

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: P412219

Luminaire Tested: **MRI-2ASR-8-250-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412219
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-L935-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.0 lumens
Efficiency: N/A
Efficacy: 42.7 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

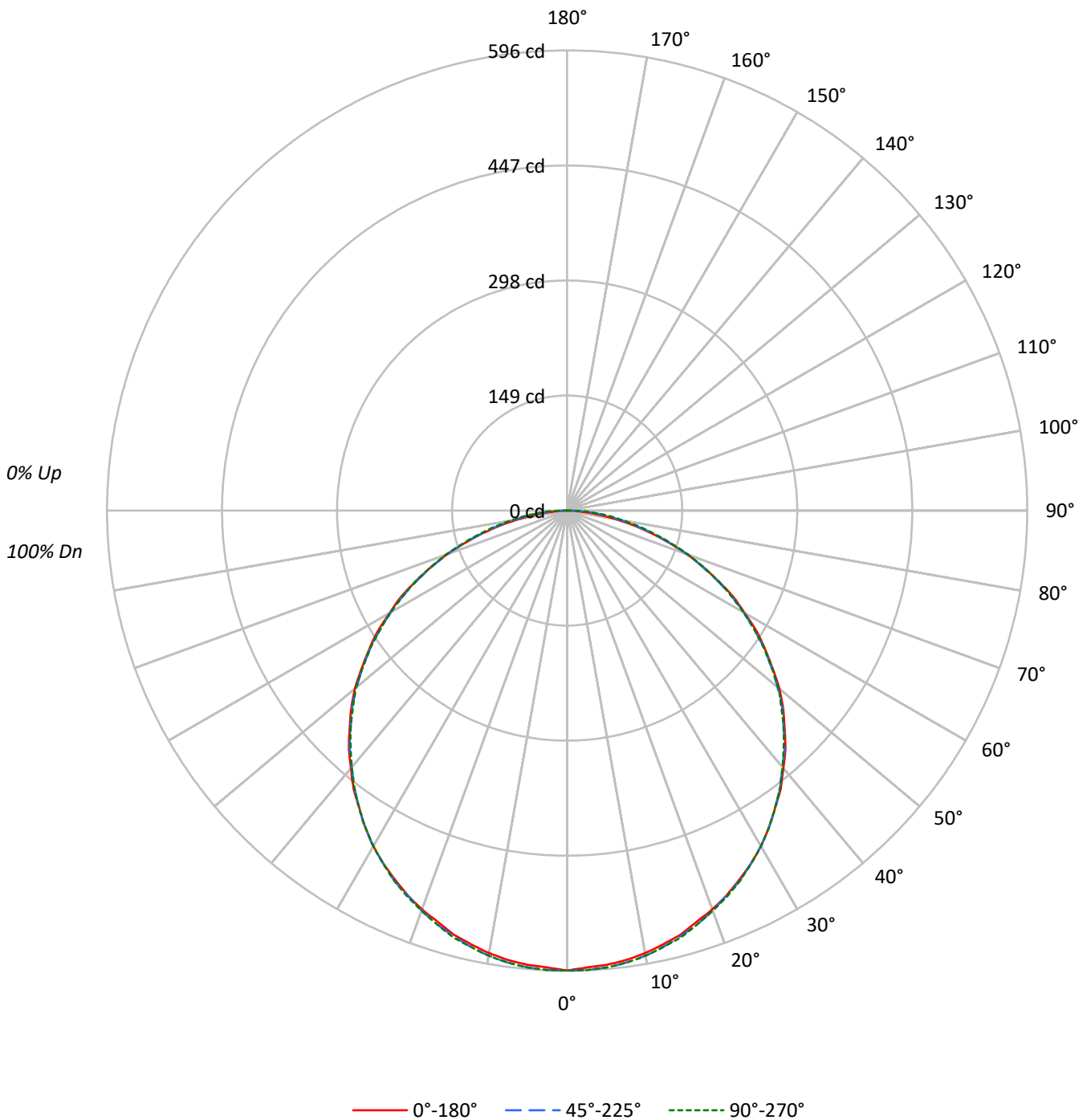
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	58	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°	4808	4808	4808
5°	4785	4813	4813
10°	4771	4799	4799
15°	4751	4765	4779
20°	4722	4737	4737
25°	4699	4714	4714
30°	4680	4680	4680
35°	4629	4629	4629
40°	4591	4573	4573
45°	4546	4527	4527
50°	4510	4467	4489
55°	4407	4383	4383
60°	4287	4259	4259
65°	4128	4096	4128
70°	3897	3897	3937
75°	3503	3556	3662
80°	2929	3245	3403
85°	2047	3149	3307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	3.3
10°-20°	160.9	9.4
20°-30°	243.6	14.2
30°-40°	294.2	17.2
40°-50°	306.5	17.9
50°-60°	278.4	16.3
60°-70°	212.8	12.4
70°-80°	121.8	7.1
80°-90°	36.4	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°	460.9	26.9
0°-40°	755.1	44.1
0°-60°	1339.9	78.3
0°-90°	1711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	590	592	594	594	594	56
15°	568	570	570	572	572	160
25°	528	528	529	529	529	243
35°	470	471	470	470	470	294
45°	398	398	396	396	396	308
55°	313	311	311	311	311	280
65°	216	216	214	214	216	214
75°	112	112	114	116	117	119
85°	22	27	34	34	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.6	595.6	595.6	595.6	595.6
2.5°	592.2	593.9	595.6	597.3	595.6
5°	590.5	592.2	593.9	593.9	593.9
7.5°	587.1	588.8	590.5	590.5	590.5
10°	582.0	583.7	585.4	585.4	585.4
12.5°	575.2	576.9	578.6	578.6	578.6
15°	568.4	570.1	570.1	571.8	571.8
17.5°	558.2	561.6	561.6	563.3	561.6
20°	549.7	551.4	551.4	551.4	551.4
22.5°	539.4	541.1	539.4	541.1	541.1
25°	527.5	527.5	529.2	529.2	529.2
27.5°	515.6	515.6	515.6	515.6	515.6
30°	502.0	502.0	502.0	502.0	502.0
32.5°	486.7	486.7	486.7	486.7	486.7
35°	469.7	471.4	469.7	469.7	469.7
37.5°	454.4	454.4	452.7	452.7	452.7
40°	435.6	435.6	433.9	433.9	433.9
42.5°	418.6	416.9	416.9	415.2	415.2
45°	398.2	398.2	396.5	396.5	396.5
47.5°	379.5	377.8	377.8	377.8	376.1
50°	359.1	357.4	355.7	355.7	357.4
52.5°	335.2	335.2	333.5	333.5	333.5
55°	313.1	311.4	311.4	311.4	311.4
57.5°	291.0	287.6	287.6	289.3	287.6
60°	265.5	263.8	263.8	263.8	263.8
62.5°	243.3	239.9	239.9	239.9	239.9
65°	216.1	216.1	214.4	214.4	216.1
67.5°	190.6	190.6	188.9	190.6	190.6
70°	165.1	163.4	165.1	165.1	166.8
72.5°	137.8	139.5	139.5	139.5	141.2
75°	112.3	112.3	114.0	115.7	117.4
77.5°	86.8	88.5	91.9	93.6	95.3
80°	63.0	66.4	69.8	73.2	73.2
82.5°	40.8	44.2	51.1	56.2	56.2
85°	22.1	27.2	34.0	34.0	35.7
87.5°	8.5	13.6	18.7	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)