

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: P412220

Luminaire Tested: **MRI-2ASR-8-250-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412220
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-L940-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

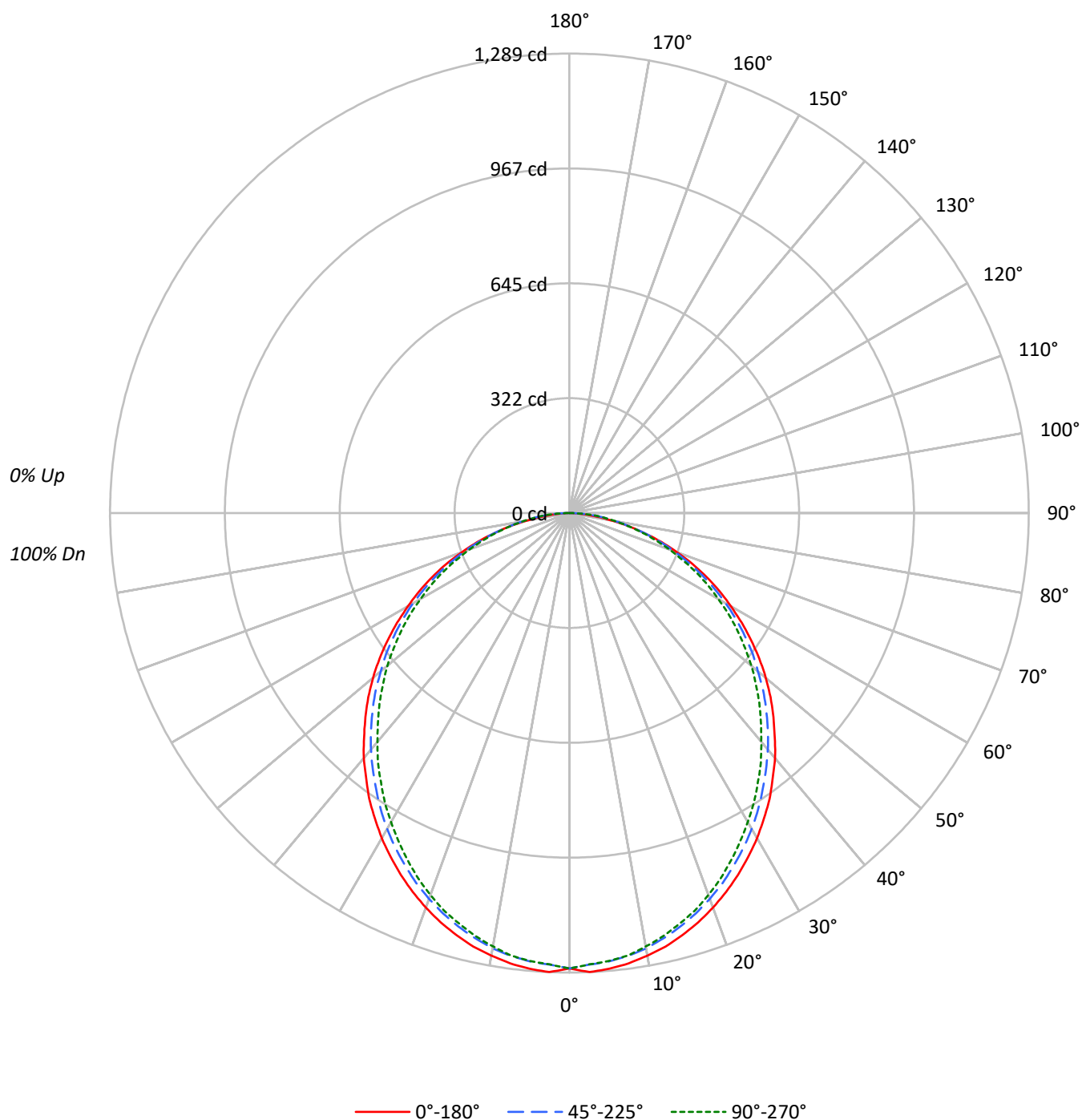
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	10312	10312	10312
5°	10400	10231	10225
10°	10333	10164	10121
15°	10242	10039	9969
20°	10119	9894	9797
25°	9972	9721	9569
30°	9816	9538	9331
35°	9647	9321	9087
40°	9462	9132	8826
45°	9240	8913	8600
50°	9036	8672	8373
55°	8766	8453	8107
60°	8443	8183	7786
65°	8118	7819	7471
70°	7589	7360	7036
75°	6784	6797	6560
80°	5579	6104	6048
85°	3770	5817	6011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.5
10°-20°	340.5	10.0
20°-30°	504.8	14.9
30°-40°	593.6	17.5
40°-50°	603.0	17.7
50°-60°	536.4	15.8
60°-70°	404.5	11.9
70°-80°	229.9	6.8
80°-90°	65.8	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°	965.8	28.4
0°-40°	1559.4	45.9
0°-60°	2698.8	79.4
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1283	1275	1262	1272	1262	122
15°	1225	1216	1201	1206	1193	346
25°	1120	1108	1091	1087	1074	516
35°	979	966	946	934	922	612
45°	809	799	781	765	753	625
55°	623	616	601	584	576	557
65°	425	422	409	396	391	420
75°	218	221	218	212	210	232
85°	41	56	63	63	65	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1288.7	1279.8	1268.1	1277.8	1267.3
5°	1283.4	1274.6	1262.5	1271.7	1261.7
7.5°	1274.2	1265.3	1253.2	1261.7	1252.0
10°	1260.5	1252.4	1239.9	1246.8	1234.7
12.5°	1245.6	1235.1	1221.8	1227.8	1215.7
15°	1225.4	1215.7	1201.2	1205.7	1192.8
17.5°	1203.3	1192.0	1177.9	1180.3	1169.4
20°	1177.9	1166.6	1151.7	1152.5	1140.4
22.5°	1149.7	1139.2	1123.1	1120.3	1109.0
25°	1119.5	1107.8	1091.3	1087.2	1074.3
27.5°	1086.8	1076.0	1058.2	1051.8	1038.1
30°	1053.0	1040.1	1023.2	1013.5	1001.0
32.5°	1015.9	1004.3	985.3	973.2	963.6
35°	978.9	965.6	945.8	933.8	922.1
37.5°	937.0	924.5	906.0	893.9	882.2
40°	897.9	884.2	866.5	851.6	837.5
42.5°	852.8	843.1	823.8	808.9	795.2
45°	809.3	799.2	780.7	765.0	753.3
47.5°	765.4	755.3	737.6	720.7	709.4
50°	719.5	708.6	690.5	675.5	666.7
52.5°	671.5	663.9	647.8	630.8	620.8
55°	622.8	616.3	600.6	583.7	576.0
57.5°	573.6	568.4	553.9	537.8	530.1
60°	522.9	520.5	506.8	491.5	482.2
62.5°	474.9	471.3	457.2	445.9	437.5
65°	425.0	422.2	409.3	396.4	391.1
67.5°	374.6	371.4	359.3	350.5	342.4
70°	321.5	321.5	311.8	303.3	298.1
72.5°	271.1	271.5	265.1	256.2	253.8
75°	217.5	220.8	217.9	211.9	210.3
77.5°	170.0	172.8	173.2	171.2	168.4
80°	120.0	128.1	131.3	130.9	130.1
82.5°	76.9	89.8	95.9	95.5	96.3
85°	40.7	56.0	62.8	62.8	64.9
87.5°	14.1	28.6	30.6	28.2	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)