

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: P412137

Luminaire Tested: **MRI-2ASR-4-1000-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412137
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-4-1000-L940-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.0 lumens
Efficiency: N/A
Efficacy: 37.2 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

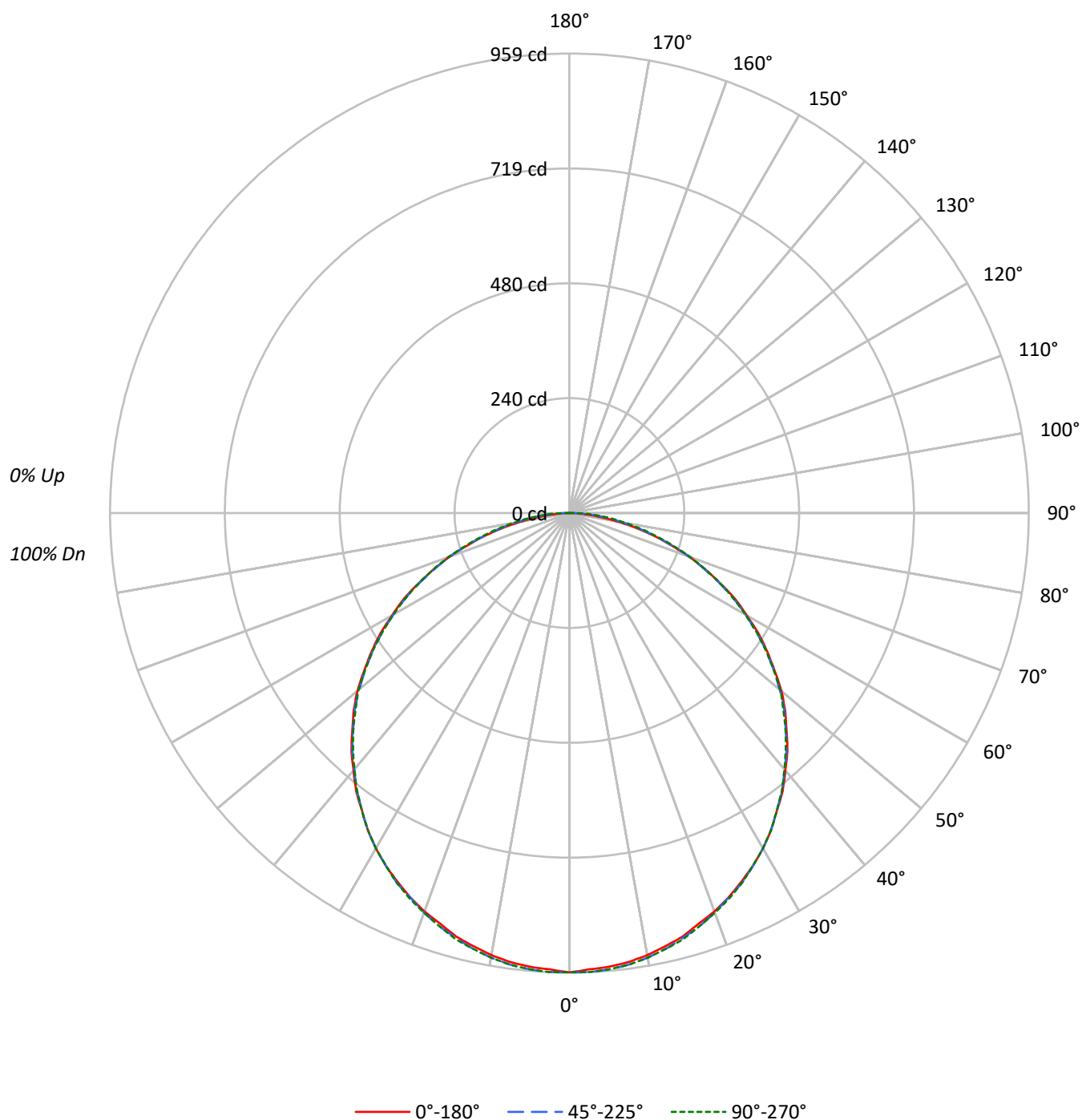
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	62	72	66	61	69	64	60
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15479	15479	15479
5°	15405	15493	15493
10°	15359	15447	15447
15°	15291	15338	15383
20°	15201	15249	15249
25°	15127	15175	15175
30°	15064	15064	15064
35°	14901	14901	14901
40°	14779	14722	14722
45°	14634	14572	14572
50°	14516	14380	14448
55°	14187	14108	14108
60°	13798	13711	13711
65°	13291	13184	13291
70°	12543	12543	12670
75°	11279	11447	11790
80°	9419	10442	10953
85°	6595	10152	10652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.3
10°-20°	259.0	9.4
20°-30°	392.2	14.2
30°-40°	473.5	17.2
40°-50°	493.3	17.9
50°-60°	448.0	16.3
60°-70°	342.6	12.4
70°-80°	196.1	7.1
80°-90°	58.6	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°	741.9	26.9
0°-40°	1215.4	44.1
0°-60°	2156.7	78.3
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	950	953	956	956	956	90
15°	915	918	918	920	920	258
25°	849	849	852	852	852	392
35°	756	759	756	756	756	474
45°	641	641	638	638	638	495
55°	504	501	501	501	501	451
65°	348	348	345	345	348	345
75°	181	181	184	186	189	191
85°	36	44	55	55	58	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.7	958.7	958.7	958.7	958.7
2.5°	953.2	955.9	958.7	961.4	958.7
5°	950.5	953.2	955.9	955.9	955.9
7.5°	945.0	947.7	950.5	950.5	950.5
10°	936.8	939.5	942.2	942.2	942.2
12.5°	925.8	928.5	931.3	931.3	931.3
15°	914.8	917.6	917.6	920.3	920.3
17.5°	898.4	903.9	903.9	906.6	903.9
20°	884.7	887.5	887.5	887.5	887.5
22.5°	868.3	871.0	868.3	871.0	871.0
25°	849.1	849.1	851.8	851.8	851.8
27.5°	829.9	829.9	829.9	829.9	829.9
30°	808.0	808.0	808.0	808.0	808.0
32.5°	783.4	783.4	783.4	783.4	783.4
35°	756.0	758.7	756.0	756.0	756.0
37.5°	731.3	731.3	728.6	728.6	728.6
40°	701.2	701.2	698.5	698.5	698.5
42.5°	673.8	671.1	671.1	668.3	668.3
45°	640.9	640.9	638.2	638.2	638.2
47.5°	610.8	608.1	608.1	608.1	605.3
50°	577.9	575.2	572.5	572.5	575.2
52.5°	539.6	539.6	536.9	536.9	536.9
55°	504.0	501.2	501.2	501.2	501.2
57.5°	468.4	462.9	462.9	465.6	462.9
60°	427.3	424.6	424.6	424.6	424.6
62.5°	391.7	386.2	386.2	386.2	386.2
65°	347.9	347.9	345.1	345.1	347.9
67.5°	306.8	306.8	304.0	306.8	306.8
70°	265.7	262.9	265.7	265.7	268.4
72.5°	221.9	224.6	224.6	224.6	227.3
75°	180.8	180.8	183.5	186.3	189.0
77.5°	139.7	142.4	147.9	150.6	153.4
80°	101.3	106.8	112.3	117.8	117.8
82.5°	65.7	71.2	82.2	90.4	90.4
85°	35.6	43.8	54.8	54.8	57.5
87.5°	13.7	21.9	30.1	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)