

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: P412127

Luminaire Tested: **MRI-4ASR-2-500-L950-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412127  
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-L950-OPL  
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS  
Light Source: (196) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

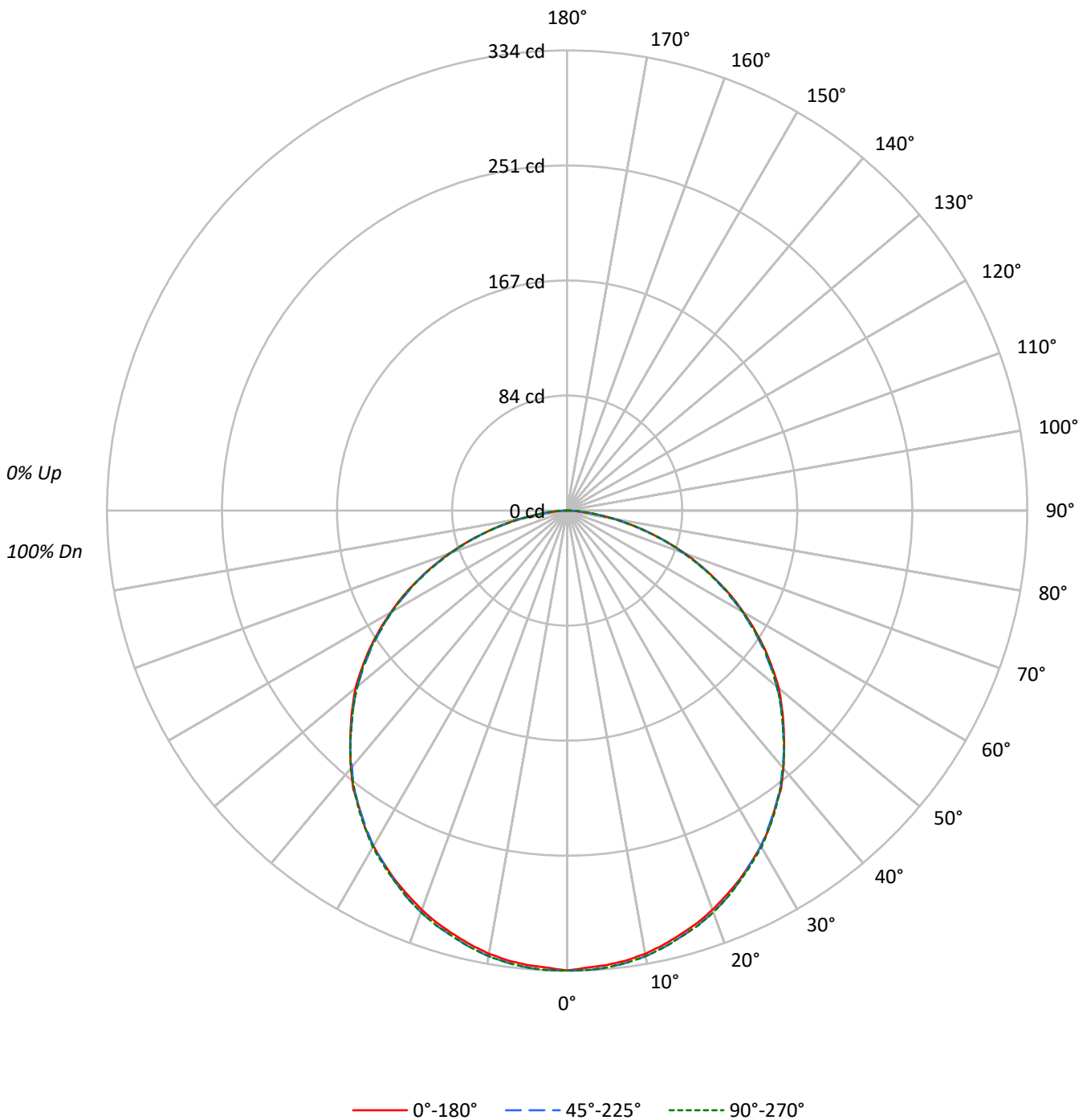
Lumens per Lamp: N/A  
Luminaire Lumens: 947.0 lumens  
Efficiency: N/A  
Efficacy: 52.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.1  
Input Voltage (V): NR  
Input Current (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



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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°	5389	5389	5389
5°	5366	5395	5395
10°	5355	5384	5384
15°	5322	5352	5352
20°	5299	5330	5330
25°	5268	5284	5284
30°	5243	5243	5259
35°	5186	5186	5204
40°	5143	5124	5143
45°	5074	5053	5053
50°	5036	4991	4991
55°	4929	4878	4904
60°	4776	4744	4744
65°	4573	4539	4539
70°	4282	4239	4239
75°	3849	3793	3793
80°	3208	3124	3124
85°	2019	2186	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	3.3
10°-20°	90.3	9.5
20°-30°	136.6	14.4
30°-40°	164.8	17.4
40°-50°	171.2	18.1
50°-60°	155.1	16.4
60°-70°	117.5	12.4
70°-80°	64.8	6.8
80°-90°	15.1	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°	258.6	27.3
0°-40°	423.4	44.7
0°-60°	749.7	79.2
0°-90°	947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	331	332	333	334	333	31
15°	318	319	320	321	320	90
25°	296	296	297	297	297	136
35°	263	263	263	263	264	165
45°	222	221	221	222	221	172
55°	175	173	173	173	174	156
65°	120	119	119	119	119	118
75°	62	62	61	61	61	65
85°	11	12	12	13	13	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	333.8	333.8	333.8	333.8	333.8
2.5°	332.0	332.9	333.8	334.7	333.8
5°	331.1	332.0	332.9	333.8	332.9
7.5°	329.3	330.2	331.1	332.0	331.1
10°	326.6	327.5	328.4	329.3	328.4
12.5°	322.9	323.8	324.7	324.7	324.7
15°	318.4	319.3	320.2	321.1	320.2
17.5°	313.9	314.8	315.7	315.7	315.7
20°	308.4	309.3	310.2	310.2	310.2
22.5°	302.1	303.0	303.9	303.9	303.9
25°	295.7	295.7	296.6	296.6	296.6
27.5°	288.5	288.5	288.5	289.4	289.4
30°	281.2	281.2	281.2	281.2	282.1
32.5°	273.0	273.0	272.1	273.0	273.0
35°	263.1	263.1	263.1	263.1	264.0
37.5°	254.9	253.1	254.0	254.0	254.0
40°	244.0	244.0	243.1	244.0	244.0
42.5°	233.1	233.1	233.1	233.1	233.1
45°	222.2	221.3	221.3	222.2	221.3
47.5°	211.4	210.4	210.4	210.4	210.4
50°	200.5	198.7	198.7	198.7	198.7
52.5°	187.8	186.0	186.0	186.0	186.9
55°	175.1	173.3	173.3	173.3	174.2
57.5°	161.5	160.6	159.6	160.6	160.6
60°	147.9	146.9	146.9	146.9	146.9
62.5°	134.2	133.3	132.4	132.4	133.3
65°	119.7	118.8	118.8	118.8	118.8
67.5°	105.2	104.3	104.3	104.3	104.3
70°	90.7	89.8	89.8	90.7	89.8
72.5°	76.2	75.3	75.3	75.3	75.3
75°	61.7	61.7	60.8	60.8	60.8
77.5°	47.2	47.2	47.2	47.2	47.2
80°	34.5	33.6	33.6	33.6	33.6
82.5°	20.9	20.9	21.8	21.8	21.8
85°	10.9	11.8	11.8	12.7	12.7
87.5°	3.6	4.5	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)