

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: P412263

Luminaire Tested: **MRI-4ASR-8-500-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
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-L840-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

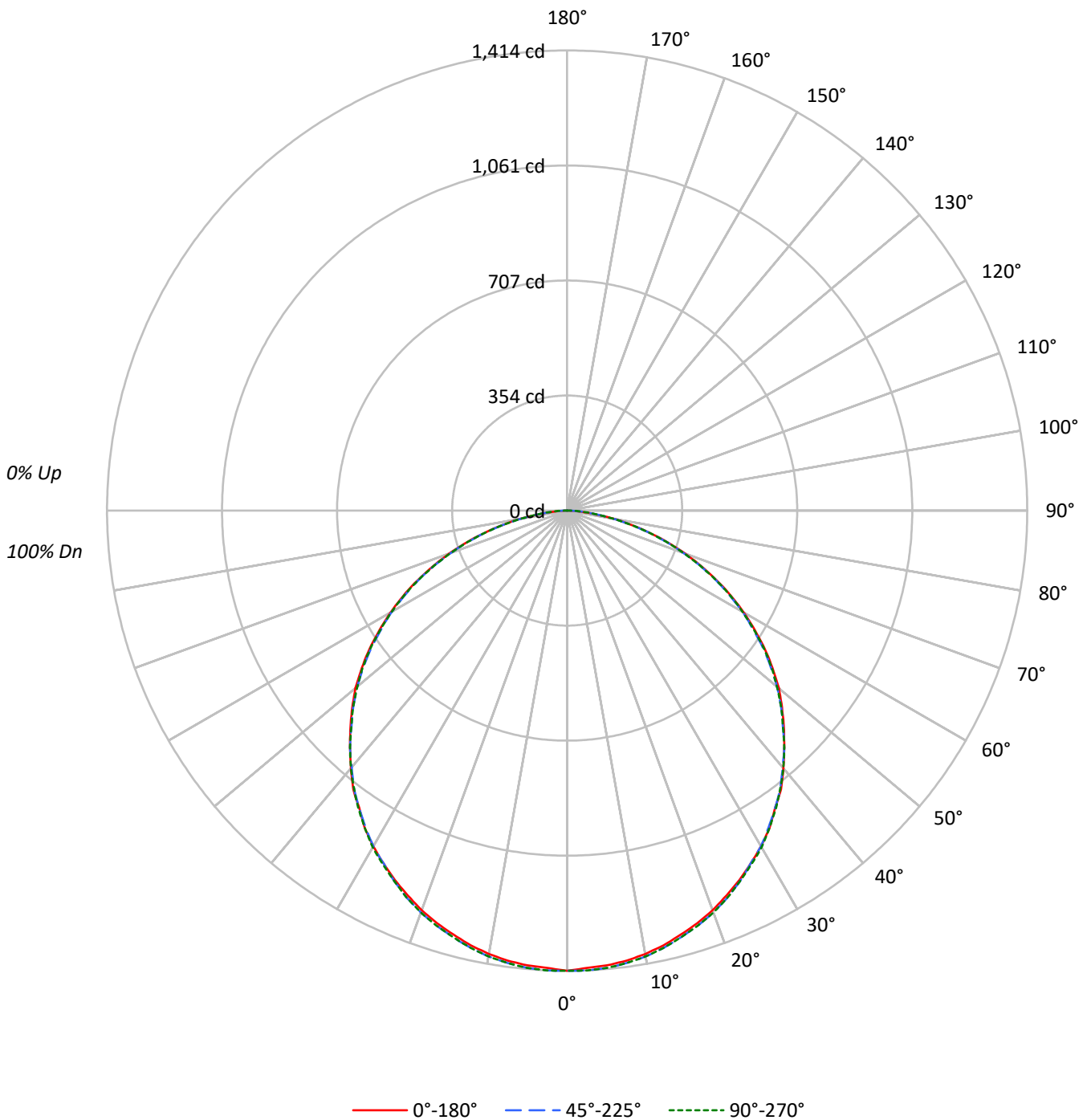
Lumens per Lamp: N/A
Luminaire Lumens: 4012.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5708	5708	5708
5°	5684	5714	5714
10°	5670	5702	5702
15°	5637	5669	5669
20°	5613	5646	5646
25°	5580	5597	5597
30°	5553	5553	5570
35°	5491	5491	5511
40°	5447	5427	5447
45°	5374	5353	5353
50°	5333	5285	5285
55°	5220	5165	5192
60°	5057	5025	5025
65°	4845	4808	4808
70°	4535	4489	4489
75°	4075	4016	4016
80°	3394	3305	3305
85°	2135	2316	2492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.3
10°-20°	382.7	9.5
20°-30°	578.8	14.4
30°-40°	698.2	17.4
40°-50°	725.3	18.1
50°-60°	656.9	16.4
60°-70°	497.8	12.4
70°-80°	274.3	6.8
80°-90°	64.1	1.6
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°	1095.4	27.3
0°-40°	1793.7	44.7
0°-60°	3175.8	79.2
0°-90°	4012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1403	1406	1410	1414	1410	133
15°	1349	1353	1356	1360	1356	381
25°	1253	1253	1257	1257	1257	577
35°	1114	1114	1114	1114	1118	699
45°	942	938	938	942	938	727
55°	742	734	734	734	738	662
65°	507	503	503	503	503	502
75°	261	261	258	258	258	277
85°	46	50	50	54	54	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1406.5	1410.3	1414.2	1418.0	1414.2
5°	1402.7	1406.5	1410.3	1414.2	1410.3
7.5°	1395.0	1398.8	1402.7	1406.5	1402.7
10°	1383.4	1387.3	1391.1	1395.0	1391.1
12.5°	1368.1	1371.9	1375.8	1375.8	1375.8
15°	1348.9	1352.7	1356.5	1360.4	1356.5
17.5°	1329.6	1333.5	1337.3	1337.3	1337.3
20°	1306.6	1310.4	1314.3	1314.3	1314.3
22.5°	1279.7	1283.5	1287.4	1287.4	1287.4
25°	1252.8	1252.8	1256.6	1256.6	1256.6
27.5°	1222.0	1222.0	1222.0	1225.9	1225.9
30°	1191.3	1191.3	1191.3	1191.3	1195.1
32.5°	1156.7	1156.7	1152.9	1156.7	1156.7
35°	1114.4	1114.4	1114.4	1114.4	1118.3
37.5°	1079.9	1072.2	1076.0	1076.0	1076.0
40°	1033.7	1033.7	1029.9	1033.7	1033.7
42.5°	987.6	987.6	987.6	987.6	987.6
45°	941.5	937.7	937.7	941.5	937.7
47.5°	895.4	891.6	891.6	891.6	891.6
50°	849.3	841.6	841.6	841.6	841.6
52.5°	795.5	787.8	787.8	787.8	791.6
55°	741.7	734.0	734.0	734.0	737.8
57.5°	684.0	680.2	676.3	680.2	680.2
60°	626.4	622.5	622.5	622.5	622.5
62.5°	568.7	564.9	561.1	561.1	564.9
65°	507.3	503.4	503.4	503.4	503.4
67.5°	445.8	441.9	441.9	441.9	441.9
70°	384.3	380.4	380.4	384.3	380.4
72.5°	322.8	319.0	319.0	319.0	319.0
75°	261.3	261.3	257.5	257.5	257.5
77.5°	199.8	199.8	199.8	199.8	199.8
80°	146.0	142.2	142.2	142.2	142.2
82.5°	88.4	88.4	92.2	92.2	92.2
85°	46.1	50.0	50.0	53.8	53.8
87.5°	15.4	19.2	23.1	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)