

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: P412121

Luminaire Tested: **MRI-4ASR-2-500-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412121
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-2-500-L850-OPL
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

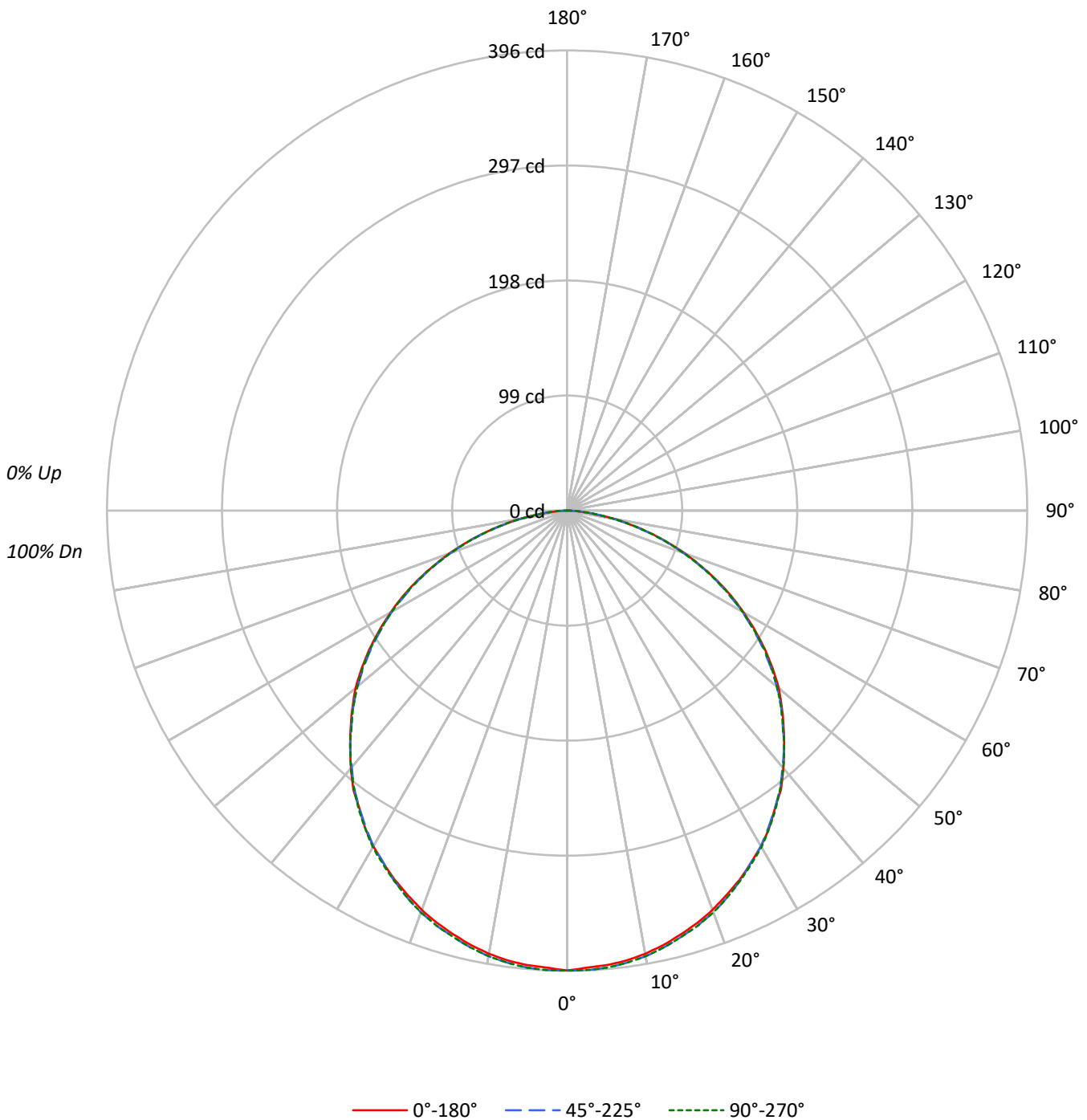
Lumens per Lamp: N/A
Luminaire Lumens: 1123.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

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	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°	6391	6391	6391
5°	6363	6399	6399
10°	6348	6384	6384
15°	6312	6347	6347
20°	6283	6321	6321
25°	6248	6266	6266
30°	6218	6218	6236
35°	6148	6148	6169
40°	6100	6076	6100
45°	6017	5994	5994
50°	5971	5918	5918
55°	5844	5785	5813
60°	5661	5628	5628
65°	5425	5383	5383
70°	5080	5028	5028
75°	4560	4498	4498
80°	3803	3701	3701
85°	2390	2594	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	3.3
10°-20°	107.1	9.5
20°-30°	162.0	14.4
30°-40°	195.5	17.4
40°-50°	203.0	18.1
50°-60°	183.9	16.4
60°-70°	139.3	12.4
70°-80°	76.8	6.8
80°-90°	17.9	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°	306.6	27.3
0°-40°	502.1	44.7
0°-60°	889.0	79.2
0°-90°	1123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	393	394	395	396	395	37
15°	378	379	380	381	380	107
25°	351	351	352	352	352	162
35°	312	312	312	312	313	196
45°	264	262	262	264	262	204
55°	208	206	206	206	206	185
65°	142	141	141	141	141	140
75°	73	73	72	72	72	77
85°	13	14	14	15	15	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.8	395.8	395.8	395.8	395.8
2.5°	393.7	394.8	395.8	396.9	395.8
5°	392.6	393.7	394.8	395.8	394.8
7.5°	390.5	391.5	392.6	393.7	392.6
10°	387.2	388.3	389.4	390.5	389.4
12.5°	382.9	384.0	385.1	385.1	385.1
15°	377.6	378.6	379.7	380.8	379.7
17.5°	372.2	373.3	374.3	374.3	374.3
20°	365.7	366.8	367.9	367.9	367.9
22.5°	358.2	359.3	360.3	360.3	360.3
25°	350.7	350.7	351.7	351.7	351.7
27.5°	342.1	342.1	342.1	343.1	343.1
30°	333.5	333.5	333.5	333.5	334.5
32.5°	323.8	323.8	322.7	323.8	323.8
35°	311.9	311.9	311.9	311.9	313.0
37.5°	302.3	300.1	301.2	301.2	301.2
40°	289.4	289.4	288.3	289.4	289.4
42.5°	276.4	276.4	276.4	276.4	276.4
45°	263.5	262.5	262.5	263.5	262.5
47.5°	250.6	249.6	249.6	249.6	249.6
50°	237.7	235.6	235.6	235.6	235.6
52.5°	222.7	220.5	220.5	220.5	221.6
55°	207.6	205.5	205.5	205.5	206.5
57.5°	191.5	190.4	189.3	190.4	190.4
60°	175.3	174.3	174.3	174.3	174.3
62.5°	159.2	158.1	157.0	157.0	158.1
65°	142.0	140.9	140.9	140.9	140.9
67.5°	124.8	123.7	123.7	123.7	123.7
70°	107.6	106.5	106.5	107.6	106.5
72.5°	90.4	89.3	89.3	89.3	89.3
75°	73.1	73.1	72.1	72.1	72.1
77.5°	55.9	55.9	55.9	55.9	55.9
80°	40.9	39.8	39.8	39.8	39.8
82.5°	24.7	24.7	25.8	25.8	25.8
85°	12.9	14.0	14.0	15.1	15.1
87.5°	4.3	5.4	6.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)