

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: P412147

Luminaire Tested: **MRI-2ASR-4-250-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412147
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-4-250-L935-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 856.0 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

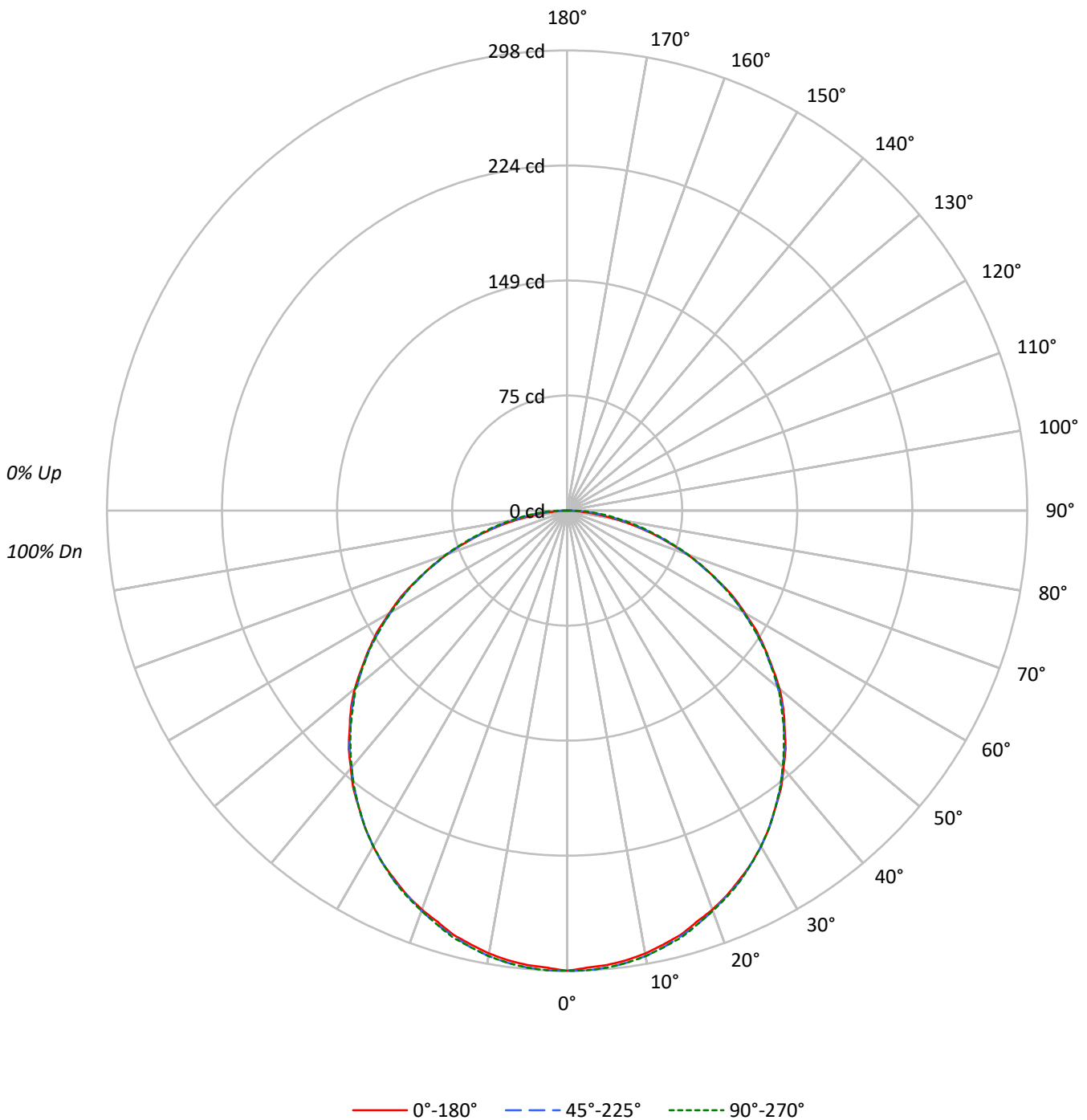
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412147

CATALOG NUMBER: MRI-2ASR-4-250-L935-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412147

CATALOG NUMBER: MRI-2ASR-4-250-L935-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°	4811	4811	4811
5°	4788	4815	4815
10°	4774	4802	4802
15°	4754	4767	4782
20°	4725	4739	4739
25°	4701	4717	4717
30°	4681	4681	4681
35°	4632	4632	4632
40°	4593	4576	4576
45°	4548	4530	4530
50°	4511	4469	4491
55°	4408	4386	4386
60°	4288	4263	4263
65°	4130	4099	4130
70°	3899	3899	3937
75°	3506	3556	3662
80°	2929	3245	3403
85°	2056	3149	3316



TEST NUMBER: P412147

CATALOG NUMBER: MRI-2ASR-4-250-L935-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	3.3
10°-20°	80.5	9.4
20°-30°	121.9	14.2
30°-40°	147.2	17.2
40°-50°	153.3	17.9
50°-60°	139.3	16.3
60°-70°	106.5	12.4
70°-80°	61.0	7.1
80°-90°	18.2	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°	230.6	26.9
0°-40°	377.8	44.1
0°-60°	670.4	78.3
0°-90°	856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	295	296	297	297	297	28
15°	284	285	285	286	286	80
25°	264	264	265	265	265	122
35°	235	236	235	235	235	147
45°	199	199	198	198	198	154
55°	157	156	156	156	156	140
65°	108	108	107	107	108	107
75°	56	56	57	58	59	59
85°	11	14	17	17	18	14
90°	0	0	0	0	0	



TEST NUMBER: P412147

CATALOG NUMBER: MRI-2ASR-4-250-L935-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	298.0	298.0	298.0	298.0	298.0
2.5°	296.3	297.1	298.0	298.8	298.0
5°	295.4	296.3	297.1	297.1	297.1
7.5°	293.7	294.6	295.4	295.4	295.4
10°	291.2	292.0	292.9	292.9	292.9
12.5°	287.8	288.6	289.5	289.5	289.5
15°	284.4	285.2	285.2	286.1	286.1
17.5°	279.2	280.9	280.9	281.8	280.9
20°	275.0	275.8	275.8	275.8	275.8
22.5°	269.9	270.7	269.9	270.7	270.7
25°	263.9	263.9	264.8	264.8	264.8
27.5°	258.0	258.0	258.0	258.0	258.0
30°	251.1	251.1	251.1	251.1	251.1
32.5°	243.5	243.5	243.5	243.5	243.5
35°	235.0	235.8	235.0	235.0	235.0
37.5°	227.3	227.3	226.5	226.5	226.5
40°	217.9	217.9	217.1	217.1	217.1
42.5°	209.4	208.6	208.6	207.7	207.7
45°	199.2	199.2	198.4	198.4	198.4
47.5°	189.9	189.0	189.0	189.0	188.1
50°	179.6	178.8	177.9	177.9	178.8
52.5°	167.7	167.7	166.9	166.9	166.9
55°	156.6	155.8	155.8	155.8	155.8
57.5°	145.6	143.9	143.9	144.7	143.9
60°	132.8	132.0	132.0	132.0	132.0
62.5°	121.7	120.0	120.0	120.0	120.0
65°	108.1	108.1	107.3	107.3	108.1
67.5°	95.4	95.4	94.5	95.4	95.4
70°	82.6	81.7	82.6	82.6	83.4
72.5°	69.0	69.8	69.8	69.8	70.7
75°	56.2	56.2	57.0	57.9	58.7
77.5°	43.4	44.3	46.0	46.8	47.7
80°	31.5	33.2	34.9	36.6	36.6
82.5°	20.4	22.1	25.5	28.1	28.1
85°	11.1	13.6	17.0	17.0	17.9
87.5°	4.3	6.8	9.4	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)