

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: P431066

Luminaire Tested: **LAMR4B112R459027DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B112R459027DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1131.7 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

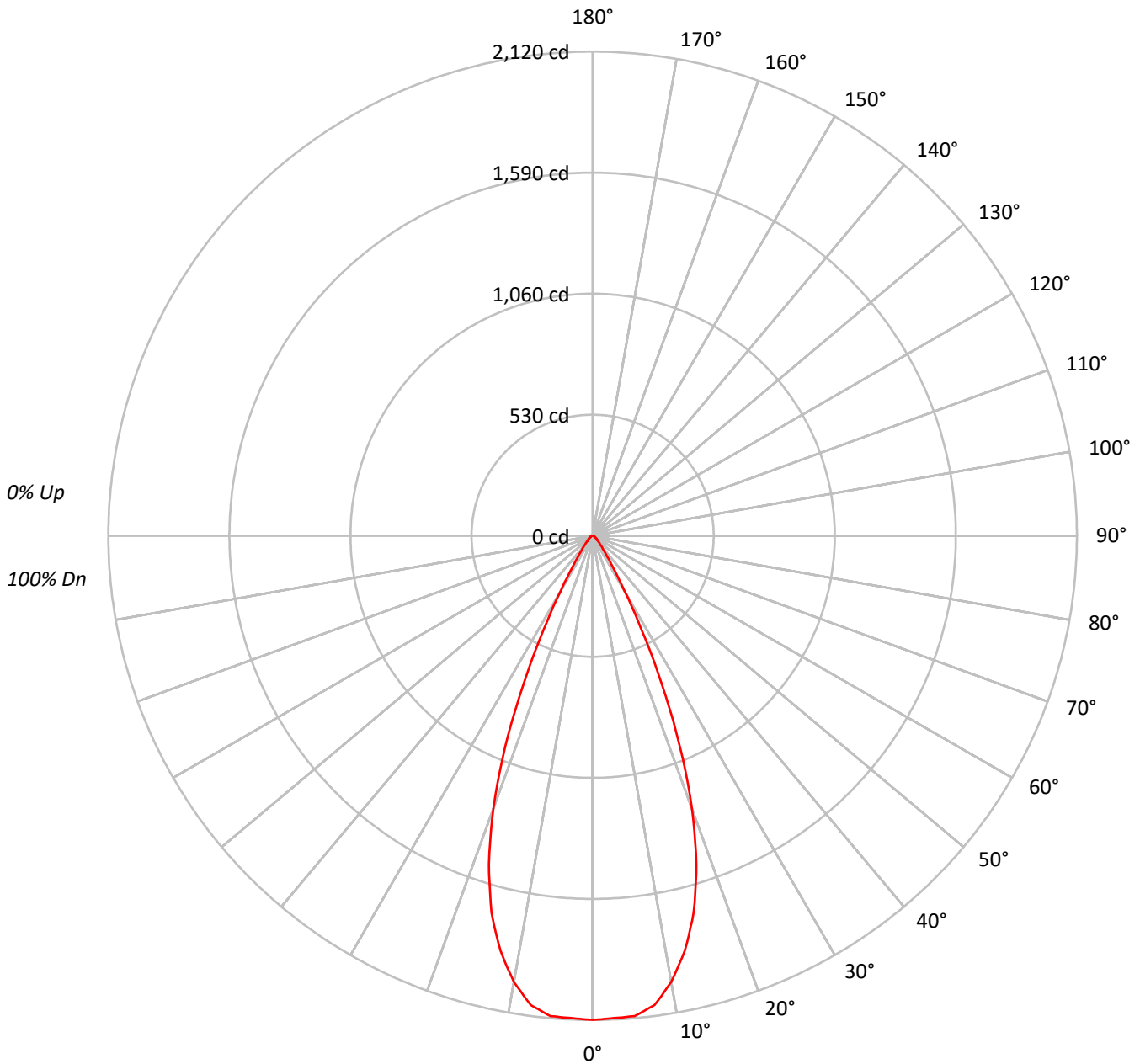
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89			89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85			85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76			76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73			73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63			63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61			61

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

	0°
0°	1045718
5°	1045404
10°	993665
15°	872828
20°	667698
25°	389779
30°	159518
35°	67458
40°	36776
45°	23723
50°	18575
55°	16085
60°	13025
65°	10273
70°	9521
75°	8388
80°	9376
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	17.5
10°-20°	465.2	41.1
20°-30°	327.8	29.0
30°-40°	80.7	7.1
40°-50°	28.2	2.5
50°-60°	16.7	1.5
60°-70°	9.2	0.8
70°-80°	5.1	0.4
80°-90°	1.3	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°	990.5	87.5
0°-40°	1071.2	94.7
0°-60°	1116.0	98.6
0°-90°	1131.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2120	
5°	2111	198
15°	1709	465
25°	716	328
35°	112	81
45°	34	28
55°	19	17
65°	9	9
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2119.5
2.5°	2114.0
5°	2110.8
7.5°	2072.3
10°	1983.4
12.5°	1862.6
15°	1708.8
17.5°	1510.0
20°	1271.7
22.5°	998.3
25°	716.0
27.5°	462.3
30°	280.0
32.5°	170.2
35°	112.0
37.5°	79.1
40°	57.1
42.5°	43.9
45°	34.0
47.5°	28.6
50°	24.2
52.5°	20.9
55°	18.7
57.5°	16.5
60°	13.2
62.5°	11.0
65°	8.8
67.5°	7.7
70°	6.6
72.5°	5.5
75°	4.4
77.5°	4.4
80°	3.3
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)