

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: P433322

Luminaire Tested: **LAMR4B108R109027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433322
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: LAMR4B108R109027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 746.8 lumens
Efficiency: N/A
Efficacy: 65.5 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

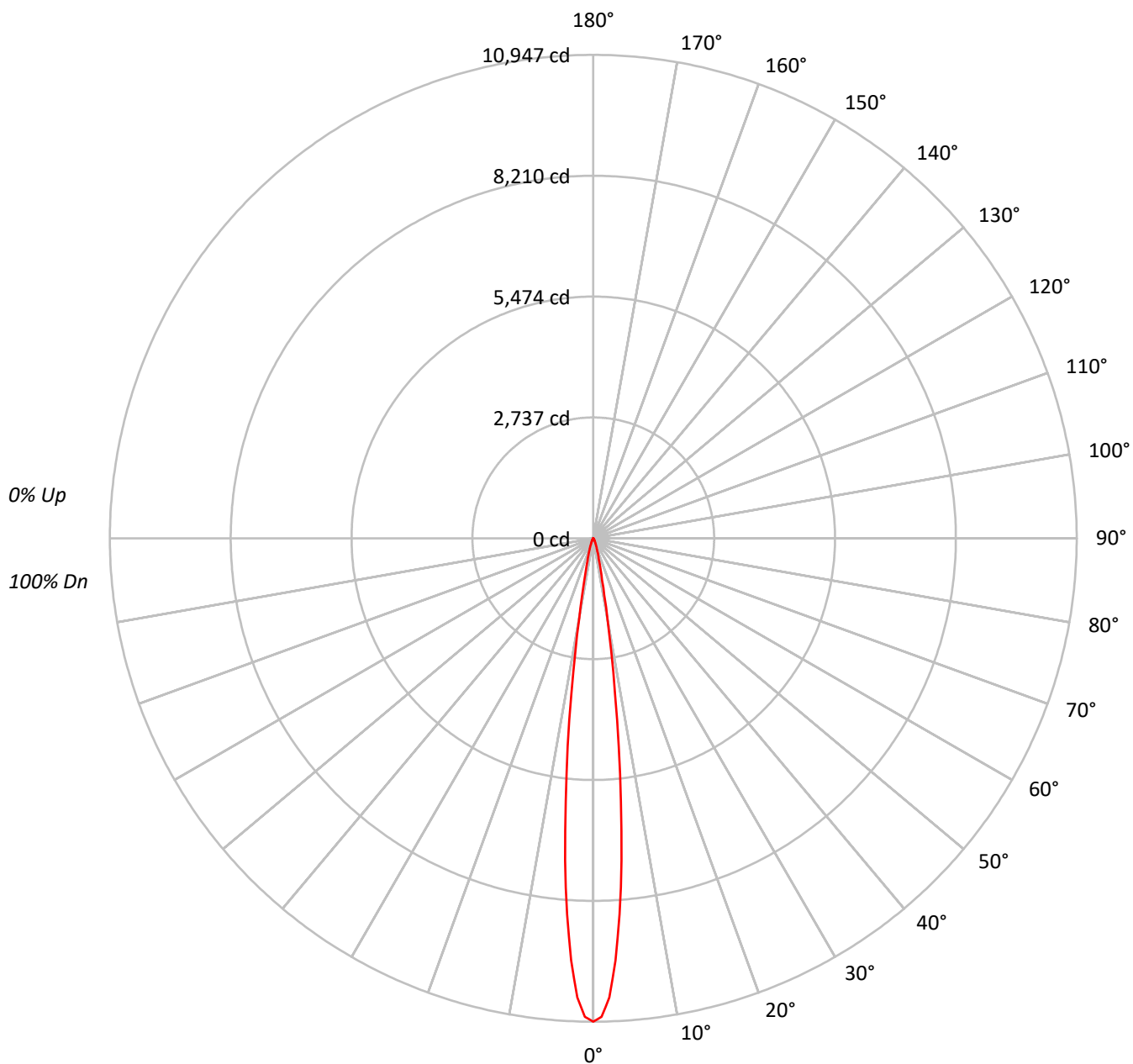
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5400927
5°	3627860
10°	925881
15°	239711
20°	107371
25°	51118
30°	27403
35°	15961
40°	12430
45°	6698
50°	5526
55°	4129
60°	4736
65°	2802
70°	3462
75°	4575
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.4	67.4
10°-20°	160.3	21.5
20°-30°	46.8	6.3
30°-40°	17.8	2.4
40°-50°	8.5	1.1
50°-60°	5.1	0.7
60°-70°	2.7	0.4
70°-80°	2.2	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°	710.5	95.1
0°-40°	728.3	97.5
0°-60°	741.9	99.3
0°-90°	746.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10947	
5°	7325	503
15°	469	160
25°	94	47
35°	26	18
45°	10	8
55°	5	5
65°	2	3
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10946.8
1°	10840.9
2°	10402.9
3°	9567.9
4°	8535.5
5°	7325.1
6°	5987.2
7°	4752.7
8°	3549.5
9°	2586.9
10°	1848.1
11°	1309.1
12°	969.8
13°	736.4
14°	584.8
15°	469.3
17.5°	305.6
20°	204.5
22.5°	137.2
25°	93.9
27.5°	65.0
30°	48.1
32.5°	33.7
35°	26.5
37.5°	21.7
40°	19.3
42.5°	14.4
45°	9.6
47.5°	7.2
50°	7.2
52.5°	7.2
55°	4.8
57.5°	4.8
60°	4.8
62.5°	2.4
65°	2.4
67.5°	2.4
70°	2.4
72.5°	2.4
75°	2.4
77.5°	2.4
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)