

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: P412229

Luminaire Tested: **MRI-2ASR-8-500-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412229
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-8-500-L850-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4379.0 lumens
Efficiency: N/A
Efficacy: 50.2 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

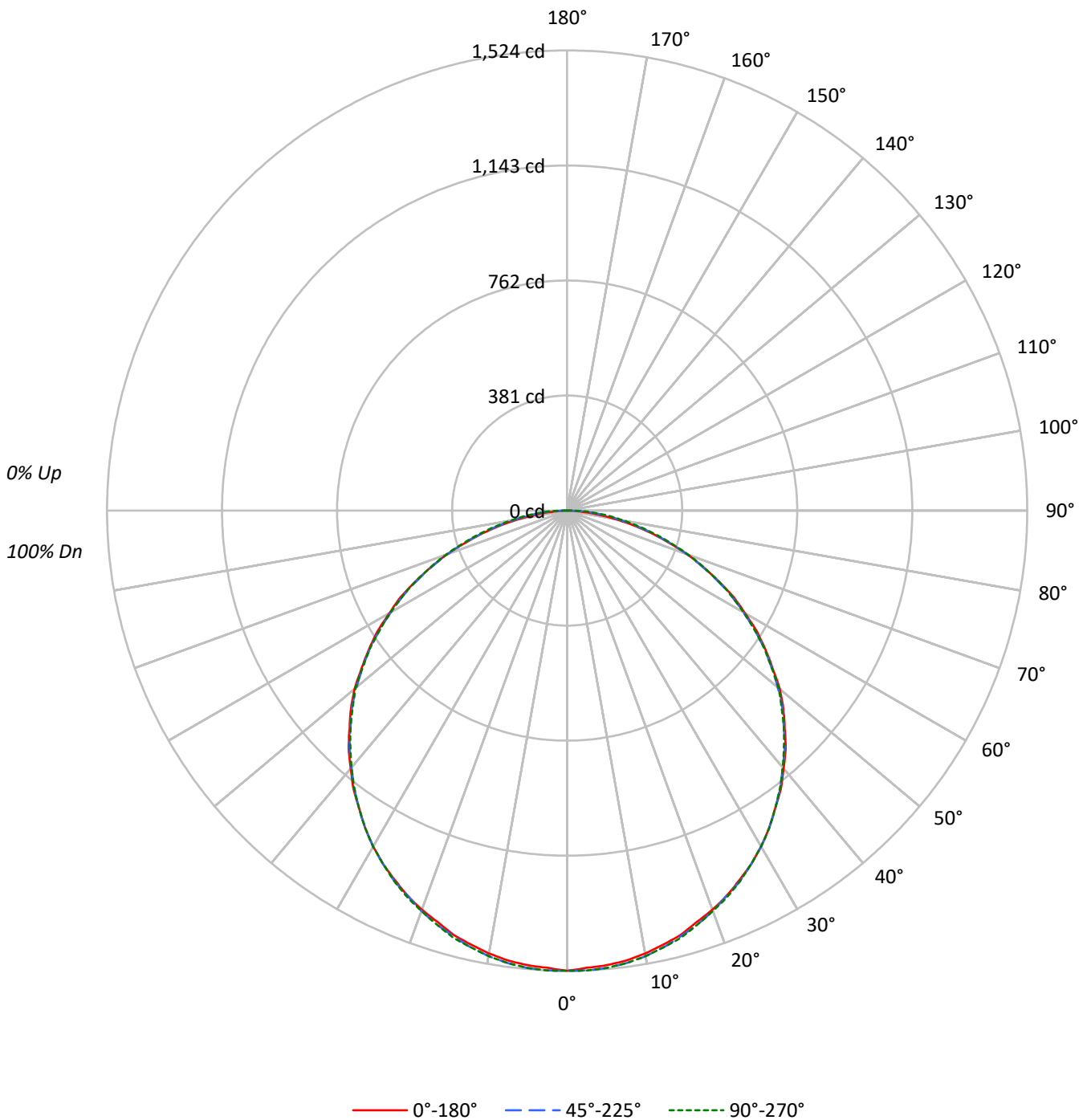
Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12306	12306	12306
5°	12247	12318	12318
10°	12210	12281	12281
15°	12157	12194	12231
20°	12085	12123	12123
25°	12026	12065	12065
30°	11977	11977	11977
35°	11846	11846	11846
40°	11749	11704	11704
45°	11635	11586	11586
50°	11542	11431	11487
55°	11279	11218	11218
60°	10969	10900	10900
65°	10565	10483	10565
70°	9973	9973	10074
75°	8964	9102	9373
80°	7490	8303	8708
85°	5243	8068	8475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.3
10°-20°	411.9	9.4
20°-30°	623.6	14.2
30°-40°	752.9	17.2
40°-50°	784.3	17.9
50°-60°	712.4	16.3
60°-70°	544.7	12.4
70°-80°	311.9	7.1
80°-90°	93.2	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°	1179.6	26.9
0°-40°	1932.5	44.1
0°-60°	3429.2	78.3
0°-90°	4379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1511	1516	1520	1520	1520	144
15°	1455	1459	1459	1463	1463	410
25°	1350	1350	1354	1354	1354	623
35°	1202	1206	1202	1202	1202	753
45°	1019	1019	1015	1015	1015	788
55°	801	797	797	797	797	716
65°	553	553	549	549	553	548
75°	287	287	292	296	300	304
85°	57	70	87	87	92	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1524.3	1524.3	1524.3	1524.3	1524.3
2.5°	1515.6	1520.0	1524.3	1528.7	1524.3
5°	1511.3	1515.6	1520.0	1520.0	1520.0
7.5°	1502.6	1506.9	1511.3	1511.3	1511.3
10°	1489.5	1493.8	1498.2	1498.2	1498.2
12.5°	1472.1	1476.4	1480.8	1480.8	1480.8
15°	1454.6	1459.0	1459.0	1463.4	1463.4
17.5°	1428.5	1437.2	1437.2	1441.6	1437.2
20°	1406.7	1411.1	1411.1	1411.1	1411.1
22.5°	1380.6	1385.0	1380.6	1385.0	1385.0
25°	1350.1	1350.1	1354.5	1354.5	1354.5
27.5°	1319.6	1319.6	1319.6	1319.6	1319.6
30°	1284.8	1284.8	1284.8	1284.8	1284.8
32.5°	1245.6	1245.6	1245.6	1245.6	1245.6
35°	1202.0	1206.4	1202.0	1202.0	1202.0
37.5°	1162.8	1162.8	1158.5	1158.5	1158.5
40°	1114.9	1114.9	1110.6	1110.6	1110.6
42.5°	1071.4	1067.0	1067.0	1062.7	1062.7
45°	1019.1	1019.1	1014.8	1014.8	1014.8
47.5°	971.2	966.9	966.9	966.9	962.5
50°	919.0	914.6	910.2	910.2	914.6
52.5°	858.0	858.0	853.6	853.6	853.6
55°	801.4	797.0	797.0	797.0	797.0
57.5°	744.7	736.0	736.0	740.4	736.0
60°	679.4	675.1	675.1	675.1	675.1
62.5°	622.8	614.1	614.1	614.1	614.1
65°	553.1	553.1	548.8	548.8	553.1
67.5°	487.8	487.8	483.4	487.8	487.8
70°	422.5	418.1	422.5	422.5	426.8
72.5°	352.8	357.1	357.1	357.1	361.5
75°	287.4	287.4	291.8	296.2	300.5
77.5°	222.1	226.5	235.2	239.5	243.9
80°	161.1	169.9	178.6	187.3	187.3
82.5°	104.5	113.2	130.7	143.7	143.7
85°	56.6	69.7	87.1	87.1	91.5
87.5°	21.8	34.8	47.9	61.0	61.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)