

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: P412110

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412110
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-L935-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

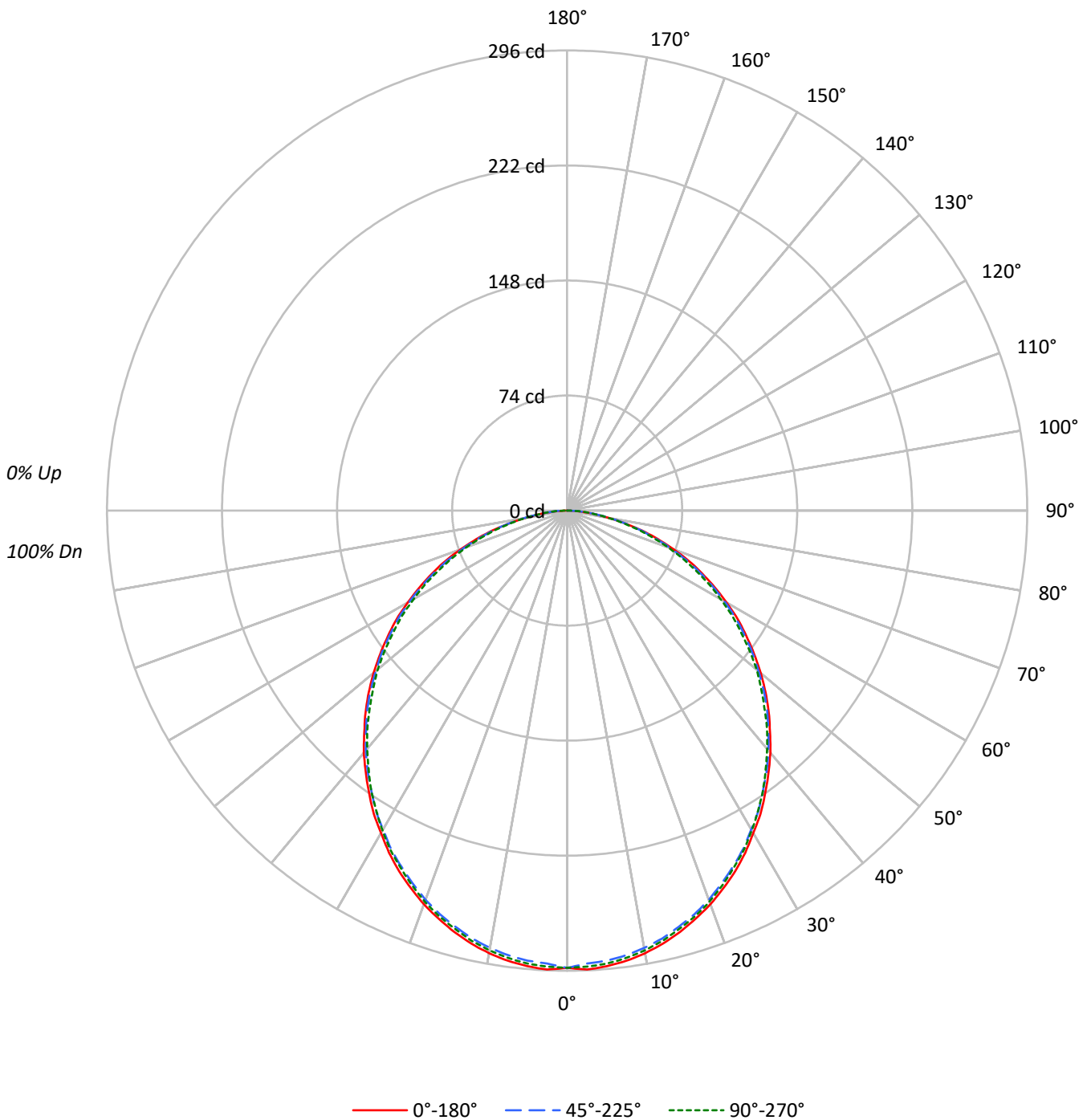
Lumens per Lamp: N/A
Luminaire Lumens: 784.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P412110
CATALOG NUMBER: MRI-4ASR-2-250-L935-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412110

CATALOG NUMBER: MRI-4ASR-2-250-L935-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	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°	4749	4749	4749
5°	4768	4710	4741
10°	4740	4682	4710
15°	4690	4634	4657
20°	4631	4577	4600
25°	4559	4500	4516
30°	4465	4417	4430
35°	4378	4330	4330
40°	4287	4245	4217
45°	4188	4153	4099
50°	4084	4037	3996
55°	3961	3918	3842
60°	3823	3772	3681
65°	3664	3595	3484
70°	3432	3338	3248
75°	3119	3044	2926
80°	2557	2603	2492
85°	1834	2075	2223



TEST NUMBER: P412110

CATALOG NUMBER: MRI-4ASR-2-250-L935-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	3.5
10°-20°	78.7	10.0
20°-30°	117.0	14.9
30°-40°	138.0	17.6
40°-50°	140.2	17.9
50°-60°	124.4	15.9
60°-70°	93.1	11.9
70°-80°	51.5	6.6
80°-90°	13.4	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°	223.5	28.5
0°-40°	361.4	46.1
0°-60°	626.0	79.8
0°-90°	784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	294	293	291	293	292	28
15°	281	280	277	279	279	79
25°	256	255	253	254	254	118
35°	222	222	220	220	220	139
45°	183	183	182	180	180	141
55°	141	141	139	137	136	126
65°	96	96	94	92	91	95
75°	50	50	49	47	47	53
85°	10	11	11	12	12	12
90°	0	0	0	0	0	



TEST NUMBER: P412110

CATALOG NUMBER: MRI-4ASR-2-250-L935-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	294.1	294.1	294.1	294.1	294.1
2.5°	295.5	294.6	291.7	294.1	293.7
5°	294.2	293.4	290.6	292.8	292.5
7.5°	292.1	291.2	288.6	290.8	290.3
10°	289.1	288.2	285.6	287.8	287.3
12.5°	285.3	284.5	282.0	283.9	283.5
15°	280.6	280.1	277.2	279.3	278.6
17.5°	275.2	274.7	272.2	274.1	273.7
20°	269.5	268.6	266.4	267.8	267.7
22.5°	262.8	262.0	259.6	261.2	260.9
25°	255.9	254.9	252.6	253.9	253.5
27.5°	248.1	247.1	245.3	246.3	246.1
30°	239.5	239.2	236.9	237.8	237.6
32.5°	231.4	230.6	229.0	228.9	228.6
35°	222.1	221.7	219.7	220.0	219.7
37.5°	212.7	212.5	210.8	210.4	209.8
40°	203.4	202.8	201.4	200.6	200.1
42.5°	193.1	193.3	191.5	190.6	190.2
45°	183.4	183.4	181.9	180.4	179.5
47.5°	173.1	173.2	171.6	169.7	169.1
50°	162.6	162.8	160.7	159.1	159.1
52.5°	151.6	152.2	150.2	148.5	147.8
55°	140.7	141.3	139.2	137.4	136.5
57.5°	130.3	130.2	128.4	126.1	125.9
60°	118.4	119.1	116.8	115.0	114.0
62.5°	107.1	108.0	105.5	103.8	103.2
65°	95.9	96.5	94.1	92.5	91.2
67.5°	84.9	84.7	82.5	80.7	80.0
70°	72.7	73.1	70.7	69.4	68.8
72.5°	61.2	61.6	59.6	58.7	57.7
75°	50.0	49.5	48.8	47.4	46.9
77.5°	38.1	38.6	38.4	36.9	36.7
80°	27.5	28.6	28.0	26.9	26.8
82.5°	18.3	19.4	19.1	18.8	18.5
85°	9.9	11.3	11.2	11.6	12.0
87.5°	3.8	4.9	5.8	5.7	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)