

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: P412205

Luminaire Tested: **MRI-2ASR-8-1000-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412205
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-L850-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5068.0 lumens
Efficiency: N/A
Efficacy: 50.0 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

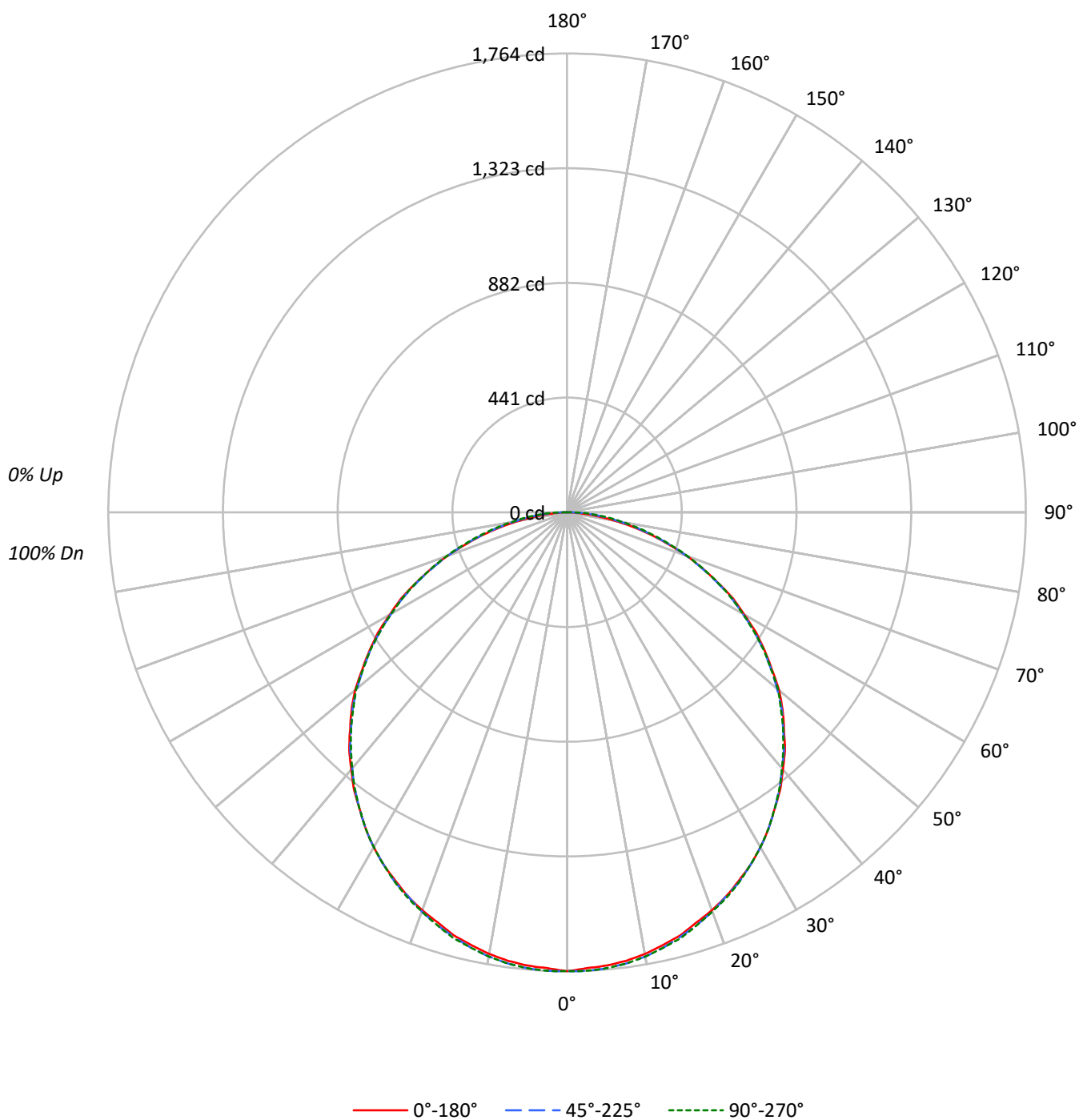
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	14242	14242	14242
5°	14174	14255	14255
10°	14131	14214	14214
15°	14070	14113	14155
20°	13987	14030	14030
25°	13919	13963	13963
30°	13861	13861	13861
35°	13711	13711	13711
40°	13599	13545	13545
45°	13466	13408	13408
50°	13357	13231	13294
55°	13054	12983	12983
60°	12695	12615	12615
65°	12227	12132	12227
70°	11540	11540	11660
75°	10377	10533	10848
80°	8670	9610	10074
85°	6067	9337	9809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.3
10°-20°	476.7	9.4
20°-30°	721.7	14.2
30°-40°	871.4	17.2
40°-50°	907.7	17.9
50°-60°	824.5	16.3
60°-70°	630.4	12.4
70°-80°	360.9	7.1
80°-90°	107.8	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°	1365.3	26.9
0°-40°	2236.6	44.1
0°-60°	3968.8	78.3
0°-90°	5068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1749	1754	1759	1759	1759	166
15°	1684	1689	1689	1694	1694	475
25°	1563	1563	1568	1568	1568	721
35°	1391	1396	1391	1391	1391	872
45°	1180	1180	1174	1174	1174	912
55°	928	922	922	922	922	829
65°	640	640	635	635	640	634
75°	333	333	338	343	348	352
85°	66	81	101	101	106	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1754.1	1759.1	1764.2	1769.2	1764.2
5°	1749.1	1754.1	1759.1	1759.1	1759.1
7.5°	1739.0	1744.0	1749.1	1749.1	1749.1
10°	1723.8	1728.9	1733.9	1733.9	1733.9
12.5°	1703.7	1708.7	1713.8	1713.8	1713.8
15°	1683.5	1688.6	1688.6	1693.6	1693.6
17.5°	1653.3	1663.4	1663.4	1668.4	1663.4
20°	1628.1	1633.1	1633.1	1633.1	1633.1
22.5°	1597.8	1602.9	1597.8	1602.9	1602.9
25°	1562.6	1562.6	1567.6	1567.6	1567.6
27.5°	1527.3	1527.3	1527.3	1527.3	1527.3
30°	1486.9	1486.9	1486.9	1486.9	1486.9
32.5°	1441.6	1441.6	1441.6	1441.6	1441.6
35°	1391.2	1396.2	1391.2	1391.2	1391.2
37.5°	1345.8	1345.8	1340.8	1340.8	1340.8
40°	1290.4	1290.4	1285.3	1285.3	1285.3
42.5°	1240.0	1234.9	1234.9	1229.9	1229.9
45°	1179.5	1179.5	1174.4	1174.4	1174.4
47.5°	1124.0	1119.0	1119.0	1119.0	1113.9
50°	1063.5	1058.5	1053.5	1053.5	1058.5
52.5°	993.0	993.0	987.9	987.9	987.9
55°	927.5	922.4	922.4	922.4	922.4
57.5°	861.9	851.8	851.8	856.9	851.8
60°	786.3	781.3	781.3	781.3	781.3
62.5°	720.8	710.7	710.7	710.7	710.7
65°	640.1	640.1	635.1	635.1	640.1
67.5°	564.5	564.5	559.5	564.5	564.5
70°	488.9	483.9	488.9	488.9	494.0
72.5°	408.3	413.3	413.3	413.3	418.4
75°	332.7	332.7	337.7	342.8	347.8
77.5°	257.1	262.1	272.2	277.2	282.3
80°	186.5	196.6	206.7	216.7	216.7
82.5°	121.0	131.1	151.2	166.3	166.3
85°	65.5	80.6	100.8	100.8	105.9
87.5°	25.2	40.3	55.4	70.6	70.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)