

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: P412144

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412144
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-L850-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

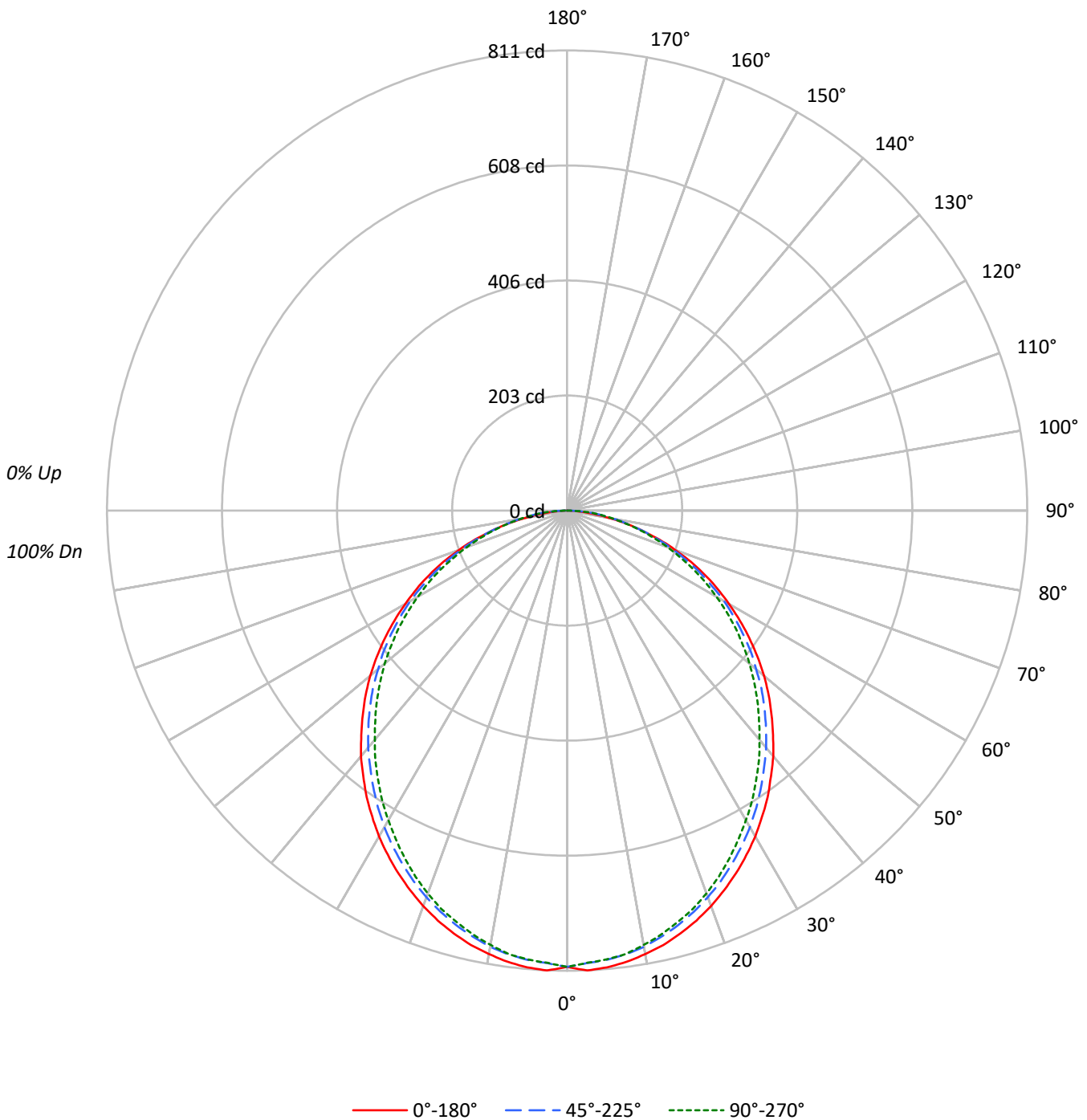
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412144

CATALOG NUMBER: MRI-2ASR-4-250-L850-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412144

CATALOG NUMBER: MRI-2ASR-4-250-L850-HEO

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°	12984	12984	12984
5°	13096	12882	12874
10°	13011	12798	12744
15°	12896	12642	12553
20°	12742	12459	12337
25°	12556	12241	12050
30°	12361	12010	11749
35°	12148	11738	11442
40°	11915	11497	11114
45°	11634	11223	10830
50°	11379	10919	10542
55°	11037	10643	10210
60°	10630	10304	9804
65°	10223	9845	9410
70°	9555	9267	8861
75°	8546	8559	8259
80°	7029	7689	7615
85°	4742	7336	7558



TEST NUMBER: P412144

CATALOG NUMBER: MRI-2ASR-4-250-L850-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.5
10°-20°	214.4	10.0
20°-30°	317.8	14.9
30°-40°	373.7	17.5
40°-50°	379.6	17.7
50°-60°	337.7	15.8
60°-70°	254.7	11.9
70°-80°	144.7	6.8
80°-90°	41.5	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°	608.1	28.4
0°-40°	981.8	45.9
0°-60°	1699.2	79.4
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	808	802	795	801	794	77
15°	772	765	756	759	751	218
25°	705	698	687	684	676	325
35°	616	608	596	588	580	385
45°	510	503	492	482	474	393
55°	392	388	378	368	363	350
65°	268	266	258	250	246	264
75°	137	139	137	133	132	146
85°	26	35	40	40	41	33
90°	0	0	0	0	0	



TEST NUMBER: P412144

CATALOG NUMBER: MRI-2ASR-4-250-L850-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	811.3	805.8	798.4	804.5	797.9
5°	808.0	802.5	794.8	800.7	794.3
7.5°	802.2	796.6	789.0	794.3	788.3
10°	793.6	788.5	780.6	785.0	777.3
12.5°	784.2	777.6	769.2	773.0	765.4
15°	771.5	765.4	756.3	759.1	751.0
17.5°	757.6	750.5	741.6	743.1	736.3
20°	741.6	734.5	725.1	725.6	718.0
22.5°	723.8	717.2	707.1	705.3	698.2
25°	704.8	697.5	687.1	684.5	676.4
27.5°	684.3	677.4	666.3	662.2	653.6
30°	663.0	654.8	644.2	638.1	630.2
32.5°	639.6	632.3	620.4	612.7	606.7
35°	616.3	607.9	595.5	587.9	580.5
37.5°	589.9	582.1	570.4	562.8	555.4
40°	565.3	556.7	545.5	536.2	527.3
42.5°	536.9	530.8	518.7	509.3	500.6
45°	509.5	503.2	491.5	481.6	474.3
47.5°	481.9	475.5	464.4	453.7	446.6
50°	453.0	446.1	434.7	425.3	419.7
52.5°	422.8	418.0	407.8	397.2	390.8
55°	392.1	388.0	378.1	367.5	362.7
57.5°	361.2	357.9	348.7	338.6	333.8
60°	329.2	327.7	319.1	309.4	303.6
62.5°	299.0	296.7	287.9	280.8	275.4
65°	267.6	265.8	257.7	249.6	246.3
67.5°	235.9	233.8	226.2	220.6	215.6
70°	202.4	202.4	196.3	191.0	187.7
72.5°	170.7	170.9	166.9	161.3	159.8
75°	137.0	139.0	137.2	133.4	132.4
77.5°	107.0	108.8	109.1	107.8	106.0
80°	75.6	80.7	82.7	82.4	81.9
82.5°	48.4	56.6	60.4	60.1	60.6
85°	25.6	35.3	39.6	39.6	40.8
87.5°	8.9	18.0	19.3	17.8	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)