

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: P412150

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
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-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

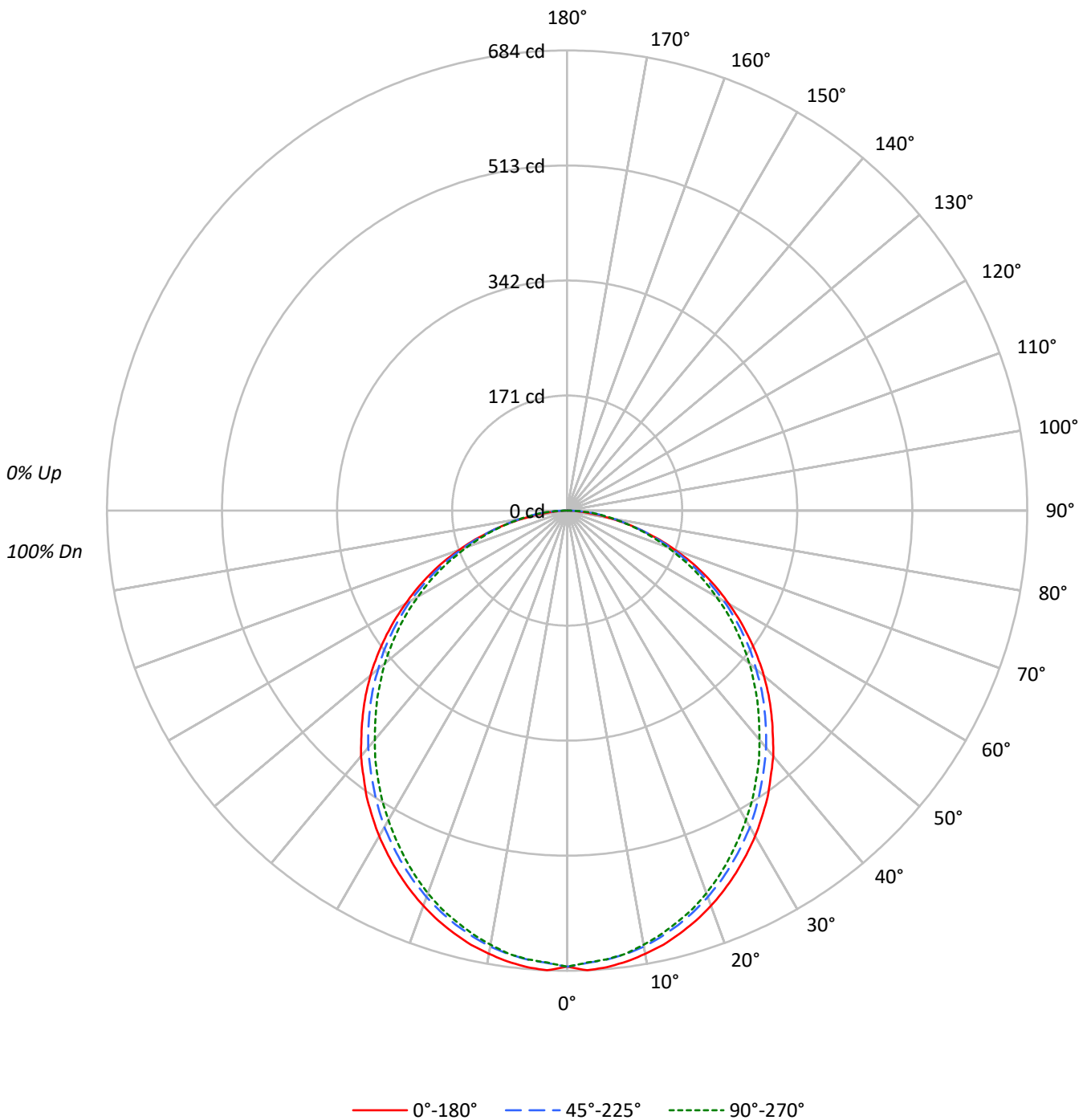
Lumens per Lamp: N/A
Luminaire Lumens: 1804.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	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°	10947	10947	10947
5°	11041	10859	10853
10°	10968	10789	10744
15°	10872	10658	10583
20°	10742	10503	10400
25°	10584	10318	10158
30°	10420	10125	9905
35°	10240	9895	9646
40°	10045	9693	9369
45°	9807	9460	9129
50°	9590	9206	8887
55°	9303	8974	8605
60°	8961	8686	8263
65°	8619	8298	7931
70°	8054	7813	7468
75°	7205	7218	6962
80°	5923	6481	6425
85°	4001	6187	6373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.5
10°-20°	180.7	10.0
20°-30°	267.9	14.9
30°-40°	315.1	17.5
40°-50°	320.0	17.7
50°-60°	284.7	15.8
60°-70°	214.7	11.9
70°-80°	122.0	6.8
80°-90°	35.0	1.9
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°	512.6	28.4
0°-40°	827.7	45.9
0°-60°	1432.4	79.4
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	681	676	670	675	670	65
15°	650	645	638	640	633	183
25°	594	588	579	577	570	274
35°	520	512	502	496	489	325
45°	430	424	414	406	400	332
55°	330	327	319	310	306	295
65°	226	224	217	210	208	223
75°	116	117	116	112	112	123
85°	22	30	33	33	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.0	678.0	678.0	678.0	678.0
2.5°	683.9	679.2	673.0	678.2	672.6
5°	681.2	676.5	670.0	675.0	669.6
7.5°	676.2	671.5	665.1	669.6	664.5
10°	669.0	664.7	658.1	661.7	655.3
12.5°	661.1	655.5	648.5	651.7	645.2
15°	650.4	645.2	637.6	639.9	633.1
17.5°	638.6	632.6	625.2	626.4	620.7
20°	625.2	619.2	611.3	611.7	605.3
22.5°	610.2	604.6	596.1	594.6	588.6
25°	594.1	587.9	579.2	577.0	570.2
27.5°	576.8	571.1	561.7	558.2	551.0
30°	558.9	552.0	543.1	537.9	531.3
32.5°	539.2	533.0	523.0	516.5	511.4
35°	519.5	512.5	502.0	495.6	489.4
37.5°	497.3	490.7	480.8	474.4	468.2
40°	476.6	469.3	459.9	452.0	444.5
42.5°	452.6	447.5	437.2	429.3	422.0
45°	429.5	424.2	414.3	406.0	399.8
47.5°	406.2	400.9	391.5	382.5	376.5
50°	381.8	376.1	366.5	358.5	353.8
52.5°	356.4	352.3	343.8	334.8	329.5
55°	330.5	327.1	318.8	309.8	305.7
57.5°	304.5	301.7	294.0	285.4	281.4
60°	277.5	276.2	269.0	260.8	255.9
62.5°	252.1	250.1	242.7	236.7	232.2
65°	225.6	224.1	217.2	210.4	207.6
67.5°	198.8	197.1	190.7	186.0	181.7
70°	170.6	170.6	165.5	161.0	158.2
72.5°	143.9	144.1	140.7	136.0	134.7
75°	115.5	117.2	115.7	112.5	111.6
77.5°	90.2	91.7	91.9	90.9	89.4
80°	63.7	68.0	69.7	69.5	69.1
82.5°	40.8	47.7	50.9	50.7	51.1
85°	21.6	29.7	33.4	33.4	34.4
87.5°	7.5	15.2	16.2	15.0	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)