

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: P412224

Luminaire Tested: **MRI-2ASR-8-500-L835-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412224
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-8-500-L835-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8001.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

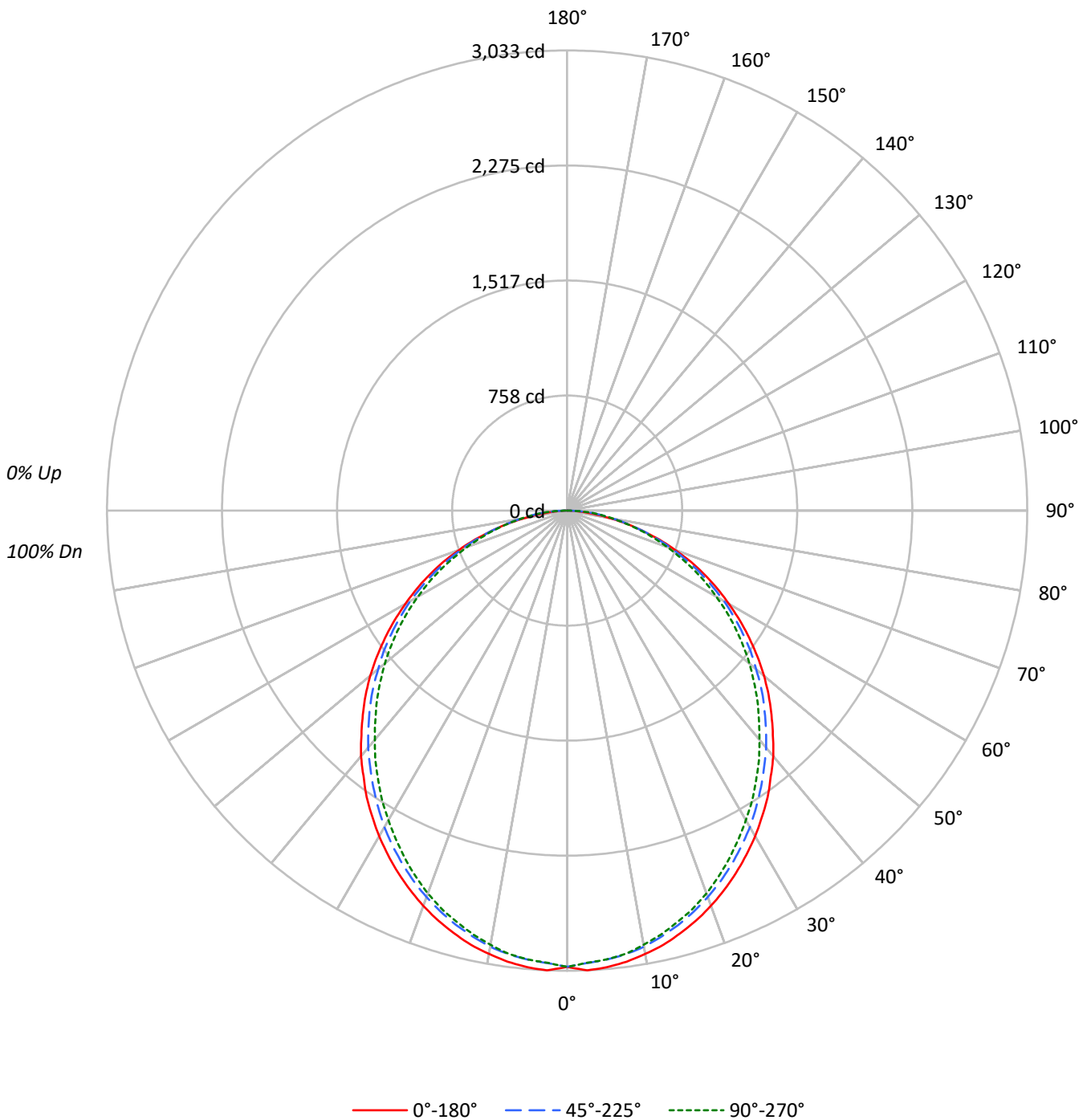
Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	24274	24274	24274
5°	24482	24083	24067
10°	24322	23926	23824
15°	24108	23632	23466
20°	23819	23290	23062
25°	23472	22882	22526
30°	23106	22452	21966
35°	22708	21943	21391
40°	22274	21494	20775
45°	21749	20981	20244
50°	21269	20413	19709
55°	20634	19899	19085
60°	19872	19260	18326
65°	19110	18403	17587
70°	17861	17323	16563
75°	15970	16001	15440
80°	13138	14370	14240
85°	8874	13699	14144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	3.5
10°-20°	801.5	10.0
20°-30°	1188.2	14.9
30°-40°	1397.4	17.5
40°-50°	1419.4	17.7
50°-60°	1262.7	15.8
60°-70°	952.2	11.9
70°-80°	541.0	6.8
80°-90°	155.0	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°	2273.4	28.4
0°-40°	3670.8	45.9
0°-60°	6352.8	79.4
0°-90°	8001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3007	3007	3007	3007	3007	
5°	3021	3000	2972	2994	2970	287
15°	2884	2862	2828	2838	2808	813
25°	2635	2608	2569	2559	2529	1214
35°	2304	2273	2226	2198	2170	1440
45°	1905	1881	1838	1801	1773	1470
55°	1466	1451	1414	1374	1356	1310
65°	1000	994	963	933	921	988
75°	512	520	513	499	495	546
85°	96	132	148	148	153	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3006.8	3006.8	3006.8	3006.8	3006.8
2.5°	3033.4	3012.5	2985.0	3007.8	2983.1
5°	3021.1	3000.2	2971.8	2993.6	2969.9
7.5°	2999.3	2978.4	2950.0	2969.9	2947.1
10°	2967.0	2948.1	2918.7	2934.8	2906.3
12.5°	2931.9	2907.3	2876.0	2890.2	2861.8
15°	2884.5	2861.8	2827.6	2838.1	2807.7
17.5°	2832.4	2805.8	2772.6	2778.3	2752.7
20°	2772.6	2746.1	2711.0	2712.9	2684.4
22.5°	2706.3	2681.6	2643.7	2637.0	2610.5
25°	2635.1	2607.6	2568.8	2559.3	2528.9
27.5°	2558.3	2532.7	2491.0	2475.8	2443.6
30°	2478.7	2448.3	2408.5	2385.8	2356.4
32.5°	2391.4	2363.9	2319.4	2290.9	2268.2
35°	2304.2	2272.9	2226.5	2198.0	2170.5
37.5°	2205.6	2176.2	2132.6	2104.1	2076.6
40°	2113.6	2081.4	2039.6	2004.6	1971.4
42.5°	2007.4	1984.7	1939.1	1904.1	1871.8
45°	1905.0	1881.3	1837.7	1800.7	1773.2
47.5°	1801.6	1777.9	1736.2	1696.4	1669.8
50°	1693.5	1667.9	1625.3	1590.2	1569.3
52.5°	1580.7	1562.7	1524.8	1484.9	1461.2
55°	1466.0	1450.8	1413.8	1374.0	1356.0
57.5°	1350.3	1338.0	1303.8	1265.9	1247.9
60°	1230.8	1225.1	1192.9	1156.8	1135.0
62.5°	1118.0	1109.4	1076.2	1049.7	1029.8
65°	1000.4	993.7	963.4	933.1	920.7
67.5°	881.9	874.3	845.8	825.0	806.0
70°	756.7	756.7	733.9	714.0	701.7
72.5°	638.2	639.1	623.9	603.1	597.4
75°	512.0	519.6	513.0	498.8	495.0
77.5°	400.2	406.8	407.7	403.0	396.4
80°	282.6	301.5	309.1	308.2	306.3
82.5°	181.1	211.5	225.7	224.7	226.6
85°	95.8	131.8	147.9	147.9	152.7
87.5°	33.2	67.3	72.1	66.4	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)