

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: P412075

Luminaire Tested: **MRI-2ASR-2-250-L935-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412075  
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-2-250-L935-OPL  
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS  
Light Source: (98) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 428.0 lumens  
Efficiency: N/A  
Efficacy: 38.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')  
CIE Type: Direct

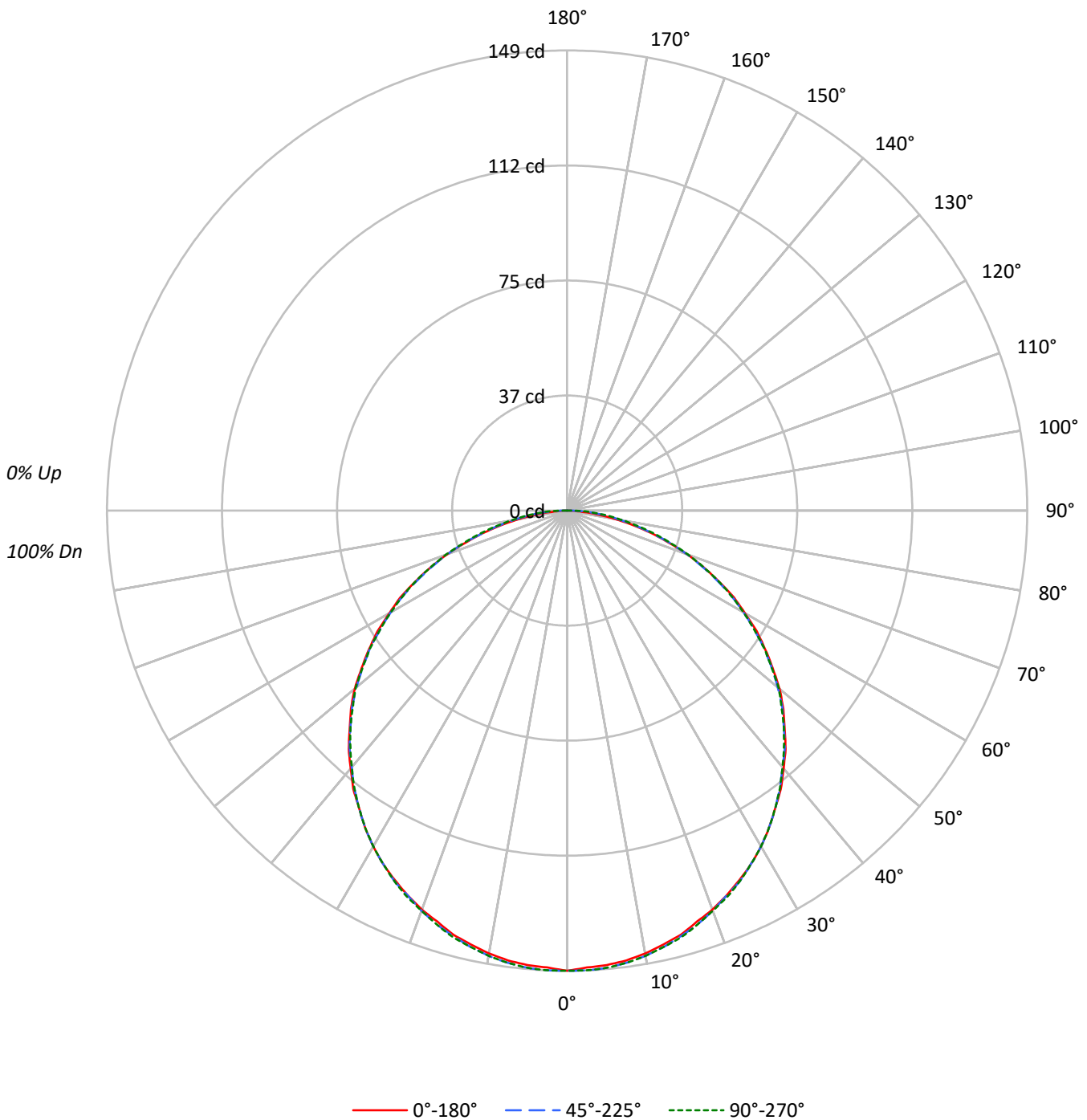
Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4811	4811	4811
5°	4788	4817	4817
10°	4774	4800	4800
15°	4754	4767	4781
20°	4725	4739	4739
25°	4703	4717	4717
30°	4683	4683	4683
35°	4632	4632	4632
40°	4595	4574	4574
45°	4548	4530	4530
50°	4511	4471	4491
55°	4408	4386	4386
60°	4288	4263	4263
65°	4134	4096	4134
70°	3899	3899	3937
75°	3506	3556	3668
80°	2938	3254	3403
85°	2038	3149	3297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.1	3.3
10°-20°	40.3	9.4
20°-30°	61.0	14.2
30°-40°	73.6	17.2
40°-50°	76.7	17.9
50°-60°	69.6	16.3
60°-70°	53.2	12.4
70°-80°	30.5	7.1
80°-90°	9.1	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°	115.3	26.9
0°-40°	188.9	44.1
0°-60°	335.2	78.3
0°-90°	428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	149	149	149	149	149	
5°	148	148	149	149	149	14
15°	142	143	143	143	143	40
25°	132	132	132	132	132	61
35°	118	118	118	118	118	74
45°	100	100	99	99	99	77
55°	78	78	78	78	78	70
65°	54	54	54	54	54	54
75°	28	28	28	29	29	30
85°	6	7	8	8	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	149.0	149.0	149.0	149.0	149.0
2.5°	148.1	148.6	149.0	149.4	149.0
5°	147.7	148.1	148.6	148.6	148.6
7.5°	146.9	147.3	147.7	147.7	147.7
10°	145.6	146.0	146.4	146.4	146.4
12.5°	143.9	144.3	144.7	144.7	144.7
15°	142.2	142.6	142.6	143.0	143.0
17.5°	139.6	140.5	140.5	140.9	140.5
20°	137.5	137.9	137.9	137.9	137.9
22.5°	134.9	135.4	134.9	135.4	135.4
25°	132.0	132.0	132.4	132.4	132.4
27.5°	129.0	129.0	129.0	129.0	129.0
30°	125.6	125.6	125.6	125.6	125.6
32.5°	121.7	121.7	121.7	121.7	121.7
35°	117.5	117.9	117.5	117.5	117.5
37.5°	113.7	113.7	113.2	113.2	113.2
40°	109.0	109.0	108.5	108.5	108.5
42.5°	104.7	104.3	104.3	103.9	103.9
45°	99.6	99.6	99.2	99.2	99.2
47.5°	94.9	94.5	94.5	94.5	94.1
50°	89.8	89.4	89.0	89.0	89.4
52.5°	83.9	83.9	83.4	83.4	83.4
55°	78.3	77.9	77.9	77.9	77.9
57.5°	72.8	71.9	71.9	72.4	71.9
60°	66.4	66.0	66.0	66.0	66.0
62.5°	60.9	60.0	60.0	60.0	60.0
65°	54.1	54.1	53.6	53.6	54.1
67.5°	47.7	47.7	47.3	47.7	47.7
70°	41.3	40.9	41.3	41.3	41.7
72.5°	34.5	34.9	34.9	34.9	35.3
75°	28.1	28.1	28.5	28.9	29.4
77.5°	21.7	22.1	23.0	23.4	23.8
80°	15.8	16.6	17.5	18.3	18.3
82.5°	10.2	11.1	12.8	14.0	14.0
85°	5.5	6.8	8.5	8.5	8.9
87.5°	2.1	3.4	4.7	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)