

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: P412070

Luminaire Tested: **MRI-2ASR-2-250-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412070
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-2-250-L840-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

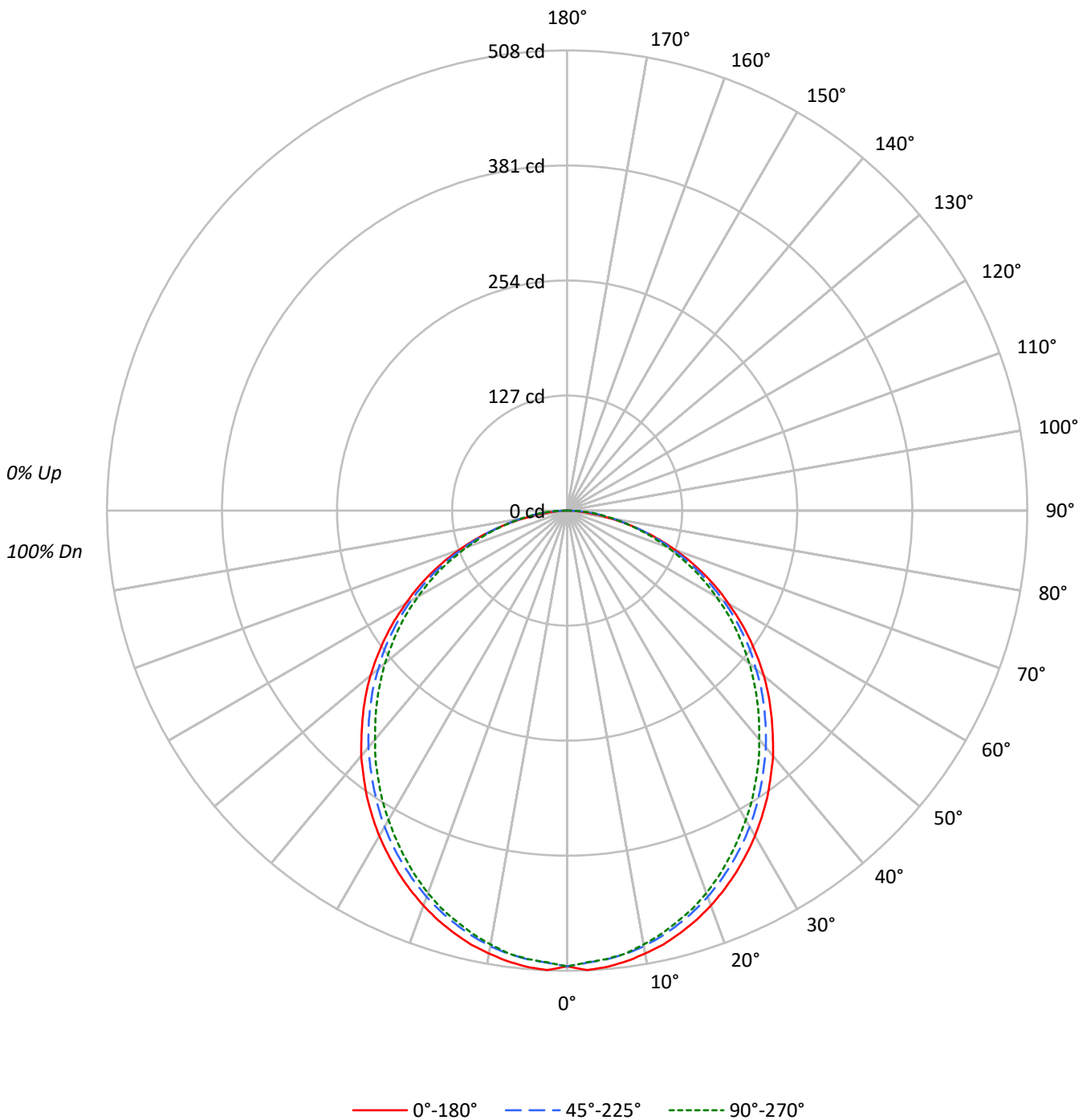
Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16249	16249	16249
5°	16389	16120	16110
10°	16280	16015	15949
15°	16137	15819	15709
20°	15945	15591	15440
25°	15713	15317	15079
30°	15467	15030	14702
35°	15201	14688	14318
40°	14910	14387	13907
45°	14559	14043	13554
50°	14237	13664	13192
55°	13810	13320	12774
60°	13304	12891	12271
65°	12791	12317	11775
70°	11953	11594	11084
75°	10692	10717	10331
80°	8796	9614	9540
85°	5928	9189	9448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.5
10°-20°	134.1	10.0
20°-30°	198.9	14.9
30°-40°	233.8	17.5
40°-50°	237.5	17.7
50°-60°	211.3	15.8
60°-70°	159.4	11.9
70°-80°	90.5	6.8
80°-90°	25.9	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°	380.5	28.4
0°-40°	614.3	45.9
0°-60°	1063.1	79.4
0°-90°	1339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	506	502	497	501	497	48
15°	483	479	473	475	470	136
25°	441	436	430	428	423	203
35°	386	380	373	368	363	241
45°	319	315	308	301	297	246
55°	245	243	237	230	227	219
65°	167	166	161	156	154	165
75°	86	87	86	84	83	91
85°	16	22	25	25	26	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.2	503.2	503.2	503.2	503.2
2.5°	507.7	504.2	499.6	503.4	499.2
5°	505.6	502.1	497.3	501.0	497.0
7.5°	501.9	498.4	493.7	497.0	493.2
10°	496.5	493.4	488.4	491.1	486.4
12.5°	490.7	486.5	481.3	483.7	478.9
15°	482.7	478.9	473.2	475.0	469.9
17.5°	474.0	469.6	464.0	465.0	460.7
20°	464.0	459.6	453.7	454.0	449.3
22.5°	452.9	448.8	442.4	441.3	436.9
25°	441.0	436.4	429.9	428.3	423.2
27.5°	428.1	423.9	416.9	414.3	408.9
30°	414.8	409.7	403.1	399.3	394.3
32.5°	400.2	395.6	388.2	383.4	379.6
35°	385.6	380.4	372.6	367.8	363.2
37.5°	369.1	364.2	356.9	352.1	347.5
40°	353.7	348.3	341.3	335.5	329.9
42.5°	335.9	332.1	324.5	318.7	313.3
45°	318.8	314.8	307.5	301.4	296.8
47.5°	301.5	297.5	290.6	283.9	279.5
50°	283.4	279.1	272.0	266.1	262.6
52.5°	264.5	261.5	255.2	248.5	244.5
55°	245.3	242.8	236.6	229.9	226.9
57.5°	226.0	223.9	218.2	211.9	208.8
60°	206.0	205.0	199.6	193.6	190.0
62.5°	187.1	185.7	180.1	175.7	172.3
65°	167.4	166.3	161.2	156.2	154.1
67.5°	147.6	146.3	141.6	138.1	134.9
70°	126.6	126.6	122.8	119.5	117.4
72.5°	106.8	107.0	104.4	100.9	100.0
75°	85.7	87.0	85.9	83.5	82.8
77.5°	67.0	68.1	68.2	67.4	66.3
80°	47.3	50.5	51.7	51.6	51.3
82.5°	30.3	35.4	37.8	37.6	37.9
85°	16.0	22.1	24.8	24.8	25.5
87.5°	5.6	11.3	12.1	11.1	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)