

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: P412265

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412265
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-L850-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4316.0 lumens
Efficiency: N/A
Efficacy: 70.2 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

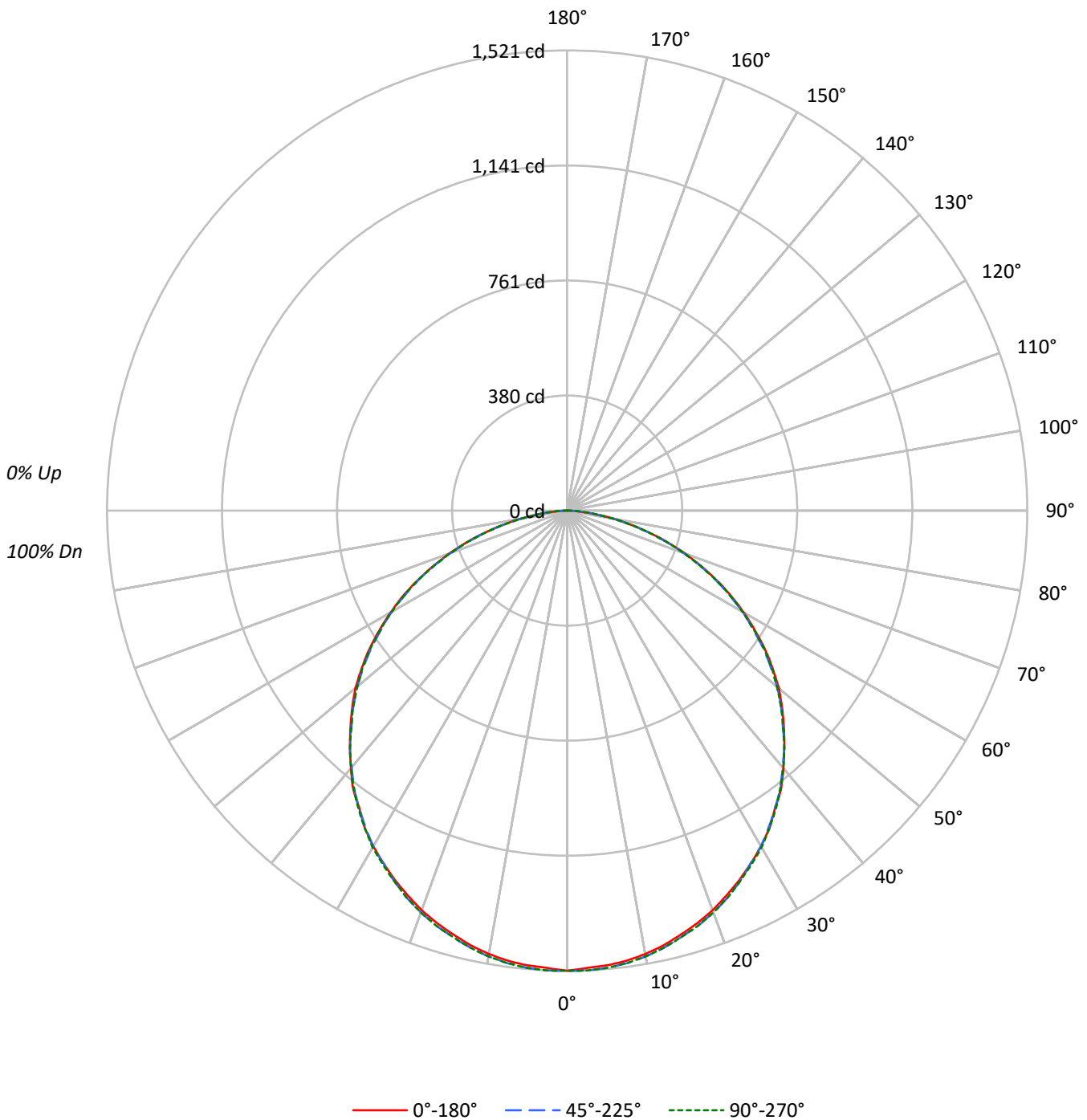
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412265

CATALOG NUMBER: MRI-4ASR-8-500-L850-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412265

CATALOG NUMBER: MRI-4ASR-8-500-L850-OPL

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°	6141	6141	6141
5°	6114	6148	6148
10°	6100	6134	6134
15°	6064	6098	6098
20°	6038	6073	6073
25°	6002	6021	6021
30°	5973	5973	5993
35°	5908	5908	5928
40°	5860	5838	5860
45°	5782	5758	5758
50°	5737	5686	5686
55°	5615	5557	5586
60°	5440	5406	5406
65°	5212	5173	5173
70°	4879	4830	4830
75°	4384	4320	4320
80°	3652	3557	3557
85°	2297	2487	2682



TEST NUMBER: P412265

CATALOG NUMBER: MRI-4ASR-8-500-L850-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.3
10°-20°	411.7	9.5
20°-30°	622.7	14.4
30°-40°	751.2	17.4
40°-50°	780.2	18.1
50°-60°	706.7	16.4
60°-70°	535.5	12.4
70°-80°	295.0	6.8
80°-90°	68.9	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°	1178.4	27.3
0°-40°	1929.6	44.7
0°-60°	3416.5	79.2
0°-90°	4316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1509	1513	1517	1521	1517	143
15°	1451	1455	1459	1464	1459	410
25°	1348	1348	1352	1352	1352	621
35°	1199	1199	1199	1199	1203	752
45°	1013	1009	1009	1013	1009	782
55°	798	790	790	790	794	712
65°	546	542	542	542	542	540
75°	281	281	277	277	277	297
85°	50	54	54	58	58	65
90°	0	0	0	0	0	



TEST NUMBER: P412265

CATALOG NUMBER: MRI-4ASR-8-500-L850-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.3	1521.3	1521.3	1521.3	1521.3
2.5°	1513.1	1517.2	1521.3	1525.5	1521.3
5°	1508.9	1513.1	1517.2	1521.3	1517.2
7.5°	1500.7	1504.8	1508.9	1513.1	1508.9
10°	1488.3	1492.4	1496.5	1500.7	1496.5
12.5°	1471.7	1475.9	1480.0	1480.0	1480.0
15°	1451.1	1455.2	1459.3	1463.5	1459.3
17.5°	1430.4	1434.5	1438.7	1438.7	1438.7
20°	1405.6	1409.7	1413.9	1413.9	1413.9
22.5°	1376.6	1380.8	1384.9	1384.9	1384.9
25°	1347.7	1347.7	1351.8	1351.8	1351.8
27.5°	1314.6	1314.6	1314.6	1318.8	1318.8
30°	1281.6	1281.6	1281.6	1281.6	1285.7
32.5°	1244.4	1244.4	1240.2	1244.4	1244.4
35°	1198.9	1198.9	1198.9	1198.9	1203.0
37.5°	1161.7	1153.4	1157.5	1157.5	1157.5
40°	1112.1	1112.1	1107.9	1112.1	1112.1
42.5°	1062.5	1062.5	1062.5	1062.5	1062.5
45°	1012.8	1008.7	1008.7	1012.8	1008.7
47.5°	963.2	959.1	959.1	959.1	959.1
50°	913.6	905.4	905.4	905.4	905.4
52.5°	855.8	847.5	847.5	847.5	851.6
55°	797.9	789.6	789.6	789.6	793.7
57.5°	735.9	731.7	727.6	731.7	731.7
60°	673.9	669.7	669.7	669.7	669.7
62.5°	611.8	607.7	603.6	603.6	607.7
65°	545.7	541.6	541.6	541.6	541.6
67.5°	479.6	475.4	475.4	475.4	475.4
70°	413.4	409.3	409.3	413.4	409.3
72.5°	347.3	343.1	343.1	343.1	343.1
75°	281.1	281.1	277.0	277.0	277.0
77.5°	215.0	215.0	215.0	215.0	215.0
80°	157.1	153.0	153.0	153.0	153.0
82.5°	95.1	95.1	99.2	99.2	99.2
85°	49.6	53.7	53.7	57.9	57.9
87.5°	16.5	20.7	24.8	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)