

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: P412122

Luminaire Tested: **MRI-4ASR-2-500-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412122
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-2-500-L935-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 90.1 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

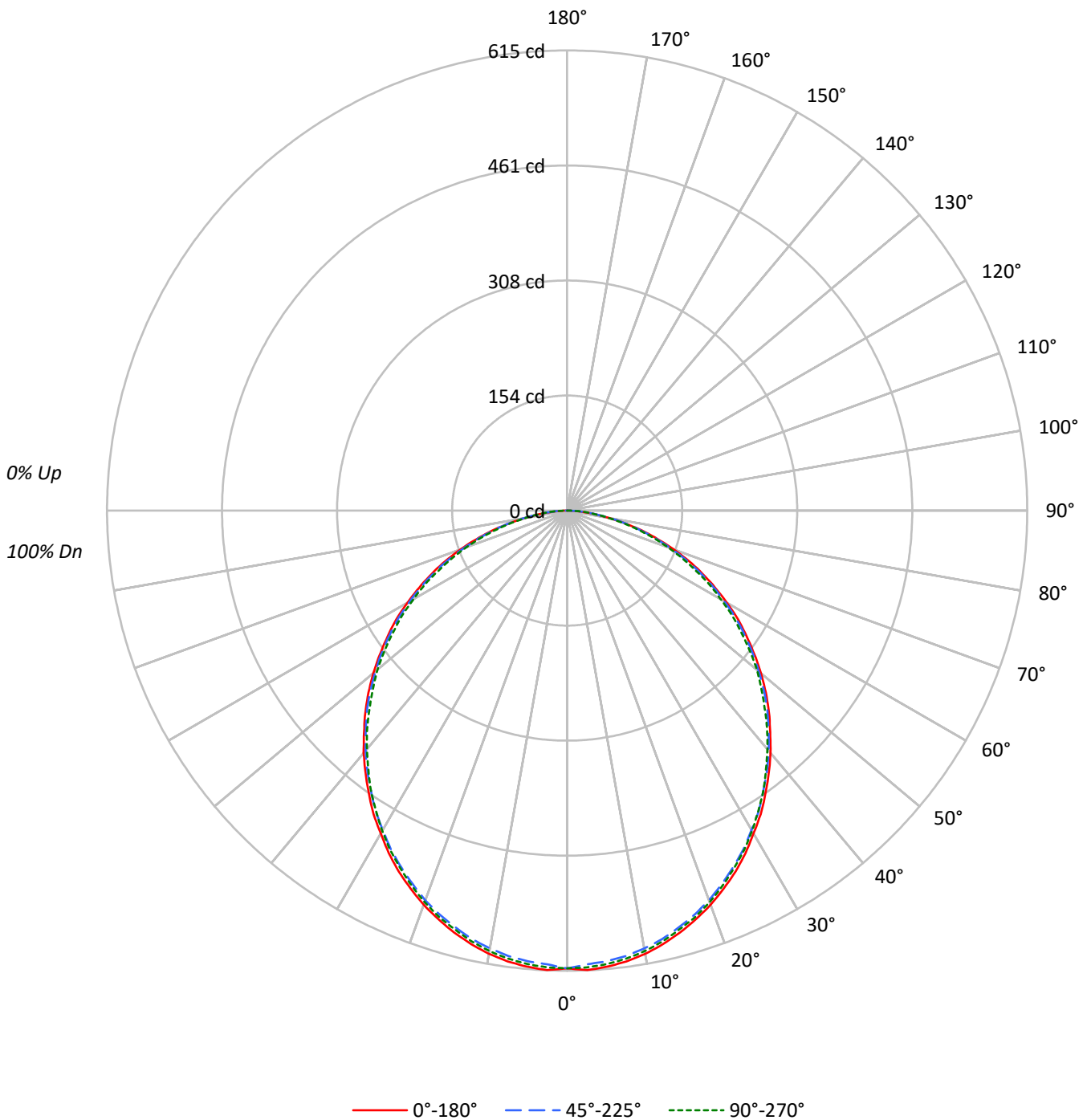
Input Watts (W): 18.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9878	9878	9878
5°	9919	9799	9862
10°	9862	9740	9801
15°	9757	9640	9688
20°	9632	9522	9569
25°	9483	9362	9396
30°	9288	9189	9216
35°	9108	9012	9012
40°	8918	8831	8774
45°	8713	8643	8524
50°	8495	8397	8314
55°	8242	8149	7992
60°	7953	7847	7663
65°	7622	7477	7251
70°	7133	6939	6755
75°	6494	6338	6095
80°	5318	5411	5188
85°	3816	4316	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.5
10°-20°	163.7	10.0
20°-30°	243.4	14.9
30°-40°	287.0	17.6
40°-50°	291.6	17.9
50°-60°	258.8	15.9
60°-70°	193.6	11.9
70°-80°	107.2	6.6
80°-90°	27.9	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°	464.9	28.5
0°-40°	751.9	46.1
0°-60°	1302.3	79.8
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	612	610	605	609	608	58
15°	584	583	577	581	580	165
25°	532	530	526	528	527	245
35°	462	461	457	458	457	289
45°	382	382	378	375	373	294
55°	293	294	290	286	284	262
65°	200	201	196	192	190	197
75°	104	103	102	99	98	109
85°	21	24	23	24	25	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.8	611.8	611.8	611.8	611.8
2.5°	614.7	612.8	606.9	611.8	611.0
5°	612.0	610.4	604.6	609.1	608.5
7.5°	607.7	605.8	600.5	605.0	604.0
10°	601.5	599.6	594.1	598.8	597.8
12.5°	593.4	591.8	586.6	590.5	589.7
15°	583.7	582.7	576.7	581.0	579.6
17.5°	572.6	571.6	566.2	570.3	569.5
20°	560.6	558.7	554.2	557.1	556.9
22.5°	546.8	545.1	540.0	543.5	542.8
25°	532.3	530.3	525.5	528.2	527.4
27.5°	516.2	514.1	510.2	512.3	511.9
30°	498.2	497.6	492.9	494.7	494.3
32.5°	481.3	479.7	476.4	476.2	475.5
35°	462.1	461.3	457.2	457.8	457.2
37.5°	442.5	442.1	438.6	437.7	436.5
40°	423.1	421.8	419.0	417.3	416.3
42.5°	401.6	402.2	398.3	396.5	395.6
45°	381.6	381.6	378.5	375.4	373.3
47.5°	360.1	360.3	357.0	353.1	351.9
50°	338.2	338.6	334.3	331.0	331.0
52.5°	315.3	316.5	312.4	308.9	307.5
55°	292.8	294.0	289.5	285.8	283.9
57.5°	271.1	270.9	267.2	262.2	261.8
60°	246.3	247.8	243.0	239.3	237.3
62.5°	222.8	224.7	219.5	216.0	214.7
65°	199.5	200.7	195.7	192.4	189.8
67.5°	176.5	176.1	171.6	167.9	166.4
70°	151.1	152.0	147.0	144.3	143.1
72.5°	127.4	128.2	123.9	122.0	120.0
75°	104.1	103.0	101.6	98.7	97.7
77.5°	79.3	80.3	79.9	76.8	76.4
80°	57.2	59.5	58.2	56.0	55.8
82.5°	38.0	40.3	39.6	39.0	38.4
85°	20.6	23.5	23.3	24.2	25.0
87.5°	7.8	10.1	12.0	11.8	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)