

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: P433320

Luminaire Tested: **LAMR4B108R109024DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R109024DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 684.7 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

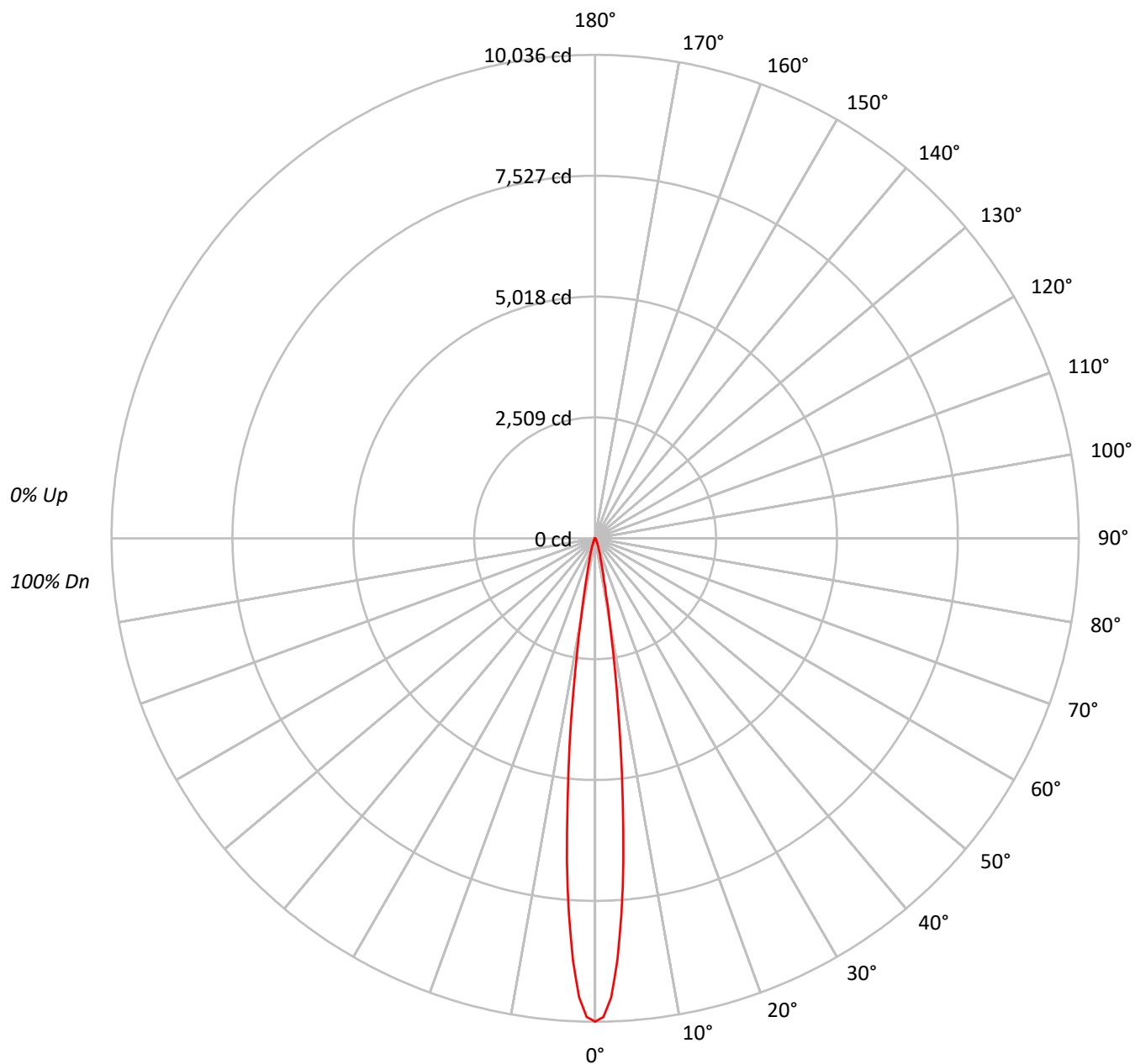
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LAMR4B108R109024DE010x1MW

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98		
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96		
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94		
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93		
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91		
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90		
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89		
8	100	95	92	89	99	94	91	89	94	91	89	93	90	89	92	90	88	88		
9	98	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87		
10	97	92	89	87	96	92	89	87	91	88	87	90	88	86	90	88	86	86		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4951804
5°	3326194
10°	848879
15°	219739
20°	98446
25°	46817
30°	25124
35°	14636
40°	11400
45°	6140
50°	5066
55°	3785
60°	4342
65°	2568
70°	3174
75°	4194
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.6	67.4
10°-20°	146.9	21.5
20°-30°	42.9	6.3
30°-40°	16.3	2.4
40°-50°	7.8	1.1
50°-60°	4.7	0.7
60°-70°	2.4	0.4
70°-80°	2.0	0.3
80°-90°	0.0	0.0
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°	651.4	95.1
0°-40°	667.8	97.5
0°-60°	680.2	99.3
0°-90°	684.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10036	
5°	6716	462
15°	430	147
25°	86	43
35°	24	16
45°	9	8
55°	4	5
65°	2	2
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10036.5
1°	9939.4
2°	9537.9
3°	8772.3
4°	7825.8
5°	6716.0
6°	5489.3
7°	4357.5
8°	3254.3
9°	2371.8
10°	1694.4
11°	1200.2
12°	889.1
13°	675.1
14°	536.1
15°	430.2
17.5°	280.2
20°	187.5
22.5°	125.8
25°	86.0
27.5°	59.6
30°	44.1
32.5°	30.9
35°	24.3
37.5°	19.9
40°	17.7
42.5°	13.2
45°	8.8
47.5°	6.6
50°	6.6
52.5°	6.6
55°	4.4
57.5°	4.4
60°	4.4
62.5°	2.2
65°	2.2
67.5°	2.2
70°	2.2
72.5°	2.2
75°	2.2
77.5°	2.2
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)