

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: P412061

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412061
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-2-1000-L850-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1550.0 lumens
Efficiency: N/A
Efficacy: 45.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

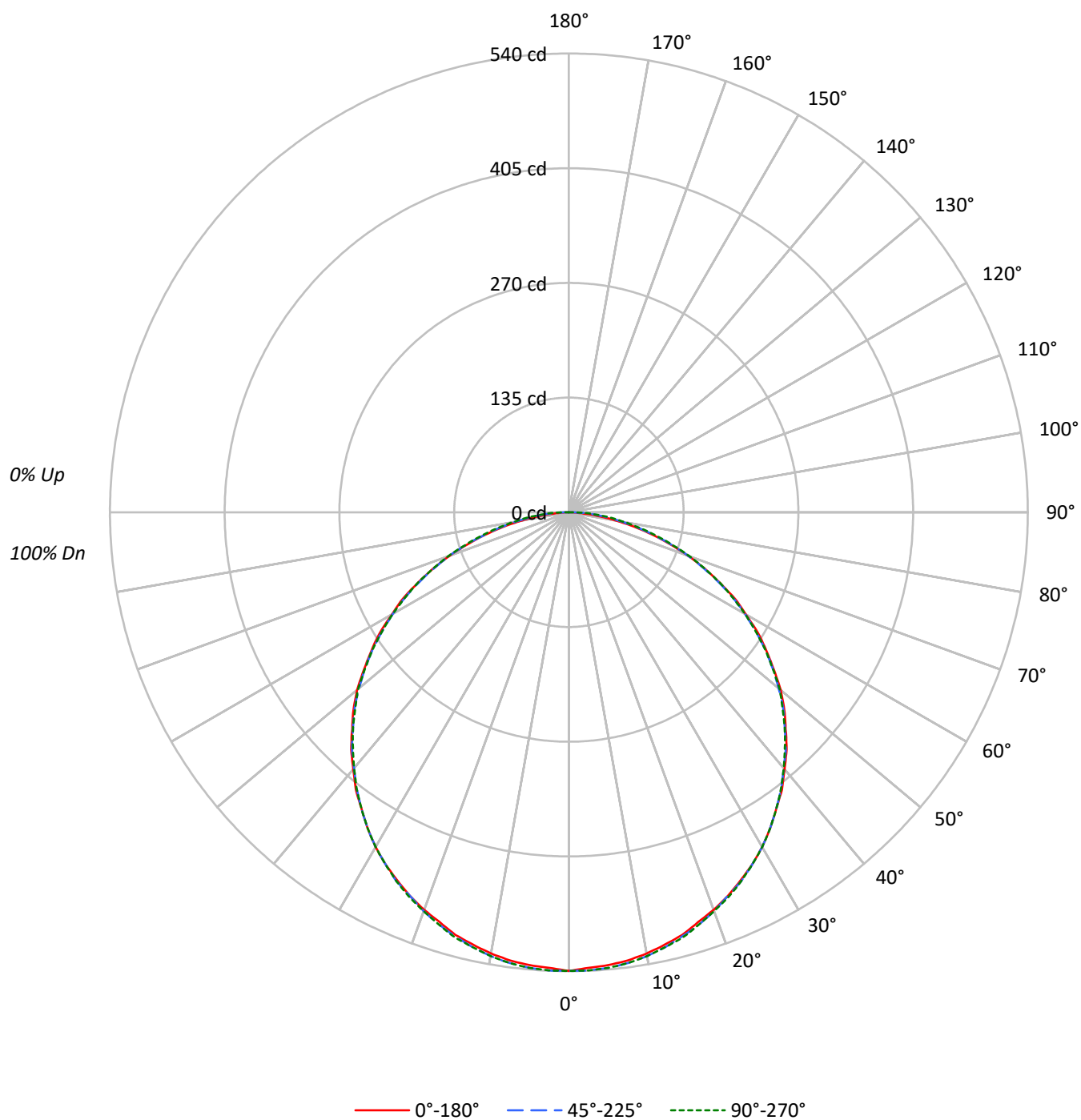
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	17425	17425	17425
5°	17339	17439	17439
10°	17287	17388	17388
15°	17214	17264	17317
20°	17110	17165	17165
25°	17028	17081	17081
30°	16958	16958	16958
35°	16774	16774	16774
40°	16634	16571	16571
45°	16472	16404	16404
50°	16342	16186	16262
55°	15972	15882	15882
60°	15532	15429	15429
65°	14961	14839	14961
70°	14115	14115	14266
75°	12689	12888	13275
80°	10600	11753	12329
85°	7410	11412	12004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	3.3
10°-20°	145.8	9.4
20°-30°	220.7	14.2
30°-40°	266.5	17.2
40°-50°	277.6	17.9
50°-60°	252.2	16.3
60°-70°	192.8	12.4
70°-80°	110.4	7.1
80°-90°	33.0	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°	417.5	26.9
0°-40°	684.0	44.1
0°-60°	1213.8	78.3
0°-90°	1550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	535	536	538	538	538	51
15°	515	516	516	518	518	145
25°	478	478	479	479	479	220
35°	426	427	426	426	426	267
45°	361	361	359	359	359	279
55°	284	282	282	282	282	254
65°	196	196	194	194	196	194
75°	102	102	103	105	106	108
85°	20	25	31	31	32	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.6	539.6	539.6	539.6	539.6
2.5°	536.5	538.0	539.6	541.1	539.6
5°	534.9	536.5	538.0	538.0	538.0
7.5°	531.8	533.4	534.9	534.9	534.9
10°	527.2	528.8	530.3	530.3	530.3
12.5°	521.1	522.6	524.1	524.1	524.1
15°	514.9	516.4	516.4	518.0	518.0
17.5°	505.6	508.7	508.7	510.3	508.7
20°	497.9	499.5	499.5	499.5	499.5
22.5°	488.7	490.2	488.7	490.2	490.2
25°	477.9	477.9	479.4	479.4	479.4
27.5°	467.1	467.1	467.1	467.1	467.1
30°	454.8	454.8	454.8	454.8	454.8
32.5°	440.9	440.9	440.9	440.9	440.9
35°	425.5	427.0	425.5	425.5	425.5
37.5°	411.6	411.6	410.1	410.1	410.1
40°	394.6	394.6	393.1	393.1	393.1
42.5°	379.2	377.7	377.7	376.1	376.1
45°	360.7	360.7	359.2	359.2	359.2
47.5°	343.8	342.2	342.2	342.2	340.7
50°	325.3	323.7	322.2	322.2	323.7
52.5°	303.7	303.7	302.2	302.2	302.2
55°	283.7	282.1	282.1	282.1	282.1
57.5°	263.6	260.5	260.5	262.1	260.5
60°	240.5	238.9	238.9	238.9	238.9
62.5°	220.4	217.4	217.4	217.4	217.4
65°	195.8	195.8	194.2	194.2	195.8
67.5°	172.7	172.7	171.1	172.7	172.7
70°	149.5	148.0	149.5	149.5	151.1
72.5°	124.9	126.4	126.4	126.4	128.0
75°	101.7	101.7	103.3	104.8	106.4
77.5°	78.6	80.2	83.2	84.8	86.3
80°	57.0	60.1	63.2	66.3	66.3
82.5°	37.0	40.1	46.2	50.9	50.9
85°	20.0	24.7	30.8	30.8	32.4
87.5°	7.7	12.3	17.0	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)