

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: P412222

Luminaire Tested: **MRI-2ASR-8-250-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412222
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-L950-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3608.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

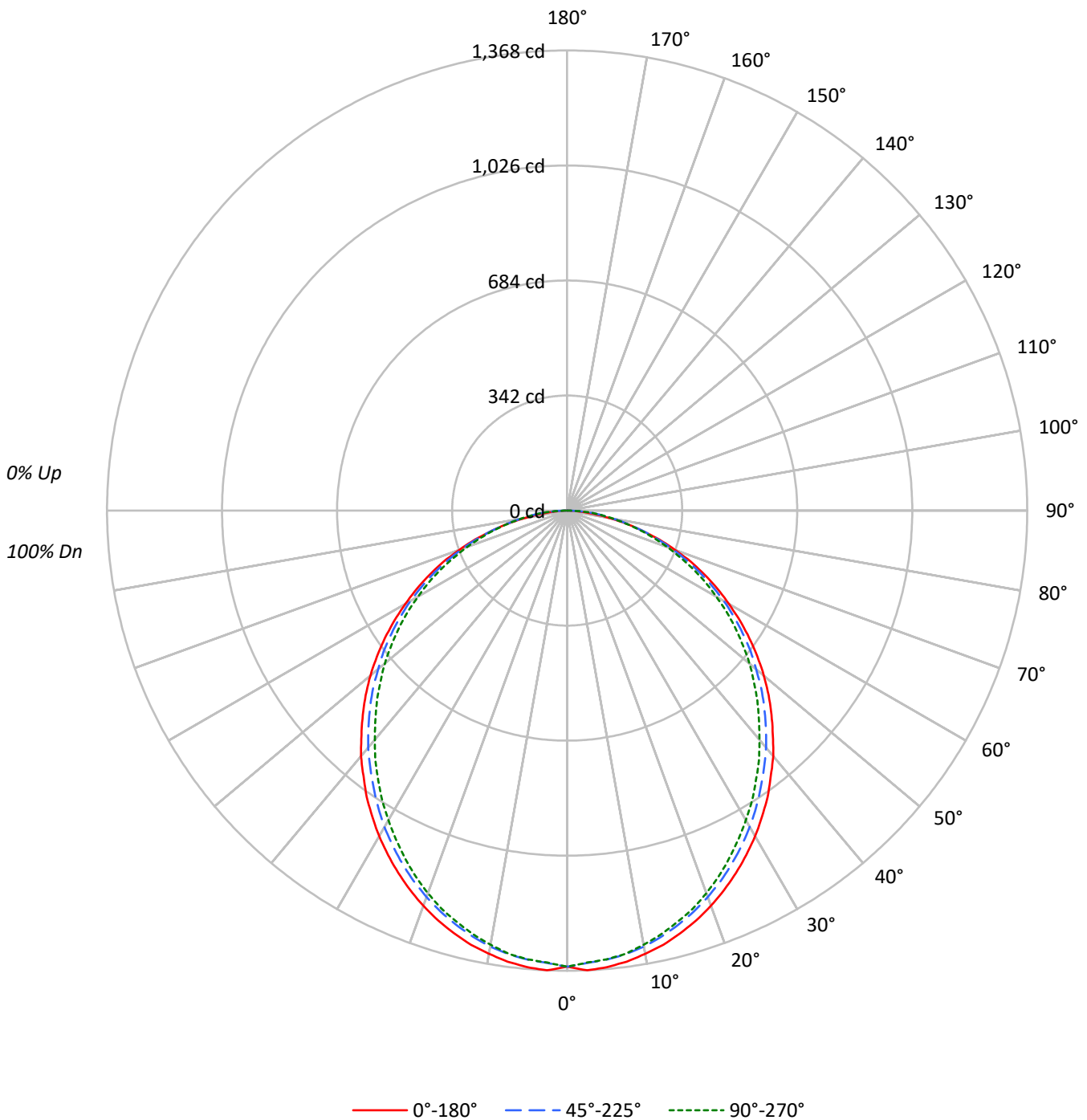
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10946	10946	10946
5°	11040	10860	10853
10°	10968	10789	10744
15°	10872	10657	10582
20°	10741	10503	10399
25°	10585	10318	10158
30°	10419	10124	9905
35°	10241	9895	9646
40°	10044	9693	9369
45°	9807	9461	9129
50°	9591	9205	8888
55°	9305	8974	8607
60°	8961	8685	8263
65°	8617	8298	7931
70°	8054	7813	7468
75°	7202	7215	6962
80°	5923	6481	6420
85°	4001	6178	6373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.5
10°-20°	361.4	10.0
20°-30°	535.8	14.9
30°-40°	630.1	17.5
40°-50°	640.0	17.7
50°-60°	569.4	15.8
60°-70°	429.4	11.9
70°-80°	244.0	6.8
80°-90°	69.9	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°	1025.2	28.4
0°-40°	1655.3	45.9
0°-60°	2864.7	79.4
0°-90°	3608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1353	1340	1350	1339	129
15°	1301	1290	1275	1280	1266	367
25°	1188	1176	1158	1154	1140	547
35°	1039	1025	1004	991	979	649
45°	859	848	829	812	800	663
55°	661	654	638	620	612	591
65°	451	448	434	421	415	446
75°	231	234	231	225	223	246
85°	43	59	67	67	69	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.9	1355.9	1355.9	1355.9	1355.9
2.5°	1367.9	1358.5	1346.1	1356.3	1345.2
5°	1362.3	1352.9	1340.1	1349.9	1339.2
7.5°	1352.5	1343.1	1330.3	1339.2	1329.0
10°	1338.0	1329.4	1316.2	1323.4	1310.6
12.5°	1322.1	1311.0	1296.9	1303.3	1290.5
15°	1300.8	1290.5	1275.1	1279.8	1266.1
17.5°	1277.2	1265.3	1250.3	1252.9	1241.3
20°	1250.3	1238.3	1222.5	1223.4	1210.5
22.5°	1220.4	1209.3	1192.1	1189.2	1177.2
25°	1188.3	1175.9	1158.4	1154.1	1140.4
27.5°	1153.7	1142.1	1123.3	1116.5	1101.9
30°	1117.7	1104.1	1086.1	1075.8	1062.6
32.5°	1078.4	1066.0	1045.9	1033.1	1022.8
35°	1039.1	1025.0	1004.0	991.2	978.8
37.5°	994.6	981.3	961.7	948.8	936.4
40°	953.1	938.6	919.8	903.9	889.0
42.5°	905.2	895.0	874.4	858.6	844.1
45°	859.0	848.4	828.7	812.0	799.6
47.5°	812.4	801.7	782.9	765.0	753.0
50°	763.7	752.1	732.9	717.1	707.7
52.5°	712.8	704.7	687.6	669.6	658.9
55°	661.1	654.2	637.6	619.6	611.5
57.5°	608.9	603.3	587.9	570.8	562.7
60°	555.0	552.5	537.9	521.7	511.8
62.5°	504.1	500.3	485.3	473.4	464.4
65°	451.1	448.1	434.4	420.8	415.2
67.5°	397.7	394.2	381.4	372.0	363.5
70°	341.2	341.2	331.0	322.0	316.4
72.5°	287.8	288.2	281.4	272.0	269.4
75°	230.9	234.3	231.3	224.9	223.2
77.5°	180.4	183.4	183.9	181.7	178.7
80°	127.4	136.0	139.4	139.0	138.1
82.5°	81.7	95.4	101.8	101.3	102.2
85°	43.2	59.4	66.7	66.7	68.8
87.5°	15.0	30.4	32.5	29.9	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)