

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: P431015

Luminaire Tested: **LAMR4B112R359024DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R359024DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1036.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

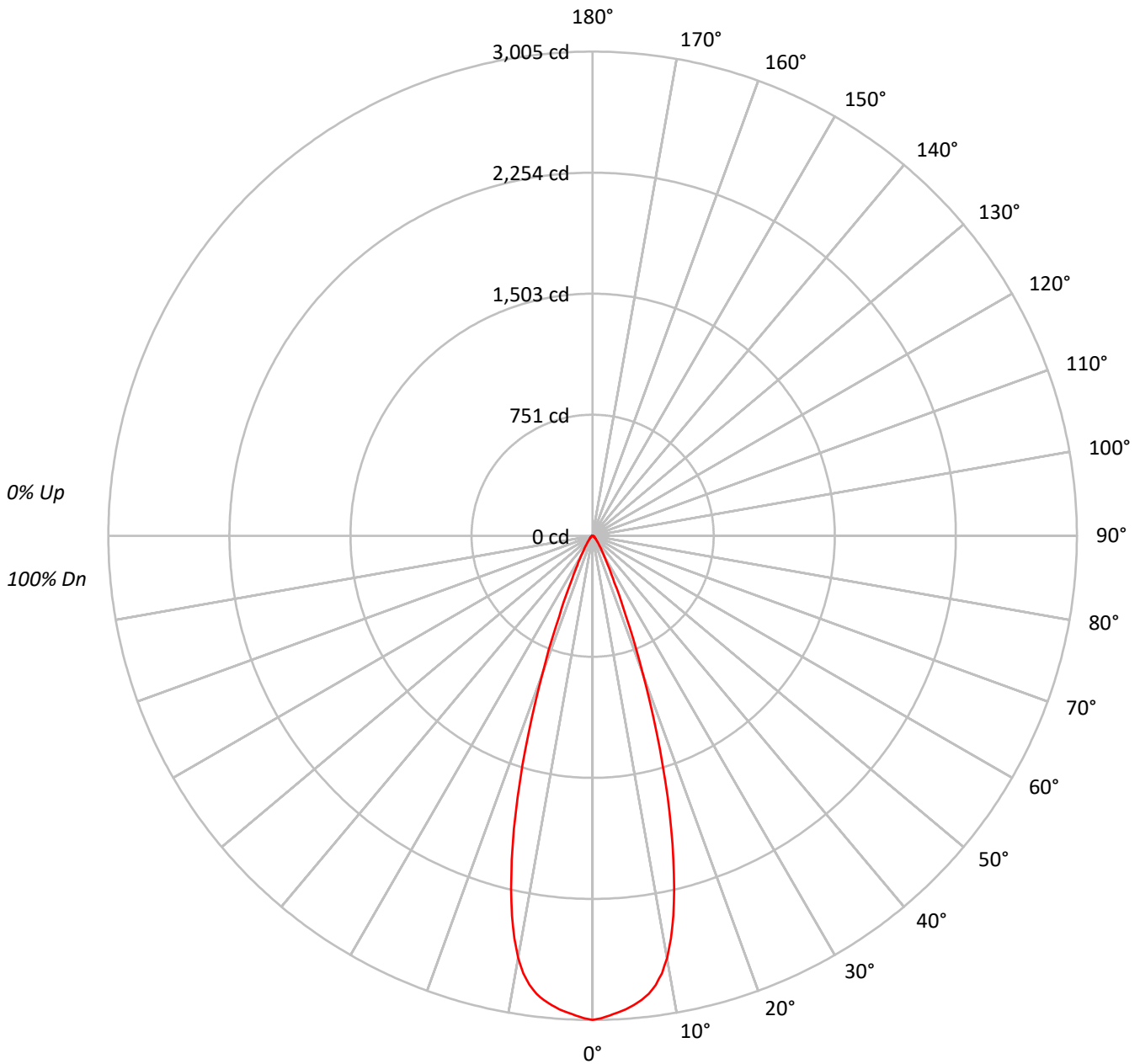
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75	75	75	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	68

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

	0°
0°	1482556
5°	1448400
10°	1332886
15°	963390
20°	475899
25°	174584
30°	78733
35°	42884
40°	26535
45°	18002
50°	13432
55°	11526
60°	10164
65°	9573
70°	8944
75°	7816
80°	8808
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.7	26.2
10°-20°	496.6	47.9
20°-30°	172.9	16.7
30°-40°	47.9	4.6
40°-50°	20.8	2.0
50°-60°	12.1	1.2
60°-70°	8.2	0.8
70°-80°	4.5	0.4
80°-90°	1.3	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°	941.3	90.9
0°-40°	989.2	95.5
0°-60°	1022.1	98.7
0°-90°	1036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3005	
5°	2924	272
15°	1886	497
25°	321	173
35°	71	48
45°	26	21
55°	13	12
65°	8	8
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3004.9
1°	2994.6
2°	2979.1
3°	2963.7
4°	2946.1
5°	2924.5
6°	2897.7
7°	2864.7
8°	2814.1
9°	2749.2
10°	2660.5
11°	2547.1
12°	2409.9
13°	2249.0
14°	2072.7
15°	1886.1
16°	1687.0
17°	1487.0
18°	1285.9
19°	1092.0
20°	906.4
22.5°	540.3
25°	320.7
26°	267.1
27°	222.7
28°	188.7
29°	160.9
30°	138.2
32.5°	98.0
35°	71.2
37.5°	53.6
40°	41.2
42.5°	32.0
45°	25.8
47.5°	21.7
50°	17.5
52.5°	15.5
55°	13.4
57.5°	11.3
60°	10.3
62.5°	9.3
65°	8.2
67.5°	7.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	4.1
77.5°	3.1
80°	3.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







70°	6.2
72.5°	5.2



(END OF REPORT)