

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: P412123

Luminaire Tested: **MRI-4ASR-2-500-L935-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-4ASR-2-500-L935-OPL  
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS  
Light Source: (196) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

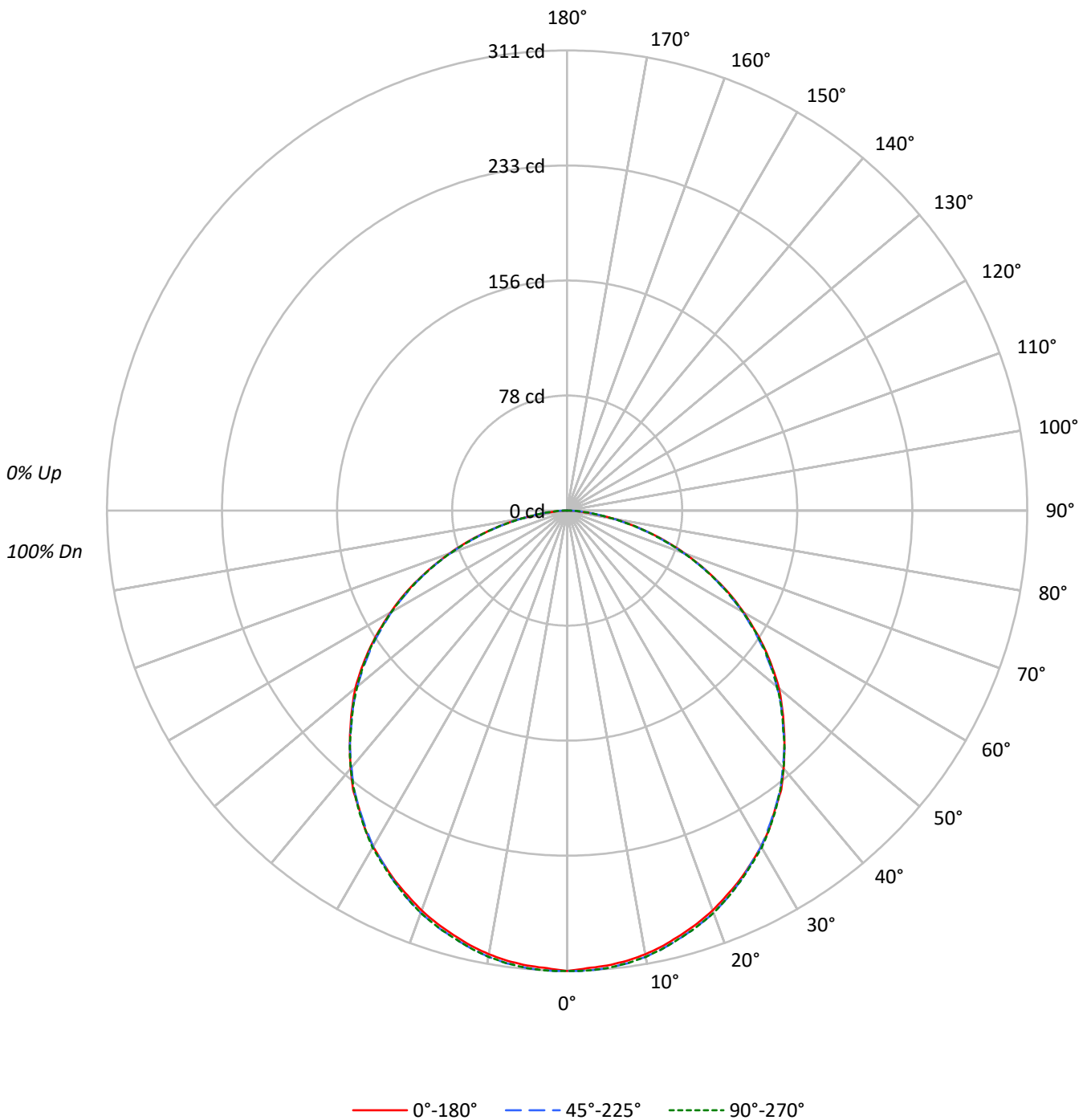
Lumens per Lamp: N/A  
Luminaire Lumens: 883.0 lumens  
Efficiency: N/A  
Efficacy: 48.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.1  
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	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5025	5025	5025
5°	5003	5031	5031
10°	4992	5020	5020
15°	4963	4991	4991
20°	4942	4971	4971
25°	4912	4928	4928
30°	4888	4888	4903
35°	4835	4835	4851
40°	4795	4778	4795
45°	4731	4713	4713
50°	4695	4652	4652
55°	4594	4546	4571
60°	4453	4424	4424
65°	4264	4233	4233
70°	3994	3951	3951
75°	3587	3537	3537
80°	2985	2910	2910
85°	1871	2038	2186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.5	3.3
10°-20°	84.2	9.5
20°-30°	127.4	14.4
30°-40°	153.7	17.4
40°-50°	159.6	18.1
50°-60°	144.6	16.4
60°-70°	109.6	12.4
70°-80°	60.4	6.8
80°-90°	14.1	1.6
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°	241.1	27.3
0°-40°	394.8	44.7
0°-60°	699.0	79.2
0°-90°	883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	309	310	310	311	310	29
15°	297	298	299	299	299	84
25°	276	276	277	277	277	127
35°	245	245	245	245	246	154
45°	207	206	206	207	206	160
55°	163	162	162	162	162	146
65°	112	111	111	111	111	110
75°	58	58	57	57	57	61
85°	10	11	11	12	12	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	311.2	311.2	311.2	311.2	311.2
2.5°	309.6	310.4	311.2	312.1	311.2
5°	308.7	309.6	310.4	311.2	310.4
7.5°	307.0	307.9	308.7	309.6	308.7
10°	304.5	305.3	306.2	307.0	306.2
12.5°	301.1	301.9	302.8	302.8	302.8
15°	296.9	297.7	298.6	299.4	298.6
17.5°	292.6	293.5	294.3	294.3	294.3
20°	287.6	288.4	289.3	289.3	289.3
22.5°	281.6	282.5	283.3	283.3	283.3
25°	275.7	275.7	276.6	276.6	276.6
27.5°	269.0	269.0	269.0	269.8	269.8
30°	262.2	262.2	262.2	262.2	263.0
32.5°	254.6	254.6	253.7	254.6	254.6
35°	245.3	245.3	245.3	245.3	246.1
37.5°	237.7	236.0	236.8	236.8	236.8
40°	227.5	227.5	226.7	227.5	227.5
42.5°	217.4	217.4	217.4	217.4	217.4
45°	207.2	206.4	206.4	207.2	206.4
47.5°	197.1	196.2	196.2	196.2	196.2
50°	186.9	185.2	185.2	185.2	185.2
52.5°	175.1	173.4	173.4	173.4	174.2
55°	163.2	161.5	161.5	161.5	162.4
57.5°	150.5	149.7	148.9	149.7	149.7
60°	137.9	137.0	137.0	137.0	137.0
62.5°	125.2	124.3	123.5	123.5	124.3
65°	111.6	110.8	110.8	110.8	110.8
67.5°	98.1	97.3	97.3	97.3	97.3
70°	84.6	83.7	83.7	84.6	83.7
72.5°	71.0	70.2	70.2	70.2	70.2
75°	57.5	57.5	56.7	56.7	56.7
77.5°	44.0	44.0	44.0	44.0	44.0
80°	32.1	31.3	31.3	31.3	31.3
82.5°	19.5	19.5	20.3	20.3	20.3
85°	10.1	11.0	11.0	11.8	11.8
87.5°	3.4	4.2	5.1	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)