

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: P412135

Luminaire Tested: **MRI-2ASR-4-1000-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412135
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-L935-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2726.0 lumens
Efficiency: N/A
Efficacy: 36.8 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

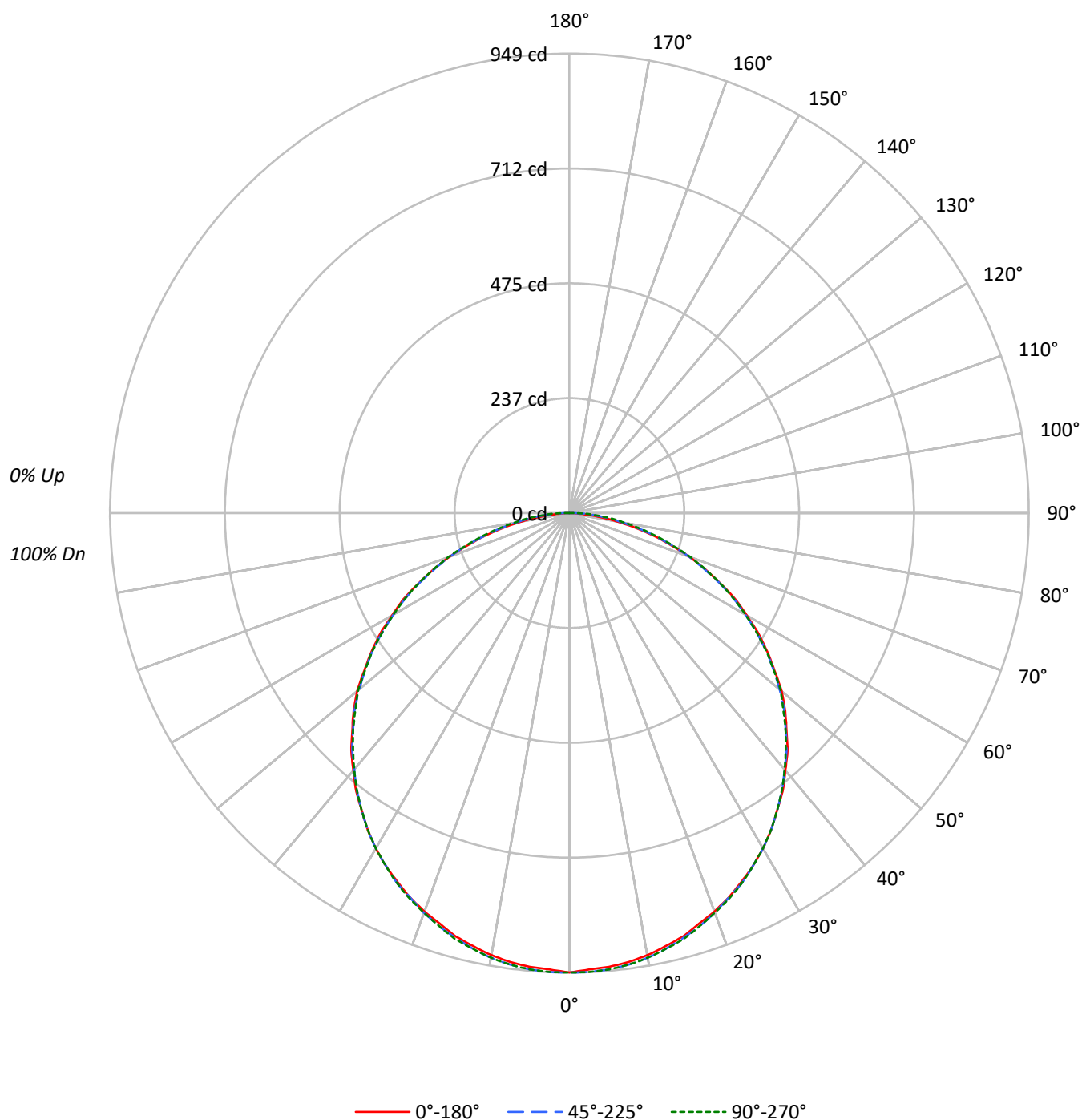
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15321	15321	15321
5°	15248	15336	15336
10°	15201	15292	15292
15°	15136	15183	15228
20°	15046	15093	15093
25°	14973	15022	15022
30°	14911	14911	14911
35°	14749	14749	14749
40°	14629	14573	14573
45°	14486	14424	14424
50°	14370	14232	14302
55°	14044	13968	13968
60°	13656	13569	13569
65°	13154	13051	13154
70°	12416	12416	12543
75°	11160	11335	11672
80°	9326	10339	10841
85°	6521	10041	10541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.3
10°-20°	256.4	9.4
20°-30°	388.2	14.2
30°-40°	468.7	17.2
40°-50°	488.2	17.9
50°-60°	443.5	16.3
60°-70°	339.1	12.4
70°-80°	194.1	7.1
80°-90°	58.0	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°	734.4	26.9
0°-40°	1203.0	44.1
0°-60°	2134.8	78.3
0°-90°	2726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	941	944	946	946	946	89
15°	906	908	908	911	911	255
25°	840	840	843	843	843	388
35°	748	751	748	748	748	469
45°	634	634	632	632	632	490
55°	499	496	496	496	496	446
65°	344	344	342	342	344	341
75°	179	179	182	184	187	189
85°	35	43	54	54	57	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.9	948.9	948.9	948.9	948.9
2.5°	943.5	946.2	948.9	951.6	948.9
5°	940.8	943.5	946.2	946.2	946.2
7.5°	935.4	938.1	940.8	940.8	940.8
10°	927.2	929.9	932.7	932.7	932.7
12.5°	916.4	919.1	921.8	921.8	921.8
15°	905.5	908.3	908.3	911.0	911.0
17.5°	889.3	894.7	894.7	897.4	894.7
20°	875.7	878.4	878.4	878.4	878.4
22.5°	859.5	862.2	859.5	862.2	862.2
25°	840.5	840.5	843.2	843.2	843.2
27.5°	821.5	821.5	821.5	821.5	821.5
30°	799.8	799.8	799.8	799.8	799.8
32.5°	775.4	775.4	775.4	775.4	775.4
35°	748.3	751.0	748.3	748.3	748.3
37.5°	723.9	723.9	721.2	721.2	721.2
40°	694.1	694.1	691.4	691.4	691.4
42.5°	667.0	664.2	664.2	661.5	661.5
45°	634.4	634.4	631.7	631.7	631.7
47.5°	604.6	601.9	601.9	601.9	599.2
50°	572.1	569.4	566.6	566.6	569.4
52.5°	534.1	534.1	531.4	531.4	531.4
55°	498.9	496.2	496.2	496.2	496.2
57.5°	463.6	458.2	458.2	460.9	458.2
60°	422.9	420.2	420.2	420.2	420.2
62.5°	387.7	382.3	382.3	382.3	382.3
65°	344.3	344.3	341.6	341.6	344.3
67.5°	303.7	303.7	300.9	303.7	303.7
70°	263.0	260.3	263.0	263.0	265.7
72.5°	219.6	222.3	222.3	222.3	225.0
75°	178.9	178.9	181.7	184.4	187.1
77.5°	138.3	141.0	146.4	149.1	151.8
80°	100.3	105.7	111.2	116.6	116.6
82.5°	65.1	70.5	81.3	89.5	89.5
85°	35.2	43.4	54.2	54.2	56.9
87.5°	13.6	21.7	29.8	38.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)