

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: P412217

Luminaire Tested: **MRI-2ASR-8-250-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412217
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-8-250-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: 2177.0 lumens
Efficiency: N/A
Efficacy: 54.3 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

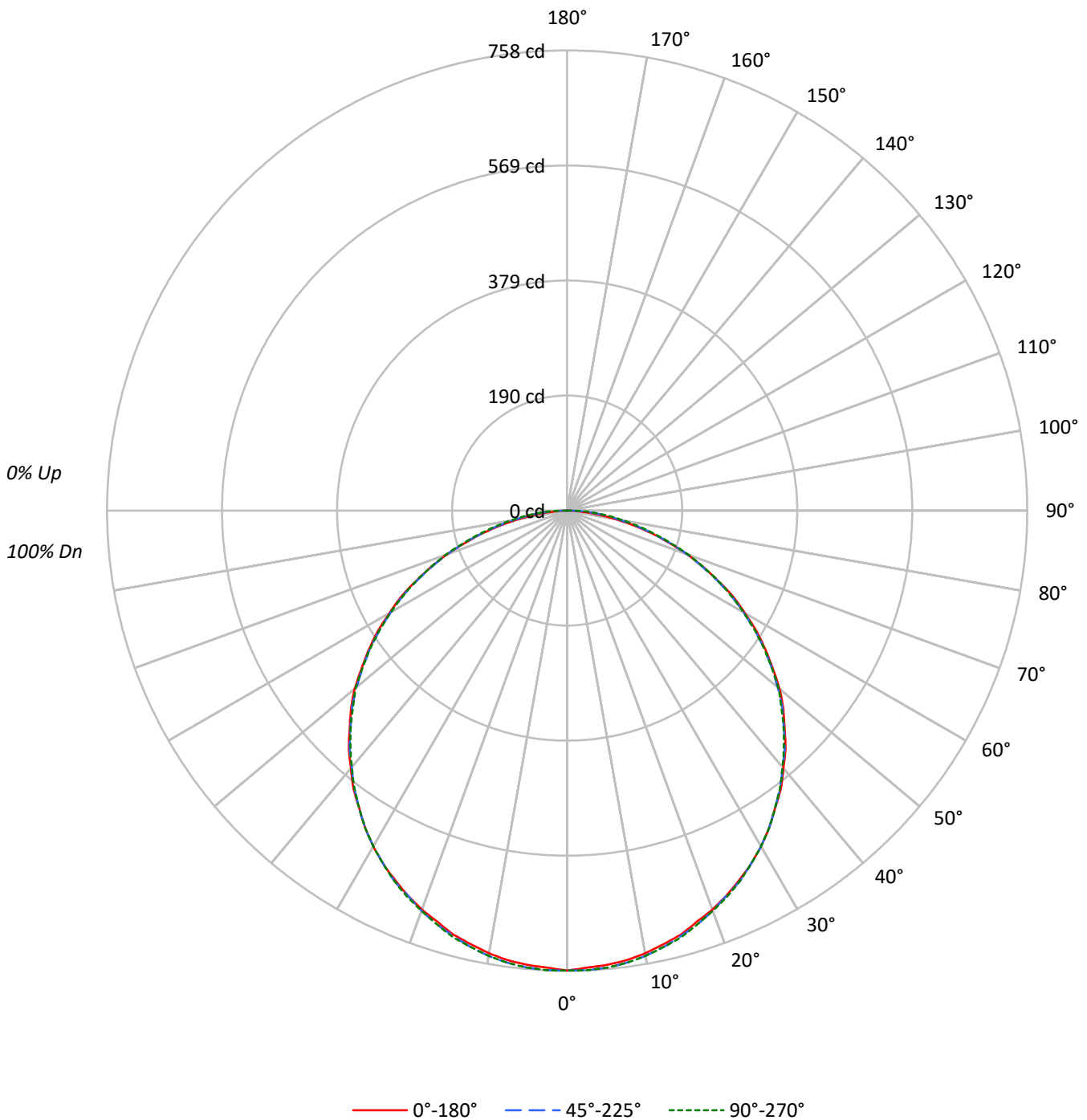
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6118	6118	6118
5°	6088	6123	6123
10°	6070	6105	6105
15°	6044	6062	6080
20°	6009	6027	6027
25°	5979	5998	5998
30°	5954	5954	5954
35°	5889	5889	5889
40°	5841	5818	5818
45°	5785	5760	5760
50°	5738	5683	5711
55°	5607	5576	5576
60°	5454	5419	5419
65°	5253	5211	5253
70°	4957	4957	5009
75°	4457	4526	4660
80°	3724	4128	4328
85°	2603	4011	4214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.3
10°-20°	204.8	9.4
20°-30°	310.0	14.2
30°-40°	374.3	17.2
40°-50°	389.9	17.9
50°-60°	354.2	16.3
60°-70°	270.8	12.4
70°-80°	155.0	7.1
80°-90°	46.3	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°	586.5	26.9
0°-40°	960.7	44.1
0°-60°	1704.8	78.3
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	751	754	756	756	756	71
15°	723	725	725	728	728	204
25°	671	671	673	673	673	310
35°	598	600	598	598	598	375
45°	507	507	504	504	504	392
55°	398	396	396	396	396	356
65°	275	275	273	273	275	272
75°	143	143	145	147	149	151
85°	28	35	43	43	46	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	753.5	755.6	757.8	760.0	757.8
5°	751.3	753.5	755.6	755.6	755.6
7.5°	747.0	749.2	751.3	751.3	751.3
10°	740.5	742.7	744.8	744.8	744.8
12.5°	731.8	734.0	736.2	736.2	736.2
15°	723.2	725.3	725.3	727.5	727.5
17.5°	710.2	714.5	714.5	716.7	714.5
20°	699.4	701.5	701.5	701.5	701.5
22.5°	686.4	688.5	686.4	688.5	688.5
25°	671.2	671.2	673.4	673.4	673.4
27.5°	656.1	656.1	656.1	656.1	656.1
30°	638.7	638.7	638.7	638.7	638.7
32.5°	619.2	619.2	619.2	619.2	619.2
35°	597.6	599.8	597.6	597.6	597.6
37.5°	578.1	578.1	575.9	575.9	575.9
40°	554.3	554.3	552.1	552.1	552.1
42.5°	532.6	530.5	530.5	528.3	528.3
45°	506.7	506.7	504.5	504.5	504.5
47.5°	482.8	480.7	480.7	480.7	478.5
50°	456.9	454.7	452.5	452.5	454.7
52.5°	426.5	426.5	424.4	424.4	424.4
55°	398.4	396.2	396.2	396.2	396.2
57.5°	370.2	365.9	365.9	368.1	365.9
60°	337.8	335.6	335.6	335.6	335.6
62.5°	309.6	305.3	305.3	305.3	305.3
65°	275.0	275.0	272.8	272.8	275.0
67.5°	242.5	242.5	240.3	242.5	242.5
70°	210.0	207.9	210.0	210.0	212.2
72.5°	175.4	177.5	177.5	177.5	179.7
75°	142.9	142.9	145.1	147.2	149.4
77.5°	110.4	112.6	116.9	119.1	121.3
80°	80.1	84.4	88.8	93.1	93.1
82.5°	52.0	56.3	65.0	71.5	71.5
85°	28.1	34.6	43.3	43.3	45.5
87.5°	10.8	17.3	23.8	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)