

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: P429799

Luminaire Tested: **LAM4B112R209035DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P429799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B112R209035DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1284.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

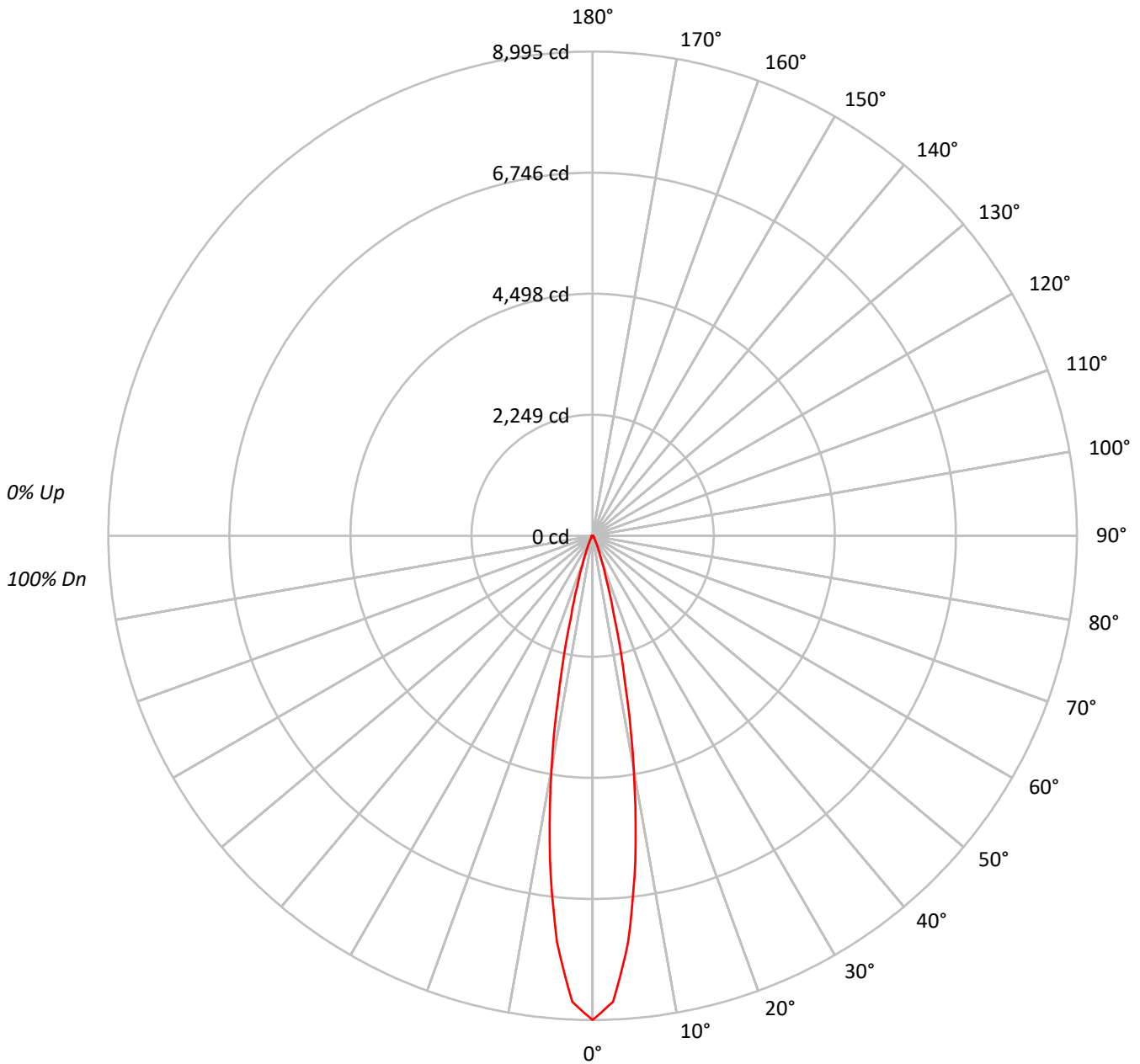
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	95	94	94	93	91	91	91	90	88	87	87	85														
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	93	91	91	90	88	87	85	85	83	82	81	80															
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93	91	91	90	88	87	85	85	83	82	81	80	79	78															
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	87	87	85	85	83	82	81	80	79	78	77	76															
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	85	85	83	82	81	80	79	78	77	76	75	74															
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	83	83	81	81	80	79	78	77	76	75	74	73															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	81	81	80	79	78	77	76	75	74	73	72	71	70														
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	80	79	78	77	76	75	74	73	72	71	70	69															
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68															
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78	77	76	75	74	73	72	71	70	69	68	67	66															

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

	0°
0°	4438097
5°	3751329
10°	2203407
15°	788957
20°	261052
25°	103923
30°	49678
35°	28369
40°	20481
45°	17234
50°	19880
55°	16257
60°	8091
65°	6888
70°	8511
75°	8959
80°	6819
85°	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.2	48.3
10°-20°	483.7	37.6
20°-30°	100.4	7.8
30°-40°	31.6	2.5
40°-50°	20.3	1.6
50°-60°	16.3	1.3
60°-70°	6.4	0.5
70°-80°	4.8	0.4
80°-90°	1.0	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°	1204.3	93.7
0°-40°	1235.9	96.2
0°-60°	1272.6	99.0
0°-90°	1284.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8995	
5°	7574	620
15°	1545	484
25°	191	100
35°	47	32
45°	25	20
55°	19	16
65°	6	6
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8995.3
2.5°	8665.4
5°	7574.4
7.5°	6068.7
10°	4398.1
12.5°	2774.6
15°	1544.6
17.5°	849.5
20°	497.2
22.5°	304.0
25°	190.9
27.5°	126.1
30°	87.2
32.5°	61.3
35°	47.1
37.5°	37.7
40°	31.8
42.5°	27.1
45°	24.7
47.5°	24.7
50°	25.9
52.5°	24.7
55°	18.9
57.5°	13.0
60°	8.2
62.5°	7.1
65°	5.9
67.5°	5.9
70°	5.9
72.5°	5.9
75°	4.7
77.5°	3.5
80°	2.4
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)