

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: P412243

Luminaire Tested: **MRI-4ASR-8-1000-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-8-1000-L935-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.0 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

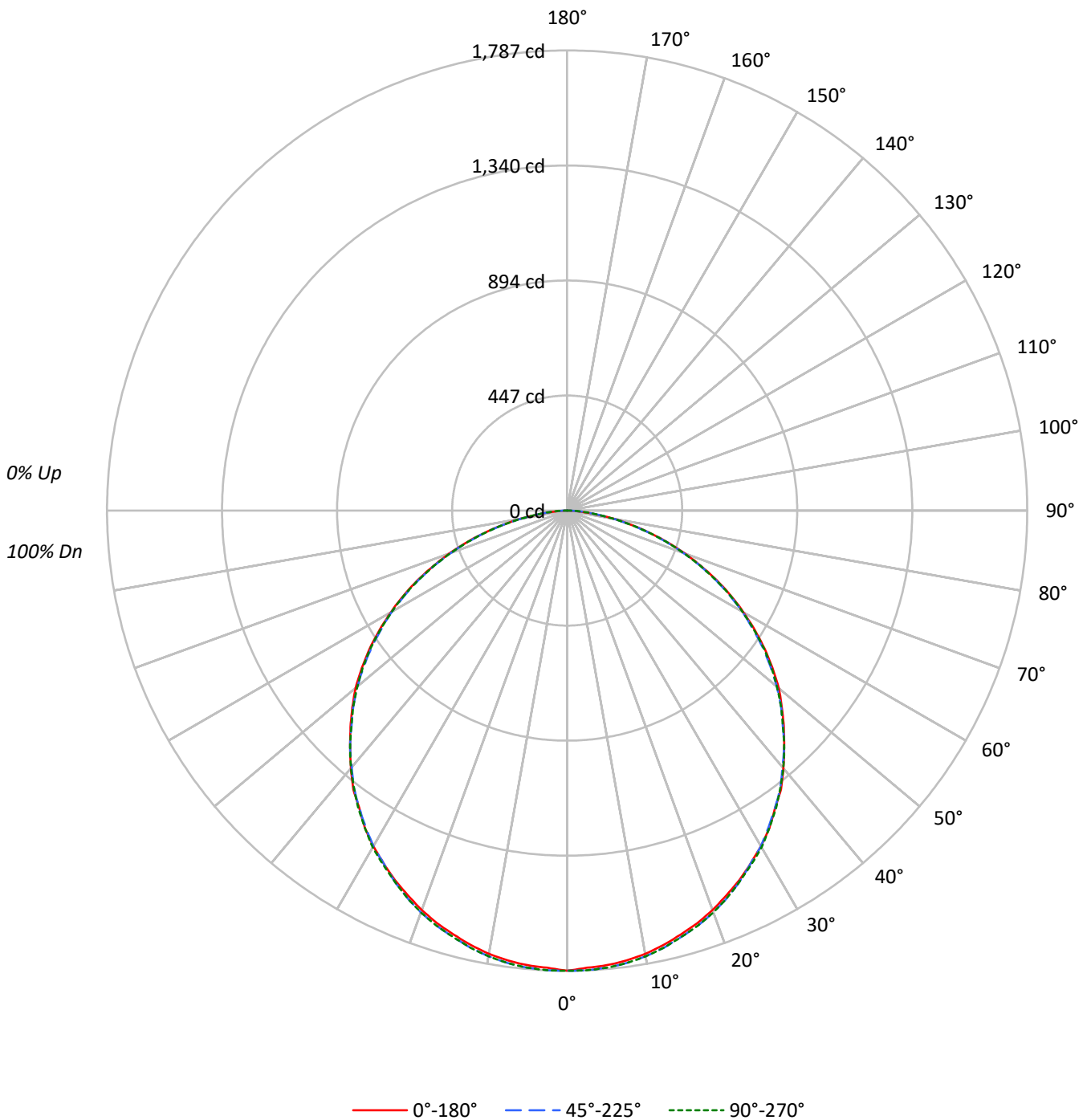
Input Watts (W): 97.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7212	7212	7212
5°	7181	7220	7220
10°	7164	7204	7204
15°	7122	7162	7162
20°	7091	7133	7133
25°	7049	7071	7071
30°	7016	7016	7038
35°	6938	6938	6962
40°	6882	6856	6882
45°	6791	6763	6763
50°	6738	6677	6677
55°	6595	6526	6560
60°	6389	6350	6350
65°	6121	6075	6075
70°	5730	5673	5673
75°	5150	5073	5073
80°	4289	4175	4175
85°	2700	2922	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.3
10°-20°	483.5	9.5
20°-30°	731.3	14.4
30°-40°	882.2	17.4
40°-50°	916.3	18.1
50°-60°	830.0	16.4
60°-70°	629.0	12.4
70°-80°	346.5	6.8
80°-90°	81.0	1.6
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°	1384.0	27.3
0°-40°	2266.2	44.7
0°-60°	4012.5	79.2
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1772	1777	1782	1787	1782	168
15°	1704	1709	1714	1719	1714	481
25°	1583	1583	1588	1588	1588	730
35°	1408	1408	1408	1408	1413	883
45°	1190	1185	1185	1190	1185	919
55°	937	927	927	927	932	836
65°	641	636	636	636	636	634
75°	330	330	325	325	325	349
85°	58	63	63	68	68	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.8	1786.8	1786.8	1786.8	1786.8
2.5°	1777.1	1781.9	1786.8	1791.6	1786.8
5°	1772.2	1777.1	1781.9	1786.8	1781.9
7.5°	1762.5	1767.3	1772.2	1777.1	1772.2
10°	1747.9	1752.8	1757.6	1762.5	1757.6
12.5°	1728.5	1733.4	1738.2	1738.2	1738.2
15°	1704.2	1709.1	1713.9	1718.8	1713.9
17.5°	1679.9	1684.8	1689.7	1689.7	1689.7
20°	1650.8	1655.7	1660.5	1660.5	1660.5
22.5°	1616.8	1621.7	1626.5	1626.5	1626.5
25°	1582.8	1582.8	1587.7	1587.7	1587.7
27.5°	1544.0	1544.0	1544.0	1548.9	1548.9
30°	1505.2	1505.2	1505.2	1505.2	1510.0
32.5°	1461.5	1461.5	1456.6	1461.5	1461.5
35°	1408.0	1408.0	1408.0	1408.0	1412.9
37.5°	1364.4	1354.6	1359.5	1359.5	1359.5
40°	1306.1	1306.1	1301.2	1306.1	1306.1
42.5°	1247.8	1247.8	1247.8	1247.8	1247.8
45°	1189.6	1184.7	1184.7	1189.6	1184.7
47.5°	1131.3	1126.4	1126.4	1126.4	1126.4
50°	1073.0	1063.3	1063.3	1063.3	1063.3
52.5°	1005.1	995.3	995.3	995.3	1000.2
55°	937.1	927.4	927.4	927.4	932.2
57.5°	864.3	859.4	854.5	859.4	859.4
60°	791.4	786.6	786.6	786.6	786.6
62.5°	718.6	713.7	708.9	708.9	713.7
65°	640.9	636.0	636.0	636.0	636.0
67.5°	563.2	558.4	558.4	558.4	558.4
70°	485.5	480.7	480.7	485.5	480.7
72.5°	407.8	403.0	403.0	403.0	403.0
75°	330.2	330.2	325.3	325.3	325.3
77.5°	252.5	252.5	252.5	252.5	252.5
80°	184.5	179.6	179.6	179.6	179.6
82.5°	111.7	111.7	116.5	116.5	116.5
85°	58.3	63.1	63.1	68.0	68.0
87.5°	19.4	24.3	29.1	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)