°	139.3	141.0	141.0	141.0	142.7
75°	113.5	113.5	115.2	116.9	118.7
77.5°	87.7	89.4	92.9	94.6	96.3
80°	63.6	67.1	70.5	73.9	73.9
82.5°	41.3	44.7	51.6	56.7	56.7
85°	22.4	27.5	34.4	34.4	36.1
87.5°	8.6	13.8	18.9	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)