

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: P412159

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-4-500-L935-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

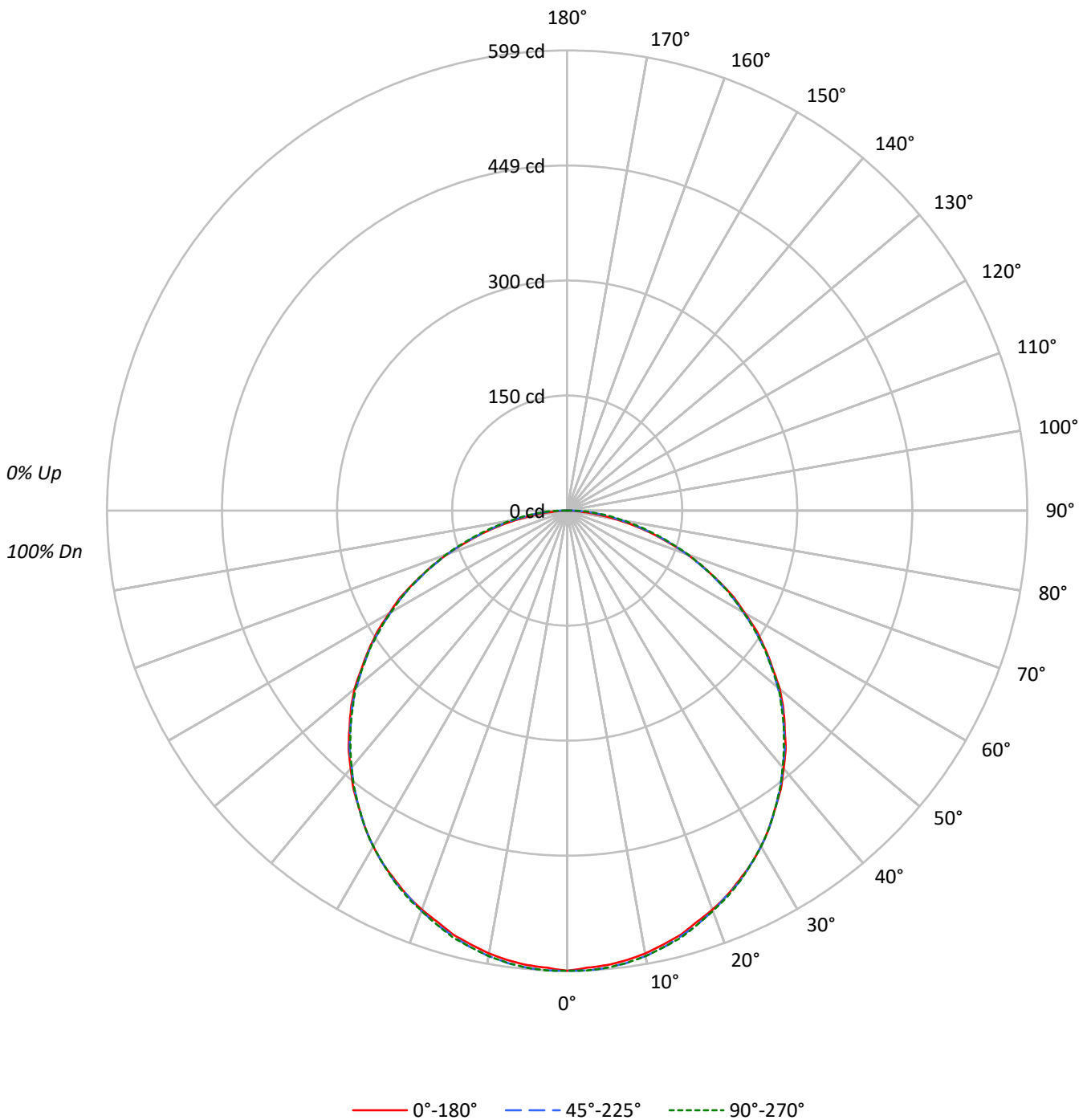
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9673	9673	9673
5°	9626	9682	9682
10°	9598	9653	9653
15°	9556	9585	9613
20°	9500	9529	9529
25°	9453	9483	9483
30°	9413	9413	9413
35°	9311	9311	9311
40°	9236	9200	9200
45°	9145	9106	9106
50°	9073	8985	9028
55°	8864	8816	8816
60°	8622	8567	8567
65°	8306	8241	8306
70°	7836	7836	7917
75°	7049	7155	7367
80°	5886	6527	6843
85°	4131	6336	6651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.3
10°-20°	161.9	9.4
20°-30°	245.1	14.2
30°-40°	295.9	17.2
40°-50°	308.2	17.9
50°-60°	280.0	16.3
60°-70°	214.1	12.4
70°-80°	122.6	7.1
80°-90°	36.6	2.1
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°	463.6	26.9
0°-40°	759.5	44.1
0°-60°	1347.7	78.3
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	594	596	597	597	597	56
15°	572	573	573	575	575	161
25°	531	531	532	532	532	245
35°	472	474	472	472	472	296
45°	400	400	399	399	399	310
55°	315	313	313	313	313	282
65°	217	217	216	216	217	215
75°	113	113	115	116	118	120
85°	22	27	34	34	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.1	599.1	599.1	599.1	599.1
2.5°	595.7	597.4	599.1	600.8	599.1
5°	593.9	595.7	597.4	597.4	597.4
7.5°	590.5	592.2	593.9	593.9	593.9
10°	585.4	587.1	588.8	588.8	588.8
12.5°	578.5	580.3	582.0	582.0	582.0
15°	571.7	573.4	573.4	575.1	575.1
17.5°	561.4	564.8	564.8	566.6	564.8
20°	552.9	554.6	554.6	554.6	554.6
22.5°	542.6	544.3	542.6	544.3	544.3
25°	530.6	530.6	532.3	532.3	532.3
27.5°	518.6	518.6	518.6	518.6	518.6
30°	504.9	504.9	504.9	504.9	504.9
32.5°	489.5	489.5	489.5	489.5	489.5
35°	472.4	474.1	472.4	472.4	472.4
37.5°	457.0	457.0	455.3	455.3	455.3
40°	438.2	438.2	436.5	436.5	436.5
42.5°	421.1	419.4	419.4	417.6	417.6
45°	400.5	400.5	398.8	398.8	398.8
47.5°	381.7	380.0	380.0	380.0	378.3
50°	361.2	359.4	357.7	357.7	359.4
52.5°	337.2	337.2	335.5	335.5	335.5
55°	314.9	313.2	313.2	313.2	313.2
57.5°	292.7	289.3	289.3	291.0	289.3
60°	267.0	265.3	265.3	265.3	265.3
62.5°	244.8	241.3	241.3	241.3	241.3
65°	217.4	217.4	215.7	215.7	217.4
67.5°	191.7	191.7	190.0	191.7	191.7
70°	166.0	164.3	166.0	166.0	167.7
72.5°	138.6	140.4	140.4	140.4	142.1
75°	113.0	113.0	114.7	116.4	118.1
77.5°	87.3	89.0	92.4	94.1	95.9
80°	63.3	66.8	70.2	73.6	73.6
82.5°	41.1	44.5	51.3	56.5	56.5
85°	22.3	27.4	34.2	34.2	35.9
87.5°	8.6	13.7	18.8	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)