

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: P412207

Luminaire Tested: **MRI-2ASR-8-1000-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412207
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-8-1000-L935-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.0 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

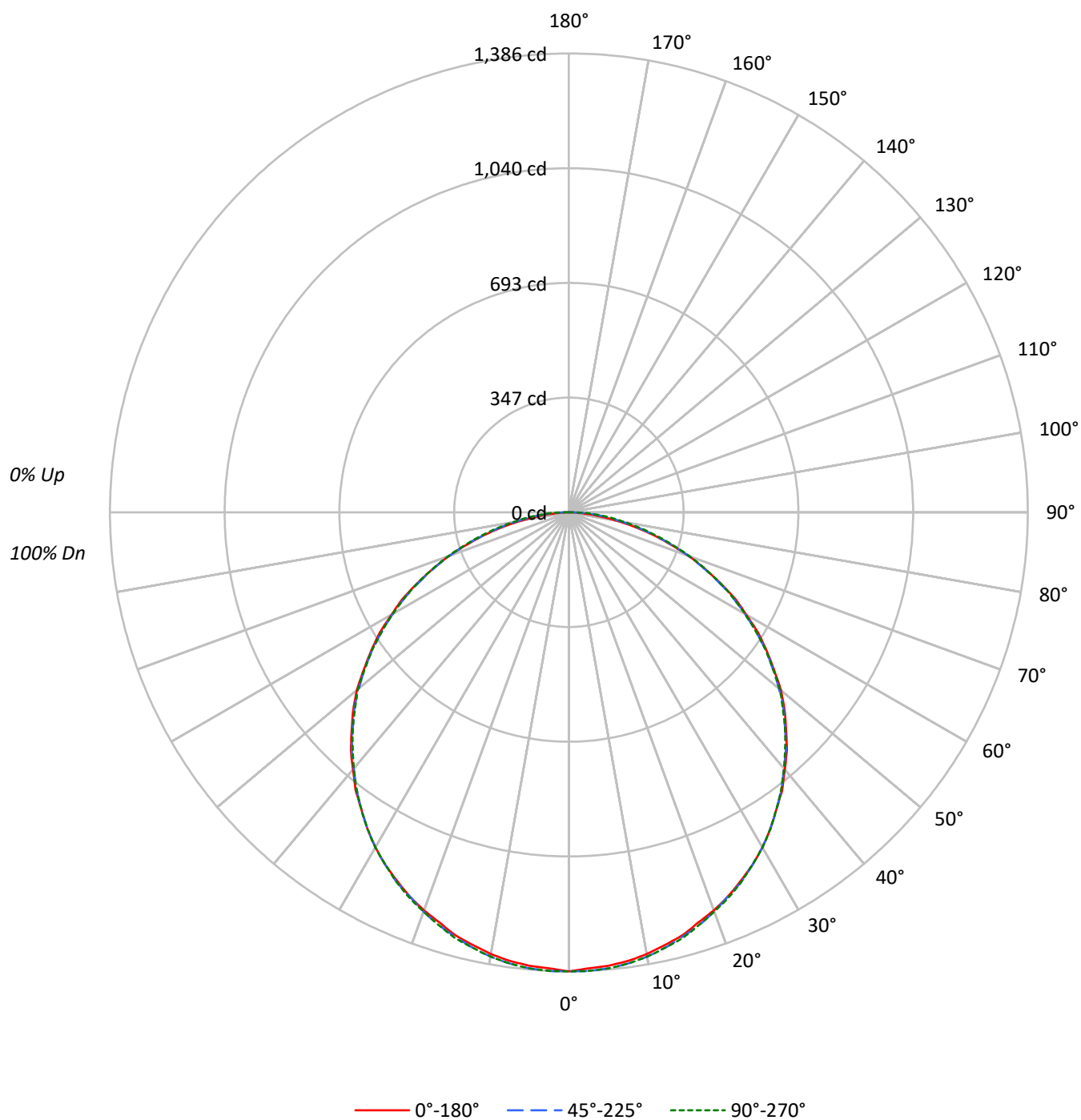
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11193	11193	11193
5°	11139	11203	11203
10°	11106	11171	11171
15°	11058	11092	11124
20°	10992	11027	11027
25°	10938	10974	10974
30°	10893	10893	10893
35°	10775	10775	10775
40°	10687	10646	10646
45°	10583	10538	10538
50°	10498	10398	10448
55°	10259	10203	10203
60°	9978	9914	9914
65°	9610	9534	9610
70°	9071	9071	9163
75°	8157	8278	8525
80°	6815	7550	7917
85°	4770	7336	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.3
10°-20°	374.6	9.4
20°-30°	567.2	14.2
30°-40°	684.8	17.2
40°-50°	713.4	17.9
50°-60°	648.0	16.3
60°-70°	495.5	12.4
70°-80°	283.7	7.1
80°-90°	84.7	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°	1073.0	26.9
0°-40°	1757.8	44.1
0°-60°	3119.1	78.3
0°-90°	3983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1375	1379	1382	1382	1382	131
15°	1323	1327	1327	1331	1331	373
25°	1228	1228	1232	1232	1232	566
35°	1093	1097	1093	1093	1093	685
45°	927	927	923	923	923	716
55°	729	725	725	725	725	652
65°	503	503	499	499	503	498
75°	262	262	265	269	273	277
85°	52	63	79	79	83	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1378.6	1382.5	1386.5	1390.4	1386.5
5°	1374.6	1378.6	1382.5	1382.5	1382.5
7.5°	1366.7	1370.6	1374.6	1374.6	1374.6
10°	1354.8	1358.8	1362.7	1362.7	1362.7
12.5°	1338.9	1342.9	1346.9	1346.9	1346.9
15°	1323.1	1327.1	1327.1	1331.0	1331.0
17.5°	1299.3	1307.3	1307.3	1311.2	1307.3
20°	1279.5	1283.5	1283.5	1283.5	1283.5
22.5°	1255.8	1259.7	1255.8	1259.7	1259.7
25°	1228.0	1228.0	1232.0	1232.0	1232.0
27.5°	1200.3	1200.3	1200.3	1200.3	1200.3
30°	1168.6	1168.6	1168.6	1168.6	1168.6
32.5°	1133.0	1133.0	1133.0	1133.0	1133.0
35°	1093.3	1097.3	1093.3	1093.3	1093.3
37.5°	1057.7	1057.7	1053.7	1053.7	1053.7
40°	1014.1	1014.1	1010.2	1010.2	1010.2
42.5°	974.5	970.5	970.5	966.6	966.6
45°	927.0	927.0	923.0	923.0	923.0
47.5°	883.4	879.4	879.4	879.4	875.5
50°	835.9	831.9	827.9	827.9	831.9
52.5°	780.4	780.4	776.4	776.4	776.4
55°	728.9	724.9	724.9	724.9	724.9
57.5°	677.4	669.5	669.5	673.4	669.5
60°	618.0	614.0	614.0	614.0	614.0
62.5°	566.5	558.6	558.6	558.6	558.6
65°	503.1	503.1	499.1	499.1	503.1
67.5°	443.7	443.7	439.7	443.7	443.7
70°	384.3	380.3	384.3	384.3	388.2
72.5°	320.9	324.8	324.8	324.8	328.8
75°	261.5	261.5	265.4	269.4	273.3
77.5°	202.0	206.0	213.9	217.9	221.8
80°	146.6	154.5	162.4	170.3	170.3
82.5°	95.1	103.0	118.8	130.7	130.7
85°	51.5	63.4	79.2	79.2	83.2
87.5°	19.8	31.7	43.6	55.5	55.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)