

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: P412142

Luminaire Tested: **MRI-2ASR-4-250-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412142
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-4-250-L840-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1989.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

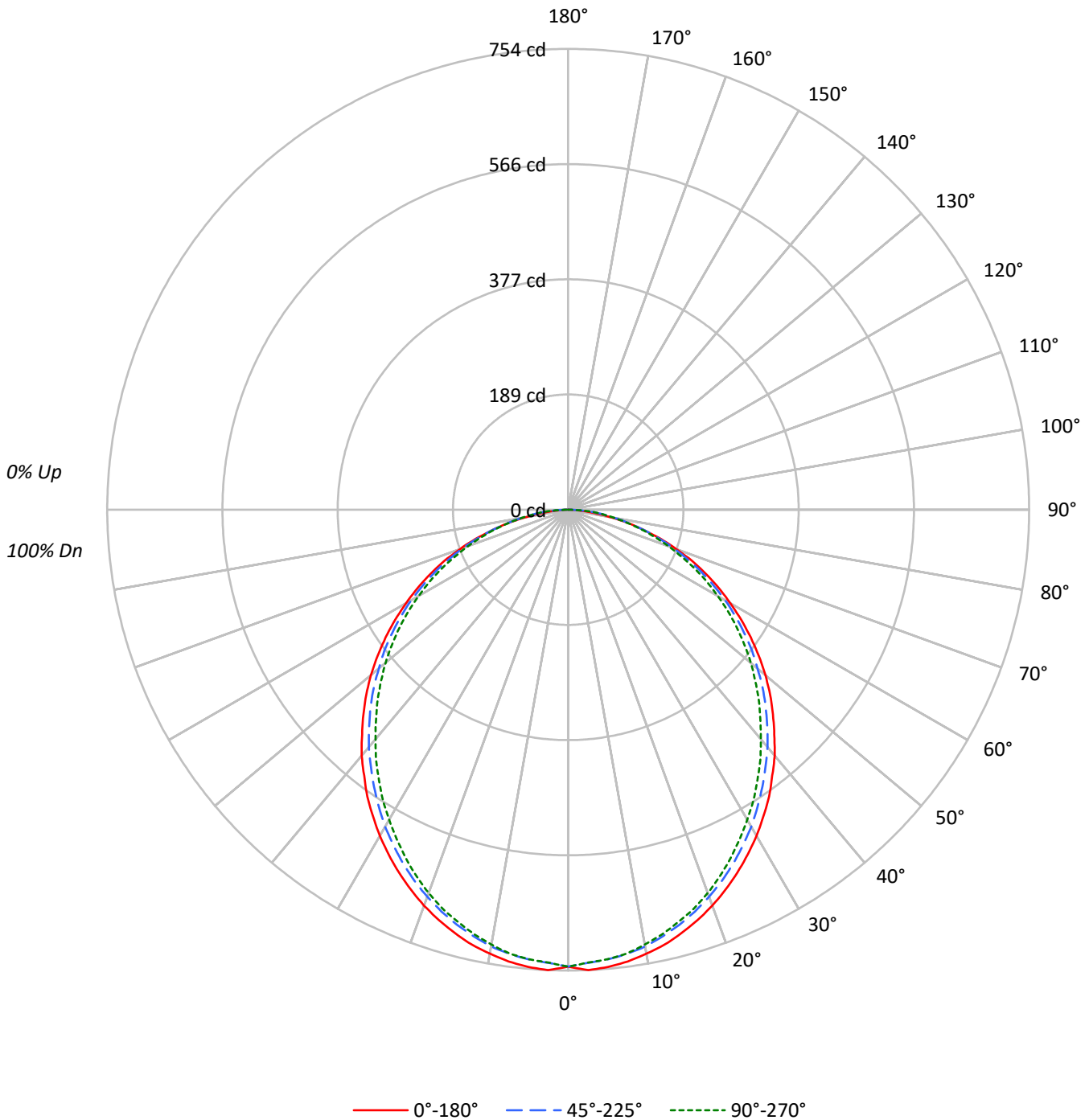
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412142

CATALOG NUMBER: MRI-2ASR-4-250-L840-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412142

CATALOG NUMBER: MRI-2ASR-4-250-L840-HEO

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	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	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°	12069	12069	12069
5°	12172	11974	11966
10°	12093	11896	11845
15°	11987	11749	11667
20°	11844	11579	11466
25°	11671	11377	11200
30°	11488	11162	10921
35°	11290	10910	10636
40°	11074	10686	10330
45°	10814	10430	10065
50°	10575	10148	9799
55°	10258	9895	9489
60°	9881	9574	9113
65°	9501	9150	8745
70°	8880	8615	8233
75°	7941	7954	7673
80°	6527	7141	7076
85°	4409	6817	7040



TEST NUMBER: P412142

CATALOG NUMBER: MRI-2ASR-4-250-L840-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.5
10°-20°	199.3	10.0
20°-30°	295.4	14.9
30°-40°	347.4	17.5
40°-50°	352.8	17.7
50°-60°	313.9	15.8
60°-70°	236.7	11.9
70°-80°	134.5	6.8
80°-90°	38.5	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°	565.2	28.4
0°-40°	912.5	45.9
0°-60°	1579.3	79.4
0°-90°	1989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	751	746	739	744	738	71
15°	717	711	703	706	698	202
25°	655	648	639	636	629	302
35°	573	565	554	546	540	358
45°	474	468	457	448	441	366
55°	364	361	352	342	337	326
65°	249	247	240	232	229	246
75°	127	129	128	124	123	136
85°	24	33	37	37	38	31
90°	0	0	0	0	0	



TEST NUMBER: P412142

CATALOG NUMBER: MRI-2ASR-4-250-L840-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.5	747.5	747.5	747.5	747.5
2.5°	754.1	748.9	742.1	747.7	741.6
5°	751.0	745.8	738.8	744.2	738.3
7.5°	745.6	740.4	733.3	738.3	732.6
10°	737.6	732.9	725.6	729.6	722.5
12.5°	728.9	722.7	715.0	718.5	711.4
15°	717.1	711.4	702.9	705.5	698.0
17.5°	704.1	697.5	689.3	690.7	684.3
20°	689.3	682.7	673.9	674.4	667.3
22.5°	672.8	666.6	657.2	655.6	649.0
25°	655.1	648.2	638.6	636.2	628.7
27.5°	636.0	629.6	619.2	615.5	607.5
30°	616.2	608.6	598.7	593.1	585.8
32.5°	594.5	587.7	576.6	569.5	563.9
35°	572.8	565.0	553.5	546.4	539.6
37.5°	548.3	541.0	530.1	523.1	516.2
40°	525.4	517.4	507.0	498.3	490.1
42.5°	499.0	493.4	482.1	473.3	465.3
45°	473.6	467.7	456.8	447.6	440.8
47.5°	447.9	442.0	431.6	421.7	415.1
50°	421.0	414.6	404.0	395.3	390.1
52.5°	393.0	388.5	379.0	369.1	363.3
55°	364.4	360.7	351.5	341.6	337.1
57.5°	335.7	332.6	324.1	314.7	310.2
60°	306.0	304.6	296.5	287.6	282.2
62.5°	277.9	275.8	267.5	260.9	256.0
65°	248.7	247.0	239.5	232.0	228.9
67.5°	219.2	217.3	210.3	205.1	200.4
70°	188.1	188.1	182.5	177.5	174.4
72.5°	158.6	158.9	155.1	149.9	148.5
75°	127.3	129.2	127.5	124.0	123.0
77.5°	99.5	101.1	101.4	100.2	98.5
80°	70.2	75.0	76.8	76.6	76.1
82.5°	45.0	52.6	56.1	55.9	56.3
85°	23.8	32.8	36.8	36.8	38.0
87.5°	8.3	16.7	17.9	16.5	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)