

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: P412059

Luminaire Tested: **MRI-2ASR-2-1000-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412059
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-2-1000-L840-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1441.0 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

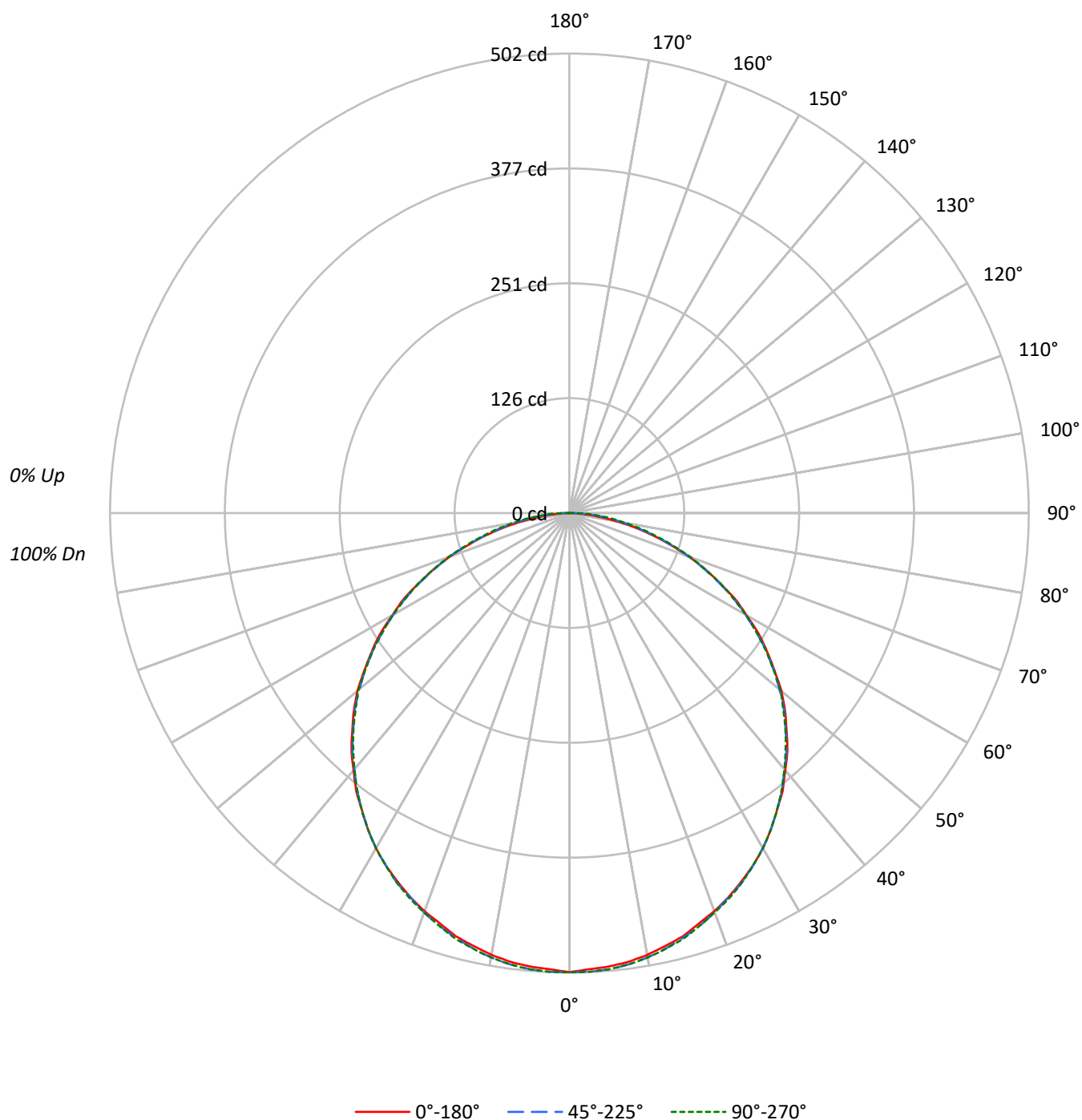
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		74	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°	16198	16198	16198
5°	16120	16214	16214
10°	16070	16165	16165
15°	16003	16050	16097
20°	15907	15955	15955
25°	15830	15880	15880
30°	15765	15765	15765
35°	15595	15595	15595
40°	15466	15407	15407
45°	15317	15248	15248
50°	15192	15046	15121
55°	14846	14767	14767
60°	14441	14344	14344
65°	13906	13799	13906
70°	13124	13124	13265
75°	11803	11977	12339
80°	9856	10934	11455
85°	6891	10634	11152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.3
10°-20°	135.5	9.4
20°-30°	205.2	14.2
30°-40°	247.8	17.2
40°-50°	258.1	17.9
50°-60°	234.4	16.3
60°-70°	179.2	12.4
70°-80°	102.6	7.1
80°-90°	30.7	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°	388.2	26.9
0°-40°	635.9	44.1
0°-60°	1128.5	78.3
0°-90°	1441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	497	499	500	500	500	47
15°	479	480	480	482	482	135
25°	444	444	446	446	446	205
35°	396	397	396	396	396	248
45°	335	335	334	334	334	259
55°	264	262	262	262	262	236
65°	182	182	181	181	182	180
75°	95	95	96	98	99	100
85°	19	23	29	29	30	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.6	501.6	501.6	501.6	501.6
2.5°	498.7	500.2	501.6	503.0	501.6
5°	497.3	498.7	500.2	500.2	500.2
7.5°	494.4	495.9	497.3	497.3	497.3
10°	490.1	491.6	493.0	493.0	493.0
12.5°	484.4	485.8	487.3	487.3	487.3
15°	478.7	480.1	480.1	481.5	481.5
17.5°	470.1	472.9	472.9	474.4	472.9
20°	462.9	464.3	464.3	464.3	464.3
22.5°	454.3	455.8	454.3	455.8	455.8
25°	444.3	444.3	445.7	445.7	445.7
27.5°	434.3	434.3	434.3	434.3	434.3
30°	422.8	422.8	422.8	422.8	422.8
32.5°	409.9	409.9	409.9	409.9	409.9
35°	395.6	397.0	395.6	395.6	395.6
37.5°	382.7	382.7	381.2	381.2	381.2
40°	366.9	366.9	365.5	365.5	365.5
42.5°	352.6	351.1	351.1	349.7	349.7
45°	335.4	335.4	333.9	333.9	333.9
47.5°	319.6	318.2	318.2	318.2	316.7
50°	302.4	301.0	299.5	299.5	301.0
52.5°	282.3	282.3	280.9	280.9	280.9
55°	263.7	262.3	262.3	262.3	262.3
57.5°	245.1	242.2	242.2	243.6	242.2
60°	223.6	222.1	222.1	222.1	222.1
62.5°	204.9	202.1	202.1	202.1	202.1
65°	182.0	182.0	180.6	180.6	182.0
67.5°	160.5	160.5	159.1	160.5	160.5
70°	139.0	137.6	139.0	139.0	140.5
72.5°	116.1	117.5	117.5	117.5	119.0
75°	94.6	94.6	96.0	97.5	98.9
77.5°	73.1	74.5	77.4	78.8	80.3
80°	53.0	55.9	58.8	61.6	61.6
82.5°	34.4	37.3	43.0	47.3	47.3
85°	18.6	22.9	28.7	28.7	30.1
87.5°	7.2	11.5	15.8	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)