

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: P412116

Luminaire Tested: **MRI-4ASR-2-500-L835-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412116
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-L835-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1930.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

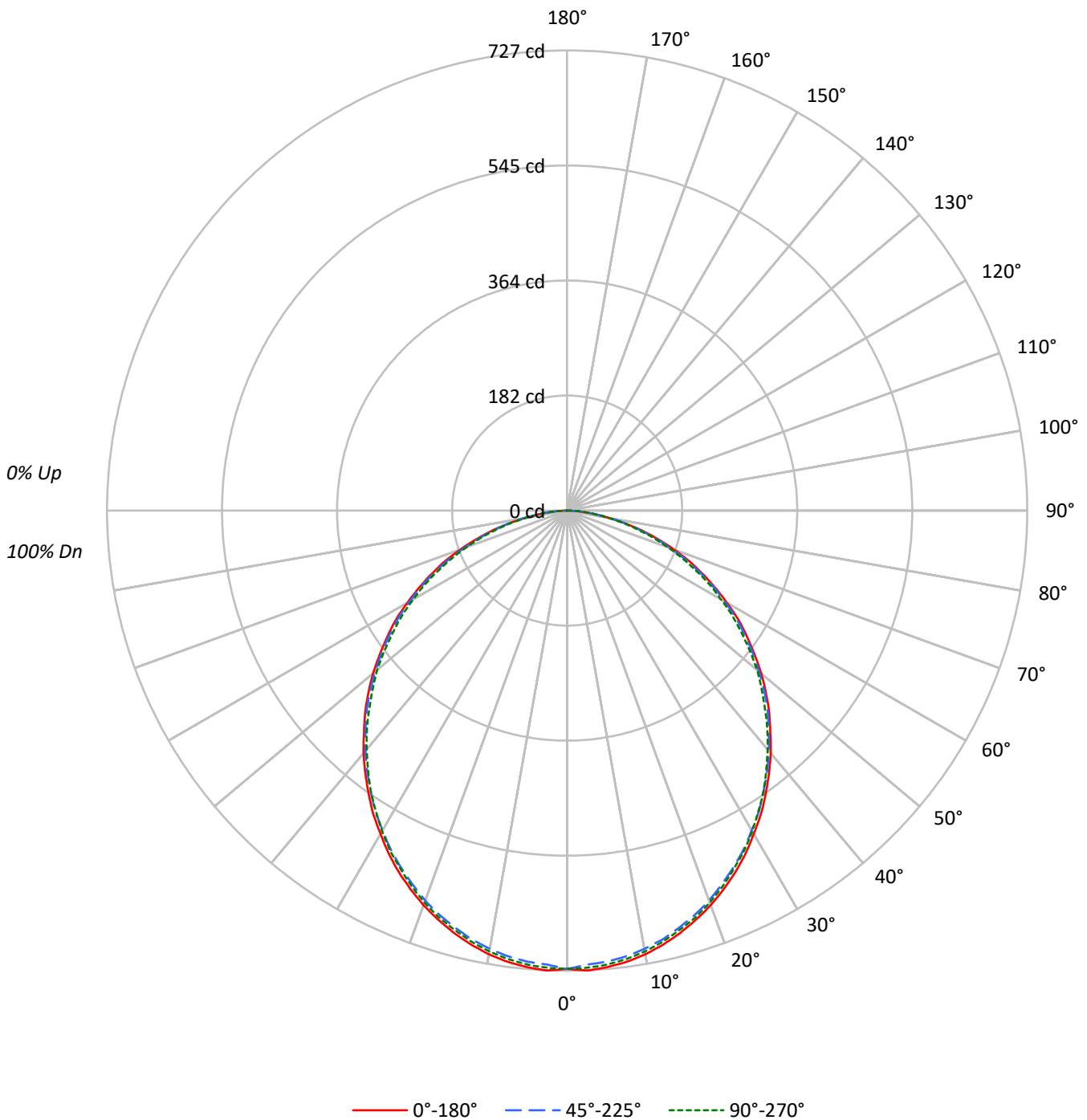
Input Watts (W): 18.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11690	11690	11690
5°	11738	11595	11671
10°	11670	11526	11598
15°	11545	11407	11465
20°	11399	11268	11323
25°	11222	11077	11117
30°	10992	10873	10905
35°	10778	10663	10663
40°	10551	10450	10383
45°	10309	10227	10088
50°	10052	9937	9839
55°	9754	9644	9458
60°	9413	9287	9064
65°	9016	8848	8577
70°	8445	8214	7992
75°	7679	7498	7211
80°	6295	6406	6137
85°	4520	5113	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.5
10°-20°	193.7	10.0
20°-30°	288.0	14.9
30°-40°	339.6	17.6
40°-50°	345.1	17.9
50°-60°	306.2	15.9
60°-70°	229.1	11.9
70°-80°	126.9	6.6
80°-90°	33.0	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°	550.1	28.5
0°-40°	889.7	46.1
0°-60°	1541.0	79.8
0°-90°	1930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	724	722	715	721	720	69
15°	691	690	682	688	686	195
25°	630	628	622	625	624	290
35°	547	546	541	542	541	342
45°	452	452	448	444	442	348
55°	346	348	343	338	336	310
65°	236	238	232	228	224	233
75°	123	122	120	117	116	129
85°	24	28	28	29	30	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.0	724.0	724.0	724.0	724.0
2.5°	727.4	725.2	718.1	724.0	723.0
5°	724.2	722.3	715.4	720.8	720.1
7.5°	719.1	716.9	710.5	715.9	714.7
10°	711.8	709.6	703.0	708.6	707.4
12.5°	702.2	700.3	694.2	698.8	697.8
15°	690.7	689.5	682.4	687.6	685.9
17.5°	677.6	676.3	670.0	674.9	673.9
20°	663.4	661.2	655.8	659.2	659.0
22.5°	647.0	645.1	638.9	643.1	642.4
25°	629.9	627.5	621.8	625.0	624.0
27.5°	610.8	608.4	603.8	606.2	605.7
30°	589.6	588.9	583.2	585.4	584.9
32.5°	569.6	567.6	563.7	563.4	562.7
35°	546.8	545.9	541.0	541.7	541.0
37.5°	523.6	523.1	519.0	518.0	516.5
40°	500.6	499.2	495.8	493.8	492.6
42.5°	475.2	476.0	471.3	469.1	468.2
45°	451.5	451.5	447.9	444.2	441.8
47.5°	426.1	426.4	422.5	417.8	416.4
50°	400.2	400.7	395.6	391.7	391.7
52.5°	373.1	374.6	369.7	365.5	363.8
55°	346.5	347.9	342.6	338.2	336.0
57.5°	320.8	320.6	316.2	310.3	309.8
60°	291.5	293.2	287.6	283.2	280.7
62.5°	263.6	265.8	259.7	255.6	254.1
65°	236.0	237.5	231.6	227.7	224.5
67.5°	208.9	208.4	203.0	198.6	196.9
70°	178.9	179.8	174.0	170.8	169.3
72.5°	150.8	151.7	146.6	144.4	142.0
75°	123.1	121.9	120.2	116.8	115.6
77.5°	93.8	95.0	94.6	90.9	90.4
80°	67.7	70.4	68.9	66.2	66.0
82.5°	45.0	47.6	46.9	46.2	45.4
85°	24.4	27.9	27.6	28.6	29.6
87.5°	9.3	12.0	14.2	13.9	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)