

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: P412259

Luminaire Tested: **MRI-4ASR-8-250-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412259
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-8-250-L950-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

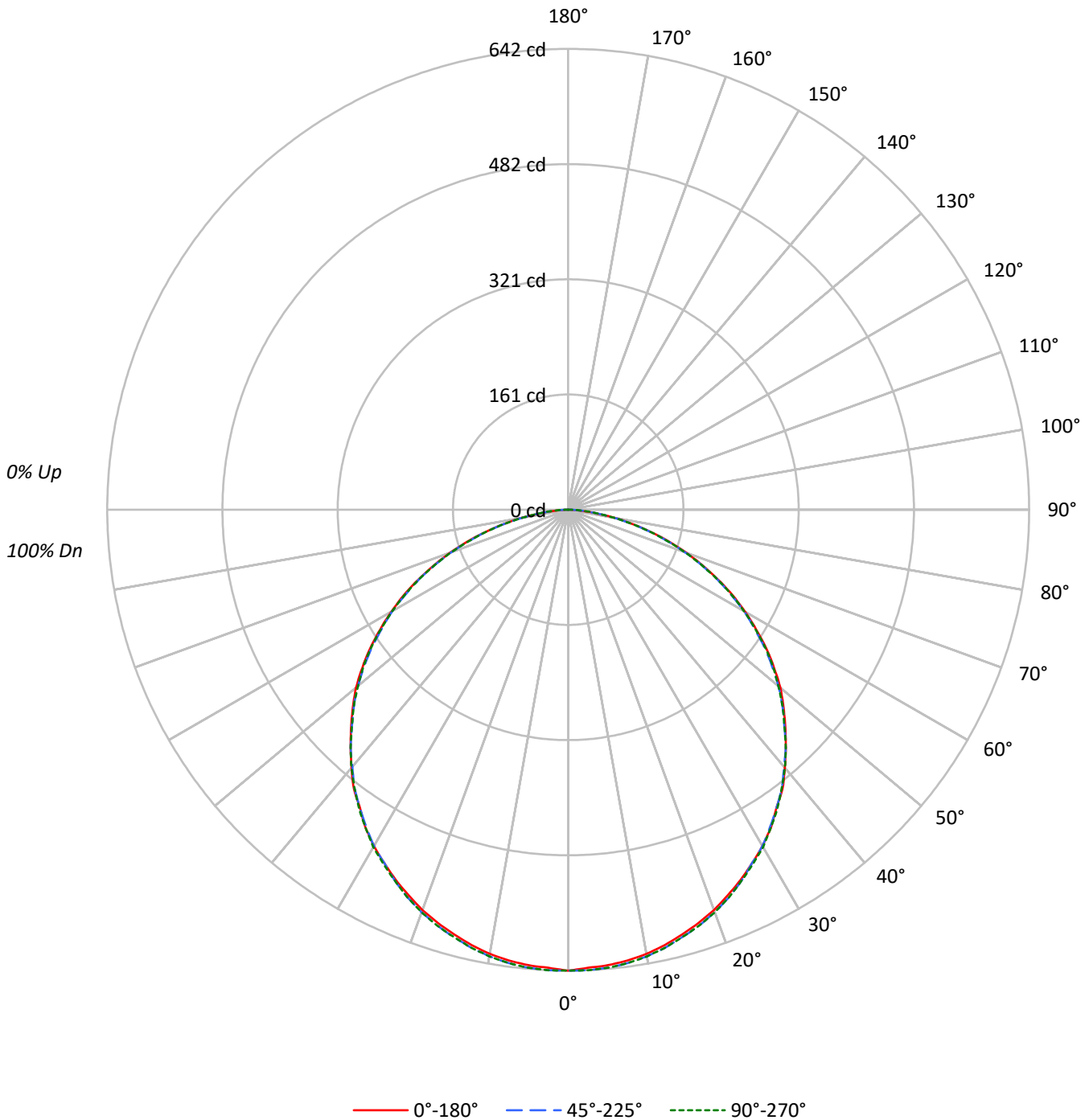
Lumens per Lamp: N/A
Luminaire Lumens: 1822.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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	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	2575	2575
20°	2549	2564	2564
25°	2534	2542	2542
30°	2522	2522	2530
35°	2494	2494	2503
40°	2474	2464	2474
45°	2441	2431	2431
50°	2422	2400	2400
55°	2370	2346	2358
60°	2297	2282	2282
65°	2201	2183	2183
70°	2059	2039	2039
75°	1851	1823	1823
80°	1541	1502	1502
85°	968	1051	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.3
10°-20°	173.8	9.5
20°-30°	262.9	14.4
30°-40°	317.1	17.4
40°-50°	329.4	18.1
50°-60°	298.3	16.4
60°-70°	226.1	12.4
70°-80°	124.6	6.8
80°-90°	29.1	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°	497.5	27.3
0°-40°	814.6	44.7
0°-60°	1442.3	79.2
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	637	639	640	642	640	61
15°	613	614	616	618	616	173
25°	569	569	571	571	571	262
35°	506	506	506	506	508	317
45°	428	426	426	428	426	330
55°	337	333	333	333	335	301
65°	230	229	229	229	229	228
75°	119	119	117	117	117	126
85°	21	23	23	24	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.2	642.2	642.2	642.2	642.2
2.5°	638.7	640.5	642.2	644.0	642.2
5°	637.0	638.7	640.5	642.2	640.5
7.5°	633.5	635.3	637.0	638.7	637.0
10°	628.3	630.0	631.8	633.5	631.8
12.5°	621.3	623.0	624.8	624.8	624.8
15°	612.6	614.3	616.1	617.8	616.1
17.5°	603.8	605.6	607.3	607.3	607.3
20°	593.4	595.1	596.9	596.9	596.9
22.5°	581.2	582.9	584.6	584.6	584.6
25°	568.9	568.9	570.7	570.7	570.7
27.5°	555.0	555.0	555.0	556.7	556.7
30°	541.0	541.0	541.0	541.0	542.8
32.5°	525.3	525.3	523.6	525.3	525.3
35°	506.1	506.1	506.1	506.1	507.9
37.5°	490.4	486.9	488.7	488.7	488.7
40°	469.5	469.5	467.7	469.5	469.5
42.5°	448.5	448.5	448.5	448.5	448.5
45°	427.6	425.8	425.8	427.6	425.8
47.5°	406.6	404.9	404.9	404.9	404.9
50°	385.7	382.2	382.2	382.2	382.2
52.5°	361.3	357.8	357.8	357.8	359.5
55°	336.8	333.3	333.3	333.3	335.1
57.5°	310.6	308.9	307.2	308.9	308.9
60°	284.5	282.7	282.7	282.7	282.7
62.5°	258.3	256.5	254.8	254.8	256.5
65°	230.4	228.6	228.6	228.6	228.6
67.5°	202.4	200.7	200.7	200.7	200.7
70°	174.5	172.8	172.8	174.5	172.8
72.5°	146.6	144.9	144.9	144.9	144.9
75°	118.7	118.7	116.9	116.9	116.9
77.5°	90.8	90.8	90.8	90.8	90.8
80°	66.3	64.6	64.6	64.6	64.6
82.5°	40.1	40.1	41.9	41.9	41.9
85°	20.9	22.7	22.7	24.4	24.4
87.5°	7.0	8.7	10.5	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)