

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: P430990

Luminaire Tested: **LAMR4B112R309024DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R309024DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1057.3 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

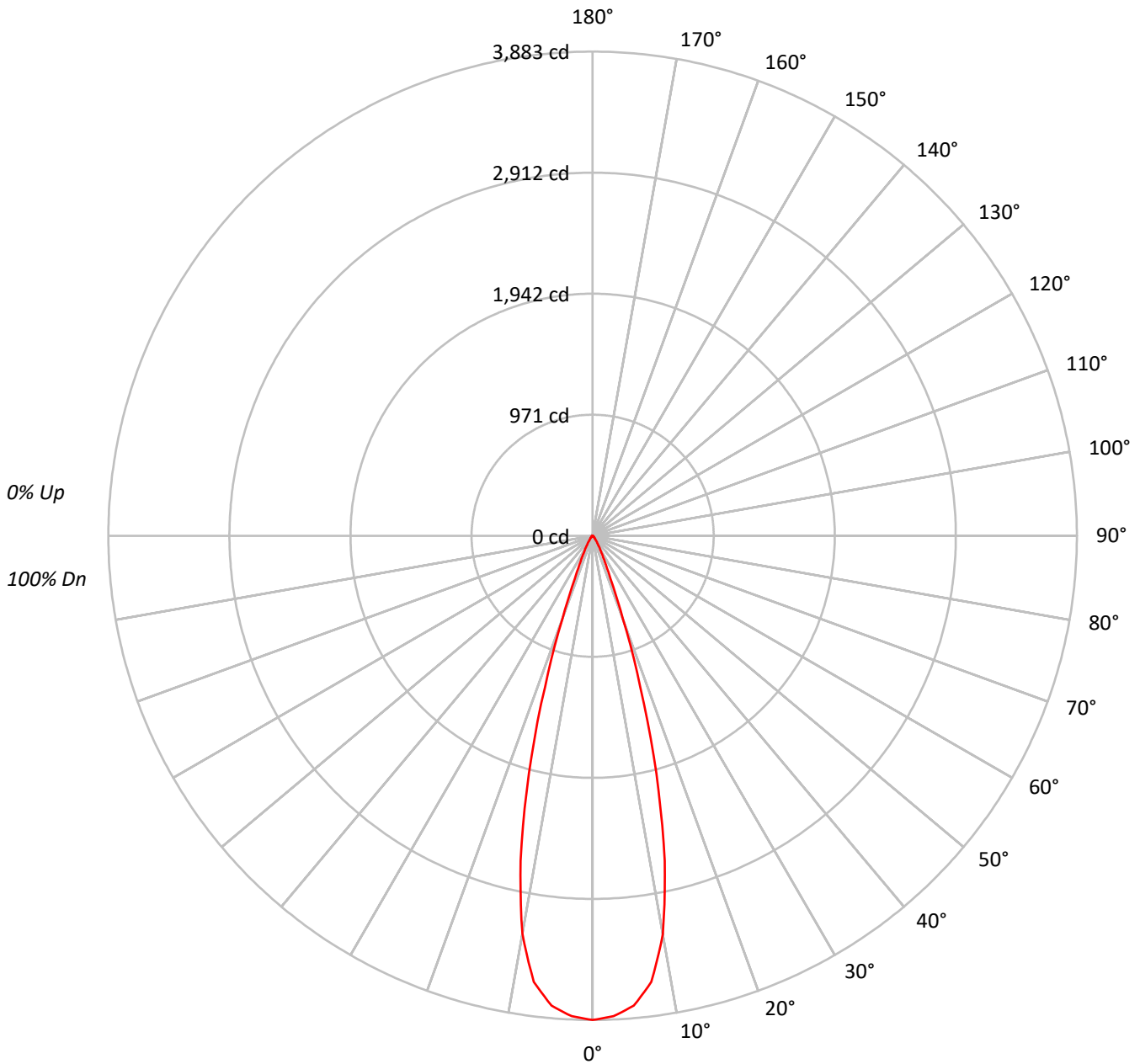
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96																										
2	111	107	104	102	109	106	103	100	102	100	98	96	96	96	97	95	94	93	93																										
3	107	103	99	96	105	101	98	95	99	96	94	92	92	92	94	92	91	90	87																										
4	104	98	94	91	102	97	94	91	95	92	90	89	89	89	92	90	88	87	84																										
5	101	95	91	87	99	94	90	87	92	89	86	86	86	86	89	87	85	84	81																										
6	98	91	87	84	97	91	87	84	89	86	83	83	83	83	87	84	82	81	79																										
7	95	88	84	81	94	88	84	81	87	83	81	80	80	80	85	82	80	79	77																										
8	92	86	81	79	91	85	81	78	84	81	78	78	78	78	83	80	78	77	75																										
9	90	83	79	76	89	83	79	76	82	78	76	76	76	76	80	78	75	74	72																										
10	88	81	77	74	87	80	77	74	80	76	74	74	74	74	78	76	73	72	70																										

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

	0°
0°	1915743
5°	1873882
10°	1624763
15°	1007011
20°	369106
25°	123357
30°	60560
35°	30175
40°	18742
45°	11862
50°	8443
55°	6881
60°	5921
65°	4670
70°	5770
75°	5719
80°	5683
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	32.6
10°-20°	520.6	49.2
20°-30°	126.9	12.0
30°-40°	34.8	3.3
40°-50°	14.0	1.3
50°-60°	7.5	0.7
60°-70°	4.5	0.4
70°-80°	3.4	0.3
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°	992.4	93.9
0°-40°	1027.1	97.1
0°-60°	1048.6	99.2
0°-90°	1057.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1057.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3883	
5°	3784	345
15°	1972	521
25°	227	127
35°	50	35
45°	17	14
55°	8	7
65°	4	4
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3882.9
2.5°	3856.8
5°	3783.6
7.5°	3609.1
10°	3243.1
12.5°	2669.5
15°	1971.5
17.5°	1270.6
20°	703.0
22.5°	375.1
25°	226.6
27.5°	153.4
30°	106.3
32.5°	72.2
35°	50.1
37.5°	37.1
40°	29.1
42.5°	22.1
45°	17.0
47.5°	14.0
50°	11.0
52.5°	10.0
55°	8.0
57.5°	7.0
60°	6.0
62.5°	5.0
65°	4.0
67.5°	4.0
70°	4.0
72.5°	4.0
75°	3.0
77.5°	3.0
80°	2.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)