

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: P412157

Luminaire Tested: **MRI-2ASR-4-500-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412157
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-4-500-L850-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2189.0 lumens
Efficiency: N/A
Efficacy: 50.4 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

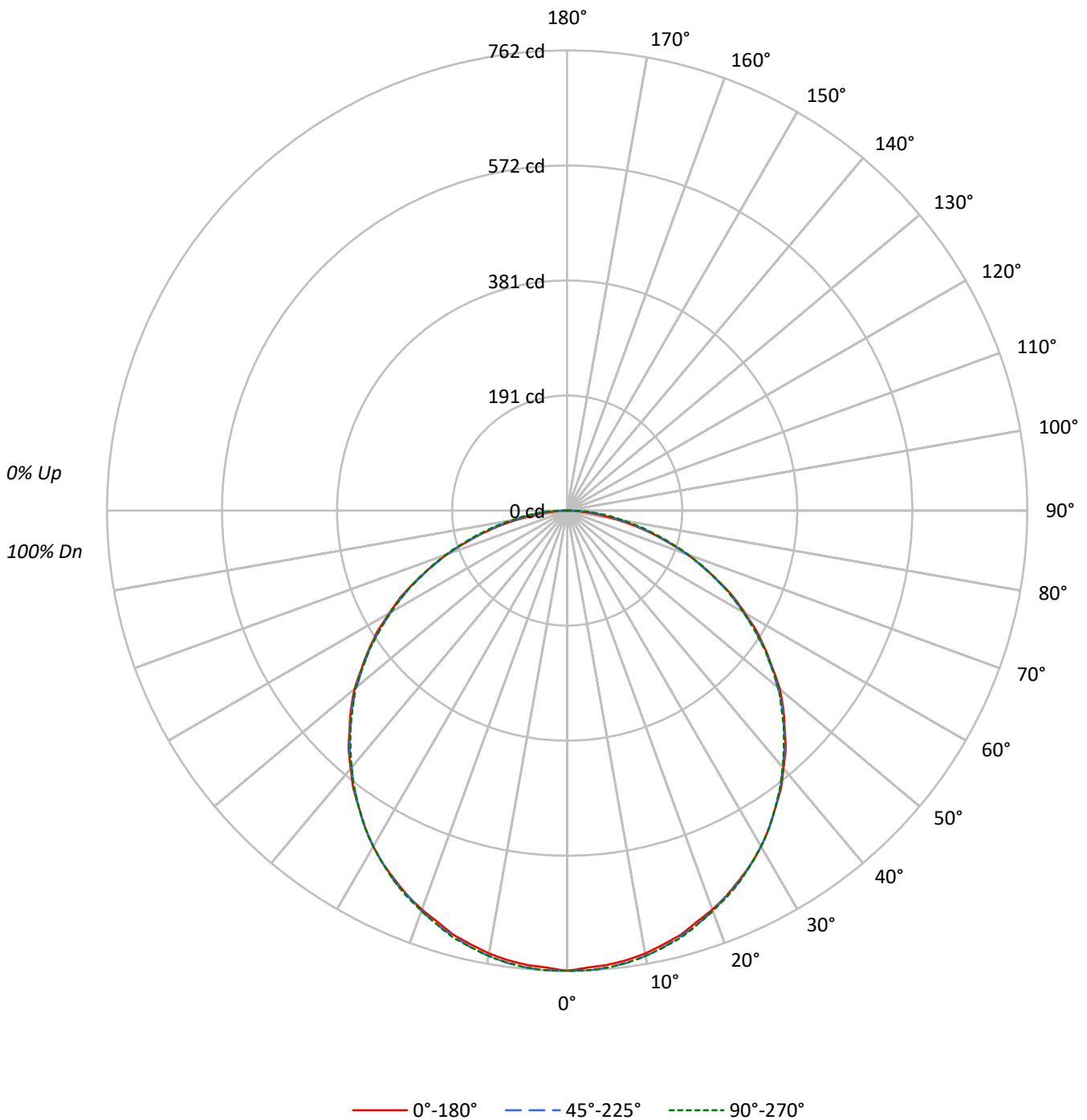
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	12303	12303	12303
5°	12245	12314	12314
10°	12208	12278	12278
15°	12155	12191	12227
20°	12082	12120	12120
25°	12023	12063	12063
30°	11975	11975	11975
35°	11844	11844	11844
40°	11746	11702	11702
45°	11631	11584	11584
50°	11539	11429	11484
55°	11277	11215	11215
60°	10966	10898	10898
65°	10563	10479	10563
70°	9970	9970	10074
75°	8964	9102	9370
80°	7494	8303	8703
85°	5243	8058	8466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.3
10°-20°	205.9	9.4
20°-30°	311.7	14.2
30°-40°	376.4	17.2
40°-50°	392.1	17.9
50°-60°	356.1	16.3
60°-70°	272.3	12.4
70°-80°	155.9	7.1
80°-90°	46.6	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°	589.7	26.9
0°-40°	966.1	44.1
0°-60°	1714.2	78.3
0°-90°	2189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	756	758	760	760	760	72
15°	727	729	729	732	732	205
25°	675	675	677	677	677	311
35°	601	603	601	601	601	377
45°	509	509	507	507	507	394
55°	401	398	398	398	398	358
65°	276	276	274	274	276	274
75°	144	144	146	148	150	152
85°	28	35	44	44	46	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.0	762.0	762.0	762.0	762.0
2.5°	757.6	759.8	762.0	764.2	762.0
5°	755.5	757.6	759.8	759.8	759.8
7.5°	751.1	753.3	755.5	755.5	755.5
10°	744.6	746.8	748.9	748.9	748.9
12.5°	735.9	738.0	740.2	740.2	740.2
15°	727.2	729.3	729.3	731.5	731.5
17.5°	714.1	718.4	718.4	720.6	718.4
20°	703.2	705.4	705.4	705.4	705.4
22.5°	690.1	692.3	690.1	692.3	692.3
25°	674.9	674.9	677.1	677.1	677.1
27.5°	659.7	659.7	659.7	659.7	659.7
30°	642.3	642.3	642.3	642.3	642.3
32.5°	622.7	622.7	622.7	622.7	622.7
35°	600.9	603.1	600.9	600.9	600.9
37.5°	581.3	581.3	579.1	579.1	579.1
40°	557.3	557.3	555.2	555.2	555.2
42.5°	535.6	533.4	533.4	531.2	531.2
45°	509.4	509.4	507.3	507.3	507.3
47.5°	485.5	483.3	483.3	483.3	481.1
50°	459.4	457.2	455.0	455.0	457.2
52.5°	428.9	428.9	426.7	426.7	426.7
55°	400.6	398.4	398.4	398.4	398.4
57.5°	372.3	367.9	367.9	370.1	367.9
60°	339.6	337.5	337.5	337.5	337.5
62.5°	311.3	307.0	307.0	307.0	307.0
65°	276.5	276.5	274.3	274.3	276.5
67.5°	243.8	243.8	241.7	243.8	243.8
70°	211.2	209.0	211.2	211.2	213.4
72.5°	176.3	178.5	178.5	178.5	180.7
75°	143.7	143.7	145.9	148.0	150.2
77.5°	111.0	113.2	117.6	119.7	121.9
80°	80.6	84.9	89.3	93.6	93.6
82.5°	52.3	56.6	65.3	71.8	71.8
85°	28.3	34.8	43.5	43.5	45.7
87.5°	10.9	17.4	23.9	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)