

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: P431025

Luminaire Tested: **LAMR4B112R359035DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431025  
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: LAMR4B112R359035DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1269.1 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

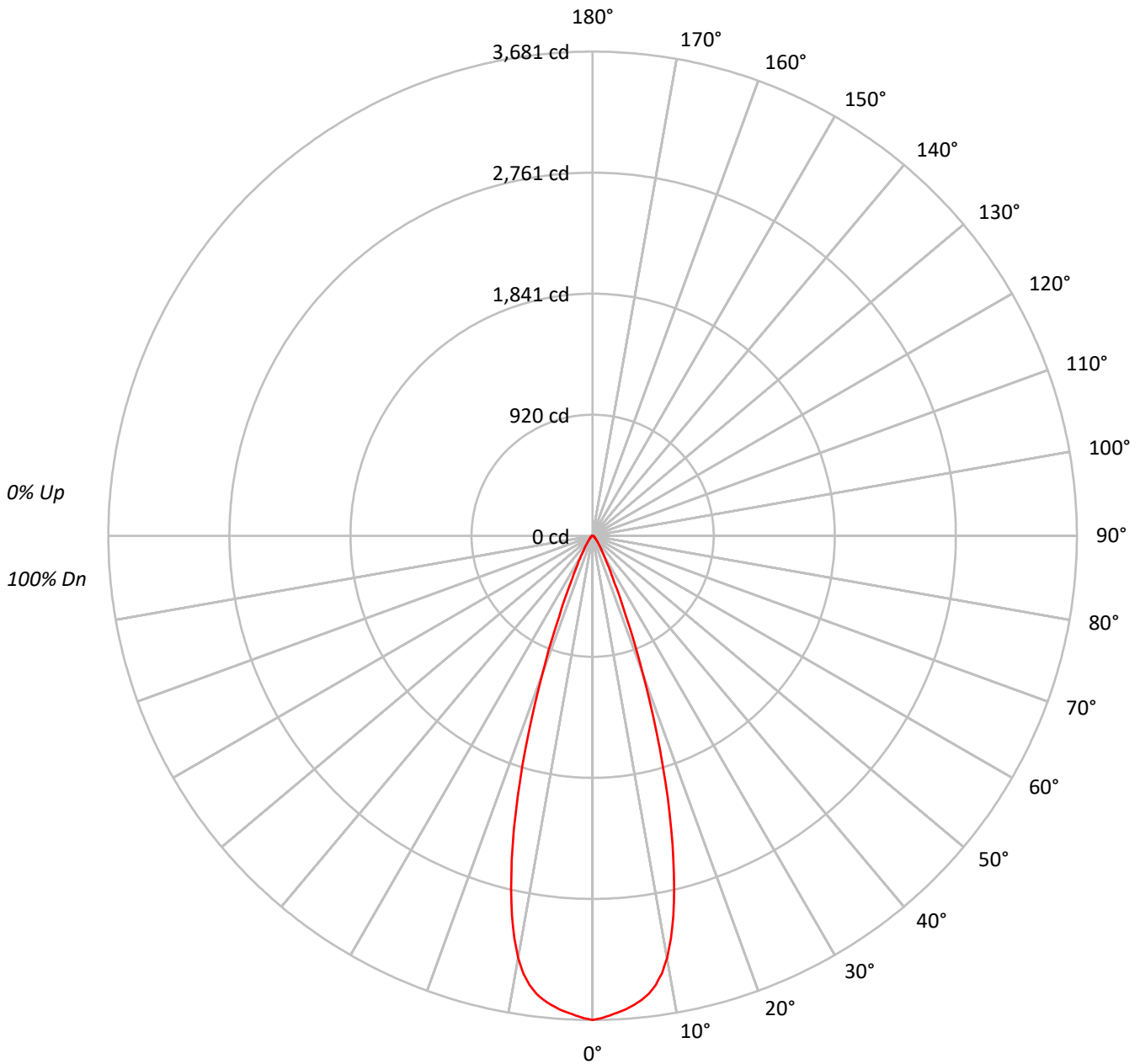
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	1816130
5°	1774284
10°	1632779
15°	1180116
20°	583008
25°	213889
30°	96451
35°	52521
40°	32525
45°	22049
50°	16503
55°	14107
60°	12433
65°	11791
70°	10963
75°	9722
80°	10797
85°	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.9	26.2
10°-20°	608.4	47.9
20°-30°	211.8	16.7
30°-40°	58.7	4.6
40°-50°	25.5	2.0
50°-60°	14.8	1.2
60°-70°	10.0	0.8
70°-80°	5.5	0.4
80°-90°	1.5	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°	1153.1	90.9
0°-40°	1211.8	95.5
0°-60°	1252.1	98.7
0°-90°	1269.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3681	
5°	3582	333
15°	2310	608
25°	393	212
35°	87	59
45°	32	26
55°	16	15
65°	10	10
75°	5	6
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3681.0
1°	3668.4
2°	3649.4
3°	3630.5
4°	3609.0
5°	3582.5
6°	3549.6
7°	3509.2
8°	3447.3
9°	3367.7
10°	3259.1
11°	3120.1
12°	2952.1
13°	2755.1
14°	2539.1
15°	2310.4
16°	2066.6
17°	1821.6
18°	1575.2
19°	1337.7
20°	1110.4
22.5°	661.9
25°	392.9
26°	327.2
27°	272.9
28°	231.2
29°	197.1
30°	169.3
32.5°	120.0
35°	87.2
37.5°	65.7
40°	50.5
42.5°	39.2
45°	31.6
47.5°	26.5
50°	21.5
52.5°	18.9
55°	16.4
57.5°	13.9
60°	12.6
62.5°	11.4
65°	10.1
67.5°	8.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	5.1
77.5°	3.8
80°	3.8
82.5°	2.5
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







70°	7.6
72.5°	6.3



(END OF REPORT)