

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: P429878

Luminaire Tested: **LAM4B112R359050DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P429878  
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: LAM4B112R359050DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1248.2 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

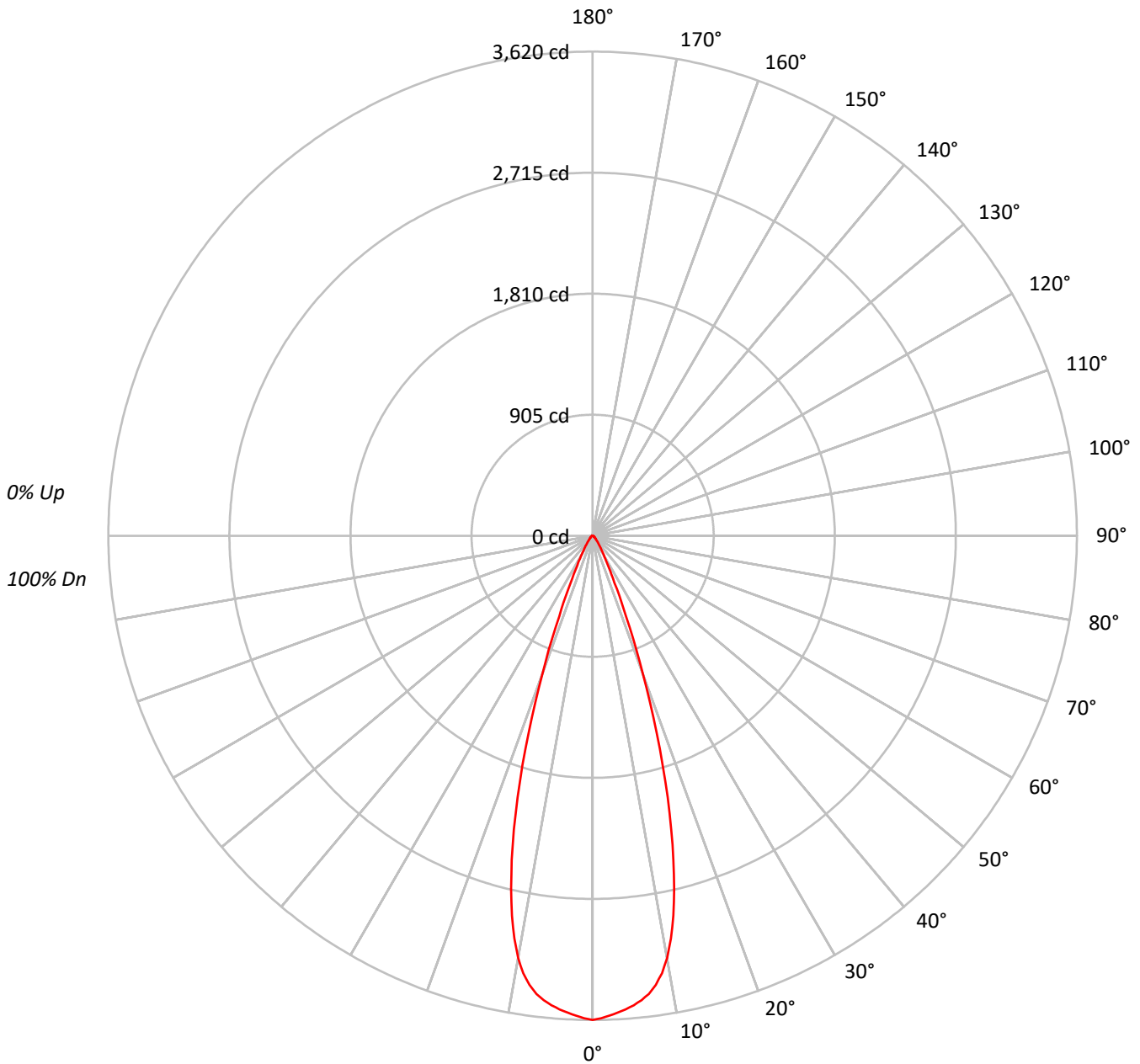
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
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	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°	1786182
5°	1745014
10°	1605876
15°	1160655
20°	573400
25°	210350
30°	94856
35°	51618
40°	32010
45°	21700
50°	16196
55°	13935
60°	12236
65°	11558
70°	10819
75°	9531
80°	10513
85°	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.4	26.2
10°-20°	598.3	47.9
20°-30°	208.3	16.7
30°-40°	57.7	4.6
40°-50°	25.1	2.0
50°-60°	14.6	1.2
60°-70°	9.8	0.8
70°-80°	5.4	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°	1134.1	90.9
0°-40°	1191.8	95.5
0°-60°	1231.4	98.7
0°-90°	1248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3620	
5°	3523	327
15°	2272	598
25°	386	208
35°	86	58
45°	31	25
55°	16	15
65°	10	10
75°	5	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3620.3
1°	3607.9
2°	3589.3
3°	3570.6
4°	3549.5
5°	3523.4
6°	3491.1
7°	3451.4
8°	3390.5
9°	3312.2
10°	3205.4
11°	3068.7
12°	2903.5
13°	2709.7
14°	2497.2
15°	2272.3
16°	2032.6
17°	1791.5
18°	1549.3
19°	1315.7
20°	1092.1
22.5°	651.0
25°	386.4
26°	321.8
27°	268.4
28°	227.4
29°	193.8
30°	166.5
32.5°	118.0
35°	85.7
37.5°	64.6
40°	49.7
42.5°	38.5
45°	31.1
47.5°	26.1
50°	21.1
52.5°	18.6
55°	16.2
57.5°	13.7
60°	12.4
62.5°	11.2
65°	9.9
67.5°	8.7



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	5.0
77.5°	3.7
80°	3.7
82.5°	2.5
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







70°	7.5
72.5°	6.2



(END OF REPORT)