

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: P412247

Luminaire Tested: **MRI-4ASR-8-1000-L950-OPL**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412247  
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-8-1000-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: 5436.0 lumens  
Efficiency: N/A  
Efficacy: 55.8 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

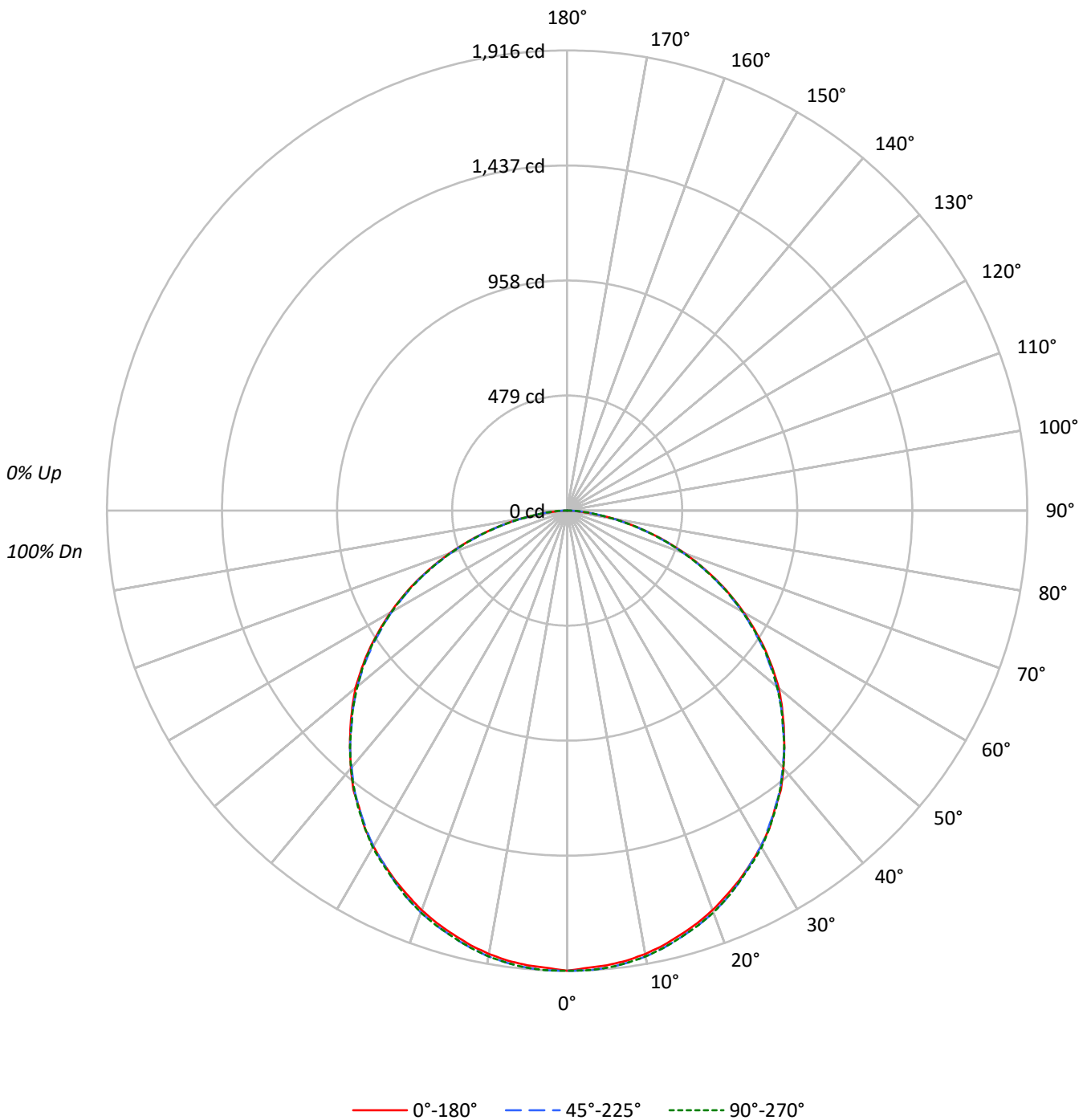
Input Watts (W): 97.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7734	7734	7734
5°	7701	7743	7743
10°	7683	7726	7726
15°	7637	7681	7681
20°	7604	7649	7649
25°	7560	7583	7583
30°	7523	7523	7547
35°	7441	7441	7466
40°	7380	7353	7380
45°	7282	7253	7253
50°	7226	7161	7161
55°	7072	6999	7035
60°	6852	6810	6810
65°	6564	6515	6515
70°	6145	6084	6084
75°	5522	5441	5441
80°	4600	4479	4479
85°	2895	3135	3376



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.4	3.3
10°-20°	518.5	9.5
20°-30°	784.2	14.4
30°-40°	946.1	17.4
40°-50°	982.7	18.1
50°-60°	890.0	16.4
60°-70°	674.5	12.4
70°-80°	371.6	6.8
80°-90°	86.8	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°	1484.2	27.3
0°-40°	2430.3	44.7
0°-60°	4303.1	79.2
0°-90°	5436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1900	1906	1911	1916	1911	181
15°	1828	1833	1838	1843	1838	516
25°	1697	1697	1703	1703	1703	782
35°	1510	1510	1510	1510	1515	947
45°	1276	1270	1270	1276	1270	985
55°	1005	994	994	994	1000	897
65°	687	682	682	682	682	679
75°	354	354	349	349	349	375
85°	62	68	68	73	73	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1905.7	1910.9	1916.1	1921.3	1916.1
5°	1900.5	1905.7	1910.9	1916.1	1910.9
7.5°	1890.1	1895.3	1900.5	1905.7	1900.5
10°	1874.5	1879.7	1884.9	1890.1	1884.9
12.5°	1853.6	1858.9	1864.1	1864.1	1864.1
15°	1827.6	1832.8	1838.0	1843.2	1838.0
17.5°	1801.6	1806.8	1812.0	1812.0	1812.0
20°	1770.3	1775.5	1780.8	1780.8	1780.8
22.5°	1733.9	1739.1	1744.3	1744.3	1744.3
25°	1697.4	1697.4	1702.6	1702.6	1702.6
27.5°	1655.8	1655.8	1655.8	1661.0	1661.0
30°	1614.1	1614.1	1614.1	1614.1	1619.3
32.5°	1567.3	1567.3	1562.1	1567.3	1567.3
35°	1510.0	1510.0	1510.0	1510.0	1515.2
37.5°	1463.1	1452.7	1457.9	1457.9	1457.9
40°	1400.6	1400.6	1395.4	1400.6	1400.6
42.5°	1338.2	1338.2	1338.2	1338.2	1338.2
45°	1275.7	1270.5	1270.5	1275.7	1270.5
47.5°	1213.2	1208.0	1208.0	1208.0	1208.0
50°	1150.7	1140.3	1140.3	1140.3	1140.3
52.5°	1077.8	1067.4	1067.4	1067.4	1072.6
55°	1004.9	994.5	994.5	994.5	999.7
57.5°	926.8	921.6	916.4	921.6	921.6
60°	848.7	843.5	843.5	843.5	843.5
62.5°	770.6	765.4	760.2	760.2	765.4
65°	687.3	682.1	682.1	682.1	682.1
67.5°	604.0	598.8	598.8	598.8	598.8
70°	520.7	515.5	515.5	520.7	515.5
72.5°	437.4	432.2	432.2	432.2	432.2
75°	354.1	354.1	348.9	348.9	348.9
77.5°	270.8	270.8	270.8	270.8	270.8
80°	197.9	192.7	192.7	192.7	192.7
82.5°	119.8	119.8	125.0	125.0	125.0
85°	62.5	67.7	67.7	72.9	72.9
87.5°	20.8	26.0	31.2	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)