

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: P412187

Luminaire Tested: **MRI-4ASR-4-250-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412187
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-4-250-L950-OPL
Description: 4 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

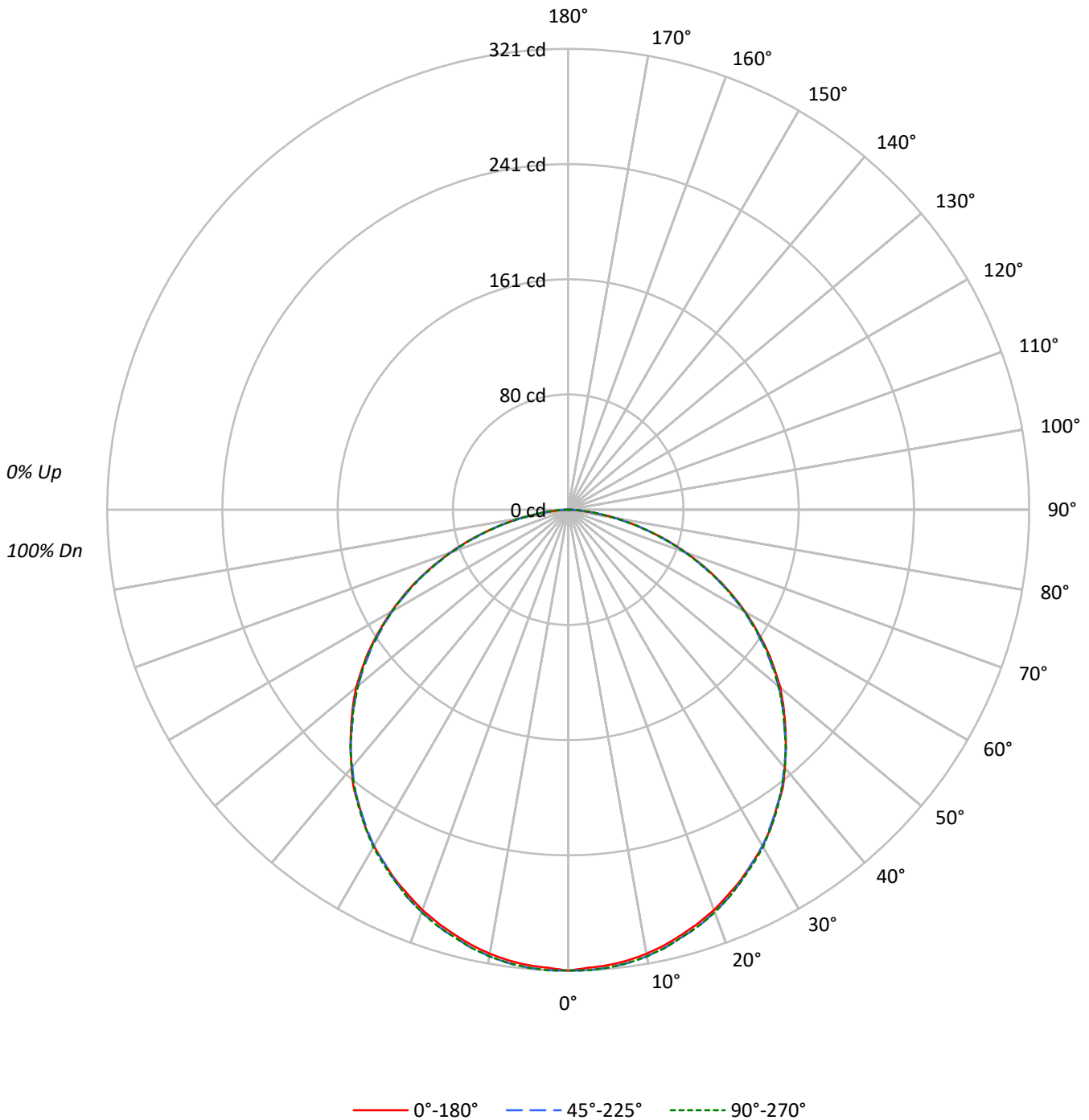
Lumens per Lamp: N/A
Luminaire Lumens: 911.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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: P412187
CATALOG NUMBER: MRI-4ASR-4-250-L950-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412187

CATALOG NUMBER: MRI-4ASR-4-250-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°	2592	2592	2592
5°	2581	2595	2595
10°	2575	2590	2590
15°	2560	2574	2574
20°	2549	2564	2564
25°	2534	2541	2541
30°	2522	2522	2530
35°	2494	2494	2502
40°	2473	2465	2473
45°	2441	2431	2431
50°	2421	2400	2400
55°	2370	2346	2358
60°	2296	2283	2283
65°	2201	2183	2183
70°	2061	2039	2039
75°	1850	1825	1825
80°	1543	1502	1502
85°	973	1047	1130



TEST NUMBER: P412187

CATALOG NUMBER: MRI-4ASR-4-250-L950-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	3.3
10°-20°	86.9	9.5
20°-30°	131.4	14.4
30°-40°	158.6	17.4
40°-50°	164.7	18.1
50°-60°	149.2	16.4
60°-70°	113.0	12.4
70°-80°	62.3	6.8
80°-90°	14.5	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°	248.7	27.3
0°-40°	407.3	44.7
0°-60°	721.2	79.2
0°-90°	911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	318	319	320	321	320	30
15°	306	307	308	309	308	87
25°	284	284	285	285	285	131
35°	253	253	253	253	254	159
45°	214	213	213	214	213	165
55°	168	167	167	167	168	150
65°	115	114	114	114	114	114
75°	59	59	58	58	58	63
85°	10	11	11	12	12	14
90°	0	0	0	0	0	



TEST NUMBER: P412187

CATALOG NUMBER: MRI-4ASR-4-250-L950-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	321.1	321.1	321.1	321.1	321.1
2.5°	319.4	320.2	321.1	322.0	321.1
5°	318.5	319.4	320.2	321.1	320.2
7.5°	316.8	317.6	318.5	319.4	318.5
10°	314.1	315.0	315.9	316.8	315.9
12.5°	310.6	311.5	312.4	312.4	312.4
15°	306.3	307.2	308.0	308.9	308.0
17.5°	301.9	302.8	303.7	303.7	303.7
20°	296.7	297.6	298.4	298.4	298.4
22.5°	290.6	291.4	292.3	292.3	292.3
25°	284.5	284.5	285.3	285.3	285.3
27.5°	277.5	277.5	277.5	278.4	278.4
30°	270.5	270.5	270.5	270.5	271.4
32.5°	262.7	262.7	261.8	262.7	262.7
35°	253.1	253.1	253.1	253.1	253.9
37.5°	245.2	243.5	244.3	244.3	244.3
40°	234.7	234.7	233.9	234.7	234.7
42.5°	224.3	224.3	224.3	224.3	224.3
45°	213.8	212.9	212.9	213.8	212.9
47.5°	203.3	202.4	202.4	202.4	202.4
50°	192.8	191.1	191.1	191.1	191.1
52.5°	180.6	178.9	178.9	178.9	179.8
55°	168.4	166.7	166.7	166.7	167.5
57.5°	155.3	154.5	153.6	154.5	154.5
60°	142.2	141.4	141.4	141.4	141.4
62.5°	129.1	128.3	127.4	127.4	128.3
65°	115.2	114.3	114.3	114.3	114.3
67.5°	101.2	100.3	100.3	100.3	100.3
70°	87.3	86.4	86.4	87.3	86.4
72.5°	73.3	72.4	72.4	72.4	72.4
75°	59.3	59.3	58.5	58.5	58.5
77.5°	45.4	45.4	45.4	45.4	45.4
80°	33.2	32.3	32.3	32.3	32.3
82.5°	20.1	20.1	20.9	20.9	20.9
85°	10.5	11.3	11.3	12.2	12.2
87.5°	3.5	4.4	5.2	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)