

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: P412223

Luminaire Tested: **MRI-2ASR-8-250-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412223
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-L950-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 45.8 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

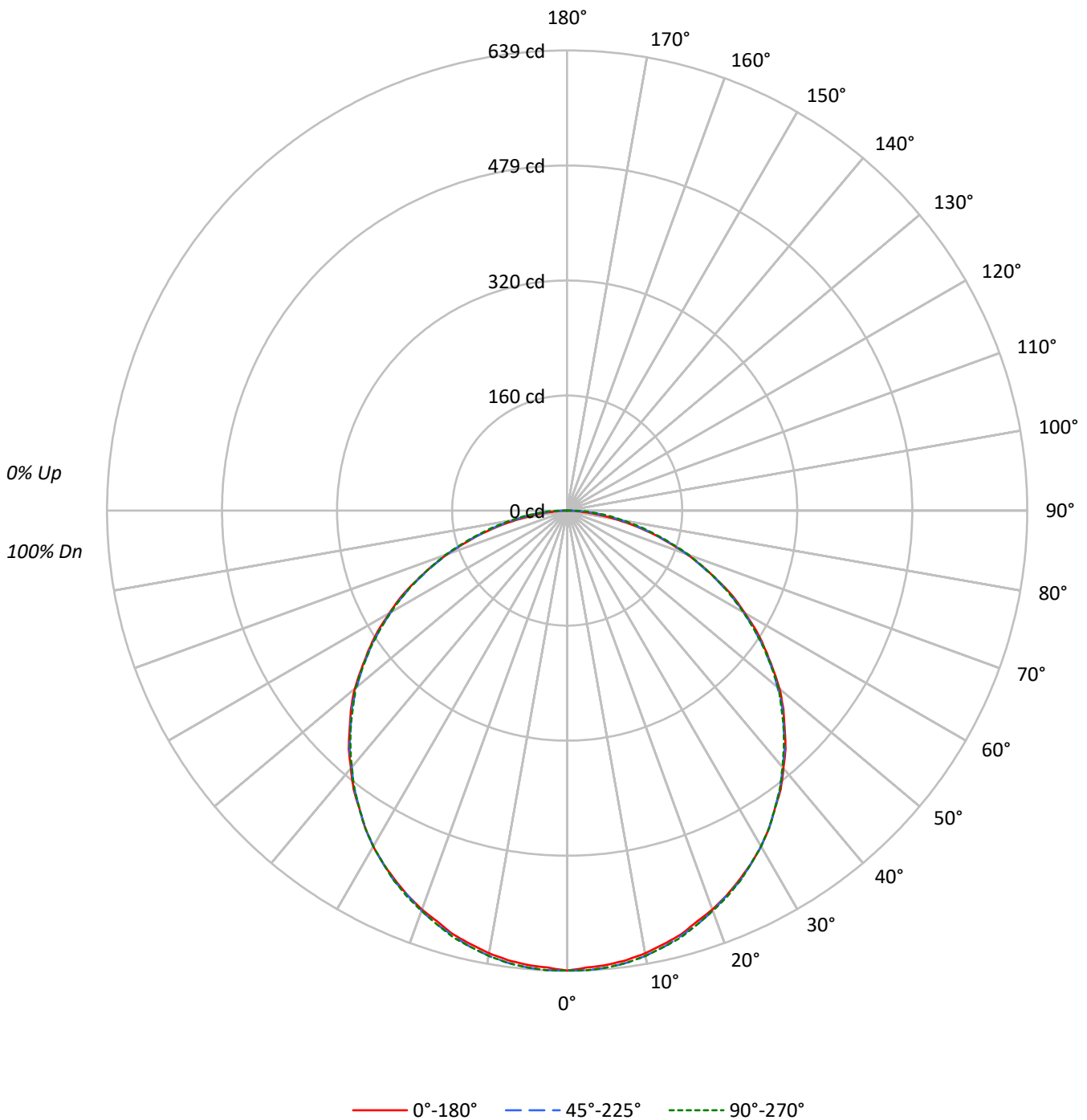
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5157	5157	5157
5°	5132	5161	5161
10°	5117	5146	5146
15°	5095	5110	5125
20°	5064	5080	5080
25°	5040	5056	5056
30°	5019	5019	5019
35°	4964	4964	4964
40°	4924	4905	4905
45°	4876	4854	4854
50°	4837	4790	4814
55°	4726	4701	4701
60°	4597	4568	4568
65°	4428	4393	4428
70°	4178	4178	4223
75°	3759	3815	3927
80°	3138	3477	3649
85°	2195	3381	3548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.3
10°-20°	172.6	9.4
20°-30°	261.3	14.2
30°-40°	315.5	17.2
40°-50°	328.7	17.9
50°-60°	298.5	16.3
60°-70°	228.3	12.4
70°-80°	130.7	7.1
80°-90°	39.1	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°	494.3	26.9
0°-40°	809.8	44.1
0°-60°	1437.0	78.3
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	633	635	637	637	637	60
15°	610	611	611	613	613	172
25°	566	566	568	568	568	261
35°	504	506	504	504	504	316
45°	427	427	425	425	425	330
55°	336	334	334	334	334	300
65°	232	232	230	230	232	230
75°	120	120	122	124	126	127
85°	24	29	36	36	38	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.8	638.8	638.8	638.8	638.8
2.5°	635.1	636.9	638.8	640.6	638.8
5°	633.3	635.1	636.9	636.9	636.9
7.5°	629.6	631.5	633.3	633.3	633.3
10°	624.2	626.0	627.8	627.8	627.8
12.5°	616.9	618.7	620.5	620.5	620.5
15°	609.6	611.4	611.4	613.2	613.2
17.5°	598.6	602.3	602.3	604.1	602.3
20°	589.5	591.3	591.3	591.3	591.3
22.5°	578.5	580.4	578.5	580.4	580.4
25°	565.8	565.8	567.6	567.6	567.6
27.5°	553.0	553.0	553.0	553.0	553.0
30°	538.4	538.4	538.4	538.4	538.4
32.5°	522.0	522.0	522.0	522.0	522.0
35°	503.7	505.5	503.7	503.7	503.7
37.5°	487.3	487.3	485.5	485.5	485.5
40°	467.2	467.2	465.4	465.4	465.4
42.5°	449.0	447.1	447.1	445.3	445.3
45°	427.1	427.1	425.2	425.2	425.2
47.5°	407.0	405.2	405.2	405.2	403.3
50°	385.1	383.3	381.4	381.4	383.3
52.5°	359.5	359.5	357.7	357.7	357.7
55°	335.8	334.0	334.0	334.0	334.0
57.5°	312.1	308.4	308.4	310.3	308.4
60°	284.7	282.9	282.9	282.9	282.9
62.5°	261.0	257.3	257.3	257.3	257.3
65°	231.8	231.8	230.0	230.0	231.8
67.5°	204.4	204.4	202.6	204.4	204.4
70°	177.0	175.2	177.0	177.0	178.9
72.5°	147.8	149.7	149.7	149.7	151.5
75°	120.5	120.5	122.3	124.1	125.9
77.5°	93.1	94.9	98.6	100.4	102.2
80°	67.5	71.2	74.8	78.5	78.5
82.5°	43.8	47.5	54.8	60.2	60.2
85°	23.7	29.2	36.5	36.5	38.3
87.5°	9.1	14.6	20.1	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)