

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: P412258

Luminaire Tested: **MRI-4ASR-8-250-L950-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-4ASR-8-250-L950-HEO  
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (672) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3583.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')  
CIE Type: Direct

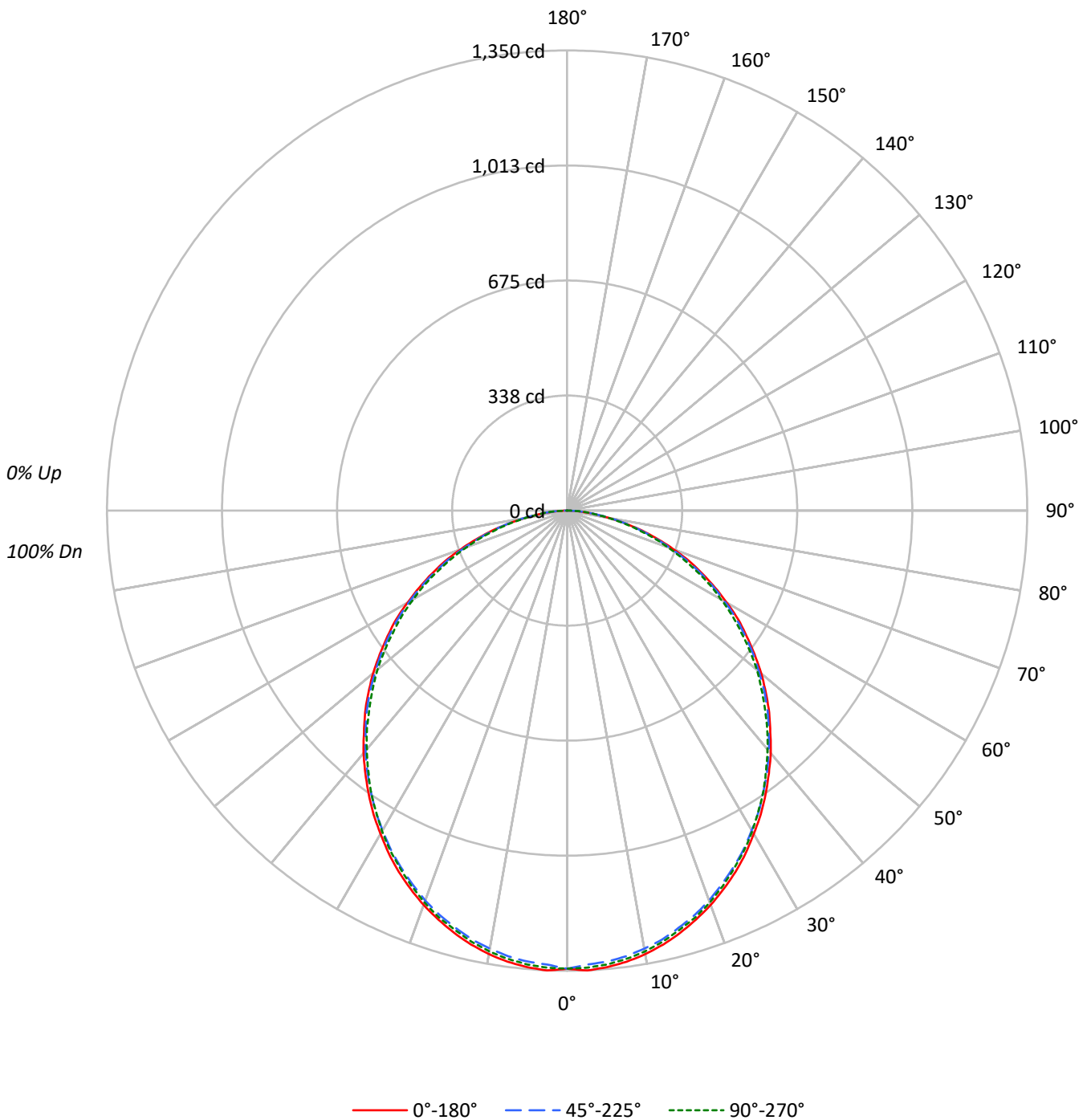
Input Watts (W): 29.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	5425	5425	5425
5°	5448	5382	5417
10°	5416	5349	5382
15°	5359	5294	5321
20°	5290	5230	5255
25°	5208	5141	5160
30°	5102	5047	5061
35°	5003	4949	4949
40°	4897	4850	4819
45°	4785	4747	4681
50°	4666	4612	4566
55°	4526	4476	4389
60°	4369	4310	4208
65°	4185	4107	3982
70°	3918	3812	3711
75°	3565	3481	3347
80°	2920	2973	2848
85°	2103	2376	2543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	3.5
10°-20°	359.6	10.0
20°-30°	534.7	14.9
30°-40°	630.5	17.6
40°-50°	640.6	17.9
50°-60°	568.5	15.9
60°-70°	425.3	11.9
70°-80°	235.6	6.6
80°-90°	61.3	1.7
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°	1021.2	28.5
0°-40°	1651.7	46.1
0°-60°	2860.8	79.8
0°-90°	3583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1344	1341	1328	1338	1337	128
15°	1282	1280	1267	1276	1273	362
25°	1169	1165	1154	1160	1158	538
35°	1015	1013	1004	1006	1004	635
45°	838	838	832	825	820	646
55°	643	646	636	628	624	576
65°	438	441	430	423	417	433
75°	229	226	223	217	215	240
85°	45	52	51	53	55	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1350.4	1346.3	1333.2	1344.0	1342.2
5°	1344.5	1340.9	1328.2	1338.1	1336.8
7.5°	1335.0	1330.9	1319.1	1329.1	1326.8
10°	1321.4	1317.3	1305.0	1315.5	1313.2
12.5°	1303.7	1300.0	1288.7	1297.3	1295.5
15°	1282.4	1280.1	1266.9	1276.5	1273.3
17.5°	1257.9	1255.6	1243.8	1252.9	1251.1
20°	1231.5	1227.5	1217.5	1223.8	1223.4
22.5°	1201.2	1197.5	1186.2	1193.9	1192.5
25°	1169.4	1164.9	1154.4	1160.3	1158.5
27.5°	1134.0	1129.5	1120.9	1125.4	1124.5
30°	1094.6	1093.2	1082.8	1086.8	1085.9
32.5°	1057.4	1053.7	1046.5	1046.0	1044.7
35°	1015.2	1013.4	1004.3	1005.7	1004.3
37.5°	972.1	971.2	963.5	961.7	958.9
40°	929.4	926.7	920.4	916.7	914.5
42.5°	882.3	883.6	875.0	870.9	869.1
45°	838.3	838.3	831.5	824.7	820.1
47.5°	791.1	791.5	784.3	775.7	772.9
50°	743.0	743.9	734.4	727.1	727.1
52.5°	692.7	695.4	686.3	678.6	675.4
55°	643.2	645.9	636.0	627.8	623.7
57.5°	595.6	595.1	587.0	576.1	575.2
60°	541.2	544.3	533.9	525.7	521.2
62.5°	489.4	493.5	482.2	474.5	471.8
65°	438.2	440.9	430.0	422.8	416.9
67.5°	387.8	386.9	376.9	368.8	365.6
70°	332.0	333.9	323.0	317.1	314.4
72.5°	279.9	281.7	272.2	268.1	263.5
75°	228.6	226.4	223.2	216.8	214.6
77.5°	174.2	176.5	175.5	168.7	167.8
80°	125.6	130.6	127.9	122.9	122.5
82.5°	83.5	88.5	87.1	85.7	84.4
85°	45.4	51.7	51.3	53.1	54.9
87.5°	17.2	22.2	26.3	25.9	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)