

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: P412114

Luminaire Tested: **MRI-4ASR-2-250-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412114
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-2-250-L950-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 841.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

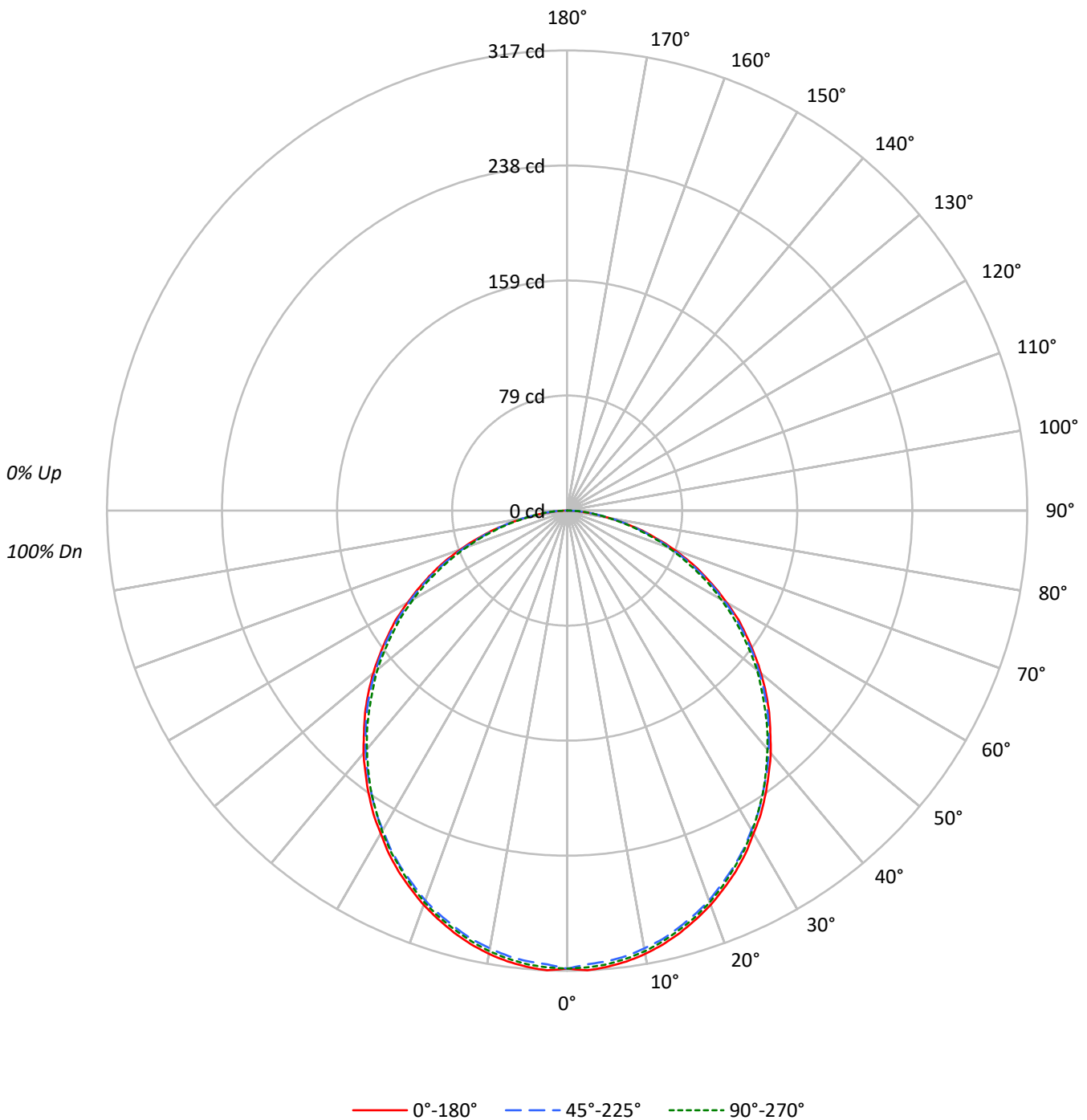
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5094	5094	5094
5°	5115	5052	5086
10°	5084	5022	5053
15°	5031	4971	4996
20°	4967	4911	4935
25°	4890	4828	4844
30°	4790	4737	4752
35°	4697	4646	4646
40°	4599	4553	4523
45°	4494	4457	4395
50°	4381	4330	4288
55°	4251	4203	4121
60°	4101	4046	3949
65°	3931	3855	3736
70°	3677	3578	3484
75°	3350	3269	3144
80°	2743	2789	2669
85°	1964	2223	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	3.5
10°-20°	84.4	10.0
20°-30°	125.5	14.9
30°-40°	148.0	17.6
40°-50°	150.4	17.9
50°-60°	133.4	15.9
60°-70°	99.8	11.9
70°-80°	55.3	6.6
80°-90°	14.4	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°	239.7	28.5
0°-40°	387.7	46.1
0°-60°	671.5	79.8
0°-90°	841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	316	315	312	314	314	30
15°	301	300	297	300	299	85
25°	274	273	271	272	272	126
35°	238	238	236	236	236	149
45°	197	197	195	194	192	152
55°	151	152	149	147	146	135
65°	103	104	101	99	98	102
75°	54	53	52	51	50	56
85°	11	12	12	12	13	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	315.5	315.5	315.5	315.5	315.5
2.5°	317.0	316.0	312.9	315.5	315.0
5°	315.6	314.7	311.7	314.1	313.8
7.5°	313.3	312.4	309.6	312.0	311.4
10°	310.1	309.2	306.3	308.8	308.2
12.5°	306.0	305.1	302.5	304.5	304.1
15°	301.0	300.5	297.4	299.6	298.9
17.5°	295.2	294.7	291.9	294.1	293.6
20°	289.1	288.1	285.8	287.3	287.2
22.5°	281.9	281.1	278.4	280.2	279.9
25°	274.5	273.4	271.0	272.4	271.9
27.5°	266.2	265.1	263.1	264.2	263.9
30°	256.9	256.6	254.1	255.1	254.9
32.5°	248.2	247.3	245.6	245.5	245.2
35°	238.3	237.9	235.7	236.0	235.7
37.5°	228.2	228.0	226.1	225.7	225.1
40°	218.2	217.5	216.0	215.2	214.6
42.5°	207.1	207.4	205.4	204.4	204.0
45°	196.8	196.8	195.2	193.6	192.5
47.5°	185.7	185.8	184.1	182.1	181.4
50°	174.4	174.6	172.4	170.7	170.7
52.5°	162.6	163.2	161.1	159.3	158.5
55°	151.0	151.6	149.3	147.4	146.4
57.5°	139.8	139.7	137.8	135.2	135.0
60°	127.0	127.8	125.3	123.4	122.3
62.5°	114.9	115.8	113.2	111.4	110.7
65°	102.9	103.5	100.9	99.2	97.8
67.5°	91.0	90.8	88.5	86.6	85.8
70°	77.9	78.4	75.8	74.4	73.8
72.5°	65.7	66.1	63.9	62.9	61.9
75°	53.7	53.1	52.4	50.9	50.4
77.5°	40.9	41.4	41.2	39.6	39.4
80°	29.5	30.7	30.0	28.9	28.7
82.5°	19.6	20.8	20.4	20.1	19.8
85°	10.6	12.1	12.0	12.5	12.9
87.5°	4.0	5.2	6.2	6.1	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)