

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: P412087

Luminaire Tested: **MRI-2ASR-2-500-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412087
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-2-500-L935-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 851.0 lumens
Efficiency: N/A
Efficacy: 39.8 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

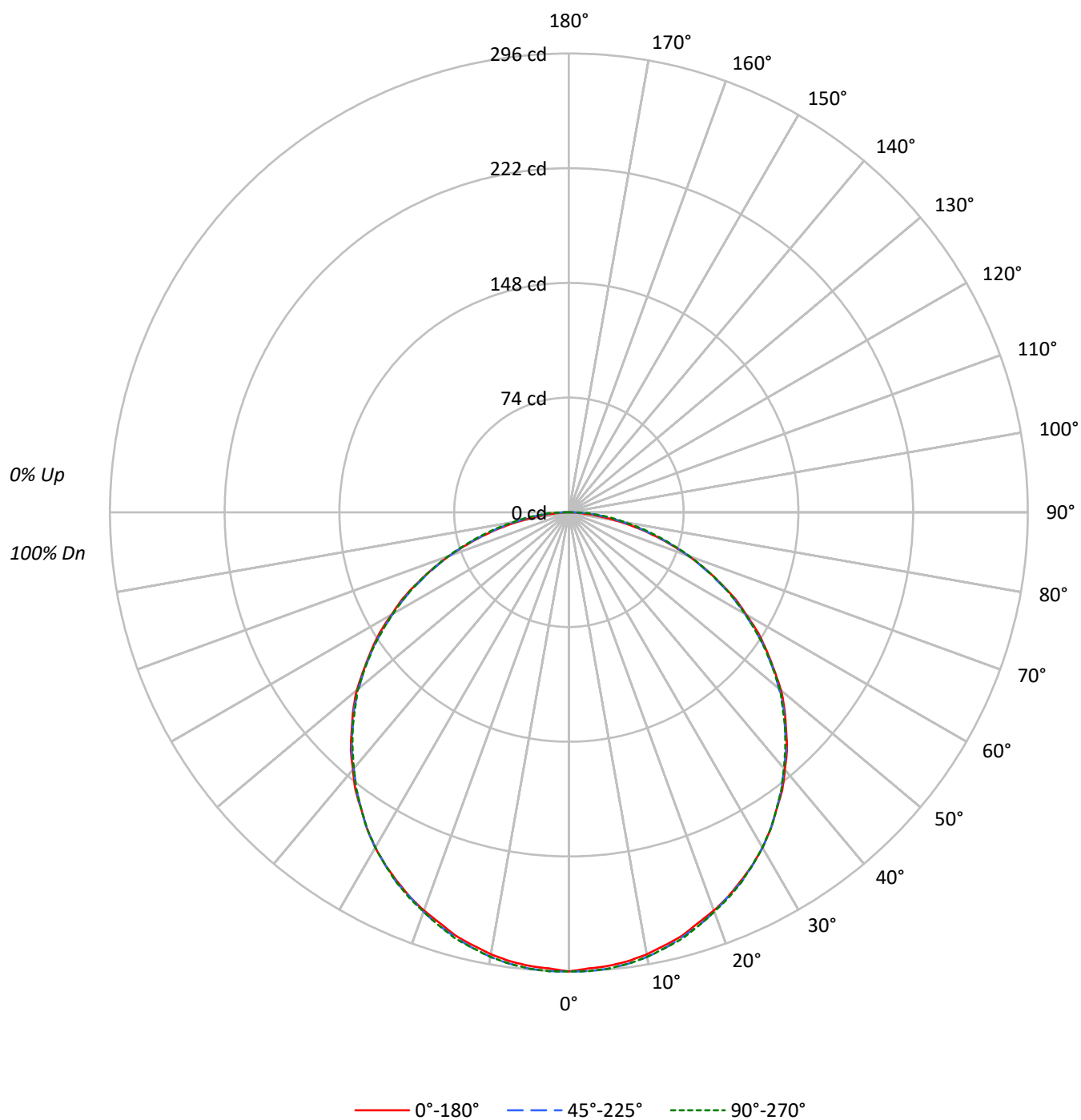
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	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°	9565	9565	9565
5°	9520	9575	9575
10°	9493	9548	9548
15°	9451	9478	9508
20°	9395	9423	9423
25°	9349	9378	9378
30°	9311	9311	9311
35°	9209	9209	9209
40°	9135	9097	9097
45°	9047	9006	9006
50°	8972	8887	8927
55°	8766	8721	8721
60°	8525	8473	8473
65°	8214	8145	8214
70°	7751	7751	7827
75°	6974	7074	7286
80°	5821	6453	6769
85°	4076	6262	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	3.3
10°-20°	80.0	9.4
20°-30°	121.2	14.2
30°-40°	146.3	17.2
40°-50°	152.4	17.9
50°-60°	138.4	16.3
60°-70°	105.8	12.4
70°-80°	60.6	7.1
80°-90°	18.1	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°	229.2	26.9
0°-40°	375.6	44.1
0°-60°	666.4	78.3
0°-90°	851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	294	294	295	295	295	28
15°	283	284	284	284	284	80
25°	262	262	263	263	263	121
35°	234	234	234	234	234	146
45°	198	198	197	197	197	153
55°	156	155	155	155	155	139
65°	108	108	107	107	108	106
75°	56	56	57	58	58	59
85°	11	14	17	17	18	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	296.2	296.2	296.2	296.2	296.2
2.5°	294.5	295.4	296.2	297.1	296.2
5°	293.7	294.5	295.4	295.4	295.4
7.5°	292.0	292.8	293.7	293.7	293.7
10°	289.5	290.3	291.2	291.2	291.2
12.5°	286.1	286.9	287.8	287.8	287.8
15°	282.7	283.5	283.5	284.4	284.4
17.5°	277.6	279.3	279.3	280.2	279.3
20°	273.4	274.2	274.2	274.2	274.2
22.5°	268.3	269.1	268.3	269.1	269.1
25°	262.4	262.4	263.2	263.2	263.2
27.5°	256.5	256.5	256.5	256.5	256.5
30°	249.7	249.7	249.7	249.7	249.7
32.5°	242.1	242.1	242.1	242.1	242.1
35°	233.6	234.4	233.6	233.6	233.6
37.5°	226.0	226.0	225.1	225.1	225.1
40°	216.7	216.7	215.8	215.8	215.8
42.5°	208.2	207.4	207.4	206.5	206.5
45°	198.1	198.1	197.2	197.2	197.2
47.5°	188.7	187.9	187.9	187.9	187.1
50°	178.6	177.7	176.9	176.9	177.7
52.5°	166.7	166.7	165.9	165.9	165.9
55°	155.7	154.9	154.9	154.9	154.9
57.5°	144.7	143.0	143.0	143.9	143.0
60°	132.0	131.2	131.2	131.2	131.2
62.5°	121.0	119.3	119.3	119.3	119.3
65°	107.5	107.5	106.6	106.6	107.5
67.5°	94.8	94.8	93.9	94.8	94.8
70°	82.1	81.3	82.1	82.1	82.9
72.5°	68.6	69.4	69.4	69.4	70.2
75°	55.9	55.9	56.7	57.6	58.4
77.5°	43.2	44.0	45.7	46.6	47.4
80°	31.3	33.0	34.7	36.4	36.4
82.5°	20.3	22.0	25.4	27.9	27.9
85°	11.0	13.5	16.9	16.9	17.8
87.5°	4.2	6.8	9.3	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)