

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: P412079

Luminaire Tested: **MRI-2ASR-2-250-L950-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412079  
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-L950-OPL  
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS  
Light Source: (98) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 459.0 lumens  
Efficiency: N/A  
Efficacy: 41.4 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

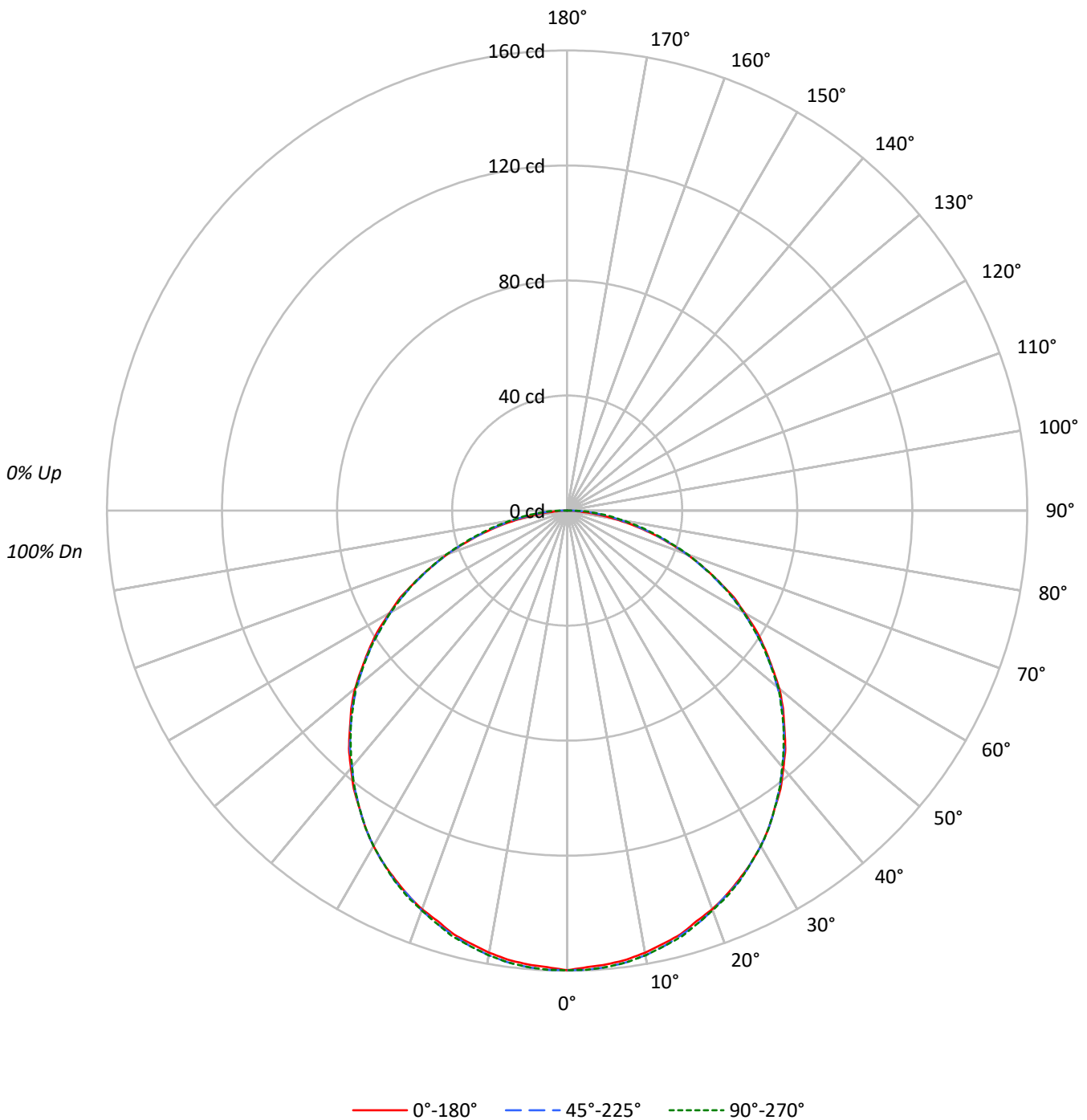
Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P412079

CATALOG NUMBER: MRI-2ASR-2-250-L950-OPL

### Luminous Intensity Polar Plot





TEST NUMBER: P412079

CATALOG NUMBER: MRI-2ASR-2-250-L950-OPL

**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°	5160	5160	5160
5°	5135	5164	5164
10°	5118	5148	5148
15°	5098	5112	5128
20°	5069	5082	5082
25°	5042	5059	5059
30°	5023	5023	5023
35°	4967	4967	4967
40°	4928	4907	4907
45°	4877	4859	4859
50°	4838	4793	4818
55°	4729	4701	4701
60°	4598	4573	4573
65°	4432	4393	4432
70°	4183	4183	4220
75°	3755	3818	3930
80°	3143	3477	3645
85°	2186	3372	3557



TEST NUMBER: P412079

CATALOG NUMBER: MRI-2ASR-2-250-L950-OPL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.1	3.3
10°-20°	43.2	9.4
20°-30°	65.4	14.2
30°-40°	78.9	17.2
40°-50°	82.2	17.9
50°-60°	74.7	16.3
60°-70°	57.1	12.4
70°-80°	32.7	7.1
80°-90°	9.8	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°	123.6	26.9
0°-40°	202.6	44.1
0°-60°	359.4	78.3
0°-90°	459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	160	160	160	160	160	
5°	158	159	159	159	159	15
15°	152	153	153	153	153	43
25°	142	142	142	142	142	65
35°	126	126	126	126	126	79
45°	107	107	106	106	106	83
55°	84	84	84	84	84	75
65°	58	58	58	58	58	57
75°	30	30	31	31	32	32
85°	6	7	9	9	10	8
90°	0	0	0	0	0	



TEST NUMBER: P412079

CATALOG NUMBER: MRI-2ASR-2-250-L950-OPL

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	159.8	159.8	159.8	159.8	159.8
2.5°	158.9	159.3	159.8	160.2	159.8
5°	158.4	158.9	159.3	159.3	159.3
7.5°	157.5	158.0	158.4	158.4	158.4
10°	156.1	156.6	157.0	157.0	157.0
12.5°	154.3	154.8	155.2	155.2	155.2
15°	152.5	152.9	152.9	153.4	153.4
17.5°	149.7	150.6	150.6	151.1	150.6
20°	147.5	147.9	147.9	147.9	147.9
22.5°	144.7	145.2	144.7	145.2	145.2
25°	141.5	141.5	142.0	142.0	142.0
27.5°	138.3	138.3	138.3	138.3	138.3
30°	134.7	134.7	134.7	134.7	134.7
32.5°	130.6	130.6	130.6	130.6	130.6
35°	126.0	126.5	126.0	126.0	126.0
37.5°	121.9	121.9	121.4	121.4	121.4
40°	116.9	116.9	116.4	116.4	116.4
42.5°	112.3	111.8	111.8	111.4	111.4
45°	106.8	106.8	106.4	106.4	106.4
47.5°	101.8	101.3	101.3	101.3	100.9
50°	96.3	95.9	95.4	95.4	95.9
52.5°	89.9	89.9	89.5	89.5	89.5
55°	84.0	83.5	83.5	83.5	83.5
57.5°	78.1	77.1	77.1	77.6	77.1
60°	71.2	70.8	70.8	70.8	70.8
62.5°	65.3	64.4	64.4	64.4	64.4
65°	58.0	58.0	57.5	57.5	58.0
67.5°	51.1	51.1	50.7	51.1	51.1
70°	44.3	43.8	44.3	44.3	44.7
72.5°	37.0	37.4	37.4	37.4	37.9
75°	30.1	30.1	30.6	31.0	31.5
77.5°	23.3	23.7	24.7	25.1	25.6
80°	16.9	17.8	18.7	19.6	19.6
82.5°	11.0	11.9	13.7	15.1	15.1
85°	5.9	7.3	9.1	9.1	9.6
87.5°	2.3	3.7	5.0	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)