

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: P412225

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-4)
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-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

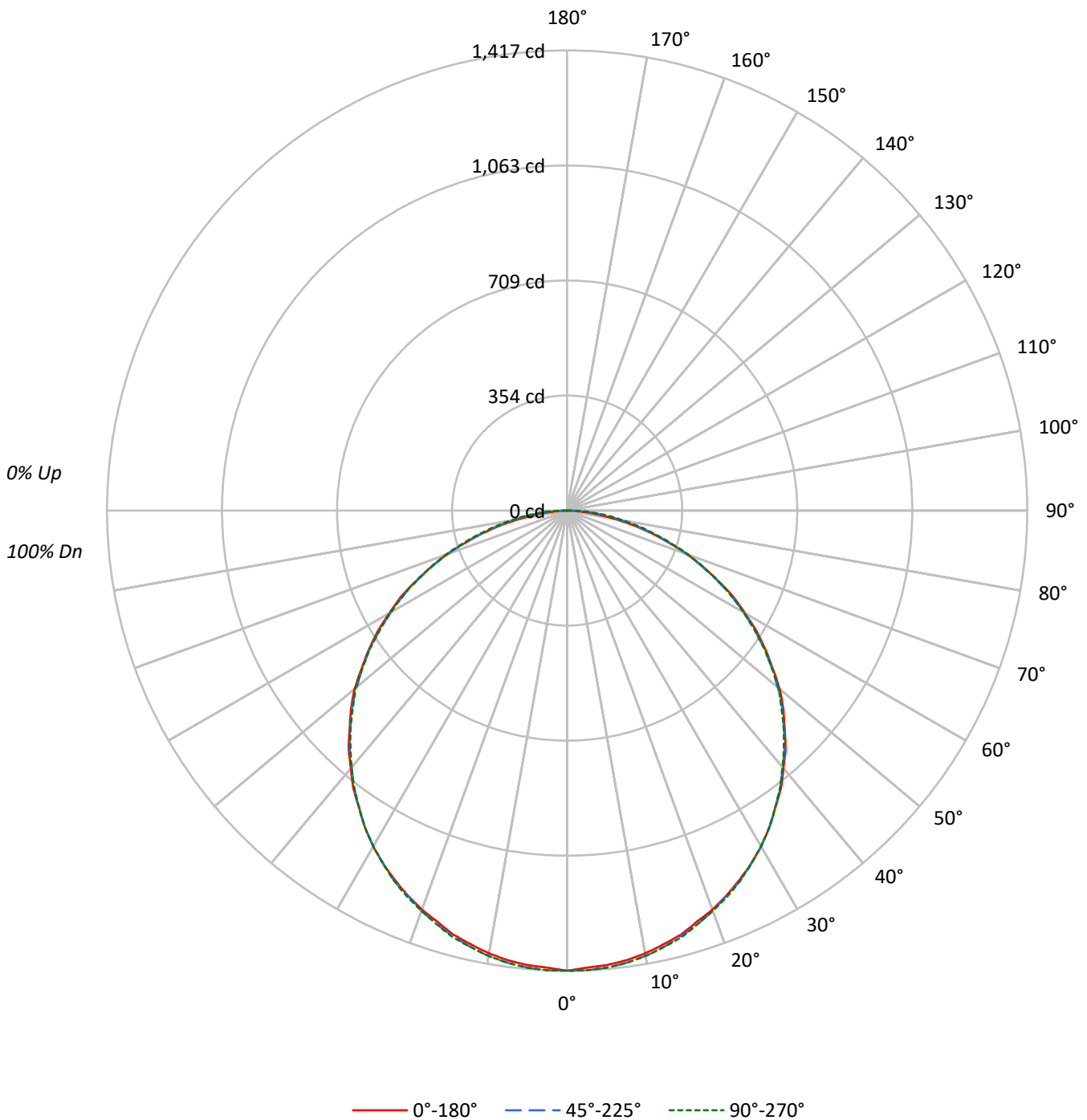
Lumens per Lamp: N/A
Luminaire Lumens: 4070.0 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (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



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11438	11438	11438
5°	11383	11448	11448
10°	11349	11415	11415
15°	11300	11333	11367
20°	11233	11267	11267
25°	11178	11214	11214
30°	11131	11131	11131
35°	11010	11010	11010
40°	10921	10878	10878
45°	10814	10768	10768
50°	10727	10625	10677
55°	10483	10427	10427
60°	10196	10130	10130
65°	9820	9742	9820
70°	9267	9267	9364
75°	8334	8459	8712
80°	6964	7717	8094
85°	4872	7503	7873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.3
10°-20°	382.8	9.4
20°-30°	579.6	14.2
30°-40°	699.8	17.2
40°-50°	729.0	17.9
50°-60°	662.1	16.3
60°-70°	506.3	12.4
70°-80°	289.8	7.1
80°-90°	86.6	2.1
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°	1096.4	26.9
0°-40°	1796.1	44.1
0°-60°	3187.3	78.3
0°-90°	4070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1405	1409	1413	1413	1413	133
15°	1352	1356	1356	1360	1360	381
25°	1255	1255	1259	1259	1259	579
35°	1117	1121	1117	1117	1117	700
45°	947	947	943	943	943	732
55°	745	741	741	741	741	666
65°	514	514	510	510	514	509
75°	267	267	271	275	279	283
85°	53	65	81	81	85	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416.8	1416.8	1416.8	1416.8	1416.8
2.5°	1408.7	1412.7	1416.8	1420.8	1416.8
5°	1404.6	1408.7	1412.7	1412.7	1412.7
7.5°	1396.5	1400.6	1404.6	1404.6	1404.6
10°	1384.4	1388.4	1392.5	1392.5	1392.5
12.5°	1368.2	1372.2	1376.3	1376.3	1376.3
15°	1352.0	1356.0	1356.0	1360.1	1360.1
17.5°	1327.7	1335.8	1335.8	1339.9	1335.8
20°	1307.5	1311.5	1311.5	1311.5	1311.5
22.5°	1283.2	1287.2	1283.2	1287.2	1287.2
25°	1254.9	1254.9	1258.9	1258.9	1258.9
27.5°	1226.5	1226.5	1226.5	1226.5	1226.5
30°	1194.1	1194.1	1194.1	1194.1	1194.1
32.5°	1157.7	1157.7	1157.7	1157.7	1157.7
35°	1117.2	1121.3	1117.2	1117.2	1117.2
37.5°	1080.8	1080.8	1076.7	1076.7	1076.7
40°	1036.3	1036.3	1032.2	1032.2	1032.2
42.5°	995.8	991.7	991.7	987.7	987.7
45°	947.2	947.2	943.2	943.2	943.2
47.5°	902.7	898.6	898.6	898.6	894.6
50°	854.1	850.1	846.0	846.0	850.1
52.5°	797.4	797.4	793.4	793.4	793.4
55°	744.8	740.8	740.8	740.8	740.8
57.5°	692.2	684.1	684.1	688.1	684.1
60°	631.5	627.4	627.4	627.4	627.4
62.5°	578.9	570.8	570.8	570.8	570.8
65°	514.1	514.1	510.0	510.0	514.1
67.5°	453.4	453.4	449.3	453.4	453.4
70°	392.6	388.6	392.6	392.6	396.7
72.5°	327.9	331.9	331.9	331.9	336.0
75°	267.2	267.2	271.2	275.3	279.3
77.5°	206.4	210.5	218.6	222.6	226.7
80°	149.8	157.9	166.0	174.1	174.1
82.5°	97.1	105.2	121.4	133.6	133.6
85°	52.6	64.8	81.0	81.0	85.0
87.5°	20.2	32.4	44.5	56.7	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)