

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: P412264

Luminaire Tested: **MRI-4ASR-8-500-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412264
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-L850-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8485.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

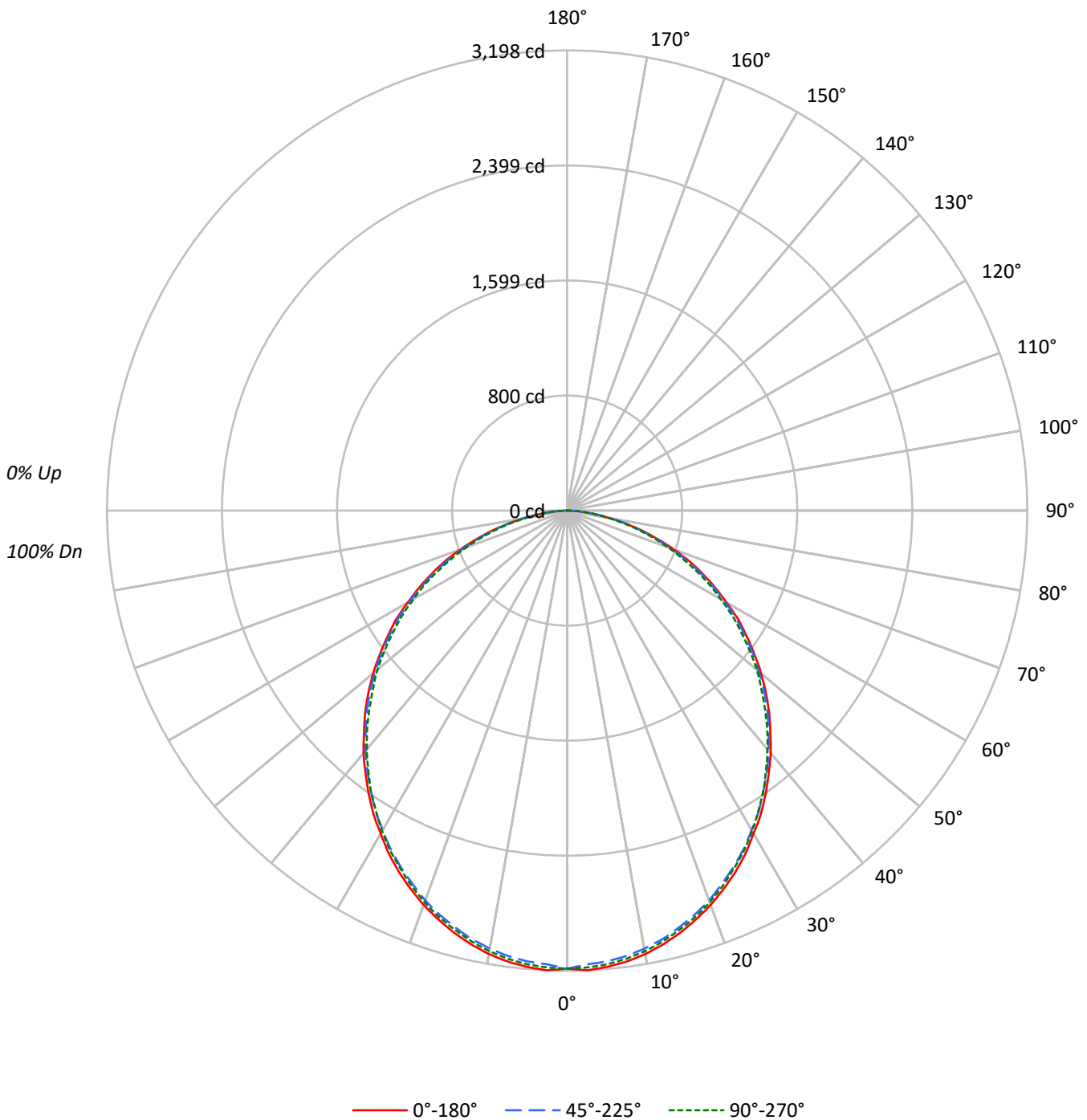
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12848	12848	12848
5°	12901	12744	12827
10°	12826	12667	12746
15°	12690	12537	12601
20°	12528	12385	12445
25°	12334	12176	12219
30°	12082	11951	11986
35°	11846	11719	11719
40°	11598	11485	11411
45°	11332	11240	11087
50°	11049	10921	10813
55°	10719	10598	10394
60°	10345	10207	9964
65°	9911	9726	9429
70°	9280	9026	8785
75°	8444	8242	7924
80°	6918	7041	6741
85°	4974	5622	6021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	3.5
10°-20°	851.5	10.0
20°-30°	1266.3	14.9
30°-40°	1493.2	17.6
40°-50°	1517.0	17.9
50°-60°	1346.2	15.9
60°-70°	1007.3	11.9
70°-80°	557.9	6.6
80°-90°	145.1	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°	2418.3	28.5
0°-40°	3911.5	46.1
0°-60°	6774.8	79.8
0°-90°	8485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3183	3183	3183	3183	3183	
5°	3184	3175	3145	3169	3166	302
15°	3037	3031	3000	3023	3015	856
25°	2769	2759	2734	2748	2744	1275
35°	2404	2400	2378	2382	2378	1504
45°	1985	1985	1969	1953	1942	1530
55°	1523	1530	1506	1487	1477	1363
65°	1038	1044	1018	1001	987	1027
75°	541	536	528	514	508	569
85°	107	122	121	126	130	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3182.9	3182.9	3182.9	3182.9	3182.9
2.5°	3197.9	3188.2	3157.1	3182.9	3178.6
5°	3183.9	3175.3	3145.3	3168.9	3165.7
7.5°	3161.4	3151.7	3123.8	3147.4	3142.0
10°	3129.2	3119.5	3090.5	3115.2	3109.8
12.5°	3087.3	3078.7	3051.8	3072.2	3067.9
15°	3036.8	3031.4	3000.2	3022.8	3015.3
17.5°	2978.8	2973.4	2945.5	2966.9	2962.7
20°	2916.5	2906.8	2883.2	2898.2	2897.1
22.5°	2844.5	2835.9	2809.0	2827.3	2824.1
25°	2769.3	2758.6	2733.8	2747.8	2743.5
27.5°	2685.5	2674.8	2654.4	2665.1	2662.9
30°	2592.1	2588.8	2564.1	2573.8	2571.6
32.5°	2504.0	2495.4	2478.2	2477.1	2473.9
35°	2404.1	2399.8	2378.3	2381.5	2378.3
37.5°	2302.0	2299.9	2281.6	2277.3	2270.9
40°	2201.0	2194.6	2179.6	2171.0	2165.6
42.5°	2089.3	2092.5	2072.1	2062.5	2058.2
45°	1985.1	1985.1	1969.0	1952.9	1942.2
47.5°	1873.4	1874.5	1857.3	1836.9	1830.4
50°	1759.5	1761.7	1739.1	1721.9	1721.9
52.5°	1640.3	1646.8	1625.3	1607.0	1599.5
55°	1523.2	1529.7	1506.0	1486.7	1477.0
57.5°	1410.4	1409.4	1390.0	1364.2	1362.1
60°	1281.5	1289.0	1264.3	1245.0	1234.3
62.5°	1159.1	1168.7	1141.9	1123.6	1117.2
65°	1037.7	1044.1	1018.3	1001.2	987.2
67.5°	918.4	916.3	892.7	873.3	865.8
70°	786.3	790.6	764.8	750.9	744.4
72.5°	662.8	667.1	644.5	634.9	624.1
75°	541.4	536.0	528.5	513.5	508.1
77.5°	412.5	417.9	415.7	399.6	397.5
80°	297.6	309.4	302.9	291.1	290.0
82.5°	197.7	209.5	206.2	203.0	199.8
85°	107.4	122.5	121.4	125.7	130.0
87.5°	40.8	52.6	62.3	61.2	64.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)