

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: P412149

Luminaire Tested: **MRI-2ASR-4-250-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412149
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-L940-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 41.5 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

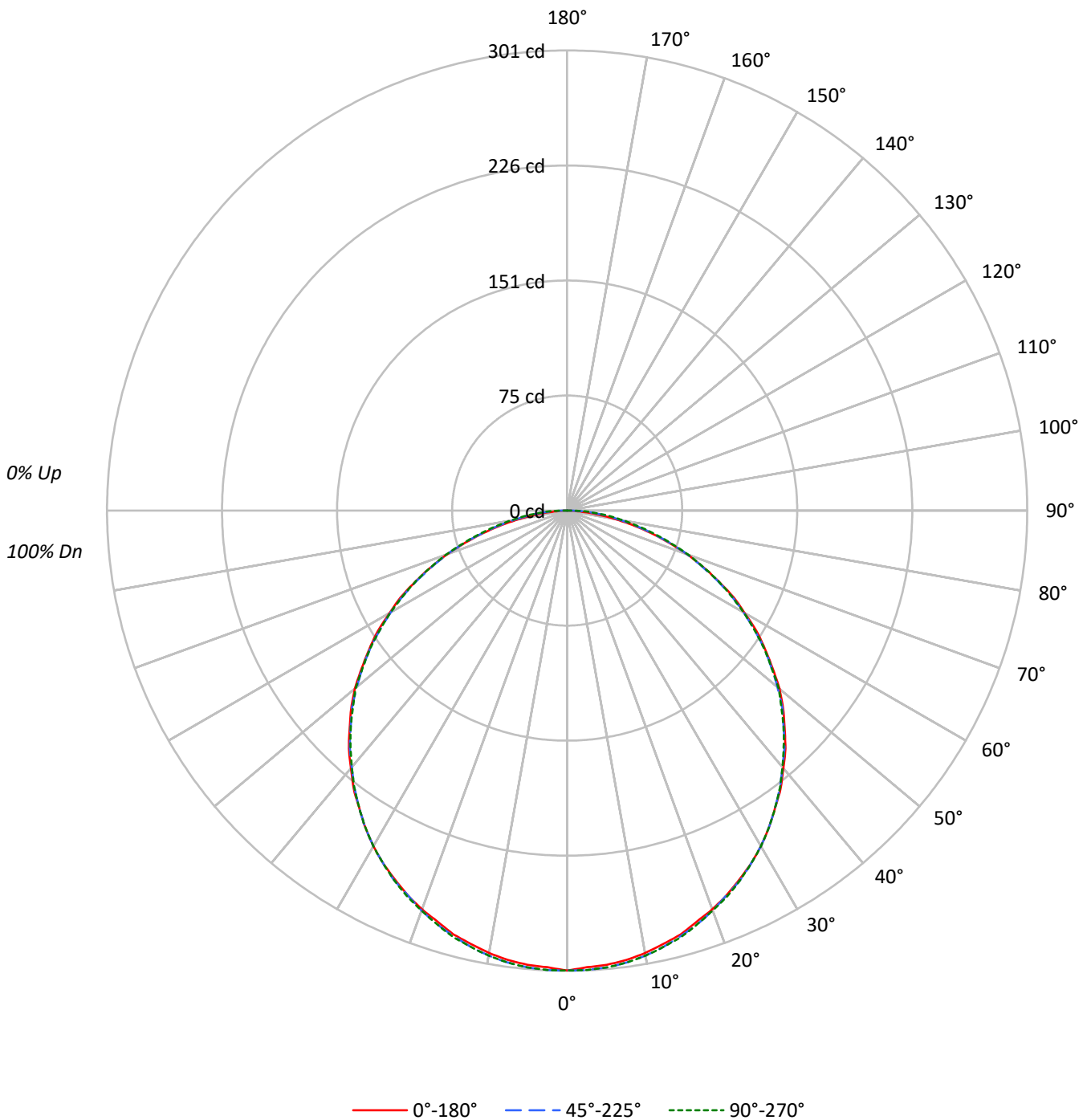
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412149

CATALOG NUMBER: MRI-2ASR-4-250-L940-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412149

CATALOG NUMBER: MRI-2ASR-4-250-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	77	70	64	74	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°	4857	4857	4857
5°	4833	4861	4861
10°	4818	4846	4846
15°	4797	4812	4826
20°	4770	4783	4783
25°	4746	4760	4760
30°	4726	4726	4726
35°	4675	4675	4675
40°	4637	4618	4618
45°	4592	4571	4571
50°	4554	4511	4534
55°	4450	4428	4428
60°	4330	4301	4301
65°	4168	4138	4168
70°	3937	3937	3975
75°	3537	3593	3699
80°	2957	3273	3440
85°	2075	3186	3335



TEST NUMBER: P412149

CATALOG NUMBER: MRI-2ASR-4-250-L940-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	3.3
10°-20°	81.3	9.4
20°-30°	123.0	14.2
30°-40°	148.6	17.2
40°-50°	154.8	17.9
50°-60°	140.6	16.3
60°-70°	107.5	12.4
70°-80°	61.5	7.1
80°-90°	18.4	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°	232.8	26.9
0°-40°	381.3	44.1
0°-60°	676.6	78.3
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	298	299	300	300	300	28
15°	287	288	288	289	289	81
25°	266	266	267	267	267	123
35°	237	238	237	237	237	149
45°	201	201	200	200	200	155
55°	158	157	157	157	157	141
65°	109	109	108	108	109	108
75°	57	57	58	58	59	60
85°	11	14	17	17	18	14
90°	0	0	0	0	0	



TEST NUMBER: P412149

CATALOG NUMBER: MRI-2ASR-4-250-L940-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	300.8	300.8	300.8	300.8	300.8
2.5°	299.0	299.9	300.8	301.6	300.8
5°	298.2	299.0	299.9	299.9	299.9
7.5°	296.5	297.3	298.2	298.2	298.2
10°	293.9	294.7	295.6	295.6	295.6
12.5°	290.4	291.3	292.2	292.2	292.2
15°	287.0	287.9	287.9	288.7	288.7
17.5°	281.9	283.6	283.6	284.4	283.6
20°	277.6	278.4	278.4	278.4	278.4
22.5°	272.4	273.3	272.4	273.3	273.3
25°	266.4	266.4	267.2	267.2	267.2
27.5°	260.4	260.4	260.4	260.4	260.4
30°	253.5	253.5	253.5	253.5	253.5
32.5°	245.8	245.8	245.8	245.8	245.8
35°	237.2	238.0	237.2	237.2	237.2
37.5°	229.4	229.4	228.6	228.6	228.6
40°	220.0	220.0	219.1	219.1	219.1
42.5°	211.4	210.5	210.5	209.7	209.7
45°	201.1	201.1	200.2	200.2	200.2
47.5°	191.6	190.8	190.8	190.8	189.9
50°	181.3	180.5	179.6	179.6	180.5
52.5°	169.3	169.3	168.4	168.4	168.4
55°	158.1	157.3	157.3	157.3	157.3
57.5°	146.9	145.2	145.2	146.1	145.2
60°	134.1	133.2	133.2	133.2	133.2
62.5°	122.9	121.2	121.2	121.2	121.2
65°	109.1	109.1	108.3	108.3	109.1
67.5°	96.2	96.2	95.4	96.2	96.2
70°	83.4	82.5	83.4	83.4	84.2
72.5°	69.6	70.5	70.5	70.5	71.3
75°	56.7	56.7	57.6	58.4	59.3
77.5°	43.8	44.7	46.4	47.3	48.1
80°	31.8	33.5	35.2	37.0	37.0
82.5°	20.6	22.3	25.8	28.4	28.4
85°	11.2	13.7	17.2	17.2	18.0
87.5°	4.3	6.9	9.5	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)