

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: P433337

Luminaire Tested: **LAMR4B108R109727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433337
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: LAMR4B108R109727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 662.5 lumens
Efficiency: N/A
Efficacy: 58.1 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

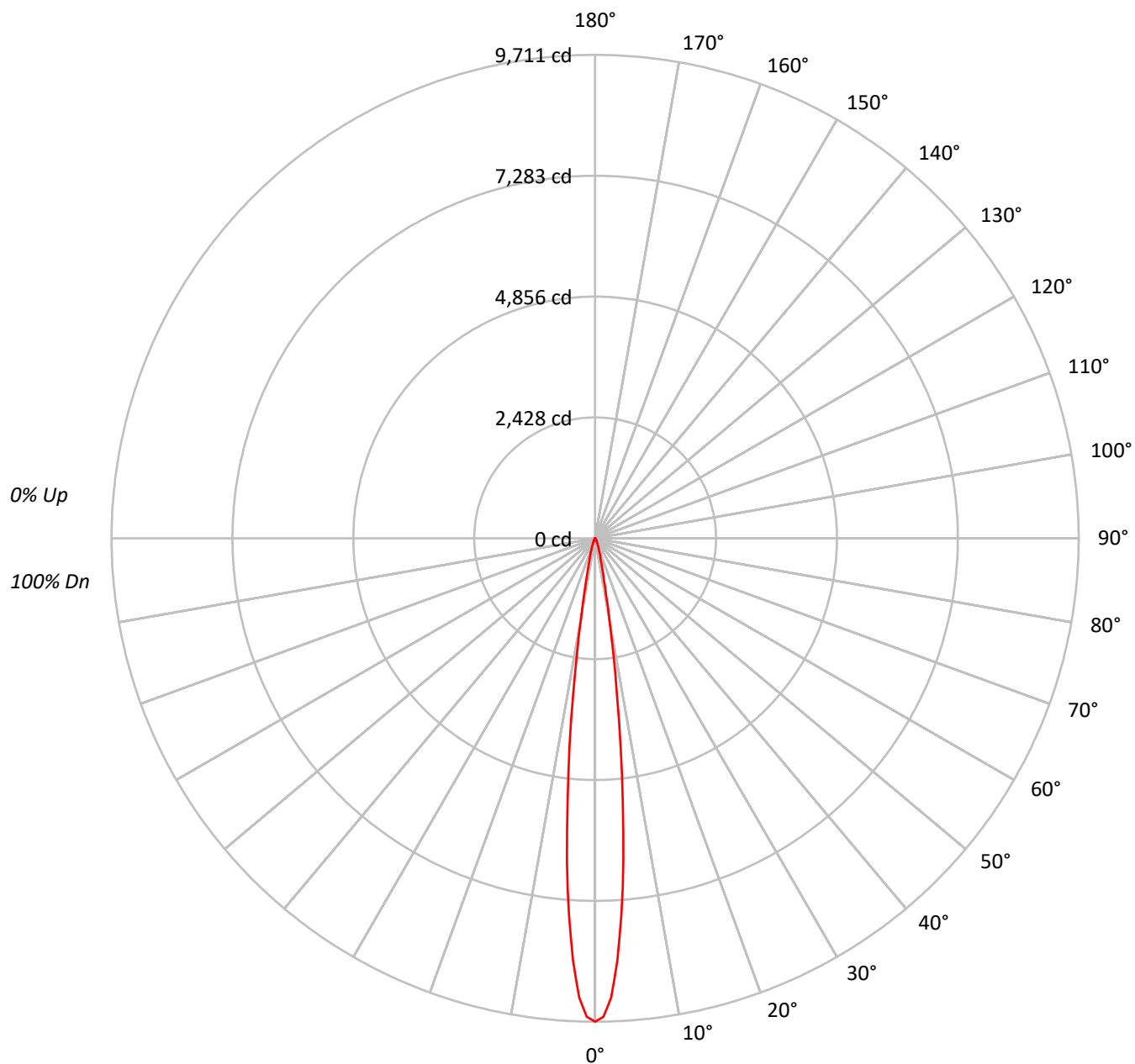
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433337

CATALOG NUMBER: LAMR4B108R109727DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433337

CATALOG NUMBER: LAMR4B108R109727DE010x1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4791258
5°	3218326
10°	821374
15°	212639
20°	95295
25°	45347
30°	24326
35°	14154
40°	11013
45°	5931
50°	4912
55°	3699
60°	4243
65°	2452
70°	3029
75°	4003
80°	0
85°	0



TEST NUMBER: P433337

CATALOG NUMBER: LAMR4B108R109727DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	67.4
10°-20°	142.2	21.5
20°-30°	41.5	6.3
30°-40°	15.8	2.4
40°-50°	7.5	1.1
50°-60°	4.5	0.7
60°-70°	2.3	0.4
70°-80°	1.9	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°	630.3	95.1
0°-40°	646.1	97.5
0°-60°	658.2	99.4
0°-90°	662.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	662.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9711	
5°	6498	447
15°	416	142
25°	83	42
35°	24	16
45°	8	8
55°	4	5
65°	2	2
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P433337

CATALOG NUMBER: LAMR4B108R109727DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	9711.1
1°	9617.1
2°	9228.6
3°	8487.9
4°	7572.0
5°	6498.2
6°	5311.3
7°	4216.2
8°	3148.8
9°	2294.9
10°	1639.5
11°	1161.3
12°	860.3
13°	653.2
14°	518.7
15°	416.3
17.5°	271.1
20°	181.5
22.5°	121.7
25°	83.3
27.5°	57.6
30°	42.7
32.5°	29.9
35°	23.5
37.5°	19.2
40°	17.1
42.5°	12.8
45°	8.5
47.5°	6.4
50°	6.4
52.5°	6.4
55°	4.3
57.5°	4.3
60°	4.3
62.5°	2.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	2.1
75°	2.1
77.5°	2.1
80°	0.0
82.5°	0.0



TEST NUMBER: P433337

CATALOG NUMBER: LAMR4B108R109727DE010x1MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)