

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: P412239

Luminaire Tested: **MRI-4ASR-8-1000-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412239
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-L840-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5995.0 lumens
Efficiency: N/A
Efficacy: 61.6 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

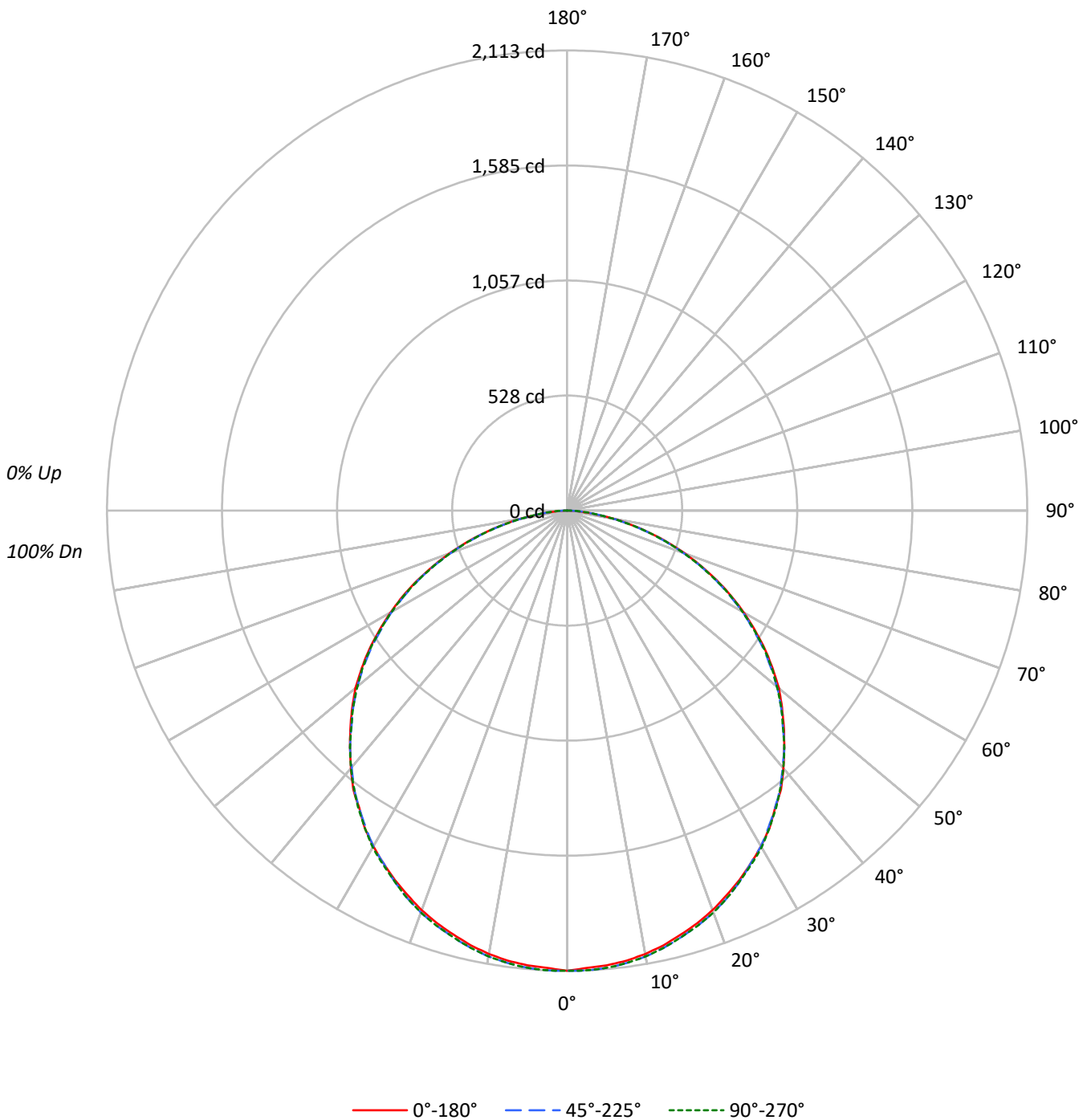
Input Watts (W): 97.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8530	8530	8530
5°	8492	8539	8539
10°	8473	8520	8520
15°	8423	8471	8471
20°	8387	8436	8436
25°	8337	8363	8363
30°	8297	8297	8324
35°	8206	8206	8234
40°	8139	8109	8139
45°	8031	7998	7998
50°	7969	7897	7897
55°	7800	7719	7759
60°	7556	7510	7510
65°	7240	7184	7184
70°	6777	6709	6709
75°	6090	6000	6000
80°	5072	4940	4940
85°	3191	3460	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.3
10°-20°	571.9	9.5
20°-30°	864.9	14.4
30°-40°	1043.4	17.4
40°-50°	1083.8	18.1
50°-60°	981.6	16.4
60°-70°	743.9	12.4
70°-80°	409.8	6.8
80°-90°	95.8	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°	1636.9	27.3
0°-40°	2680.2	44.7
0°-60°	4745.6	79.2
0°-90°	5995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2096	2102	2107	2113	2107	199
15°	2016	2021	2027	2033	2027	569
25°	1872	1872	1878	1878	1878	863
35°	1665	1665	1665	1665	1671	1045
45°	1407	1401	1401	1407	1401	1087
55°	1108	1097	1097	1097	1102	989
65°	758	752	752	752	752	749
75°	390	390	385	385	385	413
85°	69	75	75	80	80	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.2	2113.2	2113.2	2113.2	2113.2
2.5°	2101.7	2107.4	2113.2	2118.9	2113.2
5°	2095.9	2101.7	2107.4	2113.2	2107.4
7.5°	2084.5	2090.2	2095.9	2101.7	2095.9
10°	2067.2	2073.0	2078.7	2084.5	2078.7
12.5°	2044.3	2050.0	2055.7	2055.7	2055.7
15°	2015.6	2021.3	2027.0	2032.8	2027.0
17.5°	1986.8	1992.6	1998.3	1998.3	1998.3
20°	1952.4	1958.1	1963.9	1963.9	1963.9
22.5°	1912.2	1917.9	1923.7	1923.7	1923.7
25°	1872.0	1872.0	1877.7	1877.7	1877.7
27.5°	1826.1	1826.1	1826.1	1831.8	1831.8
30°	1780.1	1780.1	1780.1	1780.1	1785.9
32.5°	1728.4	1728.4	1722.7	1728.4	1728.4
35°	1665.3	1665.3	1665.3	1665.3	1671.0
37.5°	1613.6	1602.1	1607.8	1607.8	1607.8
40°	1544.7	1544.7	1538.9	1544.7	1544.7
42.5°	1475.8	1475.8	1475.8	1475.8	1475.8
45°	1406.9	1401.1	1401.1	1406.9	1401.1
47.5°	1338.0	1332.2	1332.2	1332.2	1332.2
50°	1269.1	1257.6	1257.6	1257.6	1257.6
52.5°	1188.7	1177.2	1177.2	1177.2	1182.9
55°	1108.3	1096.8	1096.8	1096.8	1102.5
57.5°	1022.1	1016.4	1010.6	1016.4	1016.4
60°	936.0	930.3	930.3	930.3	930.3
62.5°	849.9	844.1	838.4	838.4	844.1
65°	758.0	752.2	752.2	752.2	752.2
67.5°	666.1	660.4	660.4	660.4	660.4
70°	574.2	568.5	568.5	574.2	568.5
72.5°	482.4	476.6	476.6	476.6	476.6
75°	390.5	390.5	384.7	384.7	384.7
77.5°	298.6	298.6	298.6	298.6	298.6
80°	218.2	212.5	212.5	212.5	212.5
82.5°	132.1	132.1	137.8	137.8	137.8
85°	68.9	74.7	74.7	80.4	80.4
87.5°	23.0	28.7	34.5	40.2	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)