

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: P412119

Luminaire Tested: **MRI-4ASR-2-500-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412119
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-2-500-L840-OPL
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1044.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

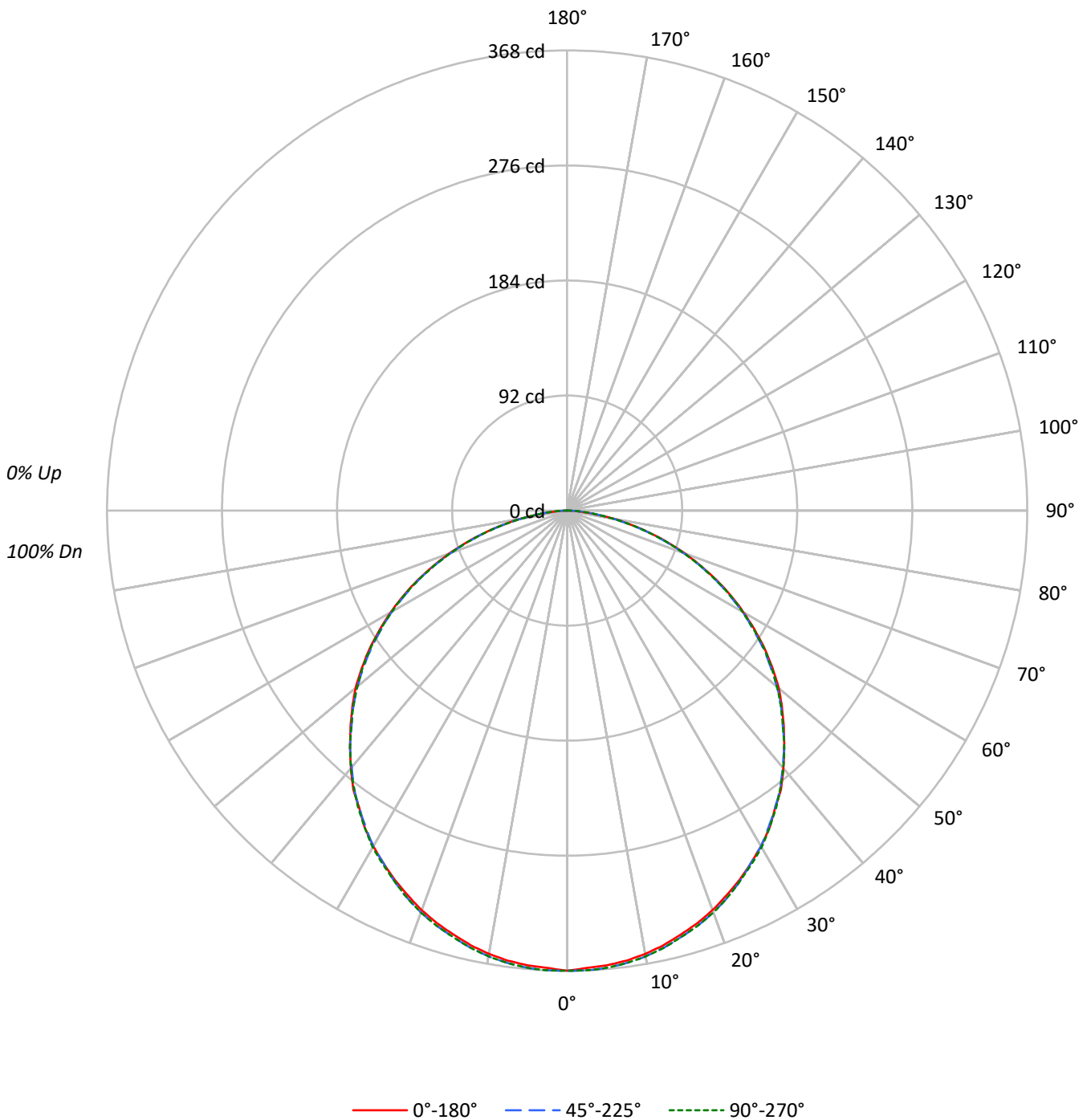
Input Watts (W): 18.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5942	5942	5942
5°	5916	5948	5948
10°	5902	5935	5935
15°	5867	5901	5901
20°	5842	5876	5876
25°	5808	5826	5826
30°	5780	5780	5798
35°	5716	5716	5736
40°	5670	5649	5670
45°	5594	5571	5571
50°	5551	5501	5501
55°	5433	5377	5405
60°	5264	5231	5231
65°	5043	5005	5005
70°	4721	4674	4674
75°	4242	4180	4180
80°	3533	3440	3440
85°	2223	2408	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	3.3
10°-20°	99.6	9.5
20°-30°	150.6	14.4
30°-40°	181.7	17.4
40°-50°	188.7	18.1
50°-60°	170.9	16.4
60°-70°	129.5	12.4
70°-80°	71.4	6.8
80°-90°	16.7	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°	285.1	27.3
0°-40°	466.8	44.7
0°-60°	826.4	79.2
0°-90°	1044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	365	366	367	368	367	35
15°	351	352	353	354	353	99
25°	326	326	327	327	327	150
35°	290	290	290	290	291	182
45°	245	244	244	245	244	189
55°	193	191	191	191	192	172
65°	132	131	131	131	131	131
75°	68	68	67	67	67	72
85°	12	13	13	14	14	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368	368	368	368	368
2.5°	366	367	368	369	368
5°	365	366	367	368	367
7.5°	363	364	365	366	365
10°	360	361	362	363	362
12.5°	356	357	358	358	358
15°	351	352	353	354	353
17.5°	346	347	348	348	348
20°	340	341	342	342	342
22.5°	333	334	335	335	335
25°	326	326	327	327	327
27.5°	318	318	318	319	319
30°	310	310	310	310	311
32.5°	301	301	300	301	301
35°	290	290	290	290	291
37.5°	281	279	280	280	280
40°	269	269	268	269	269
42.5°	257	257	257	257	257
45°	245	244	244	245	244
47.5°	233	232	232	232	232
50°	221	219	219	219	219
52.5°	207	205	205	205	206
55°	193	191	191	191	192
57.5°	178	177	176	177	177
60°	163	162	162	162	162
62.5°	148	147	146	146	147
65°	132	131	131	131	131
67.5°	116	115	115	115	115
70°	100	99	99	100	99
72.5°	84	83	83	83	83
75°	68	68	67	67	67
77.5°	52	52	52	52	52
80°	38	37	37	37	37
82.5°	23	23	24	24	24
85°	12	13	13	14	14
87.5°	4	5	6	7	7
90°	0	0	0	0	0

(END OF REPORT)