

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: P412209

Luminaire Tested: **MRI-2ASR-8-1000-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412209
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-L940-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 39.7 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

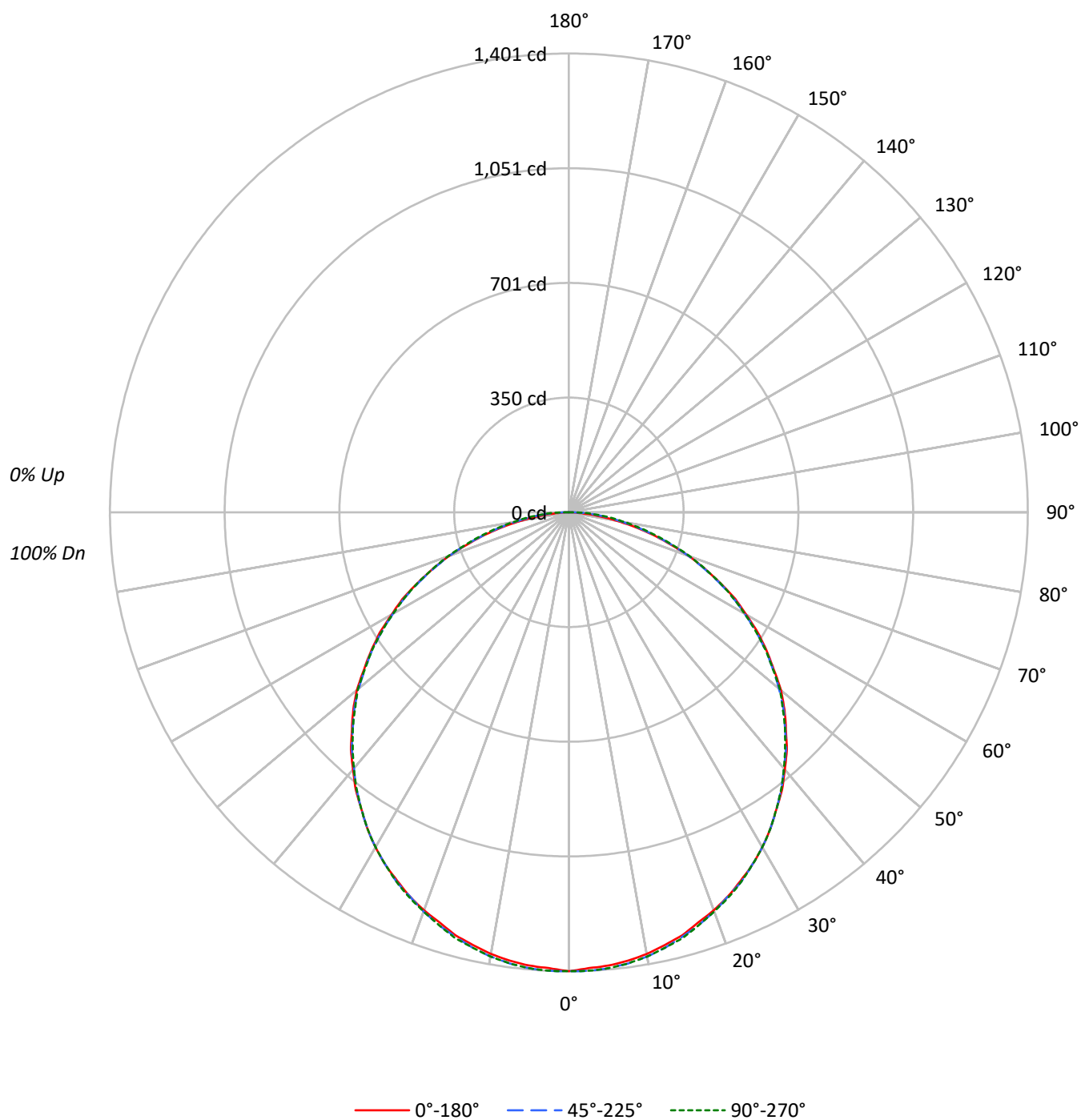
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11311	11311	11311
5°	11257	11322	11322
10°	11223	11289	11289
15°	11175	11209	11242
20°	11108	11143	11143
25°	11054	11090	11090
30°	11008	11008	11008
35°	10889	10889	10889
40°	10800	10758	10758
45°	10694	10648	10648
50°	10609	10508	10559
55°	10367	10311	10311
60°	10083	10018	10018
65°	9712	9635	9712
70°	9165	9165	9260
75°	8241	8366	8615
80°	6885	7629	8001
85°	4817	7419	7790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	3.3
10°-20°	378.6	9.4
20°-30°	573.2	14.2
30°-40°	692.0	17.2
40°-50°	720.9	17.9
50°-60°	654.8	16.3
60°-70°	500.7	12.4
70°-80°	286.7	7.1
80°-90°	85.6	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°	1084.3	26.9
0°-40°	1776.3	44.1
0°-60°	3152.0	78.3
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1389	1393	1397	1397	1397	132
15°	1337	1341	1341	1345	1345	377
25°	1241	1241	1245	1245	1245	572
35°	1105	1109	1105	1105	1105	692
45°	937	937	933	933	933	724
55°	737	733	733	733	733	659
65°	508	508	504	504	508	504
75°	264	264	268	272	276	280
85°	52	64	80	80	84	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1393.1	1397.1	1401.1	1405.1	1401.1
5°	1389.1	1393.1	1397.1	1397.1	1397.1
7.5°	1381.1	1385.1	1389.1	1389.1	1389.1
10°	1369.1	1373.1	1377.1	1377.1	1377.1
12.5°	1353.1	1357.1	1361.1	1361.1	1361.1
15°	1337.1	1341.1	1341.1	1345.1	1345.1
17.5°	1313.0	1321.0	1321.0	1325.0	1321.0
20°	1293.0	1297.0	1297.0	1297.0	1297.0
22.5°	1269.0	1273.0	1269.0	1273.0	1273.0
25°	1241.0	1241.0	1245.0	1245.0	1245.0
27.5°	1213.0	1213.0	1213.0	1213.0	1213.0
30°	1180.9	1180.9	1180.9	1180.9	1180.9
32.5°	1144.9	1144.9	1144.9	1144.9	1144.9
35°	1104.9	1108.9	1104.9	1104.9	1104.9
37.5°	1068.8	1068.8	1064.8	1064.8	1064.8
40°	1024.8	1024.8	1020.8	1020.8	1020.8
42.5°	984.8	980.8	980.8	976.8	976.8
45°	936.7	936.7	932.7	932.7	932.7
47.5°	892.7	888.7	888.7	888.7	884.7
50°	844.7	840.7	836.7	836.7	840.7
52.5°	788.6	788.6	784.6	784.6	784.6
55°	736.6	732.6	732.6	732.6	732.6
57.5°	684.5	676.5	676.5	680.5	676.5
60°	624.5	620.5	620.5	620.5	620.5
62.5°	572.5	564.4	564.4	564.4	564.4
65°	508.4	508.4	504.4	504.4	508.4
67.5°	448.4	448.4	444.4	448.4	448.4
70°	388.3	384.3	388.3	388.3	392.3
72.5°	324.3	328.3	328.3	328.3	332.3
75°	264.2	264.2	268.2	272.2	276.2
77.5°	204.2	208.2	216.2	220.2	224.2
80°	148.1	156.1	164.1	172.1	172.1
82.5°	96.1	104.1	120.1	132.1	132.1
85°	52.0	64.1	80.1	80.1	84.1
87.5°	20.0	32.0	44.0	56.0	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)