

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: P431159

Luminaire Tested: **LAMR4B112R659024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R659024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1008.7 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

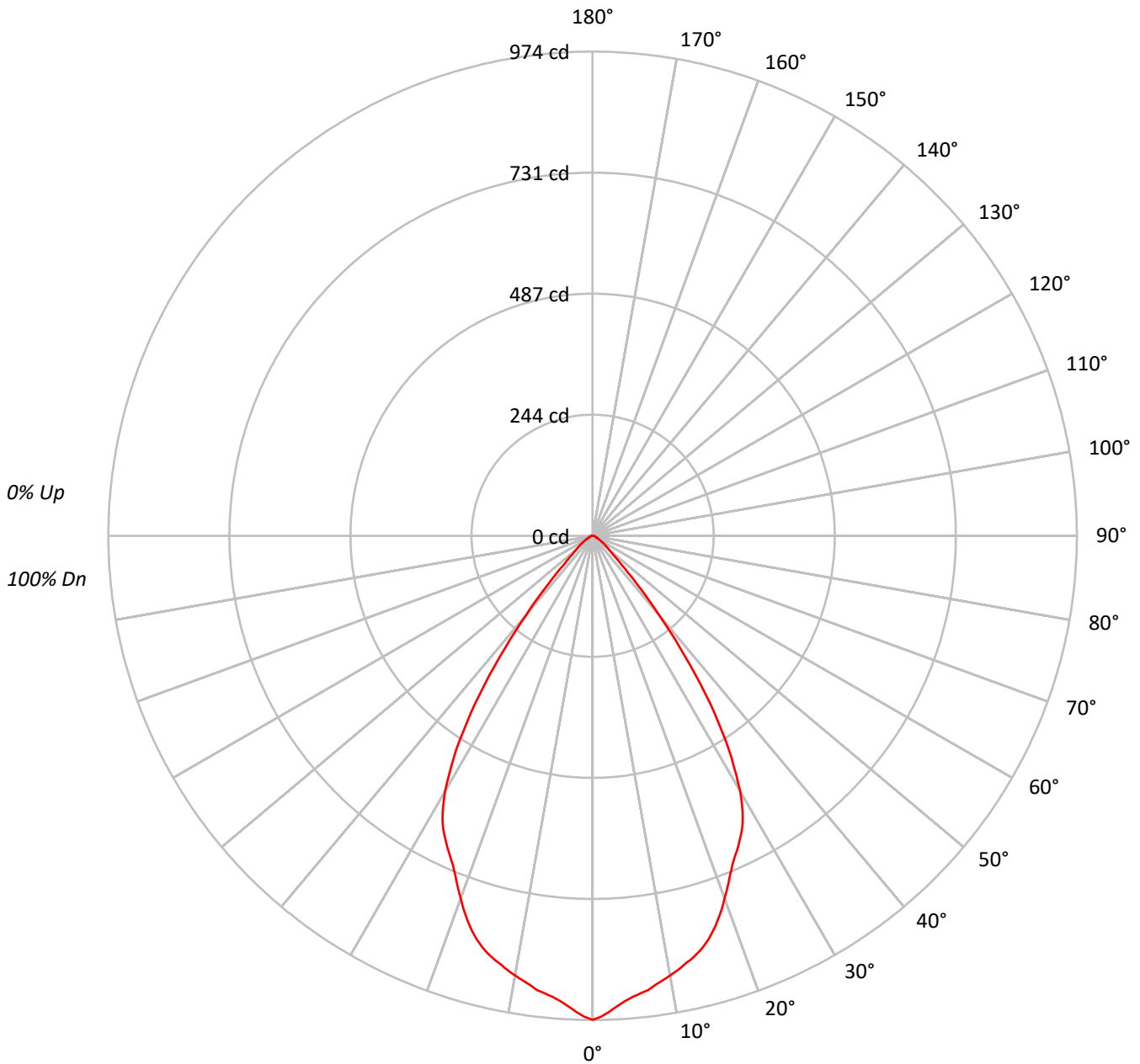
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	480404
5°	461041
10°	450090
15°	437538
20°	407486
25°	376333
30°	337835
35°	248210
40°	134029
45°	57634
50°	32084
55°	22451
60°	14407
65°	10974
70°	9088
75°	8006
80°	8808
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	8.7
10°-20°	239.0	23.7
20°-30°	316.8	31.4
30°-40°	250.9	24.9
40°-50°	74.7	7.4
50°-60°	23.9	2.4
60°-70°	9.5	0.9
70°-80°	4.5	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°	643.8	63.8
0°-40°	894.7	88.7
0°-60°	993.4	98.5
0°-90°	1008.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	974	
5°	931	88
15°	857	239
25°	691	317
35°	412	251
45°	83	75
55°	26	24
65°	9	10
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	973.7
1°	967.5
2°	958.1
3°	947.6
4°	938.2
5°	930.9
6°	925.6
7°	920.4
8°	912.0
9°	904.7
10°	898.4
11°	891.1
12°	882.7
13°	875.4
14°	867.1
15°	856.6
16°	845.1
17°	830.5
18°	813.7
19°	795.9
20°	776.1
21°	757.2
22°	737.4
23°	719.6
24°	704.9
25°	691.3
26°	676.7
27°	662.1
28°	643.2
29°	620.2
30°	593.0
32.5°	510.4
35°	412.1
37.5°	305.4
40°	208.1
42.5°	131.8
45°	82.6
47.5°	55.4
50°	41.8
52.5°	33.5
55°	26.1
57.5°	19.9
60°	14.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.3
70°	6.3
72.5°	5.2
75°	4.2
77.5°	3.1
80°	3.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		11.5
65°		9.4



(END OF REPORT)