

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: P412069

Luminaire Tested: **MRI-2ASR-2-250-L835-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412069
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-L835-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 45.6 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

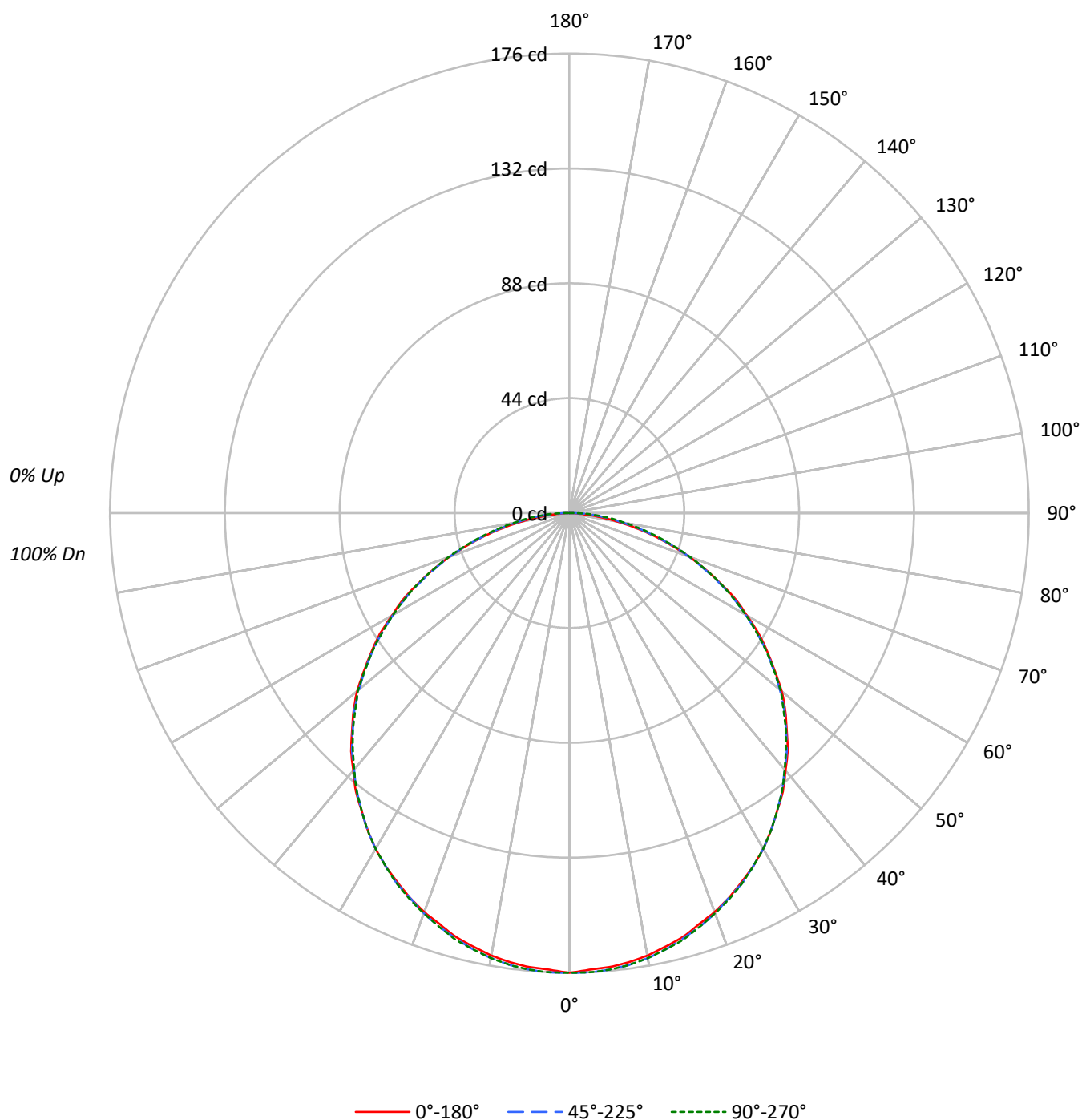
Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	57	52		62	56	52
5	75	62	53	47	73	61	53	46		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		49	41	35		47	40	35		46	40	35
8	60	46	38	32	59	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5687	5687	5687
5°	5660	5692	5692
10°	5643	5676	5676
15°	5620	5636	5653
20°	5588	5605	5605
25°	5558	5576	5576
30°	5537	5537	5537
35°	5476	5476	5476
40°	5429	5408	5408
45°	5380	5357	5357
50°	5335	5285	5310
55°	5213	5185	5185
60°	5070	5038	5038
65°	4883	4844	4883
70°	4607	4607	4655
75°	4142	4205	4329
80°	3459	3831	4017
85°	2408	3742	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	3.3
10°-20°	47.6	9.4
20°-30°	72.1	14.2
30°-40°	87.0	17.2
40°-50°	90.6	17.9
50°-60°	82.3	16.3
60°-70°	63.0	12.4
70°-80°	36.0	7.1
80°-90°	10.8	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°	136.3	26.9
0°-40°	223.3	44.1
0°-60°	396.3	78.3
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	176	176	176	176	176	
5°	175	175	176	176	176	17
15°	168	169	169	169	169	47
25°	156	156	156	156	156	72
35°	139	139	139	139	139	87
45°	118	118	117	117	117	91
55°	93	92	92	92	92	83
65°	64	64	63	63	64	63
75°	33	33	34	34	35	35
85°	6	8	10	10	11	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	176.1	176.1	176.1	176.1	176.1
2.5°	175.1	175.6	176.1	176.6	176.1
5°	174.6	175.1	175.6	175.6	175.6
7.5°	173.6	174.1	174.6	174.6	174.6
10°	172.1	172.6	173.1	173.1	173.1
12.5°	170.1	170.6	171.1	171.1	171.1
15°	168.1	168.6	168.6	169.1	169.1
17.5°	165.1	166.1	166.1	166.6	166.1
20°	162.6	163.1	163.1	163.1	163.1
22.5°	159.5	160.0	159.5	160.0	160.0
25°	156.0	156.0	156.5	156.5	156.5
27.5°	152.5	152.5	152.5	152.5	152.5
30°	148.5	148.5	148.5	148.5	148.5
32.5°	143.9	143.9	143.9	143.9	143.9
35°	138.9	139.4	138.9	138.9	138.9
37.5°	134.4	134.4	133.9	133.9	133.9
40°	128.8	128.8	128.3	128.3	128.3
42.5°	123.8	123.3	123.3	122.8	122.8
45°	117.8	117.8	117.3	117.3	117.3
47.5°	112.2	111.7	111.7	111.7	111.2
50°	106.2	105.7	105.2	105.2	105.7
52.5°	99.1	99.1	98.6	98.6	98.6
55°	92.6	92.1	92.1	92.1	92.1
57.5°	86.1	85.0	85.0	85.6	85.0
60°	78.5	78.0	78.0	78.0	78.0
62.5°	72.0	71.0	71.0	71.0	71.0
65°	63.9	63.9	63.4	63.4	63.9
67.5°	56.4	56.4	55.9	56.4	56.4
70°	48.8	48.3	48.8	48.8	49.3
72.5°	40.8	41.3	41.3	41.3	41.8
75°	33.2	33.2	33.7	34.2	34.7
77.5°	25.7	26.2	27.2	27.7	28.2
80°	18.6	19.6	20.6	21.6	21.6
82.5°	12.1	13.1	15.1	16.6	16.6
85°	6.5	8.1	10.1	10.1	10.6
87.5°	2.5	4.0	5.5	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)