

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: P431136

Luminaire Tested: **LAMR4B112R609024DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R609024DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 987.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

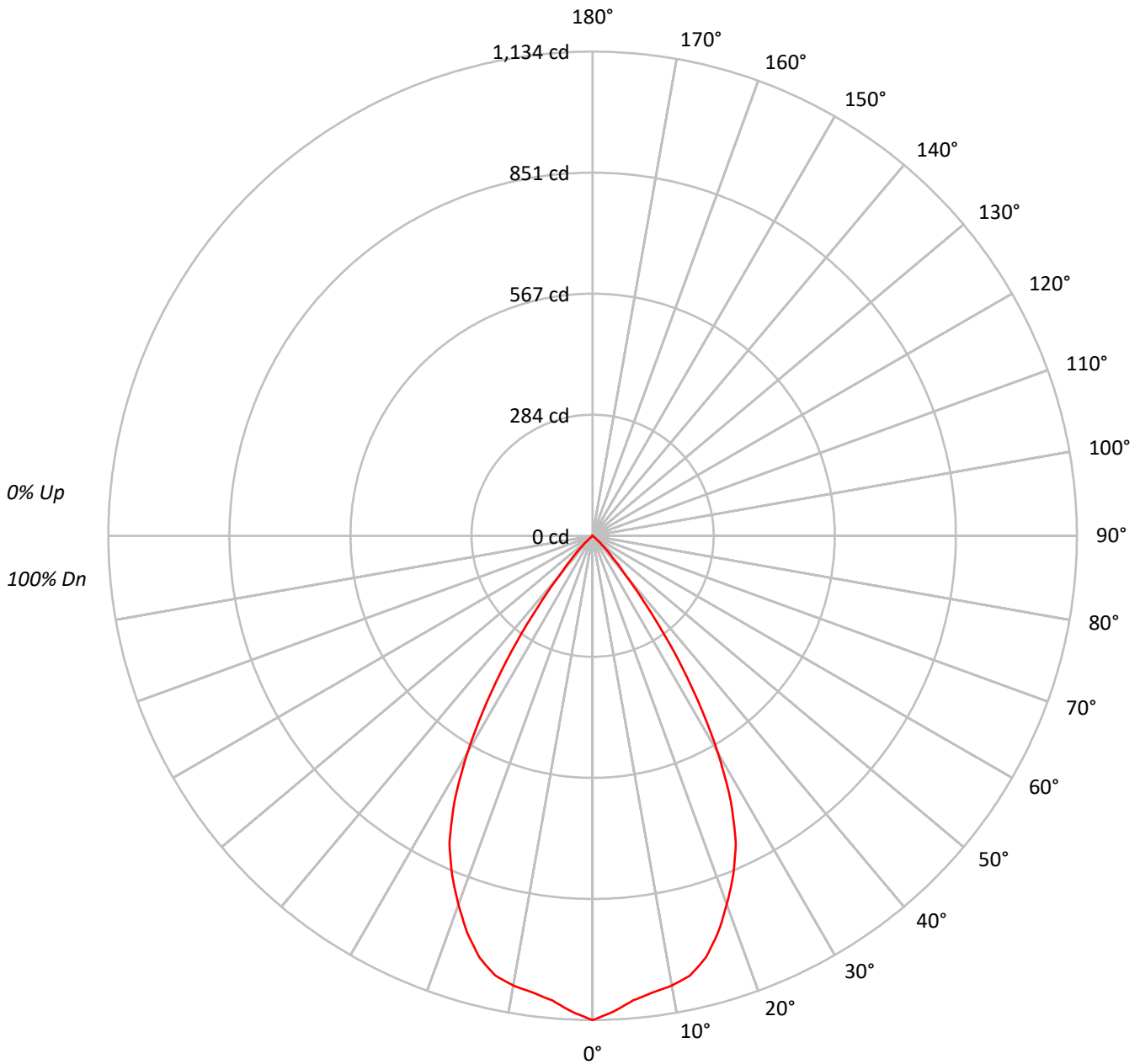
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																											
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																											
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																											
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82																											
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77																											
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72																											
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67																											
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																											
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59																											
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																											
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	52																											

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

	0°
0°	559640
5°	540878
10°	535810
15°	522532
20°	482253
25°	431860
30°	334189
35°	200206
40°	76901
45°	28119
50°	1075
55°	860
60°	987
65°	584
70°	721
75°	953
80°	1421
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	10.5
10°-20°	284.6	28.8
20°-30°	355.0	36.0
30°-40°	206.8	21.0
40°-50°	34.5	3.5
50°-60°	0.9	0.1
60°-70°	0.7	0.1
70°-80°	0.5	0.1
80°-90°	0.2	0.0
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°	743.3	75.3
0°-40°	950.2	96.3
0°-60°	985.6	99.9
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1134	
5°	1092	104
15°	1023	285
25°	793	355
35°	332	207
45°	40	35
55°	1	1
65°	0	1
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1134.3
2.5°	1115.6
5°	1092.1
7.5°	1078.7
10°	1069.5
12.5°	1054.7
15°	1023.0
17.5°	975.5
20°	918.5
22.5°	860.4
25°	793.3
27.5°	700.2
30°	586.6
32.5°	459.5
35°	332.4
37.5°	209.6
40°	119.4
42.5°	70.0
45°	40.3
47.5°	13.9
50°	1.4
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	0.5
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)