

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: P412134

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
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-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5360.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

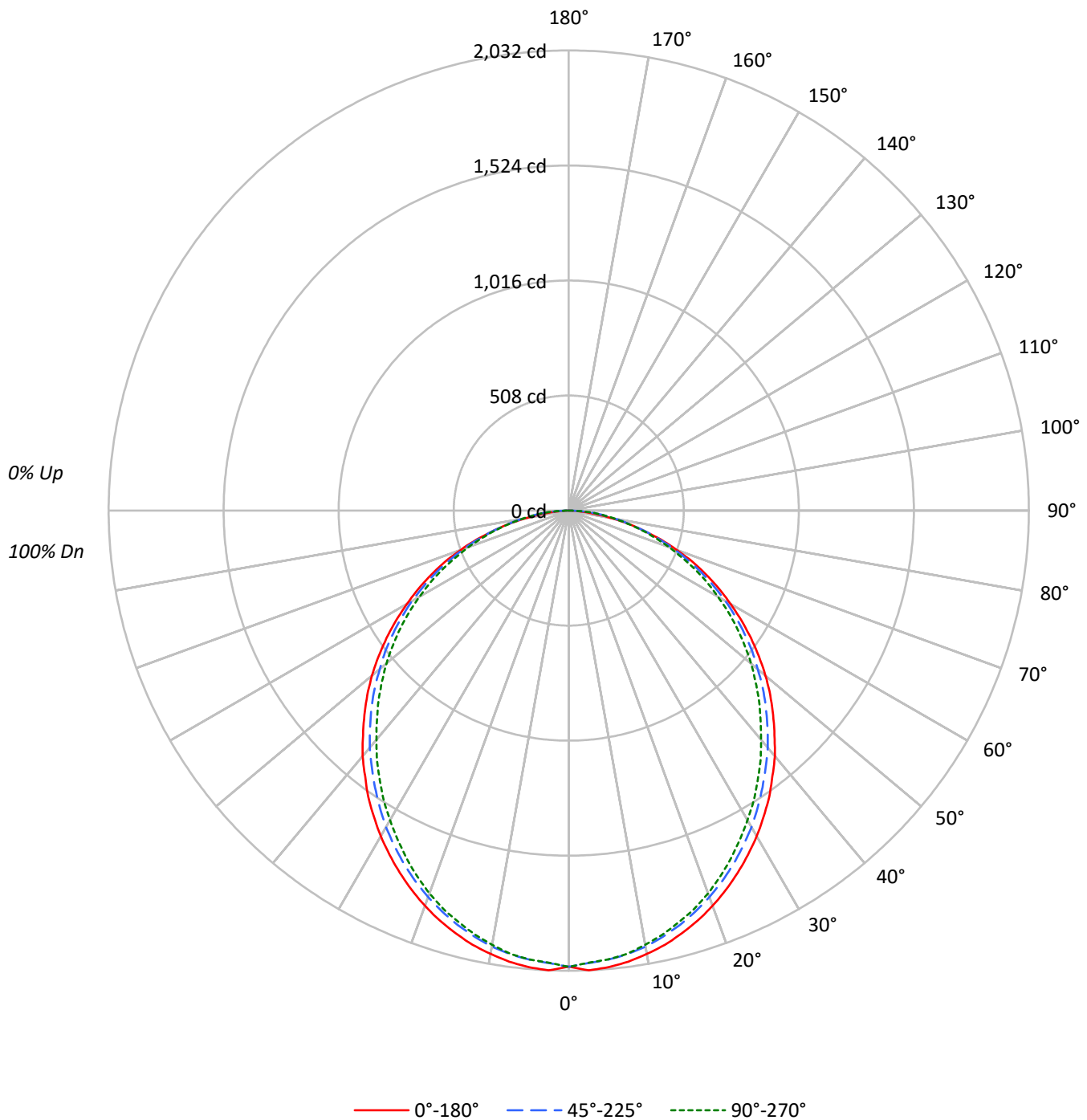
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		98	94	91		94	91	89		90	88	86
2	99	91	84	78	96	89	83	77		85	80	76		82	78	74		79	75	72
3	90	80	72	65	88	78	71	65		75	69	63		72	67	62		70	65	61
4	83	71	62	55	80	69	61	55		67	60	54		65	58	53		62	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	64	51	43	37		49	42	37		48	41	36		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	30		42	35	30		41	34	29		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32523	32523	32523
5°	32802	32266	32246
10°	32588	32057	31921
15°	32301	31664	31440
20°	31914	31204	30900
25°	31449	30658	30182
30°	30958	30081	29431
35°	30425	29398	28661
40°	29843	28799	27836
45°	29140	28111	27124
50°	28497	27349	26407
55°	27646	26660	25571
60°	26624	25804	24555
65°	25605	24657	23564
70°	23929	23212	22192
75°	21397	21441	20686
80°	17601	19256	19080
85°	11893	18359	18951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.5
10°-20°	536.9	10.0
20°-30°	796.0	14.9
30°-40°	936.1	17.5
40°-50°	950.9	17.7
50°-60°	845.9	15.8
60°-70°	637.9	11.9
70°-80°	362.5	6.8
80°-90°	103.8	1.9
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°	1523.0	28.4
0°-40°	2459.1	45.9
0°-60°	4255.9	79.4
0°-90°	5360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2024	2010	1991	2005	1990	192
15°	1932	1917	1894	1901	1881	545
25°	1765	1747	1721	1714	1694	813
35°	1544	1523	1492	1472	1454	965
45°	1276	1260	1231	1206	1188	985
55°	982	972	947	920	908	878
65°	670	666	645	625	617	662
75°	343	348	344	334	332	366
85°	64	88	99	99	102	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2014.3	2014.3	2014.3	2014.3	2014.3
2.5°	2032.1	2018.1	1999.7	2015.0	1998.5
5°	2023.9	2009.9	1990.8	2005.4	1989.6
7.5°	2009.3	1995.3	1976.2	1989.6	1974.3
10°	1987.7	1975.0	1955.3	1966.1	1947.0
12.5°	1964.2	1947.6	1926.7	1936.2	1917.1
15°	1932.4	1917.1	1894.3	1901.3	1880.9
17.5°	1897.5	1879.7	1857.4	1861.2	1844.1
20°	1857.4	1839.6	1816.1	1817.4	1798.4
22.5°	1813.0	1796.4	1771.0	1766.6	1748.8
25°	1765.3	1746.9	1720.9	1714.5	1694.2
27.5°	1713.9	1696.7	1668.8	1658.6	1637.0
30°	1660.5	1640.2	1613.5	1598.3	1578.6
32.5°	1602.1	1583.6	1553.8	1534.7	1519.5
35°	1543.6	1522.7	1491.5	1472.5	1454.1
37.5°	1477.6	1457.9	1428.6	1409.6	1391.2
40°	1415.9	1394.3	1366.4	1342.9	1320.7
42.5°	1344.8	1329.6	1299.1	1275.6	1254.0
45°	1276.2	1260.3	1231.1	1206.3	1187.9
47.5°	1206.9	1191.1	1163.1	1136.4	1118.7
50°	1134.5	1117.4	1088.8	1065.3	1051.3
52.5°	1058.9	1046.9	1021.5	994.8	978.9
55°	982.1	971.9	947.1	920.5	908.4
57.5°	904.6	896.3	873.5	848.0	836.0
60°	824.5	820.7	799.1	775.0	760.4
62.5°	748.9	743.2	721.0	703.2	689.9
65°	670.2	665.7	645.4	625.1	616.8
67.5°	590.8	585.7	566.6	552.7	540.0
70°	506.9	506.9	491.7	478.3	470.1
72.5°	427.5	428.1	418.0	404.0	400.2
75°	343.0	348.1	343.7	334.1	331.6
77.5°	268.1	272.5	273.2	270.0	265.5
80°	189.3	202.0	207.1	206.5	205.2
82.5°	121.3	141.7	151.2	150.6	151.8
85°	64.2	88.3	99.1	99.1	102.3
87.5°	22.2	45.1	48.3	44.5	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)