

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: P412201

Luminaire Tested: **MRI-2ASR-8-1000-L835-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412201
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-8-1000-L835-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4711.0 lumens
Efficiency: N/A
Efficacy: 46.5 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

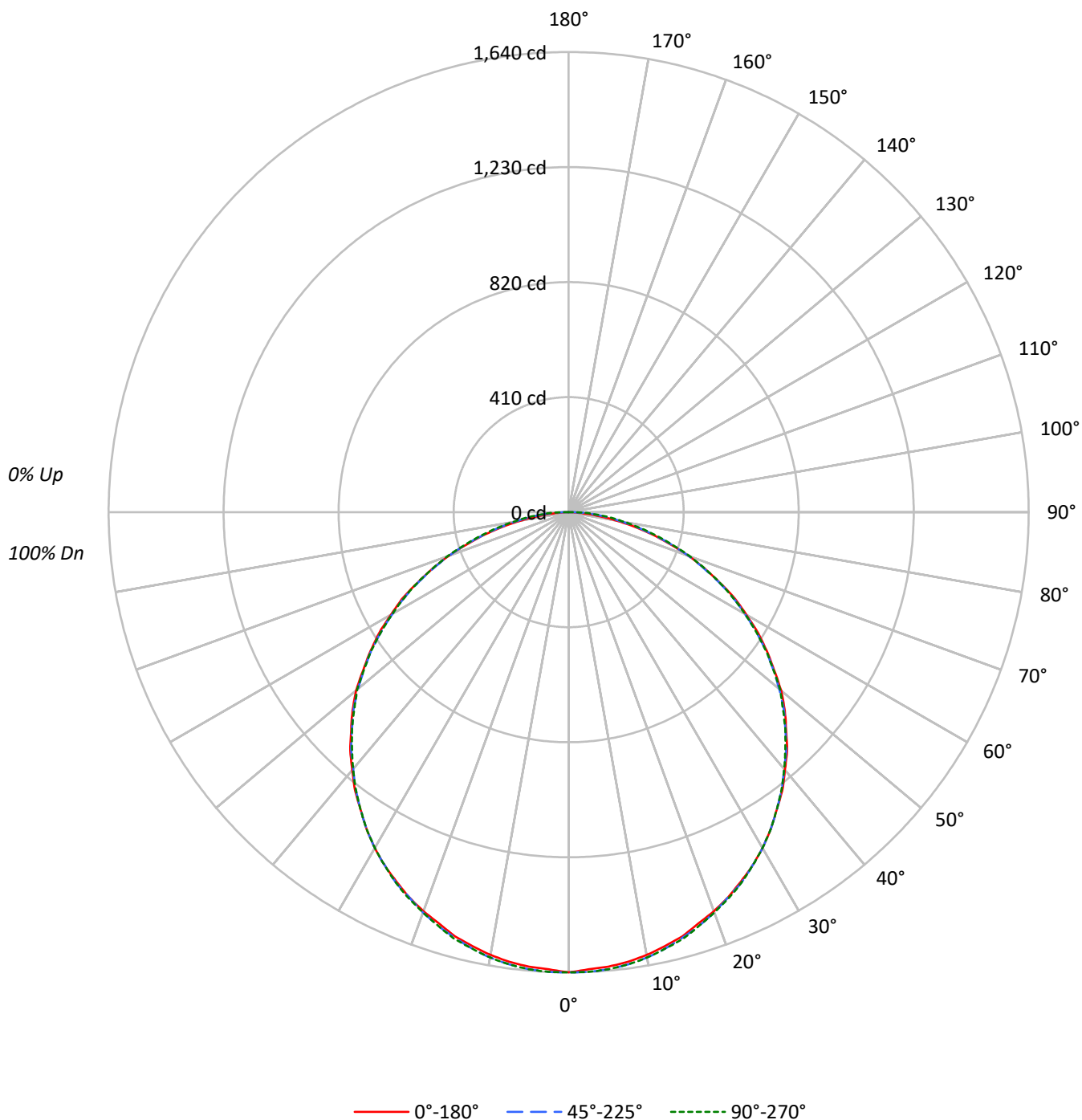
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	62	72	66	61	69	64	60
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13239	13239	13239
5°	13175	13251	13251
10°	13136	13213	13213
15°	13079	13118	13158
20°	13002	13042	13042
25°	12938	12980	12980
30°	12885	12885	12885
35°	12745	12745	12745
40°	12641	12591	12591
45°	12517	12464	12464
50°	12416	12299	12357
55°	12134	12068	12068
60°	11801	11725	11725
65°	11366	11278	11366
70°	10728	10728	10839
75°	9644	9791	10084
80°	8061	8931	9368
85°	5641	8679	9114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.3
10°-20°	443.1	9.4
20°-30°	670.8	14.2
30°-40°	810.0	17.2
40°-50°	843.8	17.9
50°-60°	766.4	16.3
60°-70°	586.0	12.4
70°-80°	335.5	7.1
80°-90°	100.2	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°	1269.1	26.9
0°-40°	2079.1	44.1
0°-60°	3689.2	78.3
0°-90°	4711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1626	1630	1635	1635	1635	154
15°	1565	1570	1570	1574	1574	441
25°	1452	1452	1457	1457	1457	670
35°	1293	1298	1293	1293	1293	811
45°	1096	1096	1092	1092	1092	847
55°	862	857	857	857	857	771
65°	595	595	590	590	595	589
75°	309	309	314	319	323	327
85°	61	75	94	94	98	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.9	1639.9	1639.9	1639.9	1639.9
2.5°	1630.5	1635.2	1639.9	1644.6	1639.9
5°	1625.8	1630.5	1635.2	1635.2	1635.2
7.5°	1616.5	1621.2	1625.8	1625.8	1625.8
10°	1602.4	1607.1	1611.8	1611.8	1611.8
12.5°	1583.7	1588.4	1593.0	1593.0	1593.0
15°	1564.9	1569.6	1569.6	1574.3	1574.3
17.5°	1536.8	1546.2	1546.2	1550.9	1546.2
20°	1513.4	1518.1	1518.1	1518.1	1518.1
22.5°	1485.3	1490.0	1485.3	1490.0	1490.0
25°	1452.5	1452.5	1457.2	1457.2	1457.2
27.5°	1419.7	1419.7	1419.7	1419.7	1419.7
30°	1382.2	1382.2	1382.2	1382.2	1382.2
32.5°	1340.0	1340.0	1340.0	1340.0	1340.0
35°	1293.2	1297.9	1293.2	1293.2	1293.2
37.5°	1251.0	1251.0	1246.3	1246.3	1246.3
40°	1199.5	1199.5	1194.8	1194.8	1194.8
42.5°	1152.6	1147.9	1147.9	1143.2	1143.2
45°	1096.4	1096.4	1091.7	1091.7	1091.7
47.5°	1044.9	1040.2	1040.2	1040.2	1035.5
50°	988.6	983.9	979.3	979.3	983.9
52.5°	923.0	923.0	918.3	918.3	918.3
55°	862.1	857.4	857.4	857.4	857.4
57.5°	801.2	791.8	791.8	796.5	791.8
60°	730.9	726.2	726.2	726.2	726.2
62.5°	670.0	660.6	660.6	660.6	660.6
65°	595.0	595.0	590.4	590.4	595.0
67.5°	524.8	524.8	520.1	524.8	524.8
70°	454.5	449.8	454.5	454.5	459.2
72.5°	379.5	384.2	384.2	384.2	388.9
75°	309.2	309.2	313.9	318.6	323.3
77.5°	239.0	243.6	253.0	257.7	262.4
80°	173.4	182.7	192.1	201.5	201.5
82.5°	112.5	121.8	140.6	154.6	154.6
85°	60.9	75.0	93.7	93.7	98.4
87.5°	23.4	37.5	51.5	65.6	65.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)