

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: P412271

Luminaire Tested: **MRI-4ASR-8-500-L950-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412271  
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-8-500-L950-OPL  
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS  
Light Source: (672) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

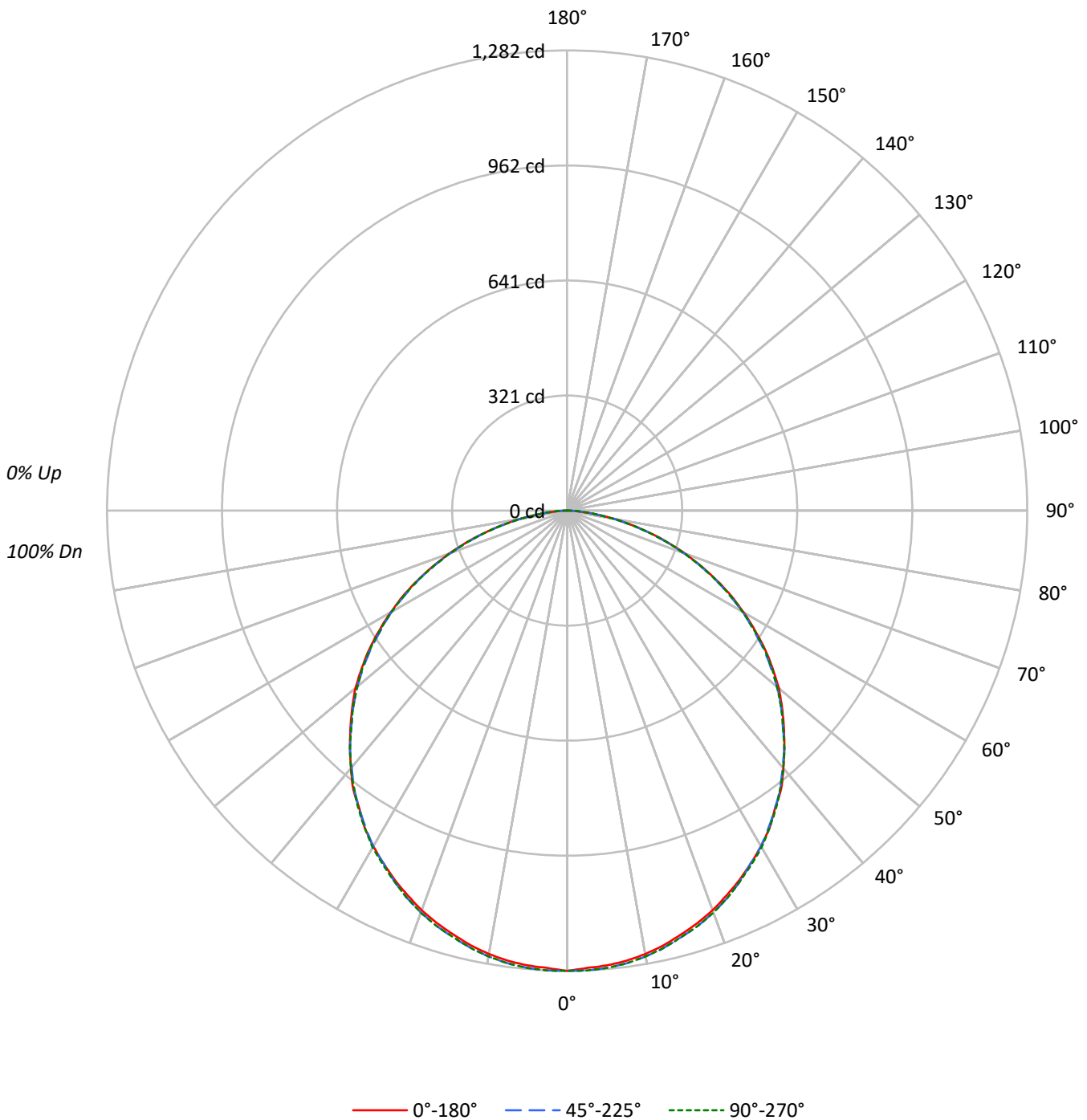
Lumens per Lamp: N/A  
Luminaire Lumens: 3638.0 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.5  
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°	5176	5176	5176
5°	5154	5182	5182
10°	5142	5170	5170
15°	5111	5140	5140
20°	5089	5119	5119
25°	5059	5075	5075
30°	5035	5035	5051
35°	4980	4980	4997
40°	4939	4921	4939
45°	4873	4854	4854
50°	4836	4792	4792
55°	4733	4684	4709
60°	4585	4557	4557
65°	4394	4360	4360
70°	4113	4072	4072
75°	3696	3642	3642
80°	3078	2996	2996
85°	1936	2098	2260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	3.3
10°-20°	347.0	9.5
20°-30°	524.8	14.4
30°-40°	633.2	17.4
40°-50°	657.7	18.1
50°-60°	595.7	16.4
60°-70°	451.4	12.4
70°-80°	248.7	6.8
80°-90°	58.1	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°	993.3	27.3
0°-40°	1626.5	44.7
0°-60°	2879.8	79.2
0°-90°	3638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1272	1275	1279	1282	1279	121
15°	1223	1227	1230	1234	1230	345
25°	1136	1136	1140	1140	1140	524
35°	1011	1011	1011	1011	1014	634
45°	854	850	850	854	850	659
55°	672	666	666	666	669	600
65°	460	456	456	456	456	455
75°	237	237	234	234	234	251
85°	42	45	45	49	49	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.4	1282.4	1282.4	1282.4	1282.4
2.5°	1275.4	1278.9	1282.4	1285.8	1282.4
5°	1271.9	1275.4	1278.9	1282.4	1278.9
7.5°	1264.9	1268.4	1271.9	1275.4	1271.9
10°	1254.5	1258.0	1261.4	1264.9	1261.4
12.5°	1240.5	1244.0	1247.5	1247.5	1247.5
15°	1223.1	1226.6	1230.1	1233.6	1230.1
17.5°	1205.7	1209.2	1212.7	1212.7	1212.7
20°	1184.8	1188.3	1191.8	1191.8	1191.8
22.5°	1160.4	1163.9	1167.4	1167.4	1167.4
25°	1136.0	1136.0	1139.5	1139.5	1139.5
27.5°	1108.1	1108.1	1108.1	1111.6	1111.6
30°	1080.2	1080.2	1080.2	1080.2	1083.7
32.5°	1048.9	1048.9	1045.4	1048.9	1048.9
35°	1010.6	1010.6	1010.6	1010.6	1014.0
37.5°	979.2	972.2	975.7	975.7	975.7
40°	937.4	937.4	933.9	937.4	937.4
42.5°	895.6	895.6	895.6	895.6	895.6
45°	853.7	850.3	850.3	853.7	850.3
47.5°	811.9	808.4	808.4	808.4	808.4
50°	770.1	763.1	763.1	763.1	763.1
52.5°	721.3	714.4	714.4	714.4	717.8
55°	672.5	665.6	665.6	665.6	669.1
57.5°	620.3	616.8	613.3	616.8	616.8
60°	568.0	564.5	564.5	564.5	564.5
62.5°	515.7	512.2	508.8	508.8	512.2
65°	460.0	456.5	456.5	456.5	456.5
67.5°	404.2	400.7	400.7	400.7	400.7
70°	348.5	345.0	345.0	348.5	345.0
72.5°	292.7	289.2	289.2	289.2	289.2
75°	237.0	237.0	233.5	233.5	233.5
77.5°	181.2	181.2	181.2	181.2	181.2
80°	132.4	128.9	128.9	128.9	128.9
82.5°	80.1	80.1	83.6	83.6	83.6
85°	41.8	45.3	45.3	48.8	48.8
87.5°	13.9	17.4	20.9	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)