

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: P429841

Luminaire Tested: **LAM4B112R309027DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P429841  
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: LAM4B112R309027DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1143.5 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

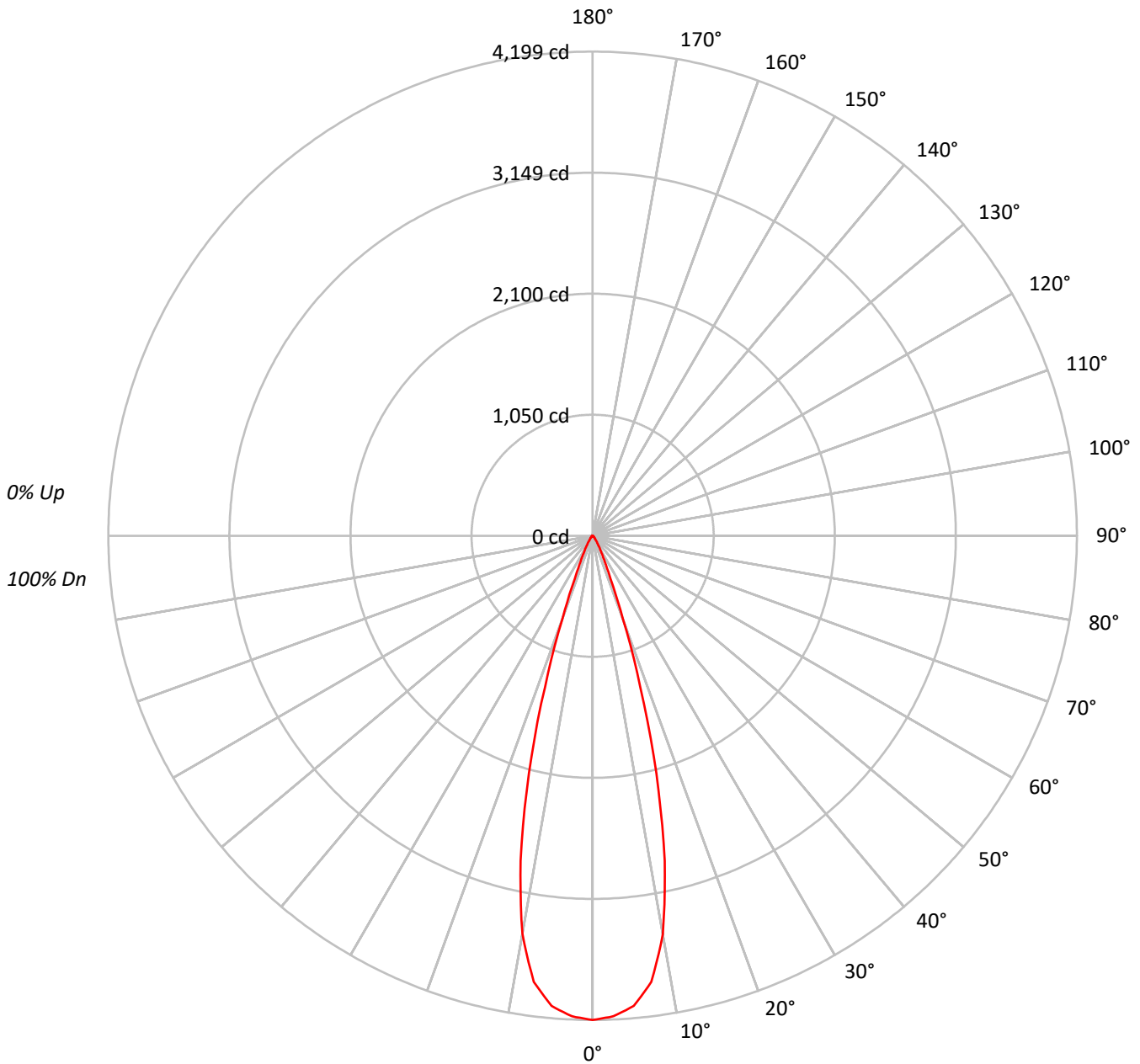
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	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°	2071849
5°	2026621
10°	1757175
15°	1089094
20°	399191
25°	133429
30°	65516
35°	32645
40°	20288
45°	12838
50°	9134
55°	7484
60°	6414
65°	5020
70°	6203
75°	6291
80°	6251
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.9	32.6
10°-20°	563.0	49.2
20°-30°	137.3	12.0
30°-40°	37.6	3.3
40°-50°	15.1	1.3
50°-60°	8.1	0.7
60°-70°	4.8	0.4
70°-80°	3.7	0.3
80°-90°	0.9	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°	1073.2	93.9
0°-40°	1110.8	97.1
0°-60°	1134.1	99.2
0°-90°	1143.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4199	
5°	4092	373
15°	2132	563
25°	245	137
35°	54	38
45°	18	15
55°	9	8
65°	4	5
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4199.3
2.5°	4171.1
5°	4092.0
7.5°	3903.3
10°	3507.4
12.5°	2887.0
15°	2132.2
17.5°	1374.1
20°	760.3
22.5°	405.6
25°	245.1
27.5°	165.9
30°	115.0
32.5°	78.1
35°	54.2
37.5°	40.1
40°	31.5
42.5°	23.9
45°	18.4
47.5°	15.2
50°	11.9
52.5°	10.8
55°	8.7
57.5°	7.6
60°	6.5
62.5°	5.4
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	3.3
77.5°	3.3
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)