

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: P412085

Luminaire Tested: **MRI-2ASR-2-500-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412085
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-L850-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

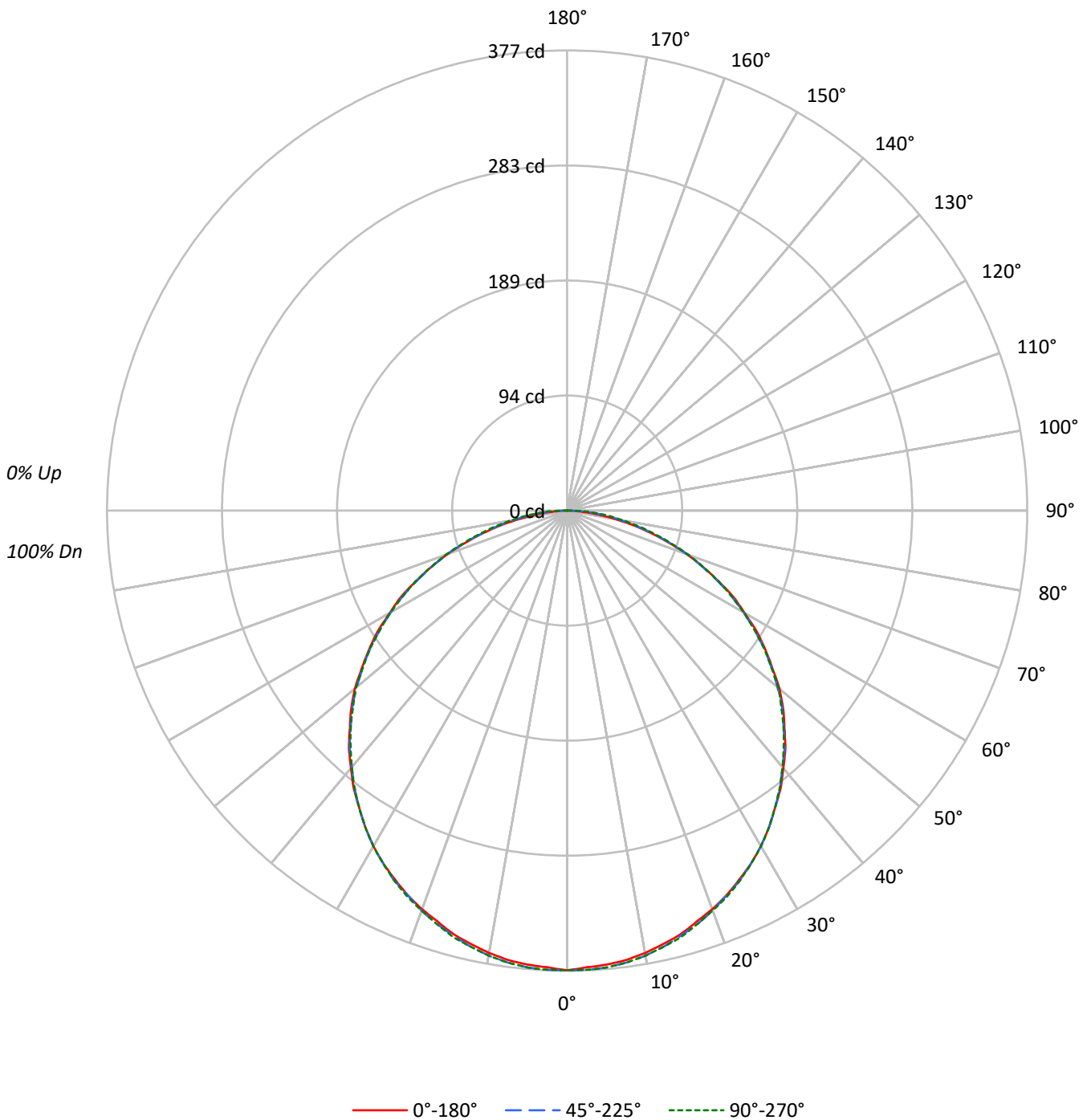
Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.4
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	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°	12161	12161	12161
5°	12104	12175	12175
10°	12067	12139	12139
15°	12015	12052	12089
20°	11945	11983	11983
25°	11886	11925	11925
30°	11839	11839	11839
35°	11708	11708	11708
40°	11613	11567	11567
45°	11499	11449	11449
50°	11409	11298	11354
55°	11147	11085	11085
60°	10844	10773	10773
65°	10445	10361	10445
70°	9857	9857	9961
75°	8858	8996	9270
80°	7401	8201	8610
85°	5187	7966	8373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	3.3
10°-20°	101.8	9.4
20°-30°	154.1	14.2
30°-40°	186.0	17.2
40°-50°	193.8	17.9
50°-60°	176.0	16.3
60°-70°	134.6	12.4
70°-80°	77.1	7.1
80°-90°	23.0	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°	291.5	26.9
0°-40°	477.5	44.1
0°-60°	847.3	78.3
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	373	374	376	376	376	35
15°	359	360	360	362	362	101
25°	334	334	335	335	335	154
35°	297	298	297	297	297	186
45°	252	252	251	251	251	195
55°	198	197	197	197	197	177
65°	137	137	136	136	137	135
75°	71	71	72	73	74	75
85°	14	17	22	22	23	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	376.6	376.6	376.6	376.6	376.6
2.5°	374.5	375.6	376.6	377.7	376.6
5°	373.4	374.5	375.6	375.6	375.6
7.5°	371.3	372.3	373.4	373.4	373.4
10°	368.0	369.1	370.2	370.2	370.2
12.5°	363.7	364.8	365.9	365.9	365.9
15°	359.4	360.5	360.5	361.6	361.6
17.5°	353.0	355.1	355.1	356.2	355.1
20°	347.6	348.7	348.7	348.7	348.7
22.5°	341.1	342.2	341.1	342.2	342.2
25°	333.6	333.6	334.7	334.7	334.7
27.5°	326.1	326.1	326.1	326.1	326.1
30°	317.5	317.5	317.5	317.5	317.5
32.5°	307.8	307.8	307.8	307.8	307.8
35°	297.0	298.1	297.0	297.0	297.0
37.5°	287.3	287.3	286.2	286.2	286.2
40°	275.5	275.5	274.4	274.4	274.4
42.5°	264.7	263.7	263.7	262.6	262.6
45°	251.8	251.8	250.7	250.7	250.7
47.5°	240.0	238.9	238.9	238.9	237.8
50°	227.1	226.0	224.9	224.9	226.0
52.5°	212.0	212.0	210.9	210.9	210.9
55°	198.0	196.9	196.9	196.9	196.9
57.5°	184.0	181.9	181.9	182.9	181.9
60°	167.9	166.8	166.8	166.8	166.8
62.5°	153.9	151.7	151.7	151.7	151.7
65°	136.7	136.7	135.6	135.6	136.7
67.5°	120.5	120.5	119.5	120.5	120.5
70°	104.4	103.3	104.4	104.4	105.5
72.5°	87.2	88.2	88.2	88.2	89.3
75°	71.0	71.0	72.1	73.2	74.3
77.5°	54.9	56.0	58.1	59.2	60.3
80°	39.8	42.0	44.1	46.3	46.3
82.5°	25.8	28.0	32.3	35.5	35.5
85°	14.0	17.2	21.5	21.5	22.6
87.5°	5.4	8.6	11.8	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)