

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: P412139

Luminaire Tested: **MRI-2ASR-4-1000-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412139
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-L950-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2924.0 lumens
Efficiency: N/A
Efficacy: 39.5 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

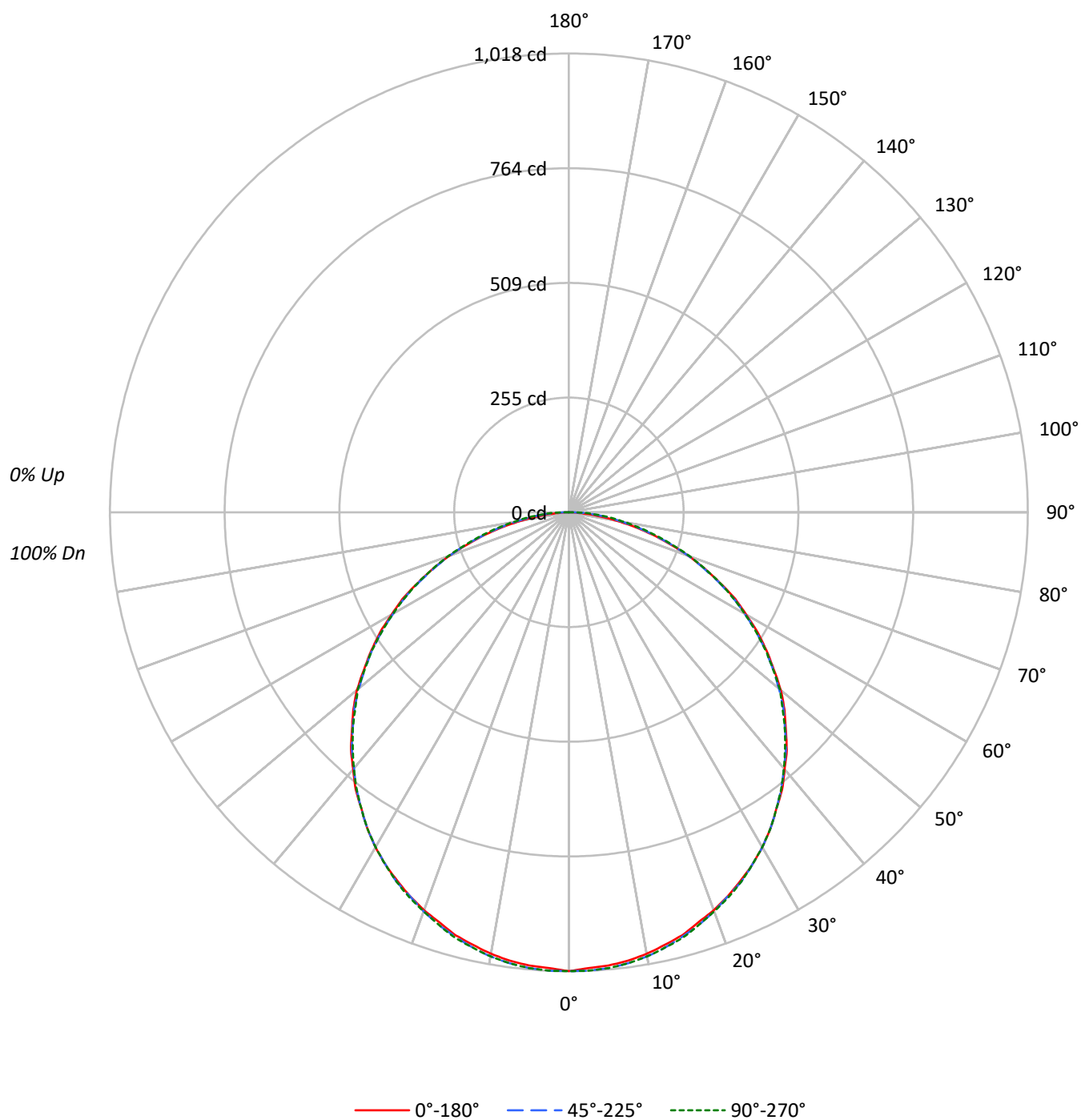
Input Watts (W): 74
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50		
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33		
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16433	16433	16433
5°	16355	16449	16449
10°	16306	16401	16401
15°	16236	16284	16333
20°	16139	16189	16189
25°	16060	16112	16112
30°	15994	15994	15994
35°	15820	15820	15820
40°	15692	15631	15631
45°	15538	15472	15472
50°	15413	15267	15340
55°	15063	14981	14981
60°	14651	14557	14557
65°	14109	13998	14109
70°	13317	13317	13454
75°	11971	12152	12520
80°	10005	11083	11623
85°	7003	10782	11319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.3
10°-20°	275.0	9.4
20°-30°	416.4	14.2
30°-40°	502.7	17.2
40°-50°	523.7	17.9
50°-60°	475.7	16.3
60°-70°	363.7	12.4
70°-80°	208.2	7.1
80°-90°	62.2	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°	787.7	26.9
0°-40°	1290.4	44.1
0°-60°	2289.8	78.3
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1009	1012	1015	1015	1015	96
15°	971	974	974	977	977	274
25°	902	902	904	904	904	416
35°	803	806	803	803	803	503
45°	680	680	678	678	678	526
55°	535	532	532	532	532	478
65°	369	369	366	366	369	366
75°	192	192	195	198	201	203
85°	38	46	58	58	61	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.8	1017.8	1017.8	1017.8	1017.8
2.5°	1012.0	1014.9	1017.8	1020.8	1017.8
5°	1009.1	1012.0	1014.9	1014.9	1014.9
7.5°	1003.3	1006.2	1009.1	1009.1	1009.1
10°	994.6	997.5	1000.4	1000.4	1000.4
12.5°	982.9	985.9	988.8	988.8	988.8
15°	971.3	974.2	974.2	977.1	977.1
17.5°	953.9	959.7	959.7	962.6	959.7
20°	939.3	942.2	942.2	942.2	942.2
22.5°	921.9	924.8	921.9	924.8	924.8
25°	901.5	901.5	904.4	904.4	904.4
27.5°	881.2	881.2	881.2	881.2	881.2
30°	857.9	857.9	857.9	857.9	857.9
32.5°	831.7	831.7	831.7	831.7	831.7
35°	802.6	805.6	802.6	802.6	802.6
37.5°	776.5	776.5	773.6	773.6	773.6
40°	744.5	744.5	741.6	741.6	741.6
42.5°	715.4	712.5	712.5	709.6	709.6
45°	680.5	680.5	677.6	677.6	677.6
47.5°	648.5	645.6	645.6	645.6	642.7
50°	613.6	610.7	607.8	607.8	610.7
52.5°	572.9	572.9	570.0	570.0	570.0
55°	535.1	532.2	532.2	532.2	532.2
57.5°	497.3	491.5	491.5	494.4	491.5
60°	453.7	450.8	450.8	450.8	450.8
62.5°	415.9	410.0	410.0	410.0	410.0
65°	369.3	369.3	366.4	366.4	369.3
67.5°	325.7	325.7	322.8	325.7	325.7
70°	282.1	279.2	282.1	282.1	285.0
72.5°	235.6	238.5	238.5	238.5	241.4
75°	191.9	191.9	194.8	197.8	200.7
77.5°	148.3	151.2	157.0	159.9	162.9
80°	107.6	113.4	119.2	125.0	125.0
82.5°	69.8	75.6	87.2	96.0	96.0
85°	37.8	46.5	58.2	58.2	61.1
87.5°	14.5	23.3	32.0	40.7	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)