

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: P412077

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412077
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-L940-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432.0 lumens
Efficiency: N/A
Efficacy: 38.9 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

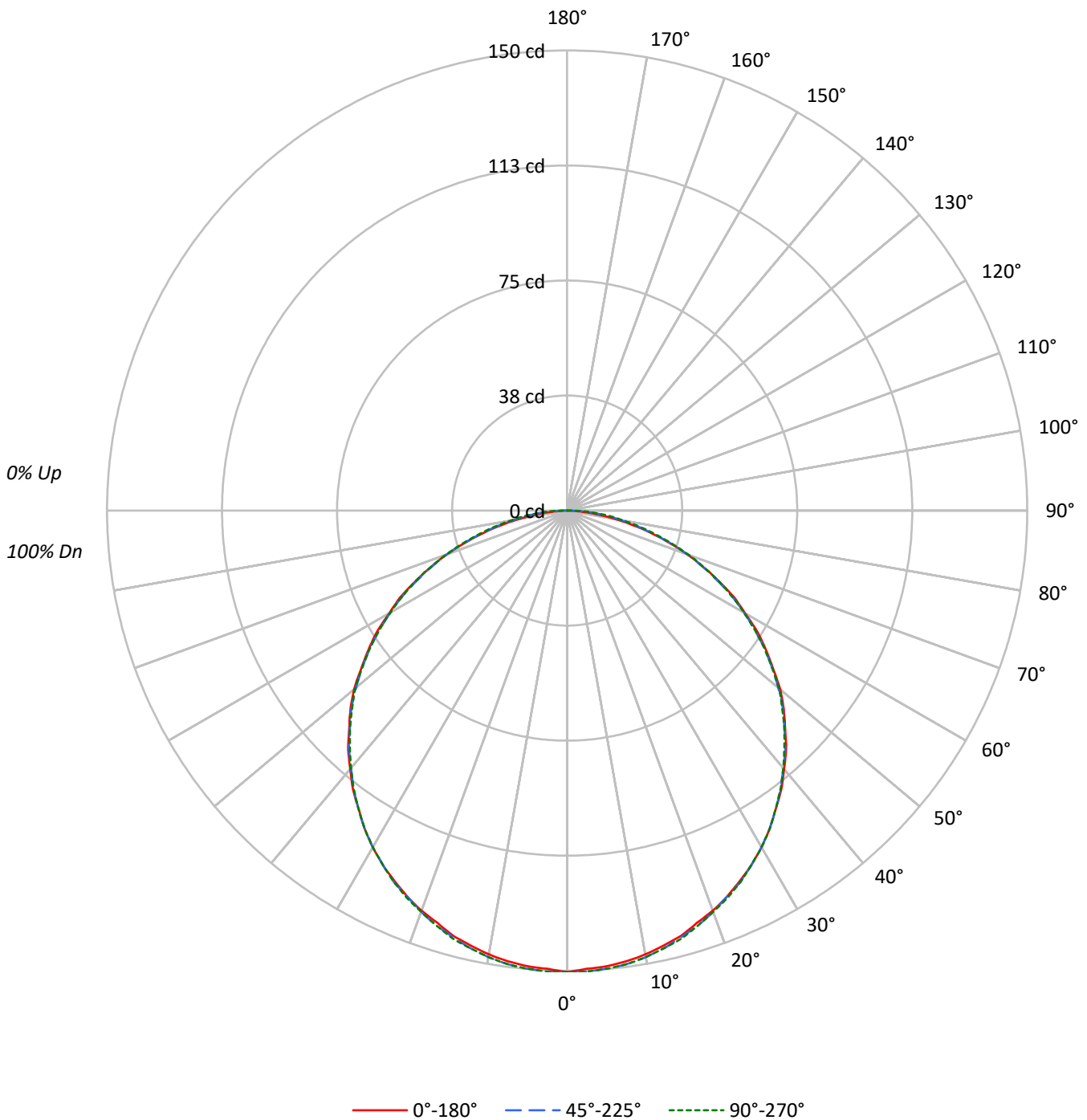
Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412077

CATALOG NUMBER: MRI-2ASR-2-250-L940-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412077

CATALOG NUMBER: MRI-2ASR-2-250-L940-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	58	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°	4857	4857	4857
5°	4833	4859	4859
10°	4817	4846	4846
15°	4797	4811	4827
20°	4770	4783	4783
25°	4746	4760	4760
30°	4724	4724	4724
35°	4675	4675	4675
40°	4637	4620	4620
45°	4590	4571	4571
50°	4556	4511	4531
55°	4453	4425	4425
60°	4327	4301	4301
65°	4172	4134	4172
70°	3937	3937	3975
75°	3543	3593	3693
80°	2957	3273	3440
85°	2075	3186	3335



TEST NUMBER: P412077

CATALOG NUMBER: MRI-2ASR-2-250-L940-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	3.3
10°-20°	40.6	9.4
20°-30°	61.5	14.2
30°-40°	74.3	17.2
40°-50°	77.4	17.9
50°-60°	70.3	16.3
60°-70°	53.7	12.4
70°-80°	30.8	7.1
80°-90°	9.2	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°	116.4	26.9
0°-40°	190.6	44.1
0°-60°	338.3	78.3
0°-90°	432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	150	150	150	150	150	
5°	149	150	150	150	150	14
15°	144	144	144	144	144	40
25°	133	133	134	134	134	61
35°	119	119	119	119	119	74
45°	100	100	100	100	100	78
55°	79	79	79	79	79	71
65°	55	55	54	54	55	54
75°	28	28	29	29	30	30
85°	6	7	9	9	9	7
90°	0	0	0	0	0	



TEST NUMBER: P412077

CATALOG NUMBER: MRI-2ASR-2-250-L940-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	150.4	150.4	150.4	150.4	150.4
2.5°	149.5	149.9	150.4	150.8	150.4
5°	149.1	149.5	149.9	149.9	149.9
7.5°	148.2	148.7	149.1	149.1	149.1
10°	146.9	147.4	147.8	147.8	147.8
12.5°	145.2	145.7	146.1	146.1	146.1
15°	143.5	143.9	143.9	144.4	144.4
17.5°	140.9	141.8	141.8	142.2	141.8
20°	138.8	139.2	139.2	139.2	139.2
22.5°	136.2	136.6	136.2	136.6	136.6
25°	133.2	133.2	133.6	133.6	133.6
27.5°	130.2	130.2	130.2	130.2	130.2
30°	126.7	126.7	126.7	126.7	126.7
32.5°	122.9	122.9	122.9	122.9	122.9
35°	118.6	119.0	118.6	118.6	118.6
37.5°	114.7	114.7	114.3	114.3	114.3
40°	110.0	110.0	109.6	109.6	109.6
42.5°	105.7	105.3	105.3	104.8	104.8
45°	100.5	100.5	100.1	100.1	100.1
47.5°	95.8	95.4	95.4	95.4	95.0
50°	90.7	90.2	89.8	89.8	90.2
52.5°	84.6	84.6	84.2	84.2	84.2
55°	79.1	78.6	78.6	78.6	78.6
57.5°	73.5	72.6	72.6	73.0	72.6
60°	67.0	66.6	66.6	66.6	66.6
62.5°	61.4	60.6	60.6	60.6	60.6
65°	54.6	54.6	54.1	54.1	54.6
67.5°	48.1	48.1	47.7	48.1	48.1
70°	41.7	41.2	41.7	41.7	42.1
72.5°	34.8	35.2	35.2	35.2	35.7
75°	28.4	28.4	28.8	29.2	29.6
77.5°	21.9	22.3	23.2	23.6	24.1
80°	15.9	16.8	17.6	18.5	18.5
82.5°	10.3	11.2	12.9	14.2	14.2
85°	5.6	6.9	8.6	8.6	9.0
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)