

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: P412232

Luminaire Tested: **MRI-2ASR-8-500-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412232
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-L940-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

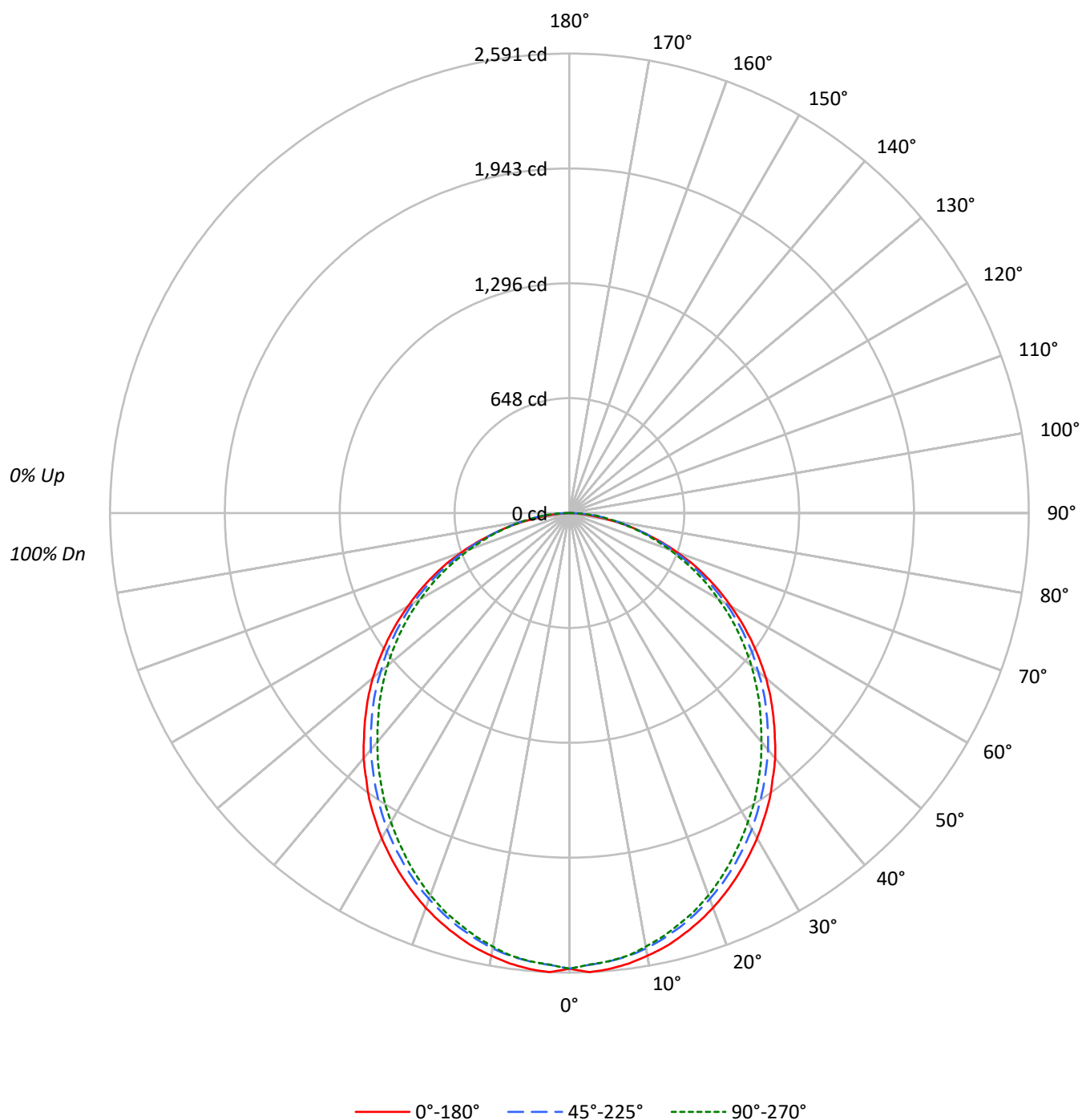
Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
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°	20737	20737	20737
5°	20914	20573	20560
10°	20777	20439	20353
15°	20595	20189	20046
20°	20349	19896	19701
25°	20052	19547	19244
30°	19739	19180	18765
35°	19399	18745	18274
40°	19028	18362	17748
45°	18580	17923	17294
50°	18169	17437	16837
55°	17626	16999	16304
60°	16976	16453	15655
65°	16325	15721	15026
70°	15257	14799	14148
75°	13643	13668	13188
80°	11223	12278	12162
85°	7577	11708	12078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	3.5
10°-20°	684.7	10.0
20°-30°	1015.0	14.9
30°-40°	1193.7	17.5
40°-50°	1212.5	17.7
50°-60°	1078.7	15.8
60°-70°	813.4	11.9
70°-80°	462.2	6.8
80°-90°	132.4	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°	1942.1	28.4
0°-40°	3135.8	45.9
0°-60°	5427.0	79.4
0°-90°	6835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2581	2563	2539	2557	2537	245
15°	2464	2445	2416	2424	2398	695
25°	2251	2228	2194	2186	2160	1037
35°	1968	1942	1902	1878	1854	1230
45°	1627	1607	1570	1538	1515	1256
55°	1252	1239	1208	1174	1158	1119
65°	855	849	823	797	787	844
75°	437	444	438	426	423	466
85°	82	113	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°	2568.7	2568.7	2568.7	2568.7	2568.7
2.5°	2591.3	2573.5	2550.0	2569.5	2548.4
5°	2580.8	2563.0	2538.7	2557.3	2537.1
7.5°	2562.2	2544.4	2520.1	2537.1	2517.6
10°	2534.6	2518.4	2493.3	2507.1	2482.8
12.5°	2504.7	2483.6	2456.9	2469.0	2444.7
15°	2464.2	2444.7	2415.6	2424.5	2398.5
17.5°	2419.6	2396.9	2368.6	2373.4	2351.6
20°	2368.6	2345.9	2315.9	2317.5	2293.2
22.5°	2311.9	2290.8	2258.4	2252.7	2230.1
25°	2251.1	2227.6	2194.4	2186.3	2160.4
27.5°	2185.5	2163.6	2128.0	2115.0	2087.5
30°	2117.5	2091.5	2057.5	2038.1	2013.0
32.5°	2042.9	2019.4	1981.4	1957.1	1937.6
35°	1968.4	1941.7	1902.0	1877.7	1854.2
37.5°	1884.2	1859.1	1821.8	1797.5	1774.0
40°	1805.6	1778.0	1742.4	1712.4	1684.1
42.5°	1714.9	1695.4	1656.5	1626.6	1599.0
45°	1627.4	1607.1	1569.9	1538.3	1514.8
47.5°	1539.1	1518.8	1483.2	1449.2	1426.5
50°	1446.7	1424.9	1388.4	1358.4	1340.6
52.5°	1350.3	1335.0	1302.6	1268.5	1248.3
55°	1252.3	1239.4	1207.8	1173.8	1158.4
57.5°	1153.5	1143.0	1113.8	1081.4	1066.0
60°	1051.4	1046.6	1019.0	988.3	969.6
62.5°	955.0	947.8	919.4	896.7	879.7
65°	854.6	848.9	823.0	797.1	786.6
67.5°	753.3	746.9	722.6	704.7	688.5
70°	646.4	646.4	627.0	610.0	599.4
72.5°	545.2	546.0	533.0	515.2	510.3
75°	437.4	443.9	438.2	426.1	422.8
77.5°	341.8	347.5	348.3	344.3	338.6
80°	241.4	257.6	264.1	263.3	261.6
82.5°	154.7	180.6	192.8	192.0	193.6
85°	81.8	112.6	126.4	126.4	130.4
87.5°	28.4	57.5	61.6	56.7	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)