

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: P412151

Luminaire Tested: **MRI-2ASR-4-250-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-4)
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-L950-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

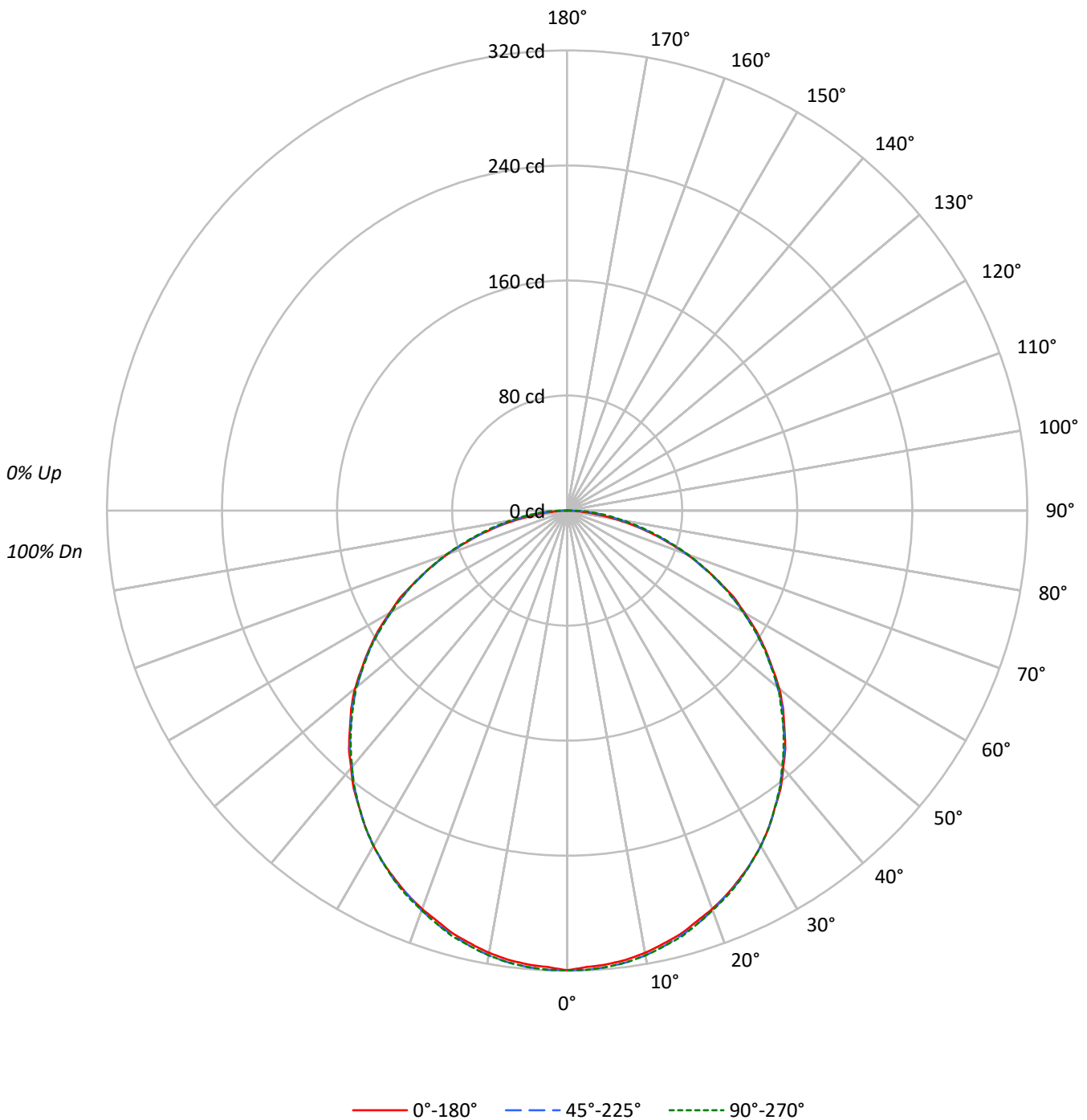
Lumens per Lamp: N/A
Luminaire Lumens: 918.0 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5160	5160	5160
5°	5135	5164	5164
10°	5120	5150	5150
15°	5097	5113	5128
20°	5067	5082	5082
25°	5042	5058	5058
30°	5021	5021	5021
35°	4967	4967	4967
40°	4926	4907	4907
45°	4877	4857	4857
50°	4838	4793	4815
55°	4729	4704	4704
60°	4598	4569	4569
65°	4432	4393	4432
70°	4183	4183	4225
75°	3762	3818	3930
80°	3143	3477	3654
85°	2205	3390	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	3.3
10°-20°	86.3	9.4
20°-30°	130.7	14.2
30°-40°	157.8	17.2
40°-50°	164.4	17.9
50°-60°	149.4	16.3
60°-70°	114.2	12.4
70°-80°	65.4	7.1
80°-90°	19.5	2.1
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°	247.3	26.9
0°-40°	405.1	44.1
0°-60°	718.9	78.3
0°-90°	918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	320	320	320	320	320	
5°	317	318	319	319	319	30
15°	305	306	306	307	307	86
25°	283	283	284	284	284	131
35°	252	253	252	252	252	158
45°	214	214	213	213	213	165
55°	168	167	167	167	167	150
65°	116	116	115	115	116	115
75°	60	60	61	62	63	64
85°	12	15	18	18	19	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	319.6	319.6	319.6	319.6	319.6
2.5°	317.7	318.6	319.6	320.5	319.6
5°	316.8	317.7	318.6	318.6	318.6
7.5°	315.0	315.9	316.8	316.8	316.8
10°	312.3	313.2	314.1	314.1	314.1
12.5°	308.6	309.5	310.4	310.4	310.4
15°	304.9	305.9	305.9	306.8	306.8
17.5°	299.5	301.3	301.3	302.2	301.3
20°	294.9	295.8	295.8	295.8	295.8
22.5°	289.4	290.3	289.4	290.3	290.3
25°	283.0	283.0	283.9	283.9	283.9
27.5°	276.6	276.6	276.6	276.6	276.6
30°	269.3	269.3	269.3	269.3	269.3
32.5°	261.1	261.1	261.1	261.1	261.1
35°	252.0	252.9	252.0	252.0	252.0
37.5°	243.8	243.8	242.9	242.9	242.9
40°	233.7	233.7	232.8	232.8	232.8
42.5°	224.6	223.7	223.7	222.8	222.8
45°	213.6	213.6	212.7	212.7	212.7
47.5°	203.6	202.7	202.7	202.7	201.8
50°	192.6	191.7	190.8	190.8	191.7
52.5°	179.9	179.9	179.0	179.0	179.0
55°	168.0	167.1	167.1	167.1	167.1
57.5°	156.1	154.3	154.3	155.2	154.3
60°	142.4	141.5	141.5	141.5	141.5
62.5°	130.6	128.7	128.7	128.7	128.7
65°	116.0	116.0	115.0	115.0	116.0
67.5°	102.3	102.3	101.3	102.3	102.3
70°	88.6	87.6	88.6	88.6	89.5
72.5°	74.0	74.9	74.9	74.9	75.8
75°	60.3	60.3	61.2	62.1	63.0
77.5°	46.6	47.5	49.3	50.2	51.1
80°	33.8	35.6	37.4	39.3	39.3
82.5°	21.9	23.7	27.4	30.1	30.1
85°	11.9	14.6	18.3	18.3	19.2
87.5°	4.6	7.3	10.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)