

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: P412254

Luminaire Tested: **MRI-4ASR-8-250-L935-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412254  
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-L935-HEO  
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (672) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3341.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

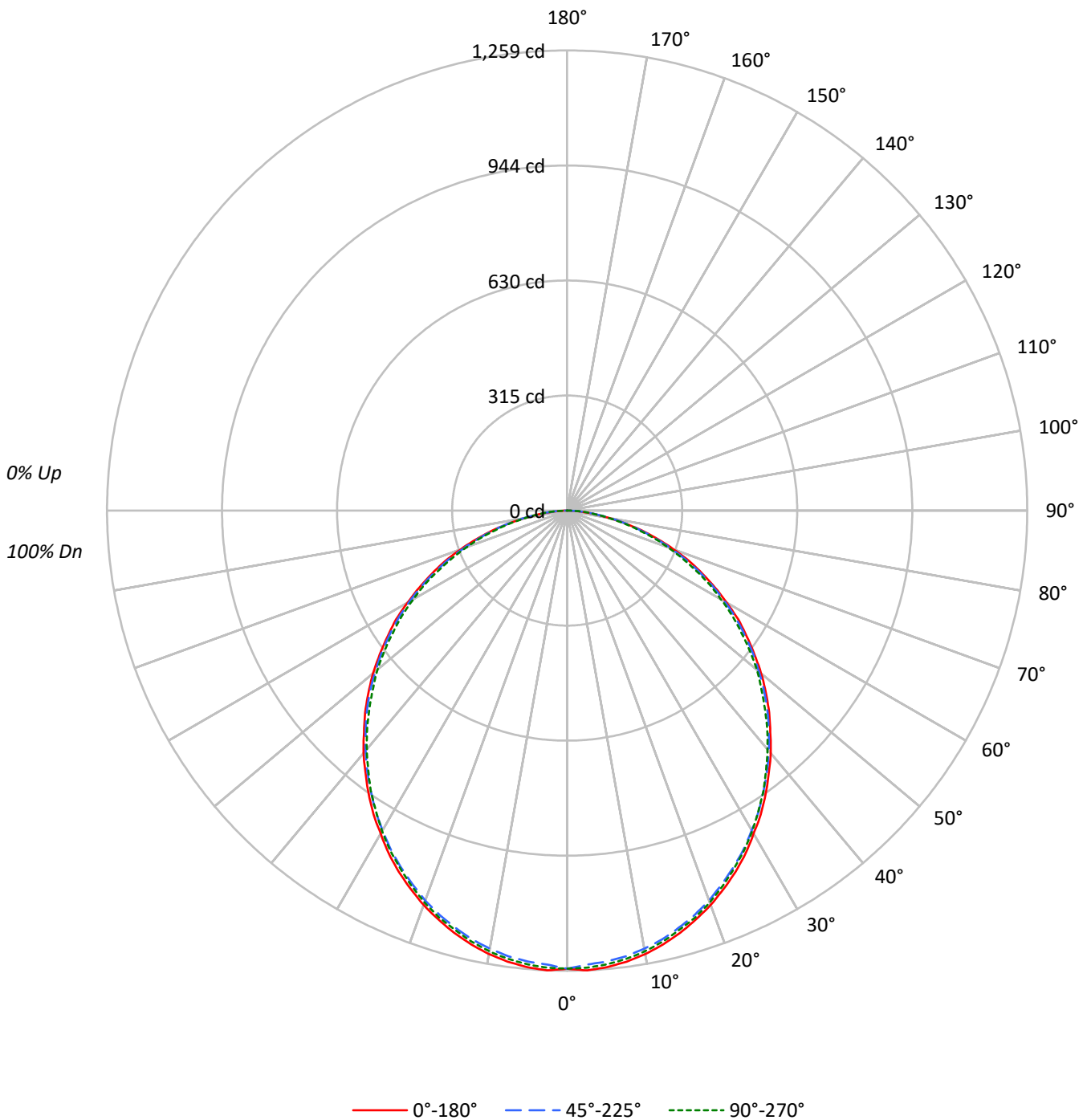
Input Watts (W): 29.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5059	5059	5059
5°	5080	5018	5051
10°	5050	4988	5019
15°	4997	4937	4962
20°	4933	4877	4900
25°	4856	4794	4811
30°	4757	4706	4720
35°	4664	4615	4615
40°	4567	4522	4493
45°	4462	4426	4365
50°	4351	4300	4258
55°	4221	4173	4093
60°	4074	4019	3923
65°	3903	3830	3713
70°	3654	3555	3459
75°	3325	3245	3121
80°	2724	2773	2655
85°	1959	2214	2371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	3.5
10°-20°	335.3	10.0
20°-30°	498.6	14.9
30°-40°	587.9	17.6
40°-50°	597.3	17.9
50°-60°	530.1	15.9
60°-70°	396.6	11.9
70°-80°	219.7	6.6
80°-90°	57.1	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°	952.2	28.5
0°-40°	1540.2	46.1
0°-60°	2667.6	79.8
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1254	1250	1238	1248	1246	119
15°	1196	1194	1181	1190	1187	337
25°	1090	1086	1076	1082	1080	502
35°	947	945	936	938	936	592
45°	782	782	775	769	765	603
55°	600	602	593	585	582	537
65°	409	411	401	394	389	404
75°	213	211	208	202	200	224
85°	42	48	48	50	51	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1253.3	1253.3	1253.3	1253.3	1253.3
2.5°	1259.2	1255.4	1243.1	1253.3	1251.6
5°	1253.7	1250.3	1238.5	1247.8	1246.5
7.5°	1244.8	1241.0	1230.0	1239.3	1237.2
10°	1232.1	1228.3	1216.9	1226.6	1224.5
12.5°	1215.6	1212.2	1201.7	1209.7	1208.0
15°	1195.7	1193.6	1181.4	1190.2	1187.3
17.5°	1172.9	1170.8	1159.8	1168.2	1166.6
20°	1148.4	1144.6	1135.3	1141.2	1140.8
22.5°	1120.0	1116.6	1106.1	1113.3	1112.0
25°	1090.4	1086.2	1076.5	1082.0	1080.3
27.5°	1057.4	1053.2	1045.2	1049.4	1048.5
30°	1020.6	1019.4	1009.6	1013.4	1012.6
32.5°	985.9	982.6	975.8	975.4	974.1
35°	946.6	944.9	936.5	937.7	936.5
37.5°	906.4	905.6	898.4	896.7	894.2
40°	866.7	864.1	858.2	854.8	852.7
42.5°	822.7	823.9	815.9	812.1	810.4
45°	781.7	781.7	775.3	769.0	764.7
47.5°	737.7	738.1	731.3	723.3	720.7
50°	692.8	693.7	684.8	678.0	678.0
52.5°	645.9	648.4	640.0	632.8	629.8
55°	599.8	602.3	593.0	585.4	581.6
57.5°	555.4	554.9	547.3	537.2	536.3
60°	504.6	507.6	497.8	490.2	486.0
62.5°	456.4	460.2	449.6	442.4	439.9
65°	408.6	411.1	401.0	394.2	388.7
67.5°	361.6	360.8	351.5	343.9	340.9
70°	309.6	311.3	301.2	295.7	293.1
72.5°	261.0	262.7	253.8	250.0	245.7
75°	213.2	211.1	208.1	202.2	200.1
77.5°	162.4	164.5	163.7	157.3	156.5
80°	117.2	121.8	119.3	114.6	114.2
82.5°	77.8	82.5	81.2	79.9	78.7
85°	42.3	48.2	47.8	49.5	51.2
87.5°	16.1	20.7	24.5	24.1	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)