

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: P412231

Luminaire Tested: **MRI-2ASR-8-500-L935-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412231  
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-8-500-L935-OPL  
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS  
Light Source: (336) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

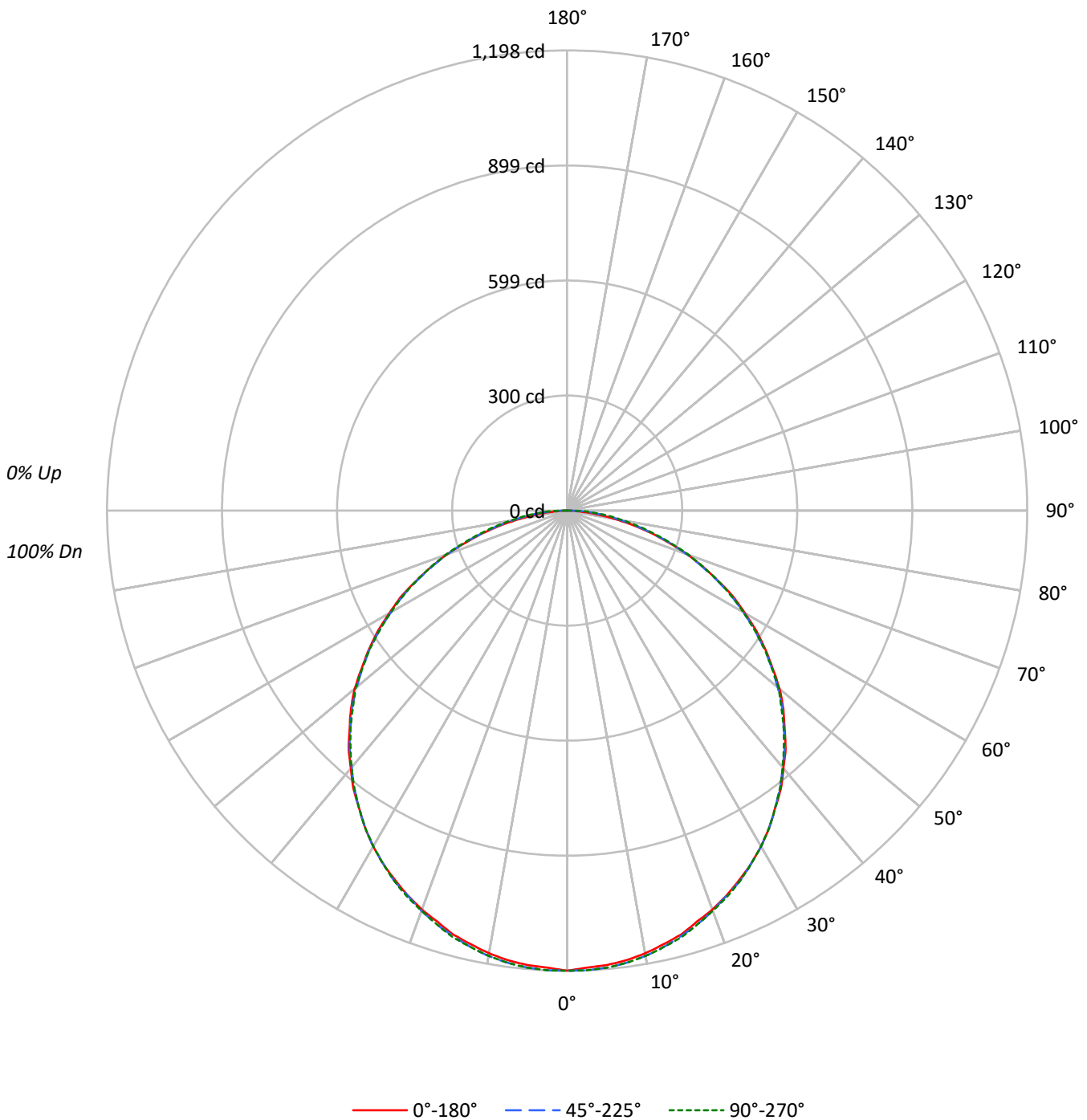
Lumens per Lamp: N/A  
Luminaire Lumens: 3441.0 lumens  
Efficiency: N/A  
Efficacy: 39.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	9670	9670	9670
5°	9623	9679	9679
10°	9594	9651	9651
15°	9554	9582	9611
20°	9497	9526	9526
25°	9450	9480	9480
30°	9411	9411	9411
35°	9309	9309	9309
40°	9233	9197	9197
45°	9143	9104	9104
50°	9069	8984	9026
55°	8863	8815	8815
60°	8620	8565	8565
65°	8302	8237	8302
70°	7836	7836	7917
75°	7046	7152	7364
80°	5886	6523	6843
85°	4122	6336	6660



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	3.3
10°-20°	323.7	9.4
20°-30°	490.0	14.2
30°-40°	591.6	17.2
40°-50°	616.3	17.9
50°-60°	559.8	16.3
60°-70°	428.0	12.4
70°-80°	245.1	7.1
80°-90°	73.2	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°	927.0	26.9
0°-40°	1518.6	44.1
0°-60°	2694.7	78.3
0°-90°	3441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1188	1191	1194	1194	1194	113
15°	1143	1146	1146	1150	1150	322
25°	1061	1061	1064	1064	1064	489
35°	945	948	945	945	945	592
45°	801	801	797	797	797	619
55°	630	626	626	626	626	563
65°	435	435	431	431	435	431
75°	226	226	229	233	236	239
85°	44	55	68	68	72	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1191.0	1194.4	1197.8	1201.2	1197.8
5°	1187.5	1191.0	1194.4	1194.4	1194.4
7.5°	1180.7	1184.1	1187.5	1187.5	1187.5
10°	1170.4	1173.9	1177.3	1177.3	1177.3
12.5°	1156.7	1160.2	1163.6	1163.6	1163.6
15°	1143.1	1146.5	1146.5	1149.9	1149.9
17.5°	1122.5	1129.4	1129.4	1132.8	1129.4
20°	1105.4	1108.8	1108.8	1108.8	1108.8
22.5°	1084.9	1088.3	1084.9	1088.3	1088.3
25°	1060.9	1060.9	1064.3	1064.3	1064.3
27.5°	1037.0	1037.0	1037.0	1037.0	1037.0
30°	1009.6	1009.6	1009.6	1009.6	1009.6
32.5°	978.8	978.8	978.8	978.8	978.8
35°	944.6	948.0	944.6	944.6	944.6
37.5°	913.8	913.8	910.3	910.3	910.3
40°	876.1	876.1	872.7	872.7	872.7
42.5°	841.9	838.5	838.5	835.0	835.0
45°	800.8	800.8	797.4	797.4	797.4
47.5°	763.2	759.8	759.8	759.8	756.3
50°	722.1	718.7	715.3	715.3	718.7
52.5°	674.2	674.2	670.8	670.8	670.8
55°	629.7	626.3	626.3	626.3	626.3
57.5°	585.2	578.4	578.4	581.8	578.4
60°	533.9	530.5	530.5	530.5	530.5
62.5°	489.4	482.5	482.5	482.5	482.5
65°	434.6	434.6	431.2	431.2	434.6
67.5°	383.3	383.3	379.9	383.3	383.3
70°	332.0	328.5	332.0	332.0	335.4
72.5°	277.2	280.6	280.6	280.6	284.1
75°	225.9	225.9	229.3	232.7	236.1
77.5°	174.5	178.0	184.8	188.2	191.7
80°	126.6	133.5	140.3	147.2	147.2
82.5°	82.1	89.0	102.7	112.9	112.9
85°	44.5	54.8	68.4	68.4	71.9
87.5°	17.1	27.4	37.6	47.9	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)