

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: P412073

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412073
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-2-250-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: 544.0 lumens
Efficiency: N/A
Efficacy: 49.0 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

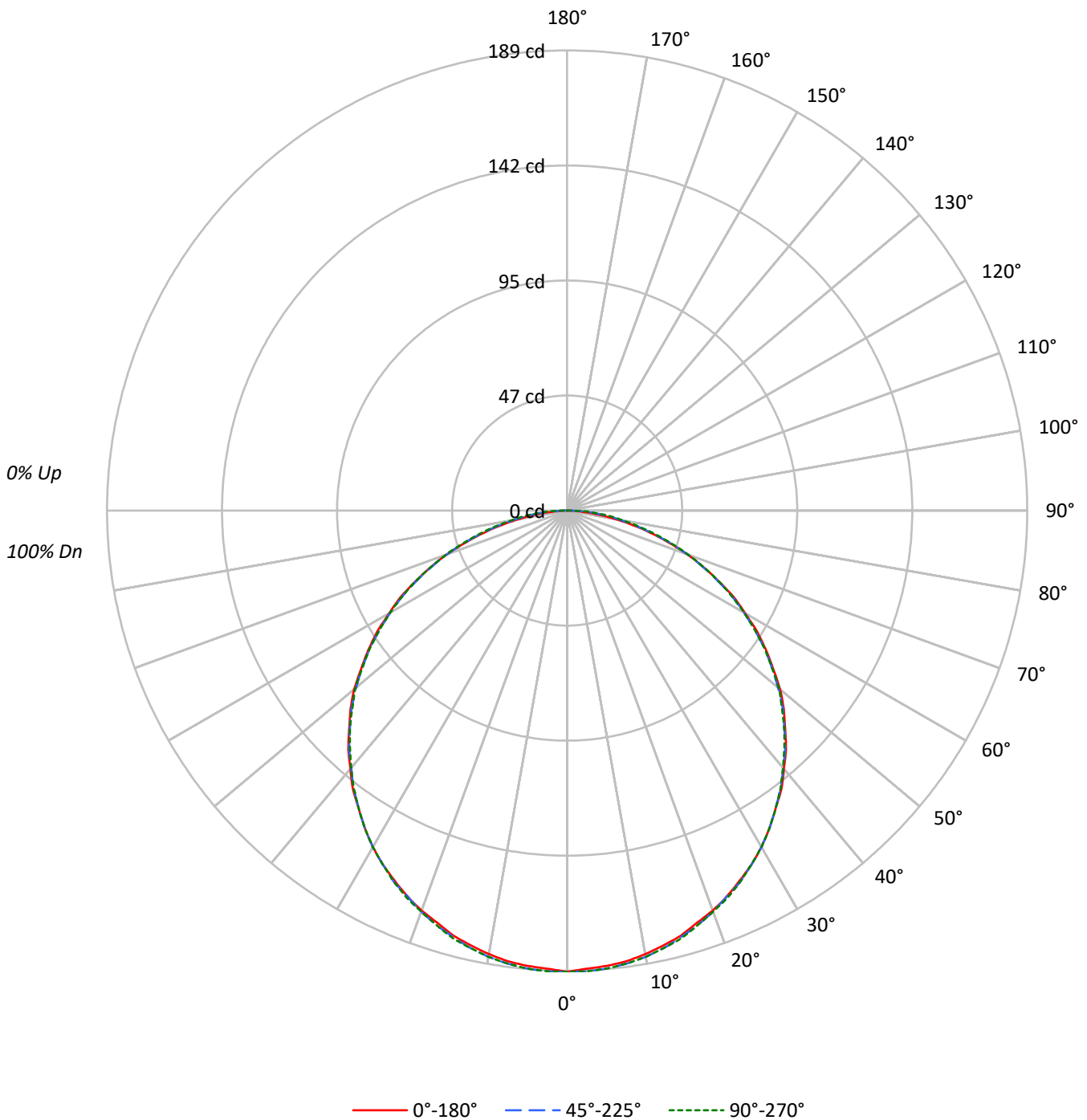
Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	77	70	64	74	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°	6116	6116	6116
5°	6084	6120	6120
10°	6066	6102	6102
15°	6041	6061	6078
20°	6007	6024	6024
25°	5975	5997	5997
30°	5951	5951	5951
35°	5886	5886	5886
40°	5838	5817	5817
45°	5781	5759	5759
50°	5737	5682	5707
55°	5607	5574	5574
60°	5451	5419	5419
65°	5249	5211	5249
70°	4957	4957	5004
75°	4454	4529	4654
80°	3719	4128	4333
85°	2594	4001	4224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	3.3
10°-20°	51.2	9.4
20°-30°	77.5	14.2
30°-40°	93.5	17.2
40°-50°	97.4	17.9
50°-60°	88.5	16.3
60°-70°	67.7	12.4
70°-80°	38.8	7.1
80°-90°	11.6	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°	146.5	26.9
0°-40°	240.1	44.1
0°-60°	426.0	78.3
0°-90°	544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	189	189	189	189	189	
5°	188	188	189	189	189	18
15°	181	181	181	182	182	51
25°	168	168	168	168	168	77
35°	149	150	149	149	149	94
45°	127	127	126	126	126	98
55°	100	99	99	99	99	89
65°	69	69	68	68	69	68
75°	36	36	36	37	37	38
85°	7	9	11	11	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	189.4	189.4	189.4	189.4	189.4
2.5°	188.3	188.8	189.4	189.9	189.4
5°	187.7	188.3	188.8	188.8	188.8
7.5°	186.7	187.2	187.7	187.7	187.7
10°	185.0	185.6	186.1	186.1	186.1
12.5°	182.9	183.4	184.0	184.0	184.0
15°	180.7	181.3	181.3	181.8	181.8
17.5°	177.5	178.5	178.5	179.1	178.5
20°	174.8	175.3	175.3	175.3	175.3
22.5°	171.5	172.1	171.5	172.1	172.1
25°	167.7	167.7	168.3	168.3	168.3
27.5°	163.9	163.9	163.9	163.9	163.9
30°	159.6	159.6	159.6	159.6	159.6
32.5°	154.7	154.7	154.7	154.7	154.7
35°	149.3	149.9	149.3	149.3	149.3
37.5°	144.5	144.5	143.9	143.9	143.9
40°	138.5	138.5	138.0	138.0	138.0
42.5°	133.1	132.6	132.6	132.0	132.0
45°	126.6	126.6	126.1	126.1	126.1
47.5°	120.7	120.1	120.1	120.1	119.6
50°	114.2	113.6	113.1	113.1	113.6
52.5°	106.6	106.6	106.0	106.0	106.0
55°	99.6	99.0	99.0	99.0	99.0
57.5°	92.5	91.4	91.4	92.0	91.4
60°	84.4	83.9	83.9	83.9	83.9
62.5°	77.4	76.3	76.3	76.3	76.3
65°	68.7	68.7	68.2	68.2	68.7
67.5°	60.6	60.6	60.1	60.6	60.6
70°	52.5	51.9	52.5	52.5	53.0
72.5°	43.8	44.4	44.4	44.4	44.9
75°	35.7	35.7	36.3	36.8	37.3
77.5°	27.6	28.1	29.2	29.8	30.3
80°	20.0	21.1	22.2	23.3	23.3
82.5°	13.0	14.1	16.2	17.9	17.9
85°	7.0	8.7	10.8	10.8	11.4
87.5°	2.7	4.3	6.0	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)