

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: P412233

Luminaire Tested: **MRI-2ASR-8-500-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412233
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-8-500-L940-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.0 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

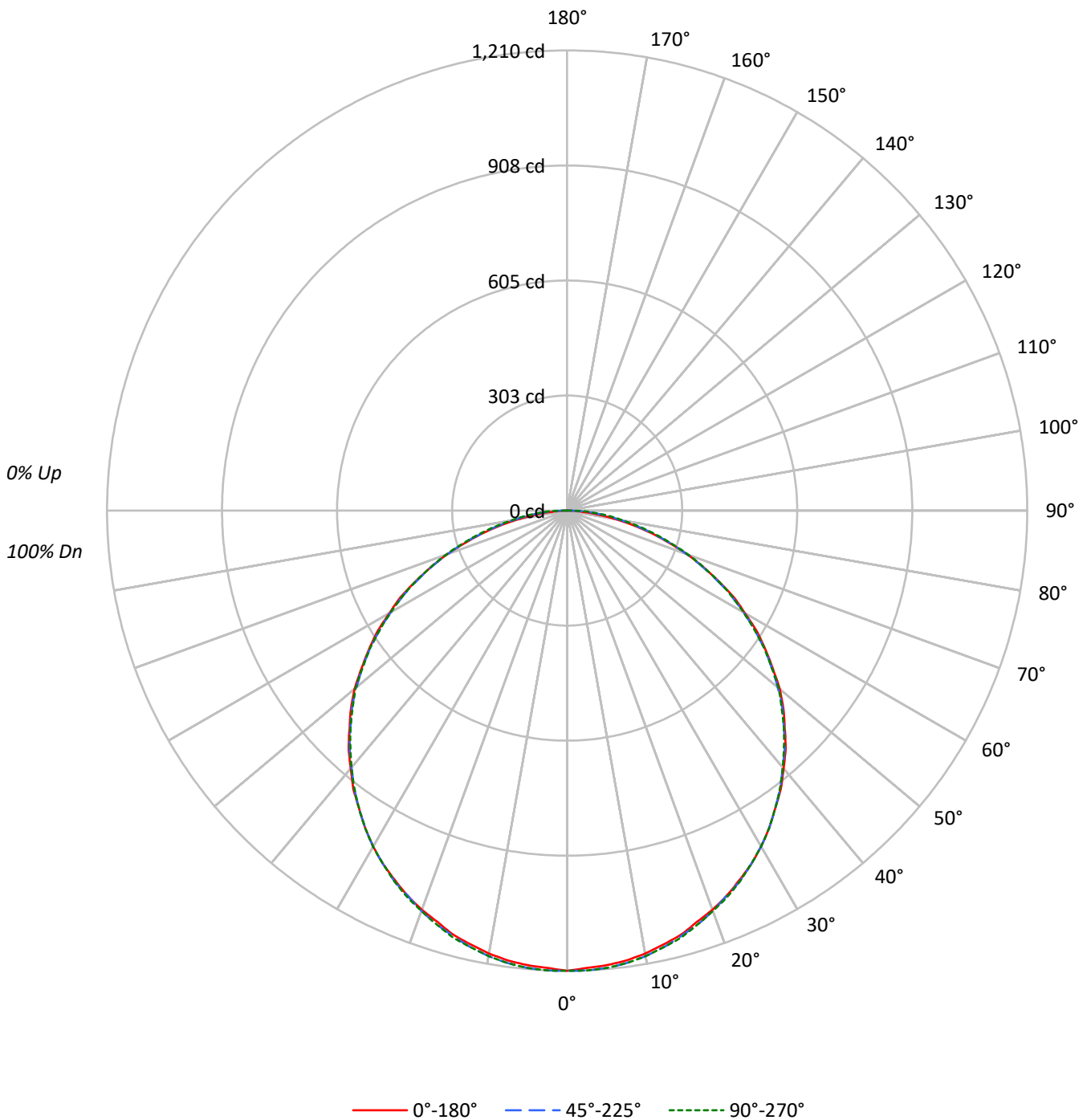
Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	9771	9771	9771
5°	9725	9780	9780
10°	9695	9752	9752
15°	9653	9682	9711
20°	9596	9625	9625
25°	9549	9580	9580
30°	9509	9509	9509
35°	9406	9406	9406
40°	9330	9293	9293
45°	9239	9199	9199
50°	9164	9077	9121
55°	8956	8906	8906
60°	8711	8654	8654
65°	8390	8323	8390
70°	7917	7917	7999
75°	7118	7227	7442
80°	5951	6592	6913
85°	4168	6410	6725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.3
10°-20°	327.0	9.4
20°-30°	495.1	14.2
30°-40°	597.8	17.2
40°-50°	622.7	17.9
50°-60°	565.7	16.3
60°-70°	432.5	12.4
70°-80°	247.6	7.1
80°-90°	74.0	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°	936.6	26.9
0°-40°	1534.4	44.1
0°-60°	2722.8	78.3
0°-90°	3477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1200	1203	1207	1207	1207	114
15°	1155	1158	1158	1162	1162	326
25°	1072	1072	1076	1076	1076	494
35°	954	958	954	954	954	598
45°	809	809	806	806	806	625
55°	636	633	633	633	633	569
65°	439	439	436	436	439	435
75°	228	228	232	235	239	242
85°	45	55	69	69	73	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1203.4	1206.9	1210.3	1213.8	1210.3
5°	1200.0	1203.4	1206.9	1206.9	1206.9
7.5°	1193.1	1196.5	1200.0	1200.0	1200.0
10°	1182.7	1186.1	1189.6	1189.6	1189.6
12.5°	1168.8	1172.3	1175.8	1175.8	1175.8
15°	1155.0	1158.5	1158.5	1161.9	1161.9
17.5°	1134.3	1141.2	1141.2	1144.6	1141.2
20°	1117.0	1120.4	1120.4	1120.4	1120.4
22.5°	1096.2	1099.7	1096.2	1099.7	1099.7
25°	1072.0	1072.0	1075.5	1075.5	1075.5
27.5°	1047.8	1047.8	1047.8	1047.8	1047.8
30°	1020.1	1020.1	1020.1	1020.1	1020.1
32.5°	989.0	989.0	989.0	989.0	989.0
35°	954.4	957.9	954.4	954.4	954.4
37.5°	923.3	923.3	919.9	919.9	919.9
40°	885.3	885.3	881.8	881.8	881.8
42.5°	850.7	847.2	847.2	843.8	843.8
45°	809.2	809.2	805.7	805.7	805.7
47.5°	771.2	767.7	767.7	767.7	764.2
50°	729.7	726.2	722.7	722.7	726.2
52.5°	681.3	681.3	677.8	677.8	677.8
55°	636.3	632.8	632.8	632.8	632.8
57.5°	591.3	584.4	584.4	587.9	584.4
60°	539.5	536.0	536.0	536.0	536.0
62.5°	494.5	487.6	487.6	487.6	487.6
65°	439.2	439.2	435.7	435.7	439.2
67.5°	387.3	387.3	383.9	387.3	387.3
70°	335.4	332.0	335.4	335.4	338.9
72.5°	280.1	283.6	283.6	283.6	287.0
75°	228.2	228.2	231.7	235.2	238.6
77.5°	176.4	179.8	186.7	190.2	193.7
80°	128.0	134.9	141.8	148.7	148.7
82.5°	83.0	89.9	103.7	114.1	114.1
85°	45.0	55.3	69.2	69.2	72.6
87.5°	17.3	27.7	38.0	48.4	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)