

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: P412108

Luminaire Tested: **MRI-4ASR-2-250-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-2-250-L850-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 998.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

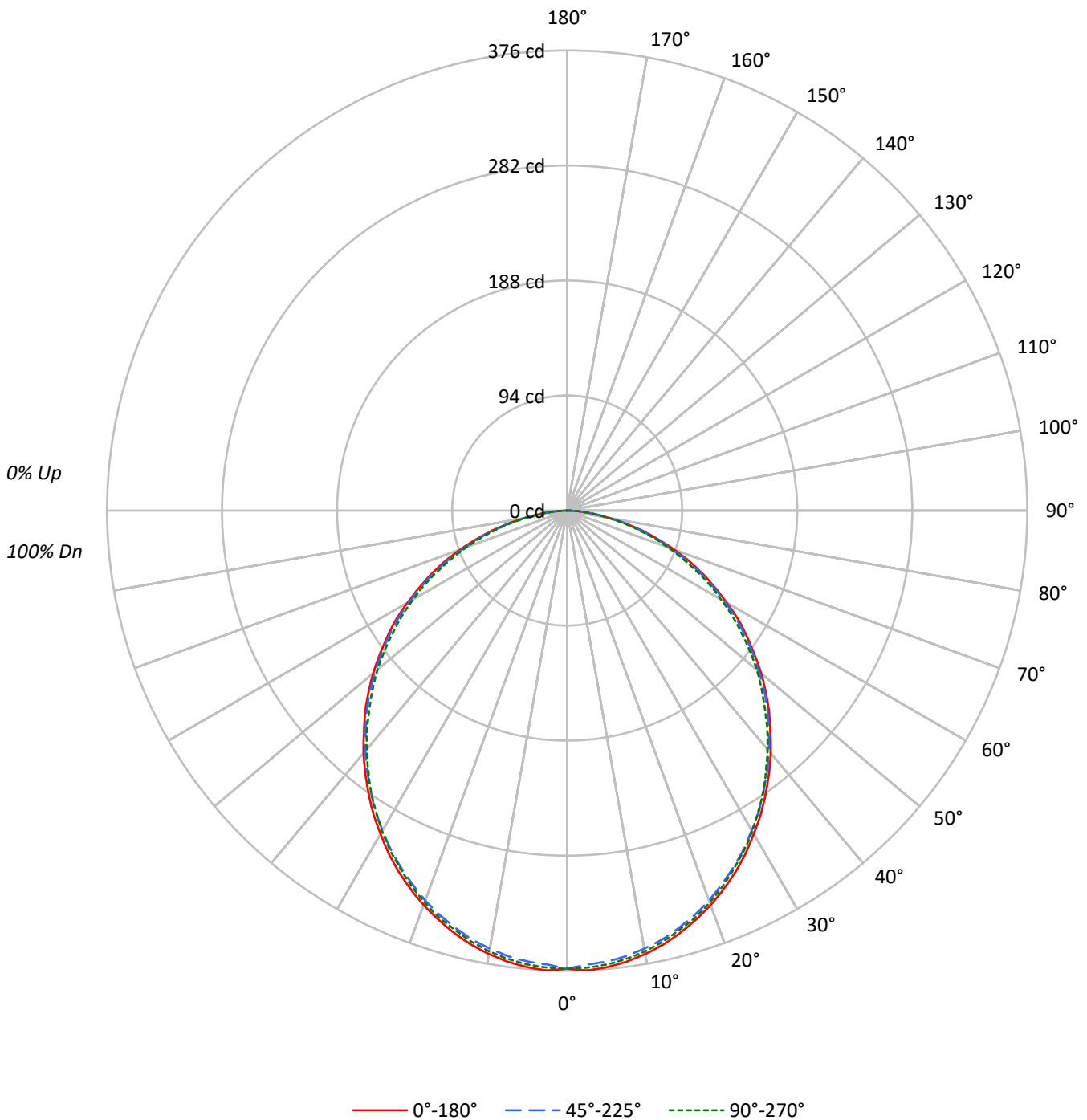
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	6045	6045	6045
5°	6070	5995	6034
10°	6033	5960	5997
15°	5971	5899	5929
20°	5893	5826	5856
25°	5802	5729	5749
30°	5684	5623	5640
35°	5574	5513	5513
40°	5457	5404	5368
45°	5332	5288	5215
50°	5200	5139	5087
55°	5044	4985	4890
60°	4866	4802	4689
65°	4665	4577	4436
70°	4367	4249	4135
75°	3974	3880	3730
80°	3254	3310	3171
85°	2334	2649	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	3.5
10°-20°	100.2	10.0
20°-30°	148.9	14.9
30°-40°	175.6	17.6
40°-50°	178.4	17.9
50°-60°	158.3	15.9
60°-70°	118.5	11.9
70°-80°	65.6	6.6
80°-90°	17.1	1.7
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°	284.4	28.5
0°-40°	460.1	46.1
0°-60°	796.9	79.8
0°-90°	998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	374	374	370	373	372	36
15°	357	357	353	356	355	101
25°	326	324	322	323	323	150
35°	283	282	280	280	280	177
45°	234	234	232	230	228	180
55°	179	180	177	175	174	160
65°	122	123	120	118	116	121
75°	64	63	62	60	60	67
85°	13	14	14	15	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	374.4	374.4	374.4	374.4	374.4
2.5°	376.1	375.0	371.3	374.4	373.9
5°	374.5	373.5	369.9	372.7	372.3
7.5°	371.8	370.7	367.4	370.2	369.6
10°	368.0	366.9	363.5	366.4	365.8
12.5°	363.1	362.1	359.0	361.4	360.8
15°	357.2	356.6	352.9	355.5	354.7
17.5°	350.4	349.7	346.4	349.0	348.5
20°	343.0	341.9	339.1	340.9	340.8
22.5°	334.6	333.6	330.4	332.5	332.2
25°	325.7	324.5	321.6	323.2	322.7
27.5°	315.9	314.6	312.2	313.5	313.2
30°	304.9	304.5	301.6	302.7	302.5
32.5°	294.5	293.5	291.5	291.4	291.0
35°	282.8	282.3	279.7	280.1	279.7
37.5°	270.8	270.5	268.4	267.9	267.1
40°	258.9	258.1	256.4	255.3	254.7
42.5°	245.7	246.1	243.7	242.6	242.1
45°	233.5	233.5	231.6	229.7	228.4
47.5°	220.3	220.5	218.5	216.1	215.3
50°	207.0	207.2	204.6	202.5	202.5
52.5°	192.9	193.7	191.2	189.0	188.1
55°	179.2	179.9	177.1	174.9	173.7
57.5°	165.9	165.8	163.5	160.5	160.2
60°	150.7	151.6	148.7	146.4	145.2
62.5°	136.3	137.5	134.3	132.2	131.4
65°	122.1	122.8	119.8	117.8	116.1
67.5°	108.0	107.8	105.0	102.7	101.8
70°	92.5	93.0	90.0	88.3	87.6
72.5°	78.0	78.5	75.8	74.7	73.4
75°	63.7	63.0	62.2	60.4	59.8
77.5°	48.5	49.1	48.9	47.0	46.7
80°	35.0	36.4	35.6	34.2	34.1
82.5°	23.2	24.6	24.3	23.9	23.5
85°	12.6	14.4	14.3	14.8	15.3
87.5°	4.8	6.2	7.3	7.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)