

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: P430945

Luminaire Tested: **LAMR4B112R209027DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430945  
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: LAMR4B112R209027DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1134.2 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

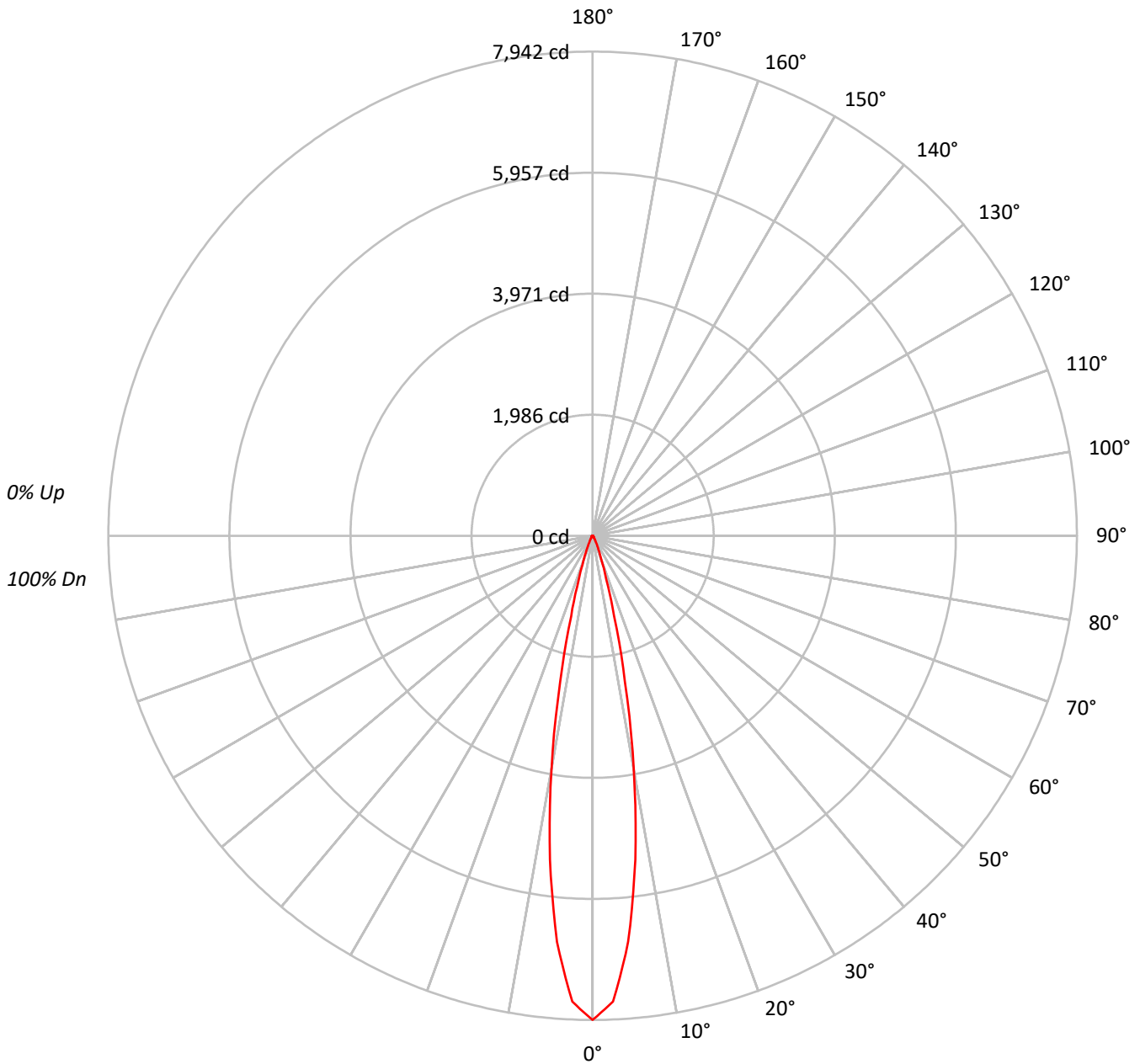
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	100	99	99	97				97															
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94				94															
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91				91															
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89				89															
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87				87															
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85				85															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83				83															
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81				81															
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80				80															
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78				78															

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

	0°
0°	3918174
5°	3311881
10°	1945247
15°	696505
20°	230442
25°	91729
30°	43867
35°	25056
40°	18098
45°	15211
50°	17577
55°	14279
60°	7203
65°	6071
70°	7501
75°	8006
80°	5967
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.6	48.3
10°-20°	427.0	37.6
20°-30°	88.6	7.8
30°-40°	27.9	2.5
40°-50°	18.0	1.6
50°-60°	14.4	1.3
60°-70°	5.7	0.5
70°-80°	4.3	0.4
80°-90°	0.8	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°	1063.2	93.7
0°-40°	1091.1	96.2
0°-60°	1123.5	99.1
0°-90°	1134.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7942	
5°	6687	548
15°	1364	427
25°	168	89
35°	42	28
45°	22	18
55°	17	14
65°	5	6
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7941.5
2.5°	7650.2
5°	6687.1
7.5°	5357.8
10°	3882.8
12.5°	2449.5
15°	1363.6
17.5°	749.9
20°	438.9
22.5°	268.4
25°	168.5
27.5°	111.3
30°	77.0
32.5°	54.1
35°	41.6
37.5°	33.3
40°	28.1
42.5°	23.9
45°	21.8
47.5°	21.8
50°	22.9
52.5°	21.8
55°	16.6
57.5°	11.4
60°	7.3
62.5°	6.2
65°	5.2
67.5°	5.2
70°	5.2
72.5°	5.2
75°	4.2
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)