

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: P412131

Luminaire Tested: **MRI-2ASR-4-1000-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412131
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-4-1000-L840-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224.0 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

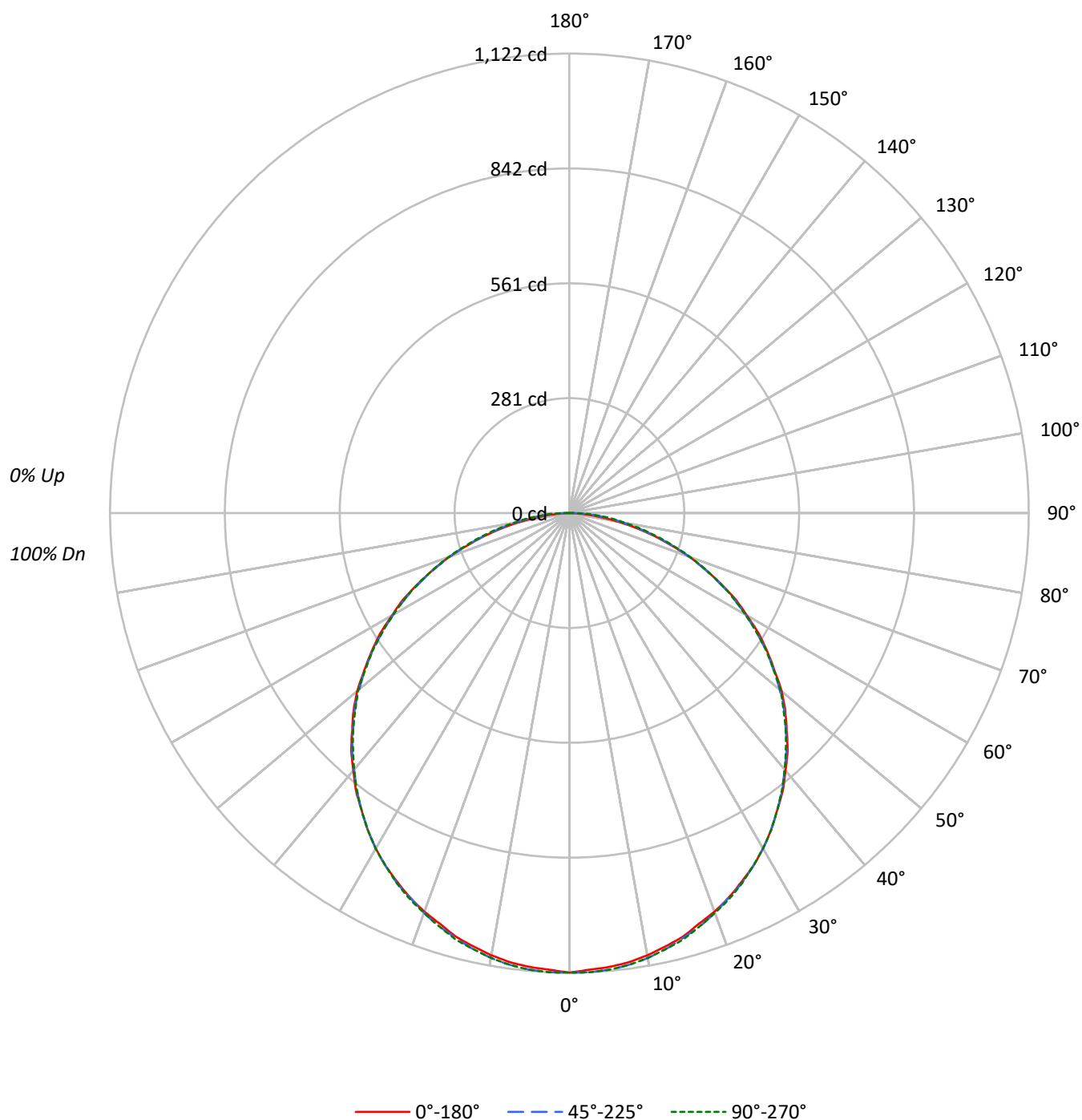
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18120	18120	18120
5°	18034	18138	18138
10°	17979	18084	18084
15°	17902	17956	18009
20°	17795	17850	17850
25°	17708	17765	17765
30°	17635	17635	17635
35°	17444	17444	17444
40°	17302	17235	17235
45°	17132	17059	17059
50°	16995	16834	16915
55°	16608	16518	16518
60°	16152	16049	16049
65°	15557	15435	15557
70°	14681	14681	14833
75°	13200	13400	13799
80°	11027	12227	12822
85°	7725	11875	12468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.3
10°-20°	303.2	9.4
20°-30°	459.1	14.2
30°-40°	554.3	17.2
40°-50°	577.4	17.9
50°-60°	524.5	16.3
60°-70°	401.0	12.4
70°-80°	229.6	7.1
80°-90°	68.6	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°	868.5	26.9
0°-40°	1422.8	44.1
0°-60°	2524.8	78.3
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1113	1116	1119	1119	1119	106
15°	1071	1074	1074	1077	1077	302
25°	994	994	997	997	997	459
35°	885	888	885	885	885	555
45°	750	750	747	747	747	580
55°	590	587	587	587	587	527
65°	407	407	404	404	407	403
75°	212	212	215	218	221	224
85°	42	51	64	64	67	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1115.9	1119.1	1122.3	1125.5	1122.3
5°	1112.7	1115.9	1119.1	1119.1	1119.1
7.5°	1106.2	1109.4	1112.7	1112.7	1112.7
10°	1096.6	1099.8	1103.0	1103.0	1103.0
12.5°	1083.8	1087.0	1090.2	1090.2	1090.2
15°	1071.0	1074.2	1074.2	1077.4	1077.4
17.5°	1051.7	1058.1	1058.1	1061.4	1058.1
20°	1035.7	1038.9	1038.9	1038.9	1038.9
22.5°	1016.5	1019.7	1016.5	1019.7	1019.7
25°	994.0	994.0	997.2	997.2	997.2
27.5°	971.6	971.6	971.6	971.6	971.6
30°	945.9	945.9	945.9	945.9	945.9
32.5°	917.1	917.1	917.1	917.1	917.1
35°	885.0	888.2	885.0	885.0	885.0
37.5°	856.1	856.1	852.9	852.9	852.9
40°	820.9	820.9	817.7	817.7	817.7
42.5°	788.8	785.6	785.6	782.4	782.4
45°	750.3	750.3	747.1	747.1	747.1
47.5°	715.0	711.8	711.8	711.8	708.6
50°	676.6	673.4	670.2	670.2	673.4
52.5°	631.7	631.7	628.5	628.5	628.5
55°	590.0	586.8	586.8	586.8	586.8
57.5°	548.3	541.9	541.9	545.1	541.9
60°	500.2	497.0	497.0	497.0	497.0
62.5°	458.5	452.1	452.1	452.1	452.1
65°	407.2	407.2	404.0	404.0	407.2
67.5°	359.1	359.1	355.9	359.1	359.1
70°	311.0	307.8	311.0	311.0	314.2
72.5°	259.7	262.9	262.9	262.9	266.1
75°	211.6	211.6	214.8	218.0	221.2
77.5°	163.5	166.7	173.2	176.4	179.6
80°	118.6	125.1	131.5	137.9	137.9
82.5°	77.0	83.4	96.2	105.8	105.8
85°	41.7	51.3	64.1	64.1	67.3
87.5°	16.0	25.7	35.3	44.9	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)