

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: P412146

Luminaire Tested: **MRI-2ASR-4-250-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412146
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-4-250-L935-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

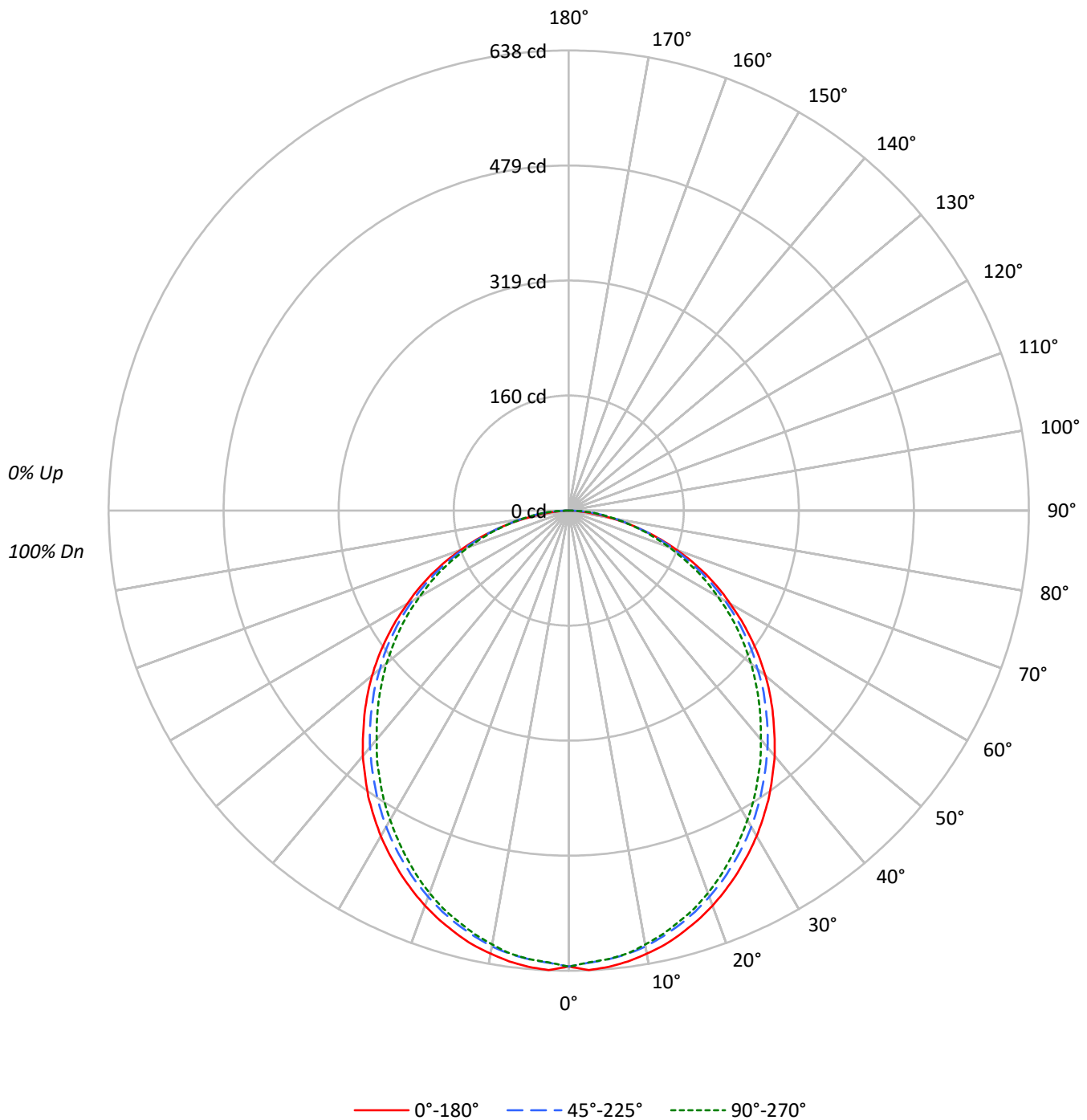
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	10206	10206	10206
5°	10293	10125	10118
10°	10226	10060	10017
15°	10136	9936	9865
20°	10015	9792	9696
25°	9869	9620	9470
30°	9715	9439	9236
35°	9548	9226	8994
40°	9364	9038	8734
45°	9145	8821	8512
50°	8942	8583	8287
55°	8676	8366	8025
60°	8354	8099	7705
65°	8034	7736	7396
70°	7511	7284	6963
75°	6712	6725	6494
80°	5523	6044	5988
85°	3724	5761	5947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.5
10°-20°	168.5	10.0
20°-30°	249.8	14.9
30°-40°	293.8	17.5
40°-50°	298.4	17.7
50°-60°	265.4	15.8
60°-70°	200.2	11.9
70°-80°	113.7	6.8
80°-90°	32.6	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°	477.9	28.4
0°-40°	771.7	45.9
0°-60°	1335.5	79.4
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	635	631	625	629	624	60
15°	606	602	594	597	590	171
25°	554	548	540	538	532	255
35°	484	478	468	462	456	303
45°	400	396	386	378	373	309
55°	308	305	297	289	285	275
65°	210	209	202	196	194	208
75°	108	109	108	105	104	115
85°	20	28	31	31	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.1	632.1	632.1	632.1	632.1
2.5°	637.7	633.3	627.5	632.3	627.1
5°	635.1	630.7	624.7	629.3	624.3
7.5°	630.5	626.1	620.2	624.3	619.6
10°	623.7	619.8	613.6	617.0	611.0
12.5°	616.4	611.2	604.6	607.6	601.6
15°	606.4	601.6	594.4	596.6	590.2
17.5°	595.4	589.9	582.9	584.1	578.7
20°	582.9	577.3	569.9	570.3	564.3
22.5°	568.9	563.7	555.8	554.4	548.8
25°	554.0	548.2	540.0	538.0	531.6
27.5°	537.8	532.4	523.7	520.5	513.7
30°	521.1	514.7	506.3	501.5	495.4
32.5°	502.7	497.0	487.6	481.6	476.8
35°	484.4	477.8	468.1	462.1	456.3
37.5°	463.7	457.5	448.3	442.3	436.6
40°	444.3	437.6	428.8	421.4	414.4
42.5°	422.0	417.2	407.7	400.3	393.5
45°	400.5	395.5	386.3	378.5	372.8
47.5°	378.7	373.8	365.0	356.6	351.0
50°	356.0	350.6	341.7	334.3	329.9
52.5°	332.3	328.5	320.5	312.2	307.2
55°	308.2	305.0	297.2	288.8	285.1
57.5°	283.9	281.3	274.1	266.1	262.3
60°	258.7	257.5	250.8	243.2	238.6
62.5°	235.0	233.2	226.3	220.7	216.5
65°	210.3	208.9	202.5	196.2	193.6
67.5°	185.4	183.8	177.8	173.4	169.4
70°	159.1	159.1	154.3	150.1	147.5
72.5°	134.2	134.4	131.2	126.8	125.6
75°	107.6	109.2	107.8	104.9	104.1
77.5°	84.1	85.5	85.7	84.7	83.3
80°	59.4	63.4	65.0	64.8	64.4
82.5°	38.1	44.5	47.4	47.2	47.6
85°	20.1	27.7	31.1	31.1	32.1
87.5°	7.0	14.2	15.1	14.0	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)