

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: P412216

Luminaire Tested: **MRI-2ASR-8-250-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-8-250-L850-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4281.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

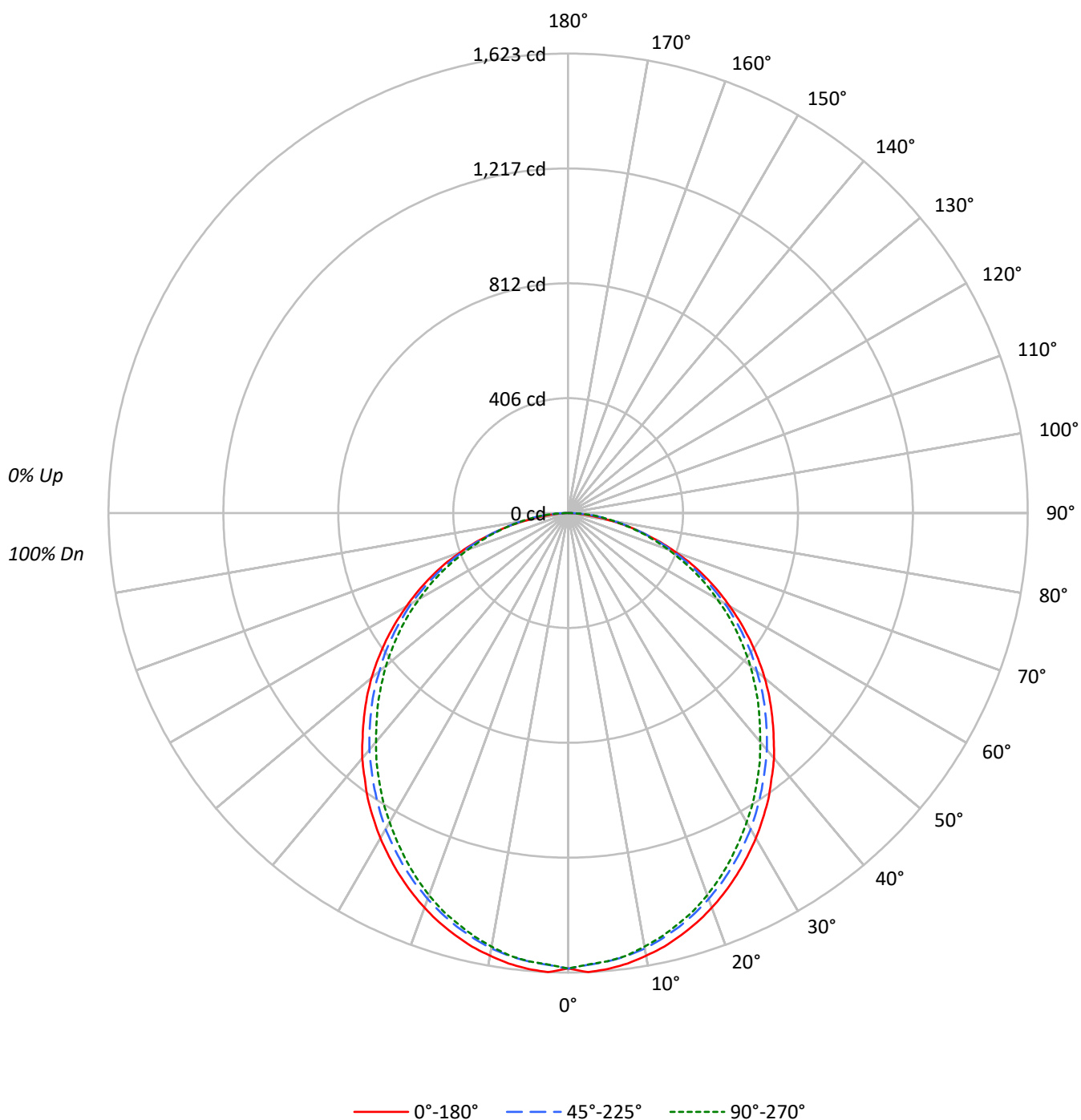
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		98	94	91		94	91	89		90	88	86
2	99	91	84	78	96	89	83	77		85	80	76		82	78	74		79	75	72
3	90	80	72	65	88	78	71	65		75	69	63		72	67	62		70	65	61
4	83	71	62	55	80	69	61	55		67	60	54		65	58	53		62	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	64	51	43	37		49	42	37		48	41	36		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	30		42	35	30		41	34	29		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12988	12988	12988
5°	13099	12886	12878
10°	13013	12802	12748
15°	12899	12644	12556
20°	12745	12461	12339
25°	12560	12242	12053
30°	12363	12013	11753
35°	12150	11741	11445
40°	11918	11501	11116
45°	11637	11226	10832
50°	11380	10922	10546
55°	11040	10648	10211
60°	10634	10306	9805
65°	10225	9847	9410
70°	9557	9269	8861
75°	8546	8562	8259
80°	7029	7689	7620
85°	4742	7327	7568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	3.5
10°-20°	428.9	10.0
20°-30°	635.8	14.9
30°-40°	747.7	17.5
40°-50°	759.5	17.7
50°-60°	675.6	15.8
60°-70°	509.5	11.9
70°-80°	289.5	6.8
80°-90°	82.9	1.9
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°	1216.4	28.4
0°-40°	1964.1	45.9
0°-60°	3399.1	79.4
0°-90°	4281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1616	1605	1590	1602	1589	153
15°	1543	1531	1513	1518	1502	435
25°	1410	1395	1374	1369	1353	650
35°	1233	1216	1191	1176	1161	770
45°	1019	1007	983	964	949	787
55°	784	776	756	735	726	701
65°	535	532	516	499	493	529
75°	274	278	274	267	265	292
85°	51	70	79	79	82	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.8	1608.8	1608.8	1608.8	1608.8
2.5°	1623.0	1611.9	1597.2	1609.3	1596.2
5°	1616.4	1605.3	1590.1	1601.7	1589.1
7.5°	1604.8	1593.6	1578.4	1589.1	1576.9
10°	1587.5	1577.4	1561.7	1570.3	1555.1
12.5°	1568.8	1555.6	1538.8	1546.4	1531.2
15°	1543.4	1531.2	1512.9	1518.5	1502.3
17.5°	1515.5	1501.3	1483.5	1486.6	1472.9
20°	1483.5	1469.3	1450.5	1451.6	1436.3
22.5°	1448.0	1434.8	1414.5	1411.0	1396.8
25°	1410.0	1395.2	1374.4	1369.4	1353.1
27.5°	1368.9	1355.2	1332.8	1324.7	1307.5
30°	1326.2	1310.0	1288.7	1276.5	1260.8
32.5°	1279.6	1264.8	1241.0	1225.8	1213.6
35°	1232.9	1216.1	1191.3	1176.1	1161.3
37.5°	1180.1	1164.4	1141.1	1125.8	1111.1
40°	1130.9	1113.7	1091.3	1072.6	1054.8
42.5°	1074.1	1061.9	1037.6	1018.8	1001.5
45°	1019.3	1006.6	983.3	963.5	948.8
47.5°	964.0	951.3	929.0	907.7	893.5
50°	906.1	892.4	869.6	850.8	839.7
52.5°	845.8	836.1	815.8	794.5	781.8
55°	784.4	776.3	756.5	735.2	725.5
57.5°	722.5	715.9	697.6	677.3	667.7
60°	658.6	655.5	638.3	619.0	607.3
62.5°	598.2	593.6	575.9	561.6	551.0
65°	535.3	531.7	515.5	499.2	492.6
67.5°	471.8	467.8	452.6	441.4	431.3
70°	404.9	404.9	392.7	382.0	375.4
72.5°	341.5	342.0	333.8	322.7	319.6
75°	274.0	278.0	274.5	266.9	264.8
77.5°	214.1	217.7	218.2	215.6	212.1
80°	151.2	161.3	165.4	164.9	163.9
82.5°	96.9	113.1	120.8	120.2	121.3
85°	51.2	70.5	79.1	79.1	81.7
87.5°	17.8	36.0	38.6	35.5	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)