

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: P412062

Luminaire Tested: **MRI-2ASR-2-1000-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412062
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-2-1000-L935-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

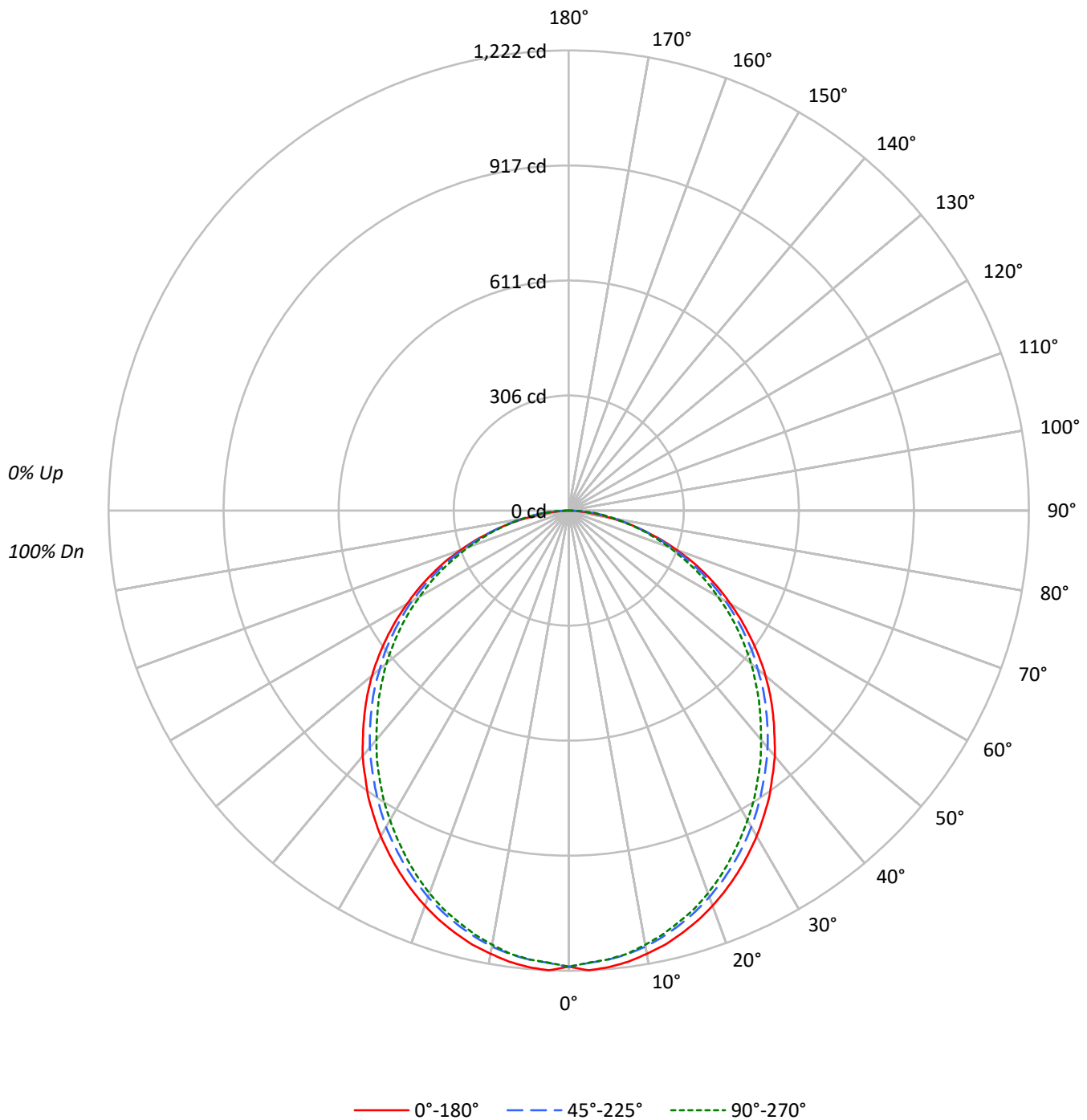
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39112	39112	39112
5°	39449	38804	38778
10°	39190	38551	38387
15°	38847	38078	37810
20°	38381	37529	37161
25°	37821	36870	36296
30°	37231	36176	35393
35°	36590	35357	34466
40°	35890	34634	33474
45°	35045	33808	32620
50°	34272	32890	31760
55°	33244	32062	30750
60°	32020	31032	29528
65°	30793	29654	28340
70°	28778	27909	26691
75°	25739	25777	24878
80°	21162	23152	22948
85°	14302	22082	22786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.5
10°-20°	322.9	10.0
20°-30°	478.6	14.9
30°-40°	562.9	17.5
40°-50°	571.8	17.7
50°-60°	508.6	15.8
60°-70°	383.6	11.9
70°-80°	217.9	6.8
80°-90°	62.4	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°	915.8	28.4
0°-40°	1478.7	45.9
0°-60°	2559.1	79.4
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1217	1209	1197	1206	1196	115
15°	1162	1153	1139	1143	1131	328
25°	1062	1050	1035	1031	1019	489
35°	928	916	897	885	874	580
45°	767	758	740	725	714	592
55°	590	584	570	554	546	528
65°	403	400	388	376	371	398
75°	206	209	207	201	199	220
85°	39	53	60	60	62	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1221.9	1213.5	1202.4	1211.6	1201.7
5°	1217.0	1208.6	1197.1	1205.9	1196.3
7.5°	1208.2	1199.8	1188.3	1196.3	1187.2
10°	1195.2	1187.5	1175.7	1182.2	1170.7
12.5°	1181.1	1171.1	1158.5	1164.2	1152.8
15°	1162.0	1152.8	1139.0	1143.2	1131.0
17.5°	1140.9	1130.3	1116.9	1119.2	1108.9
20°	1116.9	1106.2	1092.1	1092.8	1081.4
22.5°	1090.1	1080.2	1064.9	1062.3	1051.6
25°	1061.5	1050.4	1034.8	1030.9	1018.7
27.5°	1030.6	1020.2	1003.4	997.3	984.3
30°	998.5	986.3	970.2	961.0	949.2
32.5°	963.3	952.3	934.3	922.8	913.7
35°	928.2	915.6	896.9	885.4	874.3
37.5°	888.5	876.6	859.1	847.6	836.5
40°	851.4	838.4	821.6	807.5	794.1
42.5°	808.6	799.5	781.1	767.0	754.0
45°	767.4	757.8	740.3	725.4	714.3
47.5°	725.7	716.2	699.4	683.3	672.7
50°	682.2	671.9	654.7	640.6	632.2
52.5°	636.7	629.5	614.2	598.2	588.6
55°	590.5	584.4	569.5	553.5	546.2
57.5°	543.9	539.0	525.2	509.9	502.7
60°	495.8	493.5	480.5	466.0	457.2
62.5°	450.3	446.9	433.5	422.8	414.8
65°	403.0	400.3	388.1	375.9	370.9
67.5°	355.2	352.2	340.7	332.3	324.7
70°	304.8	304.8	295.6	287.6	282.7
72.5°	257.1	257.4	251.3	242.9	240.6
75°	206.3	209.3	206.6	200.9	199.4
77.5°	161.2	163.9	164.2	162.3	159.7
80°	113.8	121.5	124.5	124.1	123.4
82.5°	73.0	85.2	90.9	90.5	91.3
85°	38.6	53.1	59.6	59.6	61.5
87.5°	13.4	27.1	29.0	26.7	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)