

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: P412270

Luminaire Tested: **MRI-4ASR-8-500-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-8-500-L950-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

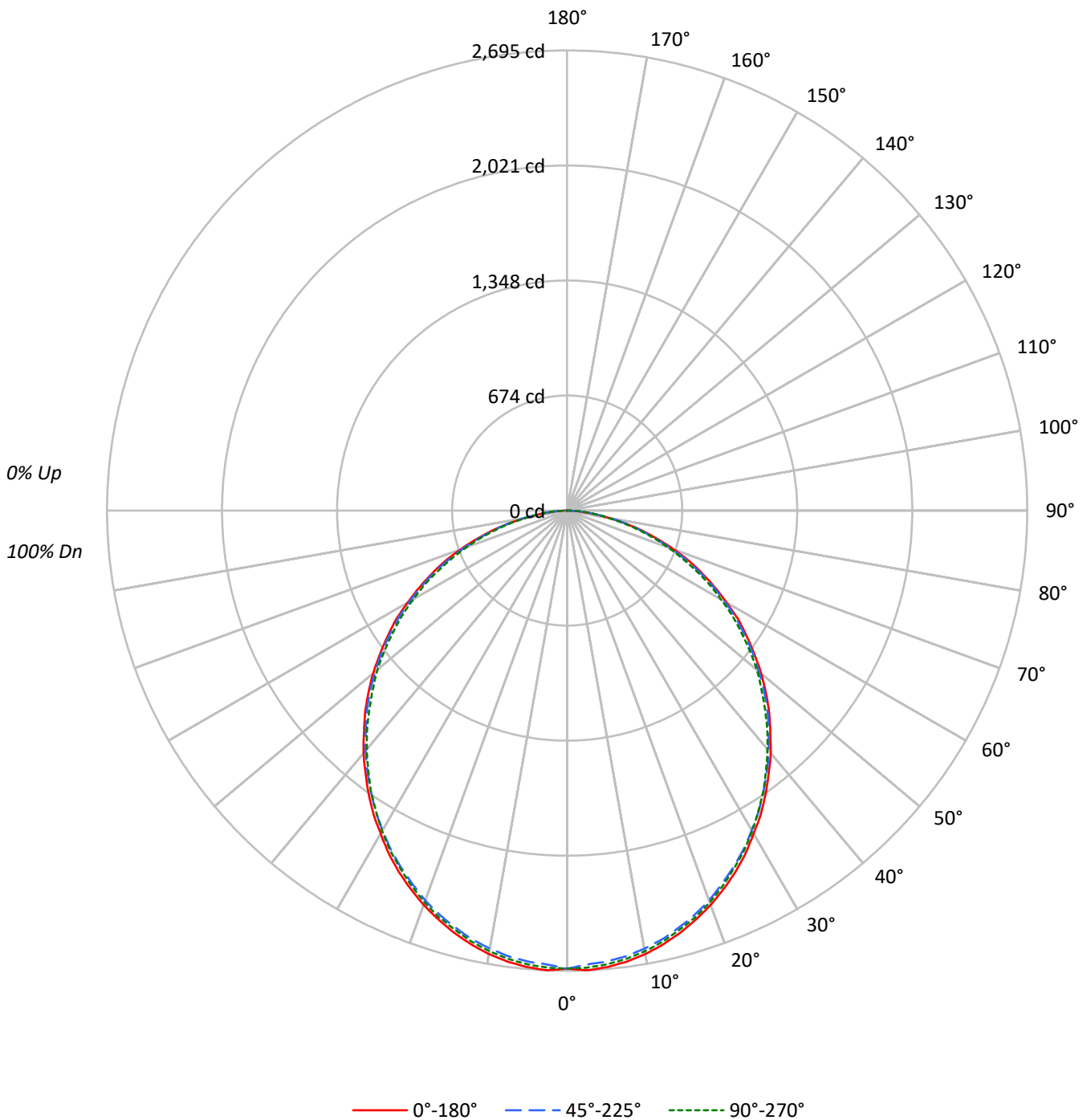
Lumens per Lamp: N/A
Luminaire Lumens: 7151.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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				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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	10828	10828	10828
5°	10873	10741	10810
10°	10809	10676	10742
15°	10695	10567	10619
20°	10558	10438	10488
25°	10395	10261	10298
30°	10182	10072	10102
35°	9984	9877	9877
40°	9774	9679	9617
45°	9550	9473	9344
50°	9312	9204	9113
55°	9034	8933	8760
60°	8719	8603	8397
65°	8352	8197	7947
70°	7821	7607	7404
75°	7116	6946	6678
80°	5830	5934	5681
85°	4191	4738	5071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.5
10°-20°	717.7	10.0
20°-30°	1067.2	14.9
30°-40°	1258.4	17.6
40°-50°	1278.5	17.9
50°-60°	1134.6	15.9
60°-70°	848.9	11.9
70°-80°	470.2	6.6
80°-90°	122.2	1.7
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°	2038.1	28.5
0°-40°	3296.6	46.1
0°-60°	5709.7	79.8
0°-90°	7151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2682	2682	2682	2682	2682	
5°	2683	2676	2651	2671	2668	255
15°	2559	2555	2529	2548	2541	722
25°	2334	2325	2304	2316	2312	1074
35°	2026	2022	2004	2007	2004	1267
45°	1673	1673	1659	1646	1637	1290
55°	1284	1289	1269	1253	1245	1149
65°	874	880	858	844	832	865
75°	456	452	445	433	428	480
85°	90	103	102	106	110	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2682.5	2682.5	2682.5	2682.5	2682.5
2.5°	2695.1	2687.0	2660.7	2682.5	2678.8
5°	2683.4	2676.1	2650.8	2670.7	2668.0
7.5°	2664.4	2656.2	2632.7	2652.6	2648.1
10°	2637.2	2629.0	2604.6	2625.4	2620.9
12.5°	2601.9	2594.6	2572.0	2589.2	2585.6
15°	2559.3	2554.8	2528.6	2547.6	2541.2
17.5°	2510.4	2505.9	2482.4	2500.5	2496.9
20°	2457.9	2449.8	2429.9	2442.5	2441.6
22.5°	2397.3	2390.0	2367.4	2382.8	2380.1
25°	2333.9	2324.9	2304.0	2315.8	2312.2
27.5°	2263.3	2254.2	2237.0	2246.1	2244.3
30°	2184.5	2181.8	2161.0	2169.1	2167.3
32.5°	2110.3	2103.1	2088.6	2087.7	2084.9
35°	2026.1	2022.5	2004.4	2007.1	2004.4
37.5°	1940.1	1938.3	1922.9	1919.3	1913.8
40°	1855.0	1849.6	1836.9	1829.6	1825.1
42.5°	1760.8	1763.6	1746.4	1738.2	1734.6
45°	1673.0	1673.0	1659.4	1645.9	1636.8
47.5°	1578.9	1579.8	1565.3	1548.1	1542.7
50°	1482.9	1484.7	1465.7	1451.2	1451.2
52.5°	1382.4	1387.9	1369.7	1354.4	1348.0
55°	1283.7	1289.2	1269.3	1253.0	1244.8
57.5°	1188.7	1187.8	1171.5	1149.8	1147.9
60°	1080.0	1086.4	1065.6	1049.3	1040.2
62.5°	976.8	985.0	962.4	947.0	941.5
65°	874.5	880.0	858.2	843.8	832.0
67.5°	774.0	772.2	752.3	736.0	729.7
70°	662.7	666.3	644.6	632.8	627.4
72.5°	558.6	562.2	543.2	535.0	526.0
75°	456.3	451.8	445.4	432.7	428.2
77.5°	347.6	352.2	350.4	336.8	335.0
80°	250.8	260.7	255.3	245.3	244.4
82.5°	166.6	176.5	173.8	171.1	168.4
85°	90.5	103.2	102.3	105.9	109.5
87.5°	34.4	44.4	52.5	51.6	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)