

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: P431188

Luminaire Tested: **LAMR4B112R709030DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R709030DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1151.3 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

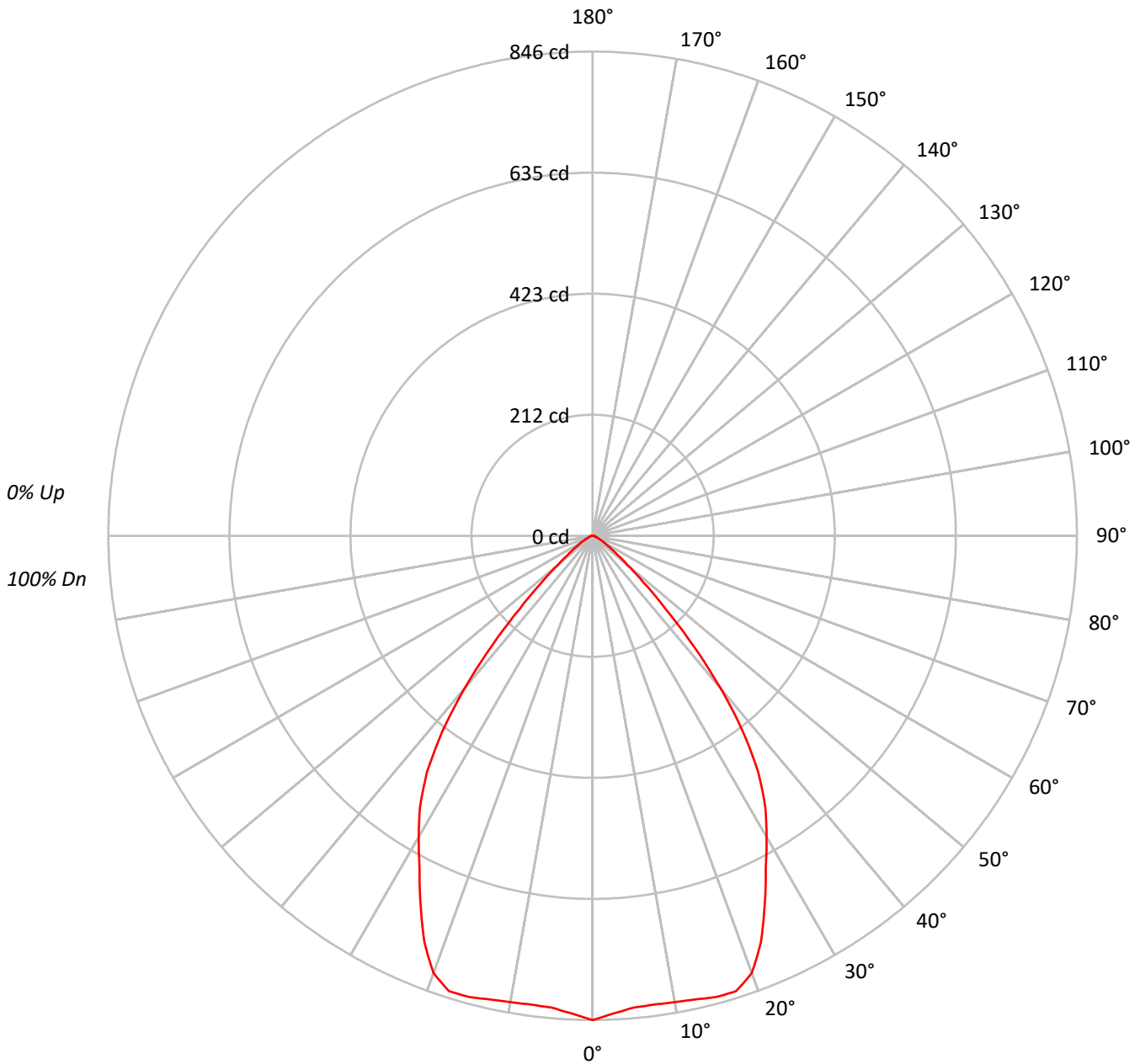
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84															
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70															
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64															
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58				58															
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54				54															
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50				50															
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46				46															
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43				43															

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

	0°
0°	417498
5°	409732
10°	414470
15°	426198
20°	426913
25°	387329
30°	346096
35°	303923
40°	223811
45°	125315
50°	61712
55°	34579
60°	21018
65°	13776
70°	10242
75°	8959
80°	6819
85°	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	6.9
10°-20°	235.1	20.4
20°-30°	326.3	28.3
30°-40°	307.0	26.7
40°-50°	146.5	12.7
50°-60°	38.7	3.4
60°-70°	12.2	1.1
70°-80°	5.0	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°	640.5	55.6
0°-40°	947.5	82.3
0°-60°	1132.7	98.4
0°-90°	1151.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	846	
5°	827	79
15°	834	235
25°	712	326
35°	505	307
45°	180	147
55°	40	39
65°	12	12
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	846.2
2.5°	835.5
5°	827.3
7.5°	826.1
10°	827.3
12.5°	829.6
15°	834.4
17.5°	834.4
20°	813.1
22.5°	768.2
25°	711.5
27.5°	654.7
30°	607.5
32.5°	561.4
35°	504.6
37.5°	431.4
40°	347.5
42.5°	258.8
45°	179.6
47.5°	119.4
50°	80.4
52.5°	55.5
55°	40.2
57.5°	28.4
60°	21.3
62.5°	15.4
65°	11.8
67.5°	8.3
70°	7.1
72.5°	5.9
75°	4.7
77.5°	3.5
80°	2.4
82.5°	2.4
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)