

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: P431204

Luminaire Tested: **LAMR4B112R709730DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431204  
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: LAMR4B112R709730DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1101.4 lumens  
Efficiency: N/A  
Efficacy: 77.0 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

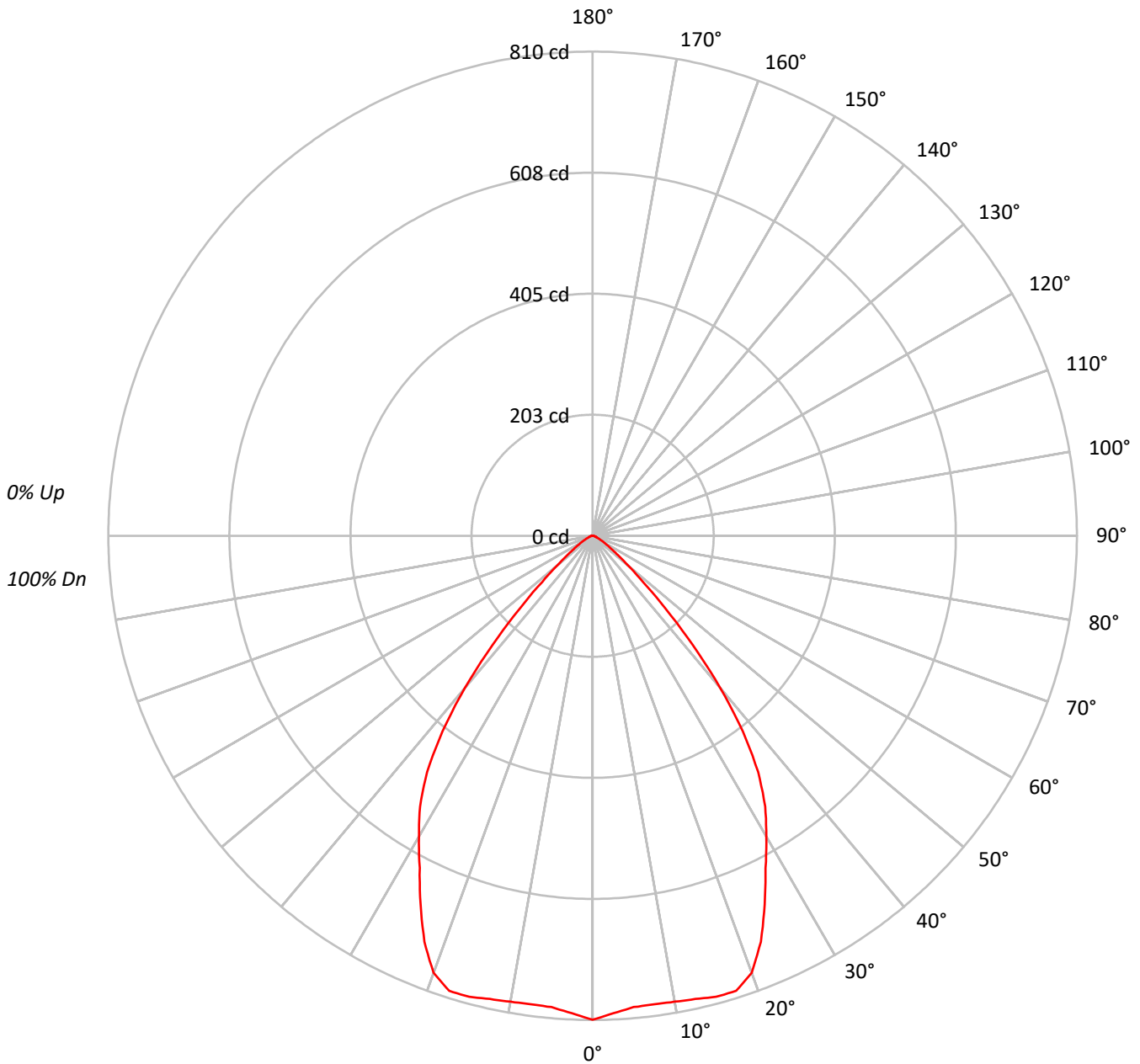
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58																			
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																			
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43																			

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

	0°
0°	399440
5°	392002
10°	396534
15°	407759
20°	408431
25°	370562
30°	331113
35°	290793
40°	214086
45°	119942
50°	59026
55°	33031
60°	20130
65°	13192
70°	9809
75°	8578
80°	6535
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	6.9
10°-20°	224.9	20.4
20°-30°	312.2	28.3
30°-40°	293.7	26.7
40°-50°	140.2	12.7
50°-60°	37.0	3.4
60°-70°	11.7	1.1
70°-80°	4.8	0.4
80°-90°	1.2	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°	612.8	55.6
0°-40°	906.5	82.3
0°-60°	1083.7	98.4
0°-90°	1101.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	810	
5°	792	76
15°	798	225
25°	681	312
35°	483	294
45°	172	140
55°	38	37
65°	11	12
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	809.6
2.5°	799.4
5°	791.5
7.5°	790.4
10°	791.5
12.5°	793.8
15°	798.3
17.5°	798.3
20°	777.9
22.5°	735.0
25°	680.7
27.5°	626.4
30°	581.2
32.5°	537.1
35°	482.8
37.5°	412.7
40°	332.4
42.5°	247.6
45°	171.9
47.5°	114.2
50°	76.9
52.5°	53.1
55°	38.4
57.5°	27.1
60°	20.4
62.5°	14.7
65°	11.3
67.5°	7.9
70°	6.8
72.5°	5.7
75°	4.5
77.5°	3.4
80°	2.3
82.5°	2.3
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)