

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: P412103

Luminaire Tested: **MRI-4ASR-2-1000-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-2-1000-L950-OPL
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

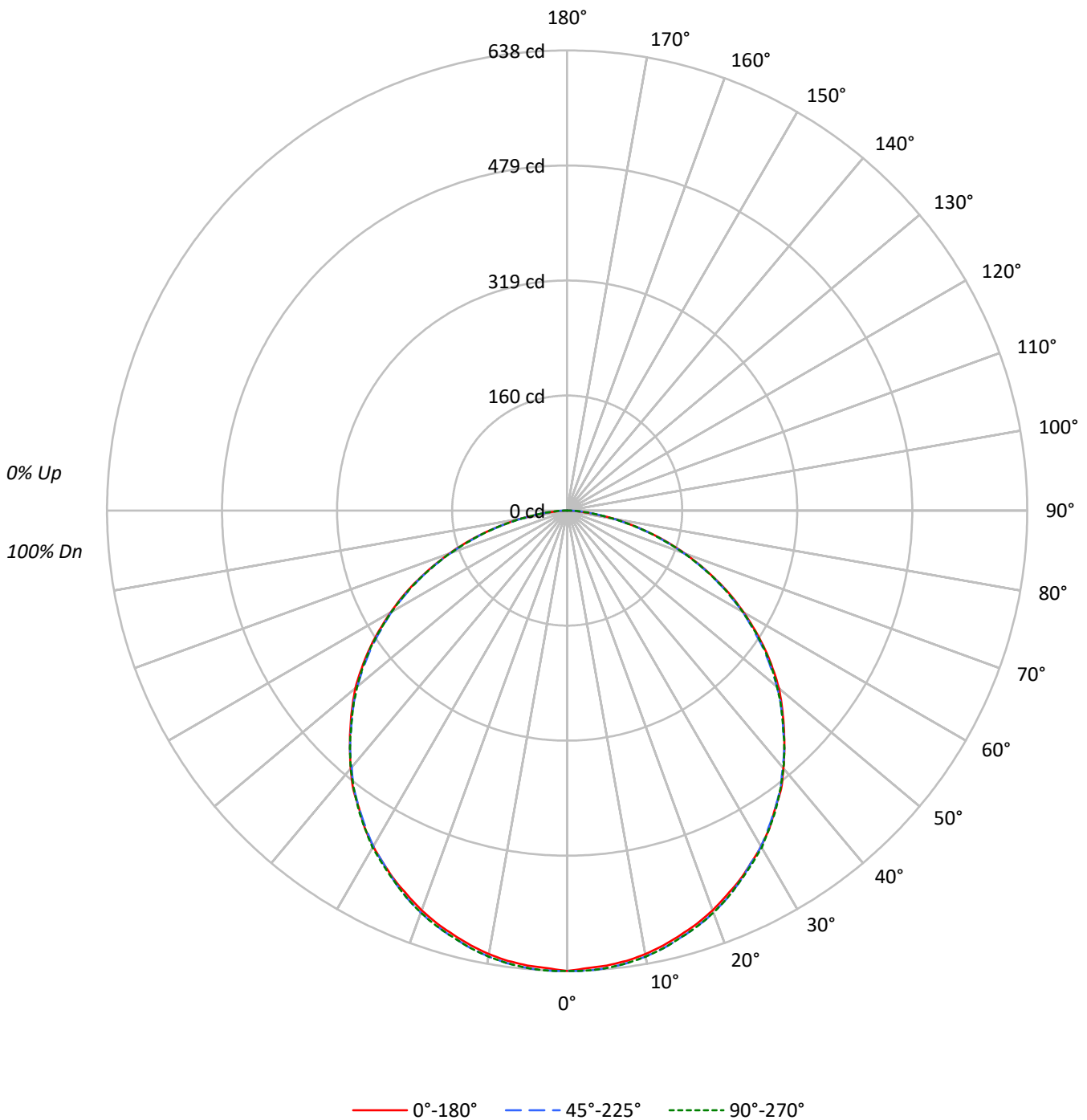
Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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: P412103
CATALOG NUMBER: MRI-4ASR-2-1000-L950-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412103

CATALOG NUMBER: MRI-4ASR-2-1000-L950-OPL

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	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10308	10308	10308
5°	10263	10318	10318
10°	10239	10294	10294
15°	10178	10235	10235
20°	10134	10194	10194
25°	10074	10105	10105
30°	10025	10025	10058
35°	9916	9916	9950
40°	9835	9799	9835
45°	9704	9666	9666
50°	9630	9543	9543
55°	9424	9326	9377
60°	9132	9074	9074
65°	8749	8680	8680
70°	8190	8106	8106
75°	7361	7249	7249
80°	6127	5969	5969
85°	3853	4187	4502



TEST NUMBER: P412103

CATALOG NUMBER: MRI-4ASR-2-1000-L950-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.3
10°-20°	172.8	9.5
20°-30°	261.3	14.4
30°-40°	315.2	17.4
40°-50°	327.4	18.1
50°-60°	296.5	16.4
60°-70°	224.7	12.4
70°-80°	123.8	6.8
80°-90°	28.9	1.6
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°	494.5	27.3
0°-40°	809.7	44.7
0°-60°	1433.5	79.2
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	633	635	637	638	637	60
15°	609	611	612	614	612	172
25°	566	566	567	567	567	261
35°	503	503	503	503	505	316
45°	425	423	423	425	423	328
55°	335	331	331	331	333	299
65°	229	227	227	227	227	226
75°	118	118	116	116	116	125
85°	21	23	23	24	24	27
90°	0	0	0	0	0	



TEST NUMBER: P412103

CATALOG NUMBER: MRI-4ASR-2-1000-L950-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.4	638.4	638.4	638.4	638.4
2.5°	634.9	636.6	638.4	640.1	638.4
5°	633.2	634.9	636.6	638.4	636.6
7.5°	629.7	631.4	633.2	634.9	633.2
10°	624.5	626.2	627.9	629.7	627.9
12.5°	617.5	619.3	621.0	621.0	621.0
15°	608.9	610.6	612.3	614.1	612.3
17.5°	600.2	601.9	603.7	603.7	603.7
20°	589.8	591.5	593.3	593.3	593.3
22.5°	577.6	579.4	581.1	581.1	581.1
25°	565.5	565.5	567.2	567.2	567.2
27.5°	551.6	551.6	551.6	553.4	553.4
30°	537.7	537.7	537.7	537.7	539.5
32.5°	522.1	522.1	520.4	522.1	522.1
35°	503.1	503.1	503.1	503.1	504.8
37.5°	487.4	484.0	485.7	485.7	485.7
40°	466.6	466.6	464.9	466.6	466.6
42.5°	445.8	445.8	445.8	445.8	445.8
45°	425.0	423.3	423.3	425.0	423.3
47.5°	404.2	402.4	402.4	402.4	402.4
50°	383.4	379.9	379.9	379.9	379.9
52.5°	359.1	355.6	355.6	355.6	357.3
55°	334.8	331.3	331.3	331.3	333.1
57.5°	308.8	307.0	305.3	307.0	307.0
60°	282.8	281.0	281.0	281.0	281.0
62.5°	256.7	255.0	253.3	253.3	255.0
65°	229.0	227.2	227.2	227.2	227.2
67.5°	201.2	199.5	199.5	199.5	199.5
70°	173.5	171.7	171.7	173.5	171.7
72.5°	145.7	144.0	144.0	144.0	144.0
75°	118.0	118.0	116.2	116.2	116.2
77.5°	90.2	90.2	90.2	90.2	90.2
80°	65.9	64.2	64.2	64.2	64.2
82.5°	39.9	39.9	41.6	41.6	41.6
85°	20.8	22.6	22.6	24.3	24.3
87.5°	6.9	8.7	10.4	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)