

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: P412154

Luminaire Tested: **MRI-2ASR-4-500-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412154
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-4-500-L840-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

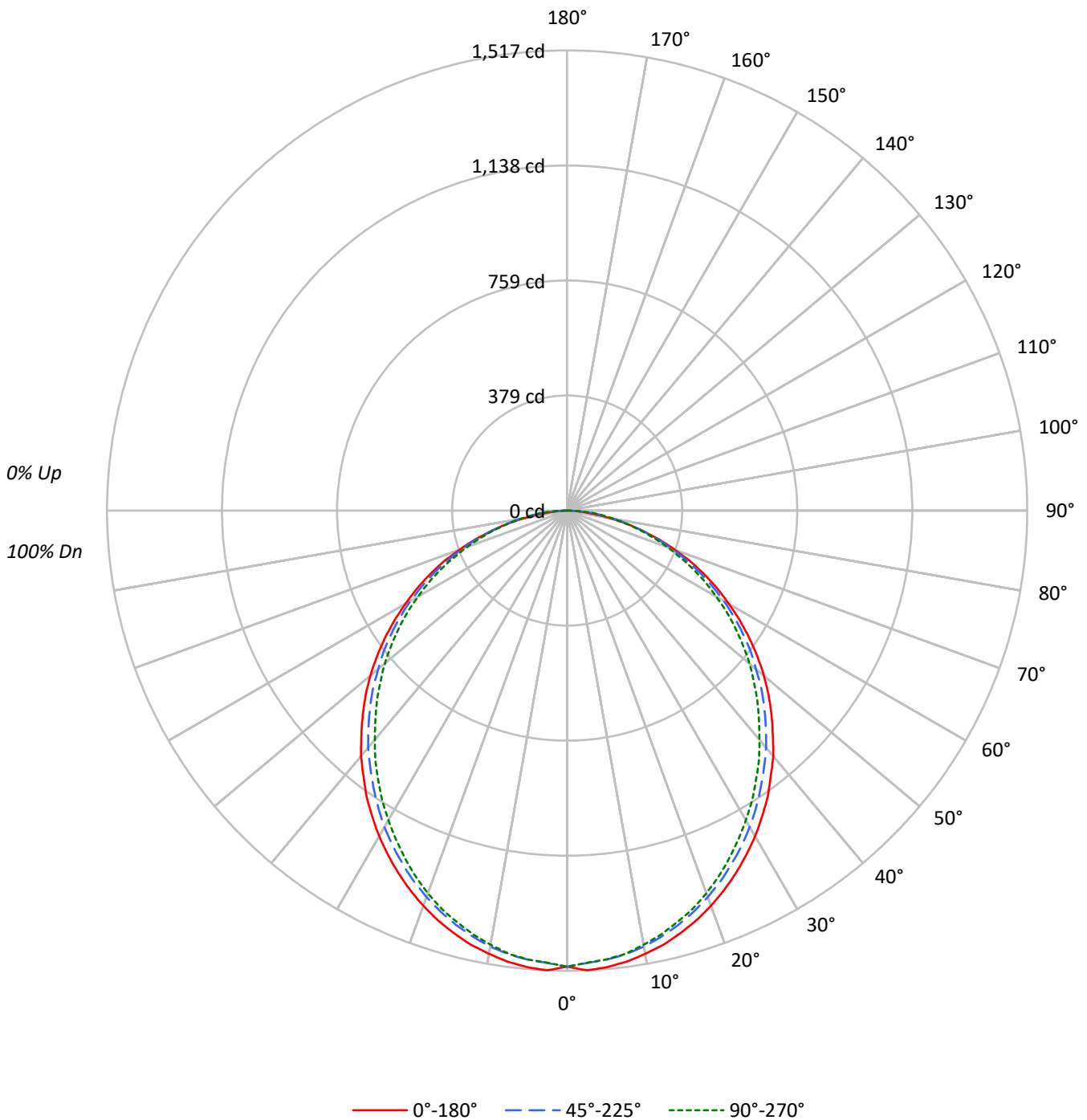
Lumens per Lamp: N/A
Luminaire Lumens: 4001.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.4
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°	24277	24277	24277
5°	24485	24086	24070
10°	24325	23928	23827
15°	24110	23636	23468
20°	23823	23294	23065
25°	23475	22883	22529
30°	23109	22454	21968
35°	22710	21946	21394
40°	22276	21498	20778
45°	21751	20984	20247
50°	21273	20414	19713
55°	20636	19902	19088
60°	19876	19262	18329
65°	19114	18407	17589
70°	17863	17325	16565
75°	15976	16001	15440
80°	13138	14375	14245
85°	8874	13709	14135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.5
10°-20°	400.8	10.0
20°-30°	594.2	14.9
30°-40°	698.8	17.5
40°-50°	709.8	17.7
50°-60°	631.4	15.8
60°-70°	476.2	11.9
70°-80°	270.6	6.8
80°-90°	77.5	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°	1136.8	28.4
0°-40°	1835.6	45.9
0°-60°	3176.8	79.4
0°-90°	4001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1511	1500	1486	1497	1485	143
15°	1442	1431	1414	1419	1404	407
25°	1318	1304	1284	1280	1265	607
35°	1152	1137	1113	1099	1085	720
45°	953	941	919	900	887	735
55°	733	726	707	687	678	655
65°	500	497	482	467	460	494
75°	256	260	256	249	248	273
85°	48	66	74	74	76	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.6	1503.6	1503.6	1503.6	1503.6
2.5°	1516.9	1506.5	1492.7	1504.1	1491.8
5°	1510.7	1500.3	1486.1	1497.0	1485.1
7.5°	1499.8	1489.4	1475.2	1485.1	1473.7
10°	1483.7	1474.2	1459.5	1467.6	1453.3
12.5°	1466.2	1453.8	1438.2	1445.3	1431.1
15°	1442.4	1431.1	1414.0	1419.2	1404.0
17.5°	1416.4	1403.1	1386.5	1389.3	1376.5
20°	1386.5	1373.2	1355.7	1356.6	1342.4
22.5°	1353.3	1341.0	1322.0	1318.7	1305.4
25°	1317.7	1304.0	1284.5	1279.8	1264.6
27.5°	1279.3	1266.5	1245.7	1238.1	1222.0
30°	1239.5	1224.3	1204.4	1193.0	1178.3
32.5°	1195.9	1182.1	1159.8	1145.6	1134.2
35°	1152.2	1136.6	1113.4	1099.1	1085.4
37.5°	1102.9	1088.2	1066.4	1052.2	1038.4
40°	1056.9	1040.8	1020.0	1002.4	985.8
42.5°	1003.8	992.4	969.7	952.1	936.0
45°	952.6	940.8	919.0	900.5	886.7
47.5°	900.9	889.1	868.2	848.3	835.0
50°	846.9	834.1	812.7	795.2	784.8
52.5°	790.5	781.4	762.5	742.6	730.7
55°	733.1	725.5	707.0	687.1	678.1
57.5°	675.2	669.1	652.0	633.0	624.0
60°	615.5	612.6	596.5	578.5	567.6
62.5°	559.1	554.8	538.2	524.9	515.0
65°	500.3	496.9	481.8	466.6	460.4
67.5°	441.0	437.2	423.0	412.5	403.0
70°	378.4	378.4	367.0	357.1	350.9
72.5°	319.1	319.6	312.0	301.6	298.7
75°	256.1	259.8	256.5	249.4	247.5
77.5°	200.1	203.4	203.9	201.5	198.2
80°	141.3	150.8	154.6	154.1	153.2
82.5°	90.6	105.7	112.9	112.4	113.3
85°	47.9	65.9	74.0	74.0	76.3
87.5°	16.6	33.7	36.0	33.2	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)