

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: P412064

Luminaire Tested: **MRI-2ASR-2-1000-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412064
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-L940-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

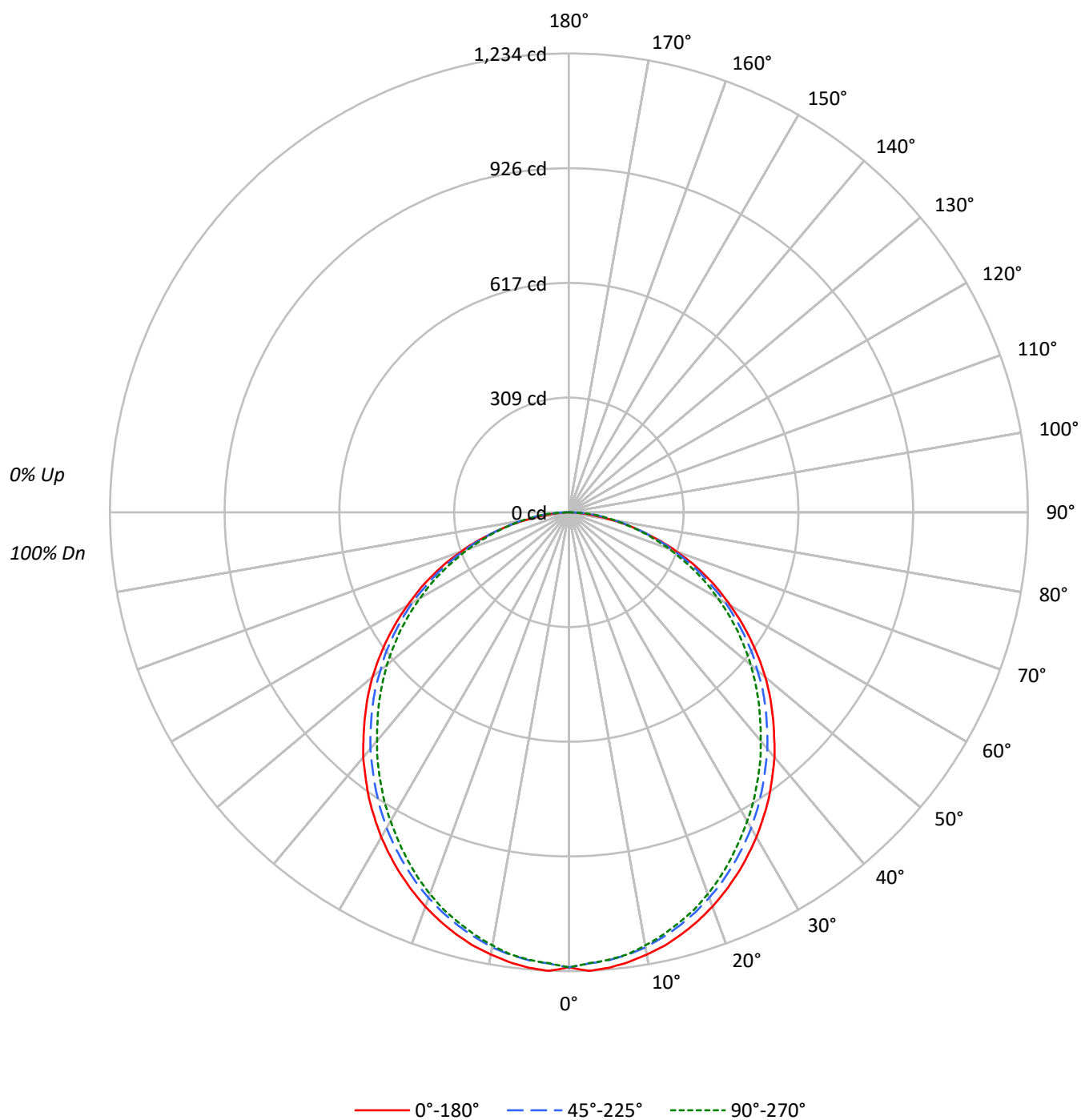
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39512	39512	39512
5°	39851	39203	39177
10°	39590	38944	38781
15°	39244	38469	38198
20°	38773	37910	37539
25°	38210	37248	36667
30°	37612	36545	35755
35°	36965	35719	34820
40°	36256	34988	33816
45°	35401	34150	32954
50°	34623	33227	32081
55°	33588	32394	31066
60°	32350	31349	29831
65°	31106	29960	28630
70°	29070	28202	26965
75°	26001	26051	25128
80°	21385	23394	23171
85°	14450	22304	23008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.5
10°-20°	326.2	10.0
20°-30°	483.5	14.9
30°-40°	568.7	17.5
40°-50°	577.6	17.7
50°-60°	513.8	15.8
60°-70°	387.5	11.9
70°-80°	220.2	6.8
80°-90°	63.1	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°	925.1	28.4
0°-40°	1493.8	45.9
0°-60°	2585.3	79.4
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1229	1221	1209	1218	1209	117
15°	1174	1165	1151	1155	1143	331
25°	1072	1061	1045	1042	1029	494
35°	938	925	906	894	883	586
45°	775	766	748	733	722	598
55°	597	590	575	559	552	533
65°	407	404	392	380	375	402
75°	208	212	209	203	201	222
85°	39	54	60	60	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.6	1223.6	1223.6	1223.6	1223.6
2.5°	1234.4	1225.9	1214.8	1224.0	1214.0
5°	1229.4	1220.9	1209.4	1218.2	1208.6
7.5°	1220.5	1212.1	1200.5	1208.6	1199.3
10°	1207.4	1199.7	1187.7	1194.3	1182.7
12.5°	1193.1	1183.1	1170.4	1176.2	1164.6
15°	1173.9	1164.6	1150.7	1154.9	1142.6
17.5°	1152.6	1141.8	1128.3	1130.6	1120.2
20°	1128.3	1117.5	1103.2	1104.0	1092.4
22.5°	1101.3	1091.3	1075.8	1073.1	1062.3
25°	1072.4	1061.2	1045.4	1041.5	1029.1
27.5°	1041.1	1030.7	1013.7	1007.5	994.4
30°	1008.7	996.3	980.1	970.9	958.9
32.5°	973.2	962.0	943.9	932.3	923.0
35°	937.7	925.0	906.1	894.5	883.3
37.5°	897.6	885.6	867.9	856.3	845.1
40°	860.1	847.0	830.0	815.8	802.2
42.5°	816.9	807.7	789.1	774.9	761.7
45°	775.2	765.6	747.8	732.8	721.6
47.5°	733.2	723.5	706.6	690.3	679.5
50°	689.2	678.8	661.4	647.1	638.6
52.5°	643.3	635.9	620.5	604.3	594.6
55°	596.6	590.4	575.4	559.1	551.8
57.5°	549.5	544.5	530.6	515.2	507.8
60°	500.9	498.6	485.4	470.8	461.9
62.5°	455.0	451.5	438.0	427.2	419.1
65°	407.1	404.4	392.1	379.7	374.7
67.5°	358.9	355.8	344.2	335.7	328.0
70°	307.9	307.9	298.7	290.6	285.6
72.5°	259.7	260.1	253.9	245.4	243.1
75°	208.4	211.5	208.8	203.0	201.4
77.5°	162.8	165.5	165.9	164.0	161.3
80°	115.0	122.7	125.8	125.4	124.6
82.5°	73.7	86.1	91.8	91.5	92.2
85°	39.0	53.6	60.2	60.2	62.1
87.5°	13.5	27.4	29.3	27.0	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)