

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: P412235

Luminaire Tested: **MRI-2ASR-8-500-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412235
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-L950-OPL
Description: 8 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.0 lumens
Efficiency: N/A
Efficacy: 42.3 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

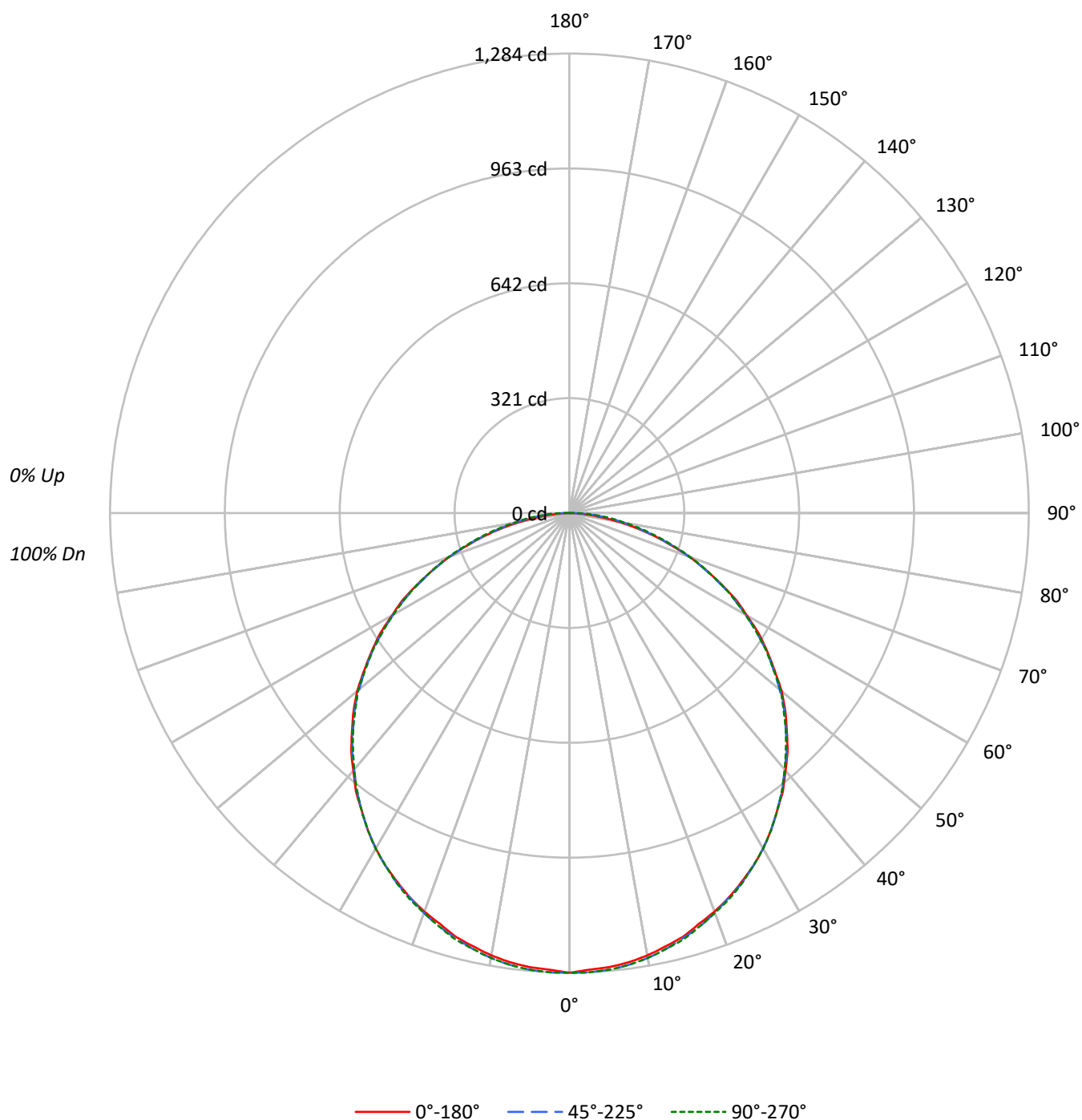
Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	57	52		62	56	52
5	75	62	53	47	73	61	53	46		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		49	41	35		47	40	35		46	40	35
8	60	46	38	32	59	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10370	10370	10370
5°	10320	10379	10379
10°	10289	10349	10349
15°	10245	10275	10306
20°	10184	10216	10216
25°	10134	10167	10167
30°	10092	10092	10092
35°	9982	9982	9982
40°	9901	9862	9862
45°	9805	9763	9763
50°	9726	9633	9679
55°	9505	9453	9453
60°	9243	9184	9184
65°	8904	8833	8904
70°	8403	8403	8490
75°	7555	7670	7898
80°	6313	6997	7336
85°	4418	6799	7141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.3
10°-20°	347.1	9.4
20°-30°	525.5	14.2
30°-40°	634.4	17.2
40°-50°	660.9	17.9
50°-60°	600.3	16.3
60°-70°	459.0	12.4
70°-80°	262.8	7.1
80°-90°	78.5	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°	994.0	26.9
0°-40°	1628.5	44.1
0°-60°	2889.7	78.3
0°-90°	3690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1274	1277	1281	1281	1281	121
15°	1226	1229	1229	1233	1233	346
25°	1138	1138	1141	1141	1141	525
35°	1013	1017	1013	1013	1013	635
45°	859	859	855	855	855	664
55°	675	672	672	672	672	604
65°	466	466	462	462	466	462
75°	242	242	246	250	253	256
85°	48	59	73	73	77	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1277.2	1280.8	1284.5	1288.2	1284.5
5°	1273.5	1277.2	1280.8	1280.8	1280.8
7.5°	1266.1	1269.8	1273.5	1273.5	1273.5
10°	1255.1	1258.8	1262.5	1262.5	1262.5
12.5°	1240.5	1244.1	1247.8	1247.8	1247.8
15°	1225.8	1229.4	1229.4	1233.1	1233.1
17.5°	1203.8	1211.1	1211.1	1214.8	1211.1
20°	1185.4	1189.1	1189.1	1189.1	1189.1
22.5°	1163.4	1167.1	1163.4	1167.1	1167.1
25°	1137.7	1137.7	1141.4	1141.4	1141.4
27.5°	1112.0	1112.0	1112.0	1112.0	1112.0
30°	1082.6	1082.6	1082.6	1082.6	1082.6
32.5°	1049.6	1049.6	1049.6	1049.6	1049.6
35°	1012.9	1016.6	1012.9	1012.9	1012.9
37.5°	979.9	979.9	976.2	976.2	976.2
40°	939.5	939.5	935.8	935.8	935.8
42.5°	902.8	899.1	899.1	895.5	895.5
45°	858.8	858.8	855.1	855.1	855.1
47.5°	818.4	814.7	814.7	814.7	811.1
50°	774.4	770.7	767.0	767.0	770.7
52.5°	723.0	723.0	719.3	719.3	719.3
55°	675.3	671.6	671.6	671.6	671.6
57.5°	627.6	620.2	620.2	623.9	620.2
60°	572.5	568.8	568.8	568.8	568.8
62.5°	524.8	517.5	517.5	517.5	517.5
65°	466.1	466.1	462.4	462.4	466.1
67.5°	411.0	411.0	407.4	411.0	411.0
70°	356.0	352.3	356.0	356.0	359.7
72.5°	297.3	300.9	300.9	300.9	304.6
75°	242.2	242.2	245.9	249.6	253.2
77.5°	187.2	190.8	198.2	201.8	205.5
80°	135.8	143.1	150.5	157.8	157.8
82.5°	88.1	95.4	110.1	121.1	121.1
85°	47.7	58.7	73.4	73.4	77.1
87.5°	18.3	29.4	40.4	51.4	51.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)