

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: P412186

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
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-HEO
Description: 4 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

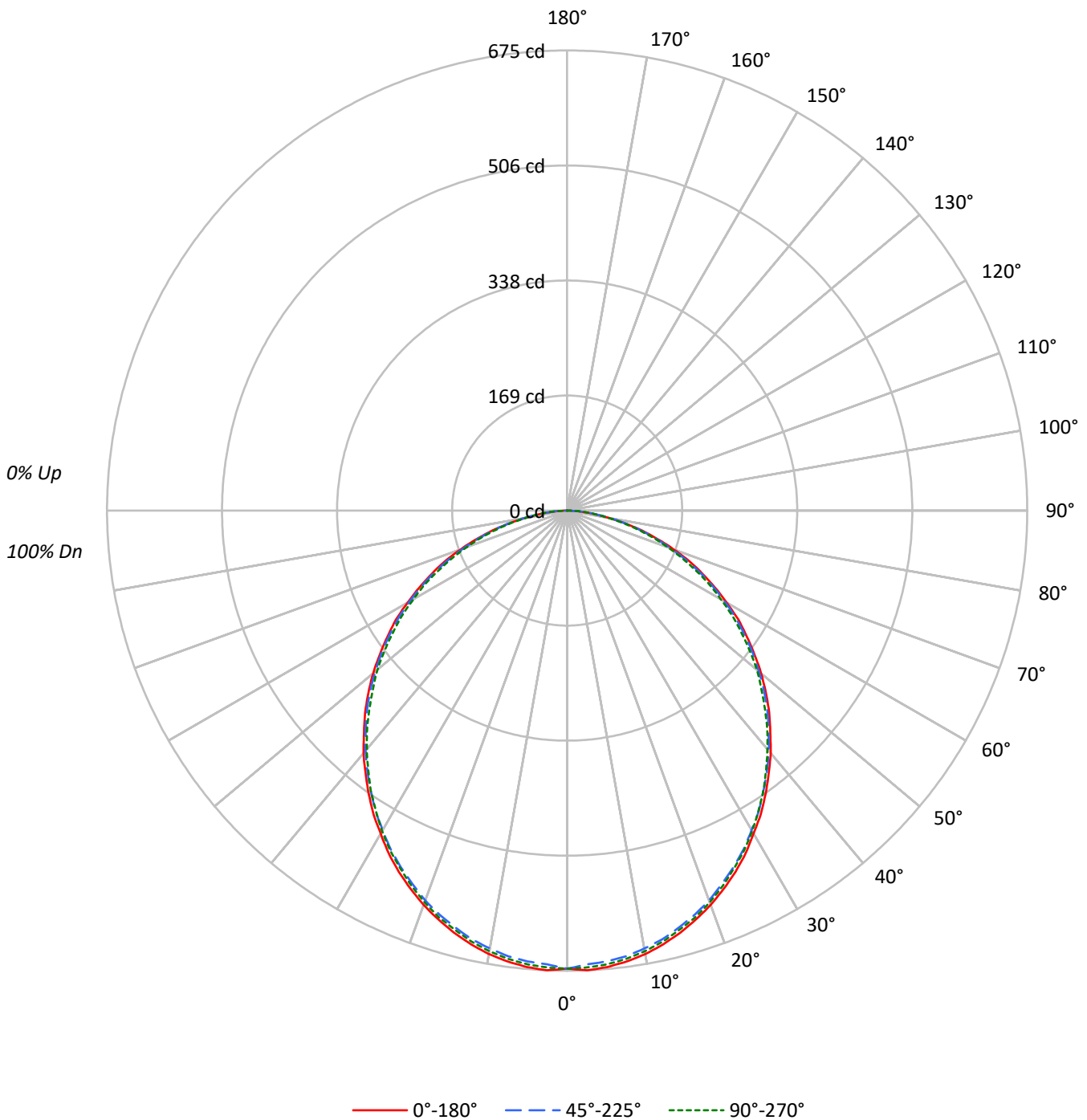
Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	5423	5423	5423
5°	5447	5380	5415
10°	5414	5347	5381
15°	5357	5293	5320
20°	5289	5229	5253
25°	5206	5141	5158
30°	5100	5045	5060
35°	5001	4947	4947
40°	4896	4849	4817
45°	4784	4745	4680
50°	4665	4611	4565
55°	4525	4474	4389
60°	4367	4309	4206
65°	4183	4107	3981
70°	3918	3810	3708
75°	3565	3481	3344
80°	2920	2971	2845
85°	2103	2371	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.5
10°-20°	179.7	10.0
20°-30°	267.3	14.9
30°-40°	315.2	17.6
40°-50°	320.2	17.9
50°-60°	284.2	15.9
60°-70°	212.6	11.9
70°-80°	117.7	6.6
80°-90°	30.6	1.7
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°	510.5	28.5
0°-40°	825.6	46.1
0°-60°	1430.0	79.8
0°-90°	1791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	672	670	664	669	668	64
15°	641	640	633	638	636	181
25°	584	582	577	580	579	269
35°	507	506	502	503	502	317
45°	419	419	416	412	410	323
55°	322	323	318	314	312	288
65°	219	220	215	211	208	217
75°	114	113	112	108	107	120
85°	23	26	26	26	27	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.8	671.8	671.8	671.8	671.8
2.5°	675.0	673.0	666.4	671.8	670.9
5°	672.1	670.2	663.9	668.9	668.2
7.5°	667.3	665.3	659.4	664.4	663.2
10°	660.5	658.5	652.3	657.5	656.4
12.5°	651.7	649.8	644.2	648.5	647.6
15°	641.0	639.9	633.3	638.0	636.5
17.5°	628.8	627.6	621.7	626.3	625.4
20°	615.6	613.6	608.6	611.7	611.5
22.5°	600.4	598.6	592.9	596.8	596.1
25°	584.5	582.3	577.1	580.0	579.1
27.5°	566.9	564.6	560.3	562.5	562.1
30°	547.1	546.4	541.2	543.3	542.8
32.5°	528.5	526.7	523.1	522.9	522.2
35°	507.4	506.5	502.0	502.7	502.0
37.5°	485.9	485.5	481.6	480.7	479.3
40°	464.6	463.2	460.1	458.2	457.1
42.5°	441.0	441.7	437.4	435.3	434.4
45°	419.0	419.0	415.6	412.2	409.9
47.5°	395.4	395.7	392.0	387.7	386.4
50°	371.4	371.9	367.1	363.5	363.5
52.5°	346.2	347.6	343.1	339.2	337.6
55°	321.5	322.9	317.9	313.8	311.8
57.5°	297.7	297.5	293.4	288.0	287.5
60°	270.5	272.1	266.9	262.8	260.5
62.5°	244.7	246.7	241.0	237.2	235.8
65°	219.0	220.4	215.0	211.3	208.4
67.5°	193.9	193.4	188.4	184.3	182.8
70°	166.0	166.9	161.4	158.5	157.1
72.5°	139.9	140.8	136.0	134.0	131.7
75°	114.3	113.1	111.6	108.4	107.2
77.5°	87.1	88.2	87.7	84.3	83.9
80°	62.8	65.3	63.9	61.4	61.2
82.5°	41.7	44.2	43.5	42.9	42.2
85°	22.7	25.8	25.6	26.5	27.4
87.5°	8.6	11.1	13.2	12.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)