

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: P412195

Luminaire Tested: **MRI-4ASR-4-500-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-4-500-L935-OPL
Description: 4 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

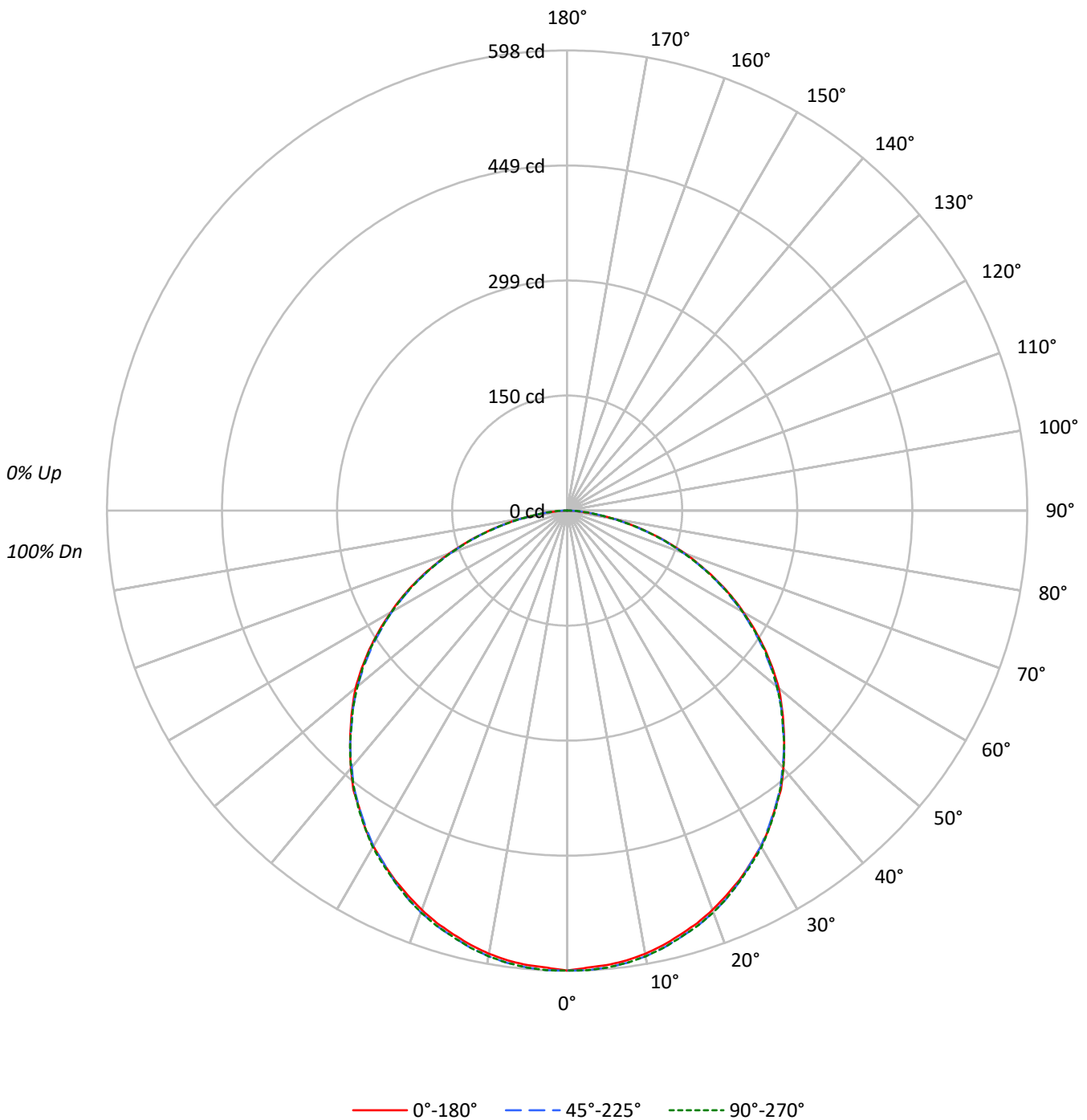
Lumens per Lamp: N/A
Luminaire Lumens: 1696.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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



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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4826	4826	4826
5°	4805	4831	4831
10°	4794	4821	4821
15°	4766	4793	4793
20°	4745	4773	4773
25°	4717	4732	4732
30°	4694	4694	4709
35°	4643	4643	4659
40°	4605	4588	4605
45°	4544	4526	4526
50°	4509	4469	4469
55°	4412	4367	4390
60°	4275	4250	4250
65°	4096	4065	4065
70°	3836	3795	3795
75°	3447	3394	3394
80°	2868	2794	2794
85°	1806	1954	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.3
10°-20°	161.8	9.5
20°-30°	244.7	14.4
30°-40°	295.2	17.4
40°-50°	306.6	18.1
50°-60°	277.7	16.4
60°-70°	210.4	12.4
70°-80°	115.9	6.8
80°-90°	27.1	1.6
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°	463.1	27.3
0°-40°	758.2	44.7
0°-60°	1342.5	79.2
0°-90°	1696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	593	595	596	598	596	56
15°	570	572	574	575	574	161
25°	530	530	531	531	531	244
35°	471	471	471	471	473	296
45°	398	396	396	398	396	307
55°	314	310	310	310	312	280
65°	214	213	213	213	213	212
75°	110	110	109	109	109	117
85°	20	21	21	23	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.8	597.8	597.8	597.8	597.8
2.5°	594.6	596.2	597.8	599.4	597.8
5°	592.9	594.6	596.2	597.8	596.2
7.5°	589.7	591.3	592.9	594.6	592.9
10°	584.8	586.4	588.1	589.7	588.1
12.5°	578.3	580.0	581.6	581.6	581.6
15°	570.2	571.8	573.5	575.1	573.5
17.5°	562.1	563.7	565.3	565.3	565.3
20°	552.3	554.0	555.6	555.6	555.6
22.5°	541.0	542.6	544.2	544.2	544.2
25°	529.6	529.6	531.2	531.2	531.2
27.5°	516.6	516.6	516.6	518.2	518.2
30°	503.6	503.6	503.6	503.6	505.2
32.5°	489.0	489.0	487.4	489.0	489.0
35°	471.1	471.1	471.1	471.1	472.7
37.5°	456.5	453.2	454.9	454.9	454.9
40°	437.0	437.0	435.4	437.0	437.0
42.5°	417.5	417.5	417.5	417.5	417.5
45°	398.0	396.4	396.4	398.0	396.4
47.5°	378.5	376.9	376.9	376.9	376.9
50°	359.0	355.8	355.8	355.8	355.8
52.5°	336.3	333.0	333.0	333.0	334.6
55°	313.5	310.3	310.3	310.3	311.9
57.5°	289.2	287.5	285.9	287.5	287.5
60°	264.8	263.2	263.2	263.2	263.2
62.5°	240.4	238.8	237.2	237.2	238.8
65°	214.4	212.8	212.8	212.8	212.8
67.5°	188.4	186.8	186.8	186.8	186.8
70°	162.5	160.8	160.8	162.5	160.8
72.5°	136.5	134.8	134.8	134.8	134.8
75°	110.5	110.5	108.8	108.8	108.8
77.5°	84.5	84.5	84.5	84.5	84.5
80°	61.7	60.1	60.1	60.1	60.1
82.5°	37.4	37.4	39.0	39.0	39.0
85°	19.5	21.1	21.1	22.7	22.7
87.5°	6.5	8.1	9.7	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)