

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: P431009

Luminaire Tested: **LAMR4B112R309727DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431009  
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: LAMR4B112R309727DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

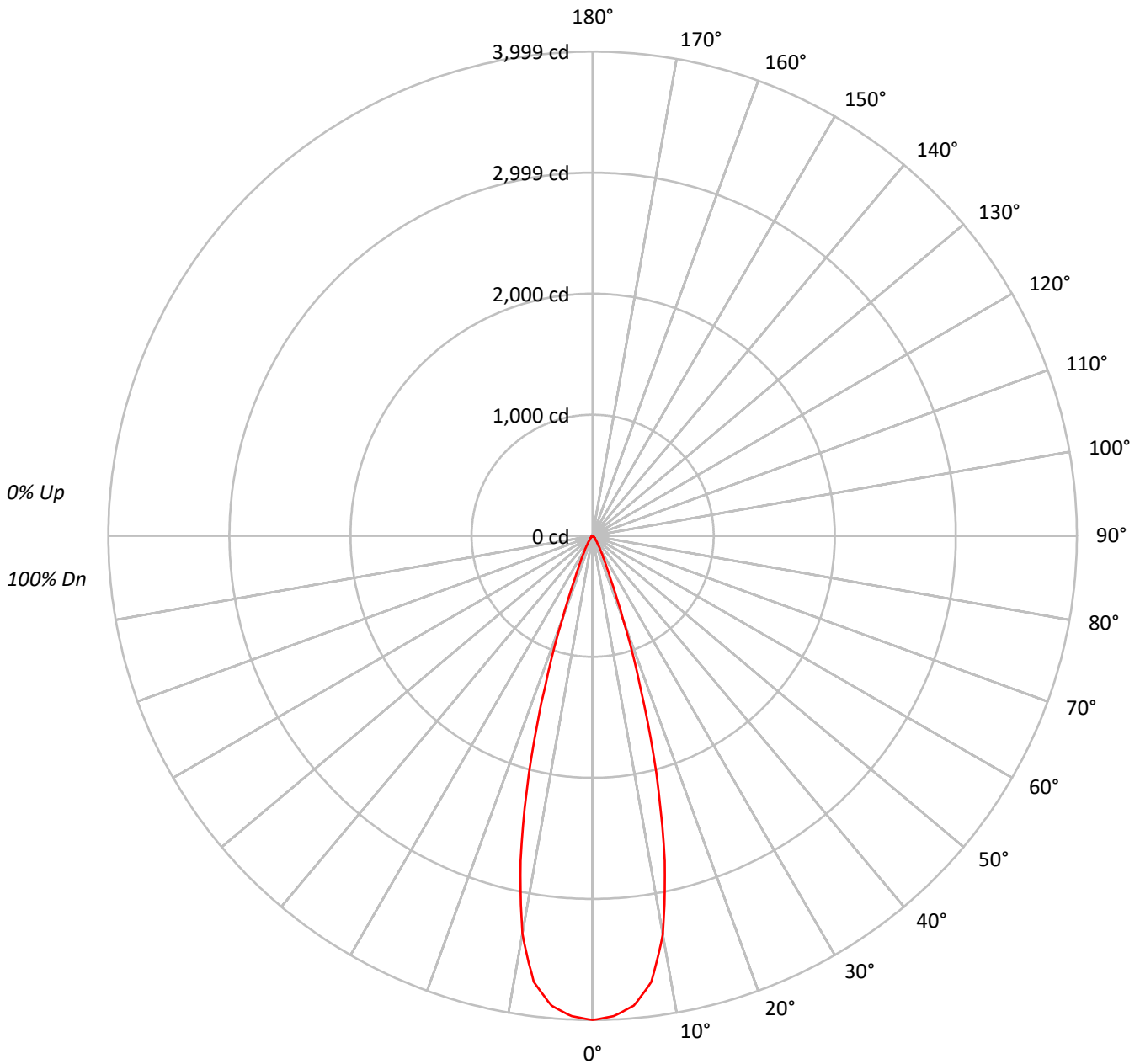
Lumens per Lamp: N/A  
Luminaire Lumens: 1088.8 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			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	94	92	97	95	94			93																	
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91			90																	
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88			87																	
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85			84																	
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82			81																	
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80			79																	
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78			77																	
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75			74																	
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73			72																	

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

	0°
0°	1972877
5°	1929747
10°	1673209
15°	1037045
20°	380079
25°	127059
30°	62383
35°	31079
40°	19257
45°	12280
50°	8750
55°	7140
60°	6118
65°	4786
70°	5914
75°	5909
80°	5967
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.1	32.6
10°-20°	536.1	49.2
20°-30°	130.7	12.0
30°-40°	35.8	3.3
40°-50°	14.4	1.3
50°-60°	7.7	0.7
60°-70°	4.6	0.4
70°-80°	3.5	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°	1021.9	93.9
0°-40°	1057.7	97.1
0°-60°	1079.9	99.2
0°-90°	1088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3999	
5°	3896	355
15°	2030	536
25°	233	131
35°	52	36
45°	18	14
55°	8	8
65°	4	5
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3998.7
2.5°	3971.8
5°	3896.4
7.5°	3716.7
10°	3339.8
12.5°	2749.1
15°	2030.3
17.5°	1308.4
20°	723.9
22.5°	386.2
25°	233.4
27.5°	158.0
30°	109.5
32.5°	74.4
35°	51.6
37.5°	38.2
40°	29.9
42.5°	22.7
45°	17.6
47.5°	14.5
50°	11.4
52.5°	10.3
55°	8.3
57.5°	7.2
60°	6.2
62.5°	5.2
65°	4.1
67.5°	4.1
70°	4.1
72.5°	4.1
75°	3.1
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)