

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P430950

Luminaire Tested: **LAMR4B112R209030DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R209030DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1189.1 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

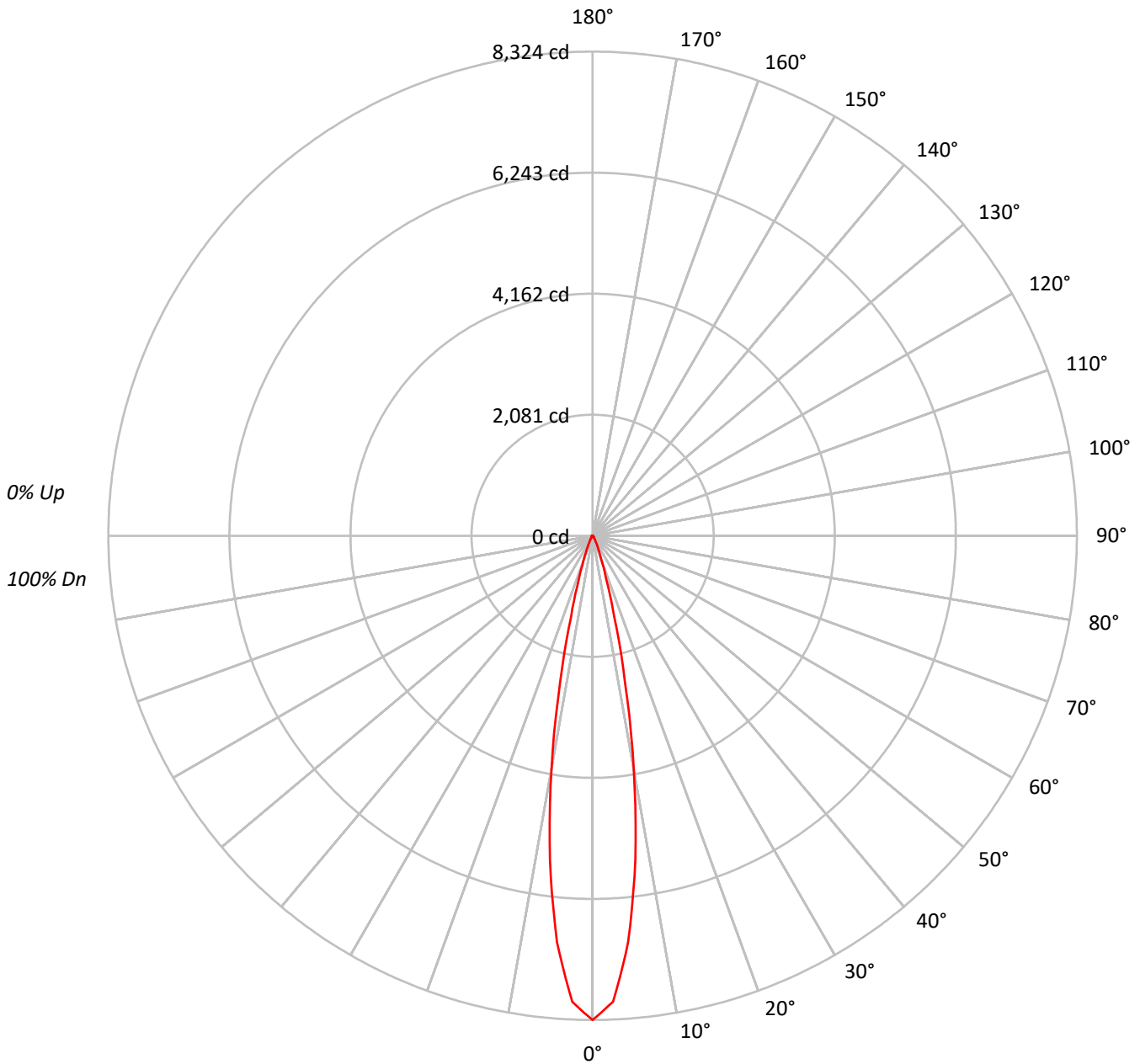
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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				100															
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97				97															
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95				94																
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93				91																
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90				89																
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88				87																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86				85																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84				83																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82				81																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81				80																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79				78																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	4107138
5°	3471604
10°	2039082
15°	730115
20°	241573
25°	96138
30°	45975
35°	26261
40°	18935
45°	15978
50°	18421
55°	14967
60°	7499
65°	6421
70°	7934
75°	8388
80°	6251
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.0	48.3
10°-20°	447.6	37.6
20°-30°	92.9	7.8
30°-40°	29.3	2.5
40°-50°	18.8	1.6
50°-60°	15.1	1.3
60°-70°	6.0	0.5
70°-80°	4.5	0.4
80°-90°	0.9	0.1
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°	1114.5	93.7
0°-40°	1143.8	96.2
0°-60°	1177.7	99.0
0°-90°	1189.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8324	
5°	7010	574
15°	1429	448
25°	177	93
35°	44	29
45°	23	19
55°	17	15
65°	6	6
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8324.5
2.5°	8019.2
5°	7009.6
7.5°	5616.2
10°	4070.1
12.5°	2567.7
15°	1429.4
17.5°	786.1
20°	460.1
22.5°	281.3
25°	176.6
27.5°	116.7
30°	80.7
32.5°	56.7
35°	43.6
37.5°	34.9
40°	29.4
42.5°	25.1
45°	22.9
47.5°	22.9
50°	24.0
52.5°	22.9
55°	17.4
57.5°	12.0
60°	7.6
62.5°	6.5
65°	5.5
67.5°	5.5
70°	5.5
72.5°	5.5
75°	4.4
77.5°	3.3
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)