

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: P412253

Luminaire Tested: **MRI-4ASR-8-250-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-8-250-L850-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

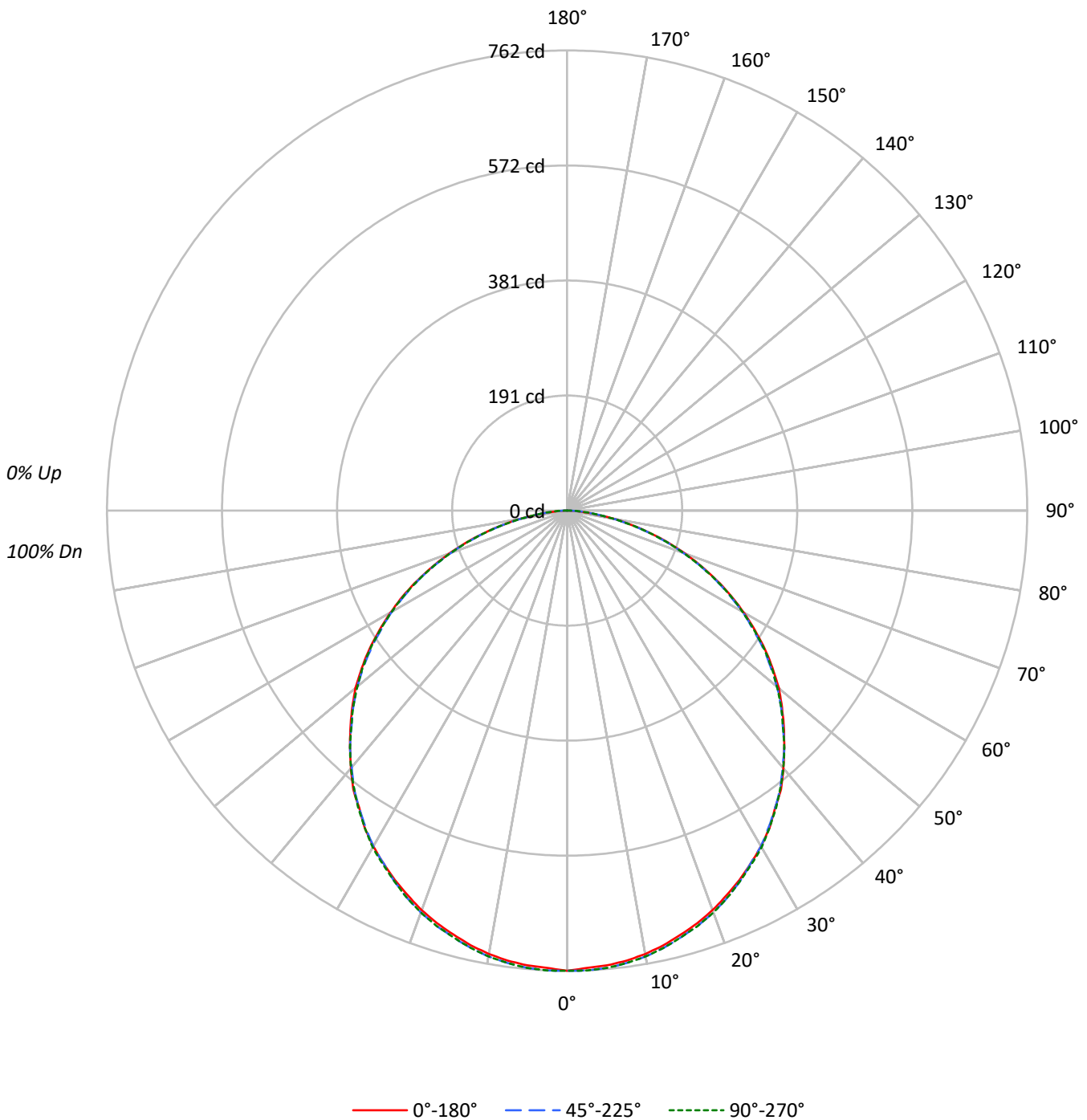
Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3063	3079	3079
10°	3056	3073	3073
15°	3038	3055	3055
20°	3024	3042	3042
25°	3007	3016	3016
30°	2992	2992	3002
35°	2960	2960	2969
40°	2935	2924	2935
45°	2896	2884	2884
50°	2874	2848	2848
55°	2813	2783	2798
60°	2725	2708	2708
65°	2611	2591	2591
70°	2444	2419	2419
75°	2196	2163	2163
80°	1829	1781	1781
85°	1153	1246	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.3
10°-20°	206.2	9.5
20°-30°	311.9	14.4
30°-40°	376.3	17.4
40°-50°	390.8	18.1
50°-60°	354.0	16.4
60°-70°	268.3	12.4
70°-80°	147.8	6.8
80°-90°	34.5	1.6
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°	590.3	27.3
0°-40°	966.6	44.7
0°-60°	1711.4	79.2
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	756	758	760	762	760	72
15°	727	729	731	733	731	205
25°	675	675	677	677	677	311
35°	601	601	601	601	603	377
45°	507	505	505	507	505	392
55°	400	396	396	396	398	357
65°	273	271	271	271	271	270
75°	141	141	139	139	139	149
85°	25	27	27	29	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.1	762.1	762.1	762.1	762.1
2.5°	757.9	760.0	762.1	764.2	762.1
5°	755.9	757.9	760.0	762.1	760.0
7.5°	751.7	753.8	755.9	757.9	755.9
10°	745.5	747.6	749.7	751.7	749.7
12.5°	737.2	739.3	741.4	741.4	741.4
15°	726.9	728.9	731.0	733.1	731.0
17.5°	716.5	718.6	720.7	720.7	720.7
20°	704.1	706.2	708.2	708.2	708.2
22.5°	689.6	691.7	693.7	693.7	693.7
25°	675.1	675.1	677.2	677.2	677.2
27.5°	658.5	658.5	658.5	660.6	660.6
30°	642.0	642.0	642.0	642.0	644.0
32.5°	623.3	623.3	621.3	623.3	623.3
35°	600.6	600.6	600.6	600.6	602.6
37.5°	581.9	577.8	579.8	579.8	579.8
40°	557.1	557.1	555.0	557.1	557.1
42.5°	532.2	532.2	532.2	532.2	532.2
45°	507.4	505.3	505.3	507.4	505.3
47.5°	482.5	480.4	480.4	480.4	480.4
50°	457.7	453.5	453.5	453.5	453.5
52.5°	428.7	424.5	424.5	424.5	426.6
55°	399.7	395.5	395.5	395.5	397.6
57.5°	368.6	366.5	364.5	366.5	366.5
60°	337.6	335.5	335.5	335.5	335.5
62.5°	306.5	304.4	302.3	302.3	304.4
65°	273.4	271.3	271.3	271.3	271.3
67.5°	240.2	238.2	238.2	238.2	238.2
70°	207.1	205.0	205.0	207.1	205.0
72.5°	174.0	171.9	171.9	171.9	171.9
75°	140.8	140.8	138.7	138.7	138.7
77.5°	107.7	107.7	107.7	107.7	107.7
80°	78.7	76.6	76.6	76.6	76.6
82.5°	47.6	47.6	49.7	49.7	49.7
85°	24.9	26.9	26.9	29.0	29.0
87.5°	8.3	10.4	12.4	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)