

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: P429798

Luminaire Tested: **LAM4B112R209030DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P429798  
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: LAM4B112R209030DE010x1MW  
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

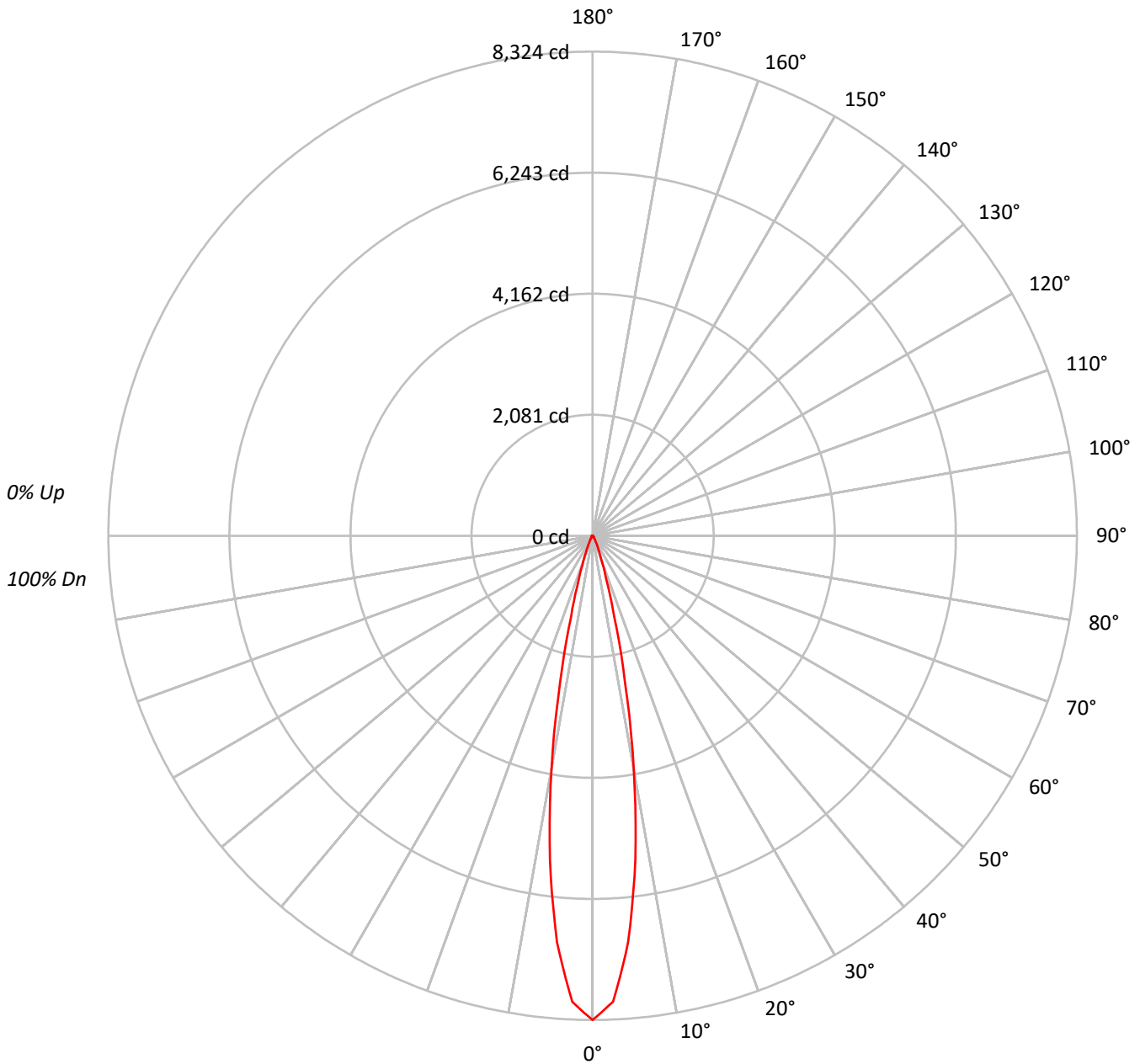
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	95	94	93	91	91	89	88	87	85	85	83	83	81	81	80											
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	93	91	91	89	88	87	85	85	83	83	81	81	80														
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91	91	89	88	87	85	85	83	83	81	81	80																
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	87	87	85	85	83	83	81	81	80																		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	85	85	83	83	81	81	80																				
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	83	83	81	81	80																						
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	81	81	80																								
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	80																										
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)