

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: P412132

Luminaire Tested: **MRI-2ASR-4-1000-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412132
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-L850-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6820.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

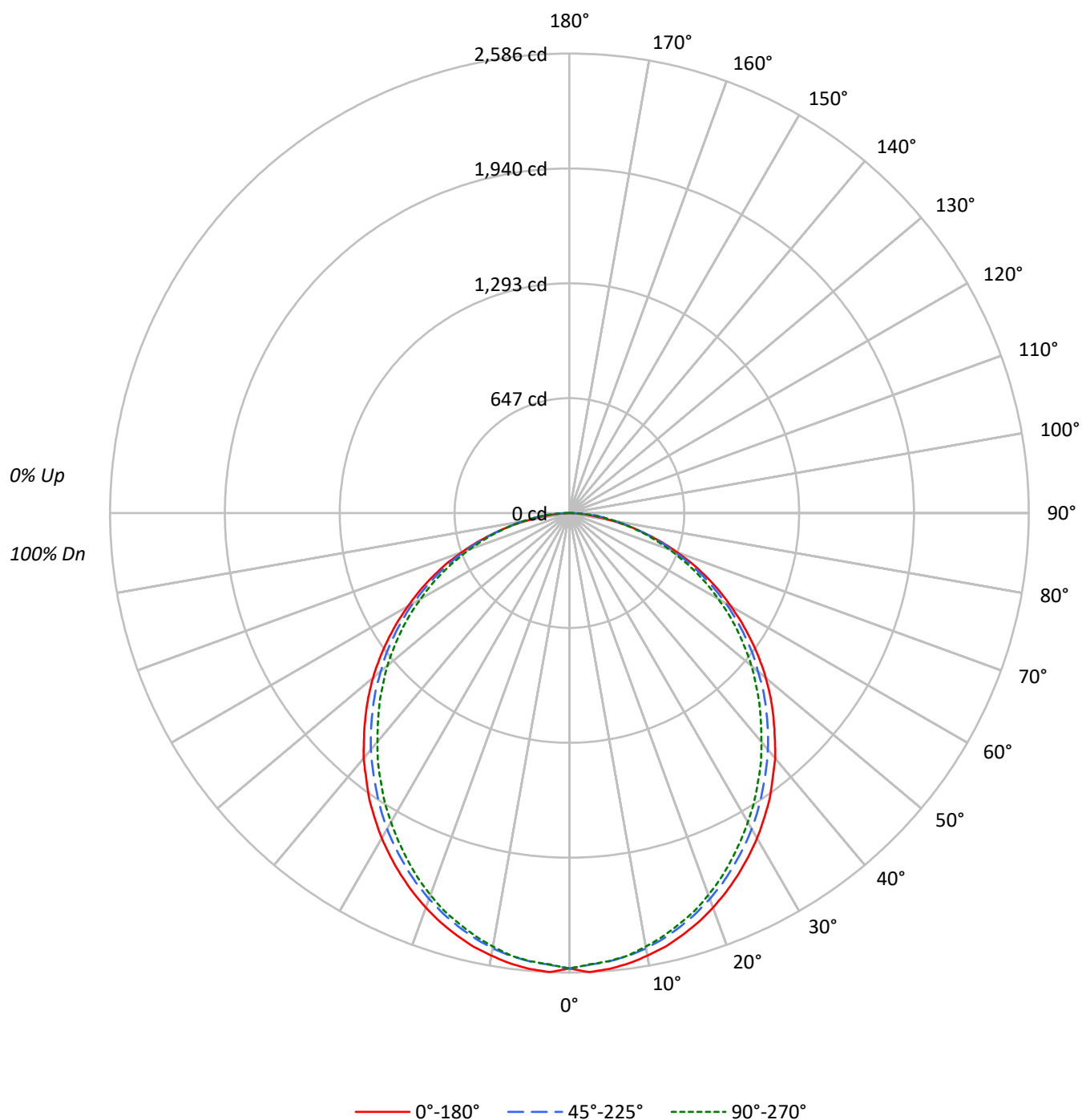
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
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	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	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51	
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30	
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41382	41382	41382
5°	41736	41055	41029
10°	41464	40787	40615
15°	41100	40289	40005
20°	40608	39704	39316
25°	40016	39008	38402
30°	39390	38275	37446
35°	38713	37406	36466
40°	37972	36644	35418
45°	37077	35767	34513
50°	36261	34799	33601
55°	35176	33923	32535
60°	33877	32834	31242
65°	32577	31373	29983
70°	30449	29533	28235
75°	27230	27280	26319
80°	22399	24500	24277
85°	15117	23360	24101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	3.5
10°-20°	683.2	10.0
20°-30°	1012.8	14.9
30°-40°	1191.1	17.5
40°-50°	1209.9	17.7
50°-60°	1076.3	15.8
60°-70°	811.6	11.9
70°-80°	461.2	6.8
80°-90°	132.1	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°	1937.8	28.4
0°-40°	3128.9	45.9
0°-60°	5415.1	79.4
0°-90°	6820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2563	2563	2563	2563	2563	
5°	2575	2557	2533	2552	2532	244
15°	2459	2439	2410	2419	2393	693
25°	2246	2223	2190	2182	2156	1035
35°	1964	1937	1898	1874	1850	1227
45°	1624	1604	1566	1535	1512	1253
55°	1250	1237	1205	1171	1156	1117
65°	853	847	821	795	785	842
75°	436	443	437	425	422	465
85°	82	112	126	126	130	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2563.0	2563.0	2563.0	2563.0	2563.0
2.5°	2585.6	2567.9	2544.4	2563.8	2542.8
5°	2575.1	2557.4	2533.1	2551.7	2531.5
7.5°	2556.6	2538.8	2514.5	2531.5	2512.1
10°	2529.1	2512.9	2487.8	2501.6	2477.3
12.5°	2499.2	2478.1	2451.5	2463.6	2439.4
15°	2458.8	2439.4	2410.3	2419.1	2393.3
17.5°	2414.3	2391.7	2363.4	2368.2	2346.4
20°	2363.4	2340.7	2310.8	2312.5	2288.2
22.5°	2306.8	2285.8	2253.5	2247.8	2225.2
25°	2246.2	2222.7	2189.6	2181.5	2155.6
27.5°	2180.7	2158.9	2123.3	2110.4	2082.9
30°	2112.8	2086.9	2053.0	2033.6	2008.5
32.5°	2038.5	2015.0	1977.0	1952.8	1933.4
35°	1964.1	1937.4	1897.8	1873.6	1850.1
37.5°	1880.0	1855.0	1817.8	1793.5	1770.1
40°	1801.6	1774.1	1738.6	1708.7	1680.4
42.5°	1711.1	1691.7	1652.9	1623.0	1595.5
45°	1623.8	1603.6	1566.4	1534.9	1511.5
47.5°	1535.7	1515.5	1479.9	1446.0	1423.4
50°	1443.6	1421.7	1385.4	1355.5	1337.7
52.5°	1347.4	1332.0	1299.7	1265.7	1245.5
55°	1249.6	1236.6	1205.1	1171.2	1155.8
57.5°	1151.0	1140.5	1111.4	1079.0	1063.7
60°	1049.1	1044.3	1016.8	986.1	967.5
62.5°	952.9	945.7	917.4	894.8	877.8
65°	852.7	847.1	821.2	795.3	784.8
67.5°	751.7	745.2	721.0	703.2	687.0
70°	645.0	645.0	625.6	608.6	598.1
72.5°	544.0	544.8	531.8	514.1	509.2
75°	436.5	442.9	437.3	425.1	421.9
77.5°	341.1	346.7	347.6	343.5	337.9
80°	240.9	257.0	263.5	262.7	261.1
82.5°	154.4	180.2	192.4	191.6	193.2
85°	81.6	112.3	126.1	126.1	130.1
87.5°	28.3	57.4	61.4	56.6	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)