

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: P412078

Luminaire Tested: **MRI-2ASR-2-250-L950-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-2ASR-2-250-L950-HEO  
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (98) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1214.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32  
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')  
CIE Type: Direct

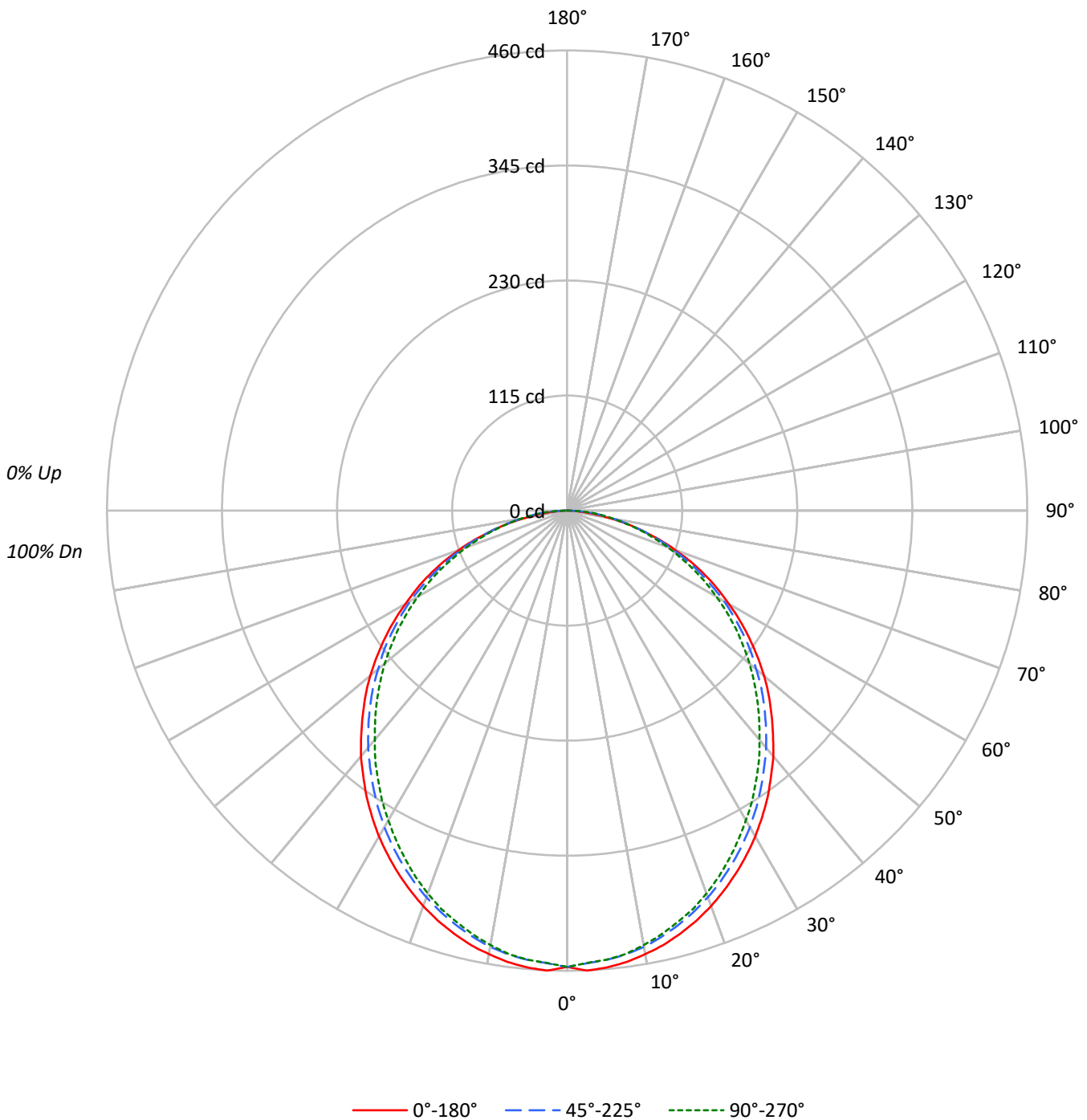
Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84					84			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	14731	14731	14731
5°	14859	14616	14606
10°	14762	14523	14460
15°	14633	14342	14242
20°	14457	14134	13996
25°	14245	13889	13671
30°	14024	13625	13330
35°	13782	13316	12981
40°	13519	13047	12608
45°	13198	12732	12285
50°	12911	12388	11961
55°	12521	12076	11581
60°	12064	11690	11121
65°	11599	11171	10674
70°	10839	10518	10055
75°	9694	9707	9370
80°	7978	8722	8647
85°	5372	8299	8596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	3.5
10°-20°	121.6	10.0
20°-30°	180.3	14.9
30°-40°	212.0	17.5
40°-50°	215.4	17.7
50°-60°	191.6	15.8
60°-70°	144.5	11.9
70°-80°	82.1	6.8
80°-90°	23.5	1.9
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°	344.9	28.4
0°-40°	557.0	45.9
0°-60°	963.9	79.4
0°-90°	1214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	458	455	451	454	451	43
15°	438	434	429	431	426	123
25°	400	396	390	388	384	184
35°	350	345	338	334	329	218
45°	289	286	279	273	269	223
55°	222	220	214	208	206	199
65°	152	151	146	142	140	150
75°	78	79	78	76	75	83
85°	14	20	22	22	23	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	456.2	456.2	456.2	456.2	456.2
2.5°	460.3	457.1	452.9	456.4	452.6
5°	458.4	455.2	450.9	454.2	450.6
7.5°	455.1	451.9	447.6	450.6	447.2
10°	450.2	447.3	442.9	445.3	441.0
12.5°	444.9	441.1	436.4	438.5	434.2
15°	437.7	434.2	429.0	430.6	426.0
17.5°	429.8	425.7	420.7	421.6	417.7
20°	420.7	416.7	411.3	411.6	407.3
22.5°	410.6	406.9	401.1	400.1	396.1
25°	399.8	395.7	389.8	388.3	383.7
27.5°	388.2	384.3	378.0	375.7	370.8
30°	376.1	371.5	365.4	362.0	357.5
32.5°	362.9	358.7	351.9	347.6	344.2
35°	349.6	344.9	337.8	333.5	329.3
37.5°	334.7	330.2	323.6	319.3	315.1
40°	320.7	315.8	309.5	304.2	299.1
42.5°	304.6	301.1	294.2	288.9	284.0
45°	289.0	285.5	278.8	273.2	269.0
47.5°	273.4	269.8	263.4	257.4	253.4
50°	257.0	253.1	246.6	241.3	238.1
52.5°	239.8	237.1	231.4	225.3	221.7
55°	222.4	220.1	214.5	208.5	205.7
57.5°	204.9	203.0	197.8	192.1	189.3
60°	186.8	185.9	181.0	175.5	172.2
62.5°	169.6	168.3	163.3	159.3	156.2
65°	151.8	150.8	146.2	141.6	139.7
67.5°	133.8	132.7	128.3	125.2	122.3
70°	114.8	114.8	111.4	108.3	106.5
72.5°	96.8	97.0	94.7	91.5	90.6
75°	77.7	78.8	77.8	75.7	75.1
77.5°	60.7	61.7	61.9	61.1	60.1
80°	42.9	45.8	46.9	46.8	46.5
82.5°	27.5	32.1	34.2	34.1	34.4
85°	14.5	20.0	22.4	22.4	23.2
87.5°	5.0	10.2	10.9	10.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)