

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: P412083

Luminaire Tested: **MRI-2ASR-2-500-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412083
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-L840-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 47.0 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

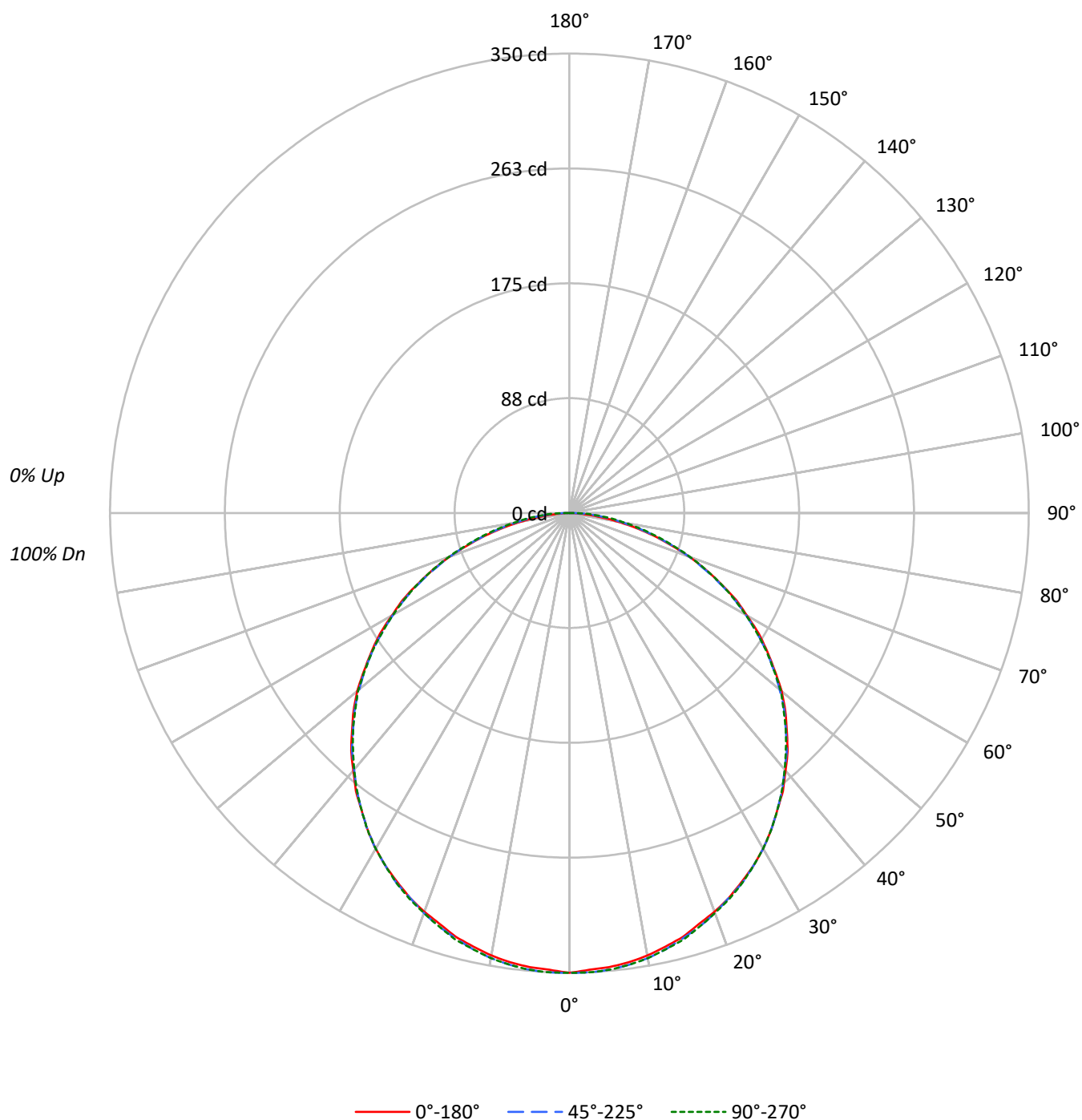
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11309	11309	11309
5°	11254	11319	11319
10°	11221	11286	11286
15°	11173	11206	11239
20°	11106	11141	11141
25°	11052	11088	11088
30°	11007	11007	11007
35°	10884	10884	10884
40°	10796	10753	10753
45°	10691	10645	10645
50°	10605	10505	10555
55°	10365	10308	10308
60°	10081	10017	10017
65°	9712	9635	9712
70°	9168	9168	9262
75°	8235	8359	8609
80°	6881	7624	7996
85°	4817	7410	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	3.3
10°-20°	94.6	9.4
20°-30°	143.3	14.2
30°-40°	173.0	17.2
40°-50°	180.2	17.9
50°-60°	163.7	16.3
60°-70°	125.2	12.4
70°-80°	71.6	7.1
80°-90°	21.4	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°	271.0	26.9
0°-40°	444.0	44.1
0°-60°	787.8	78.3
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	347	348	349	349	349	33
15°	334	335	335	336	336	94
25°	310	310	311	311	311	143
35°	276	277	276	276	276	173
45°	234	234	233	233	233	181
55°	184	183	183	183	183	165
65°	127	127	126	126	127	126
75°	66	66	67	68	69	70
85°	13	16	20	20	21	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	350.2	350.2	350.2	350.2	350.2
2.5°	348.2	349.2	350.2	351.2	350.2
5°	347.2	348.2	349.2	349.2	349.2
7.5°	345.2	346.2	347.2	347.2	347.2
10°	342.2	343.2	344.2	344.2	344.2
12.5°	338.2	339.2	340.2	340.2	340.2
15°	334.2	335.2	335.2	336.2	336.2
17.5°	328.2	330.2	330.2	331.2	330.2
20°	323.2	324.2	324.2	324.2	324.2
22.5°	317.2	318.2	317.2	318.2	318.2
25°	310.2	310.2	311.2	311.2	311.2
27.5°	303.2	303.2	303.2	303.2	303.2
30°	295.2	295.2	295.2	295.2	295.2
32.5°	286.2	286.2	286.2	286.2	286.2
35°	276.1	277.1	276.1	276.1	276.1
37.5°	267.1	267.1	266.1	266.1	266.1
40°	256.1	256.1	255.1	255.1	255.1
42.5°	246.1	245.1	245.1	244.1	244.1
45°	234.1	234.1	233.1	233.1	233.1
47.5°	223.1	222.1	222.1	222.1	221.1
50°	211.1	210.1	209.1	209.1	210.1
52.5°	197.1	197.1	196.1	196.1	196.1
55°	184.1	183.1	183.1	183.1	183.1
57.5°	171.1	169.1	169.1	170.1	169.1
60°	156.1	155.1	155.1	155.1	155.1
62.5°	143.1	141.1	141.1	141.1	141.1
65°	127.1	127.1	126.1	126.1	127.1
67.5°	112.1	112.1	111.1	112.1	112.1
70°	97.1	96.1	97.1	97.1	98.1
72.5°	81.0	82.0	82.0	82.0	83.0
75°	66.0	66.0	67.0	68.0	69.0
77.5°	51.0	52.0	54.0	55.0	56.0
80°	37.0	39.0	41.0	43.0	43.0
82.5°	24.0	26.0	30.0	33.0	33.0
85°	13.0	16.0	20.0	20.0	21.0
87.5°	5.0	8.0	11.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)