

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: P430943

Luminaire Tested: **LAMR4B112R209024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R209024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1048.9 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

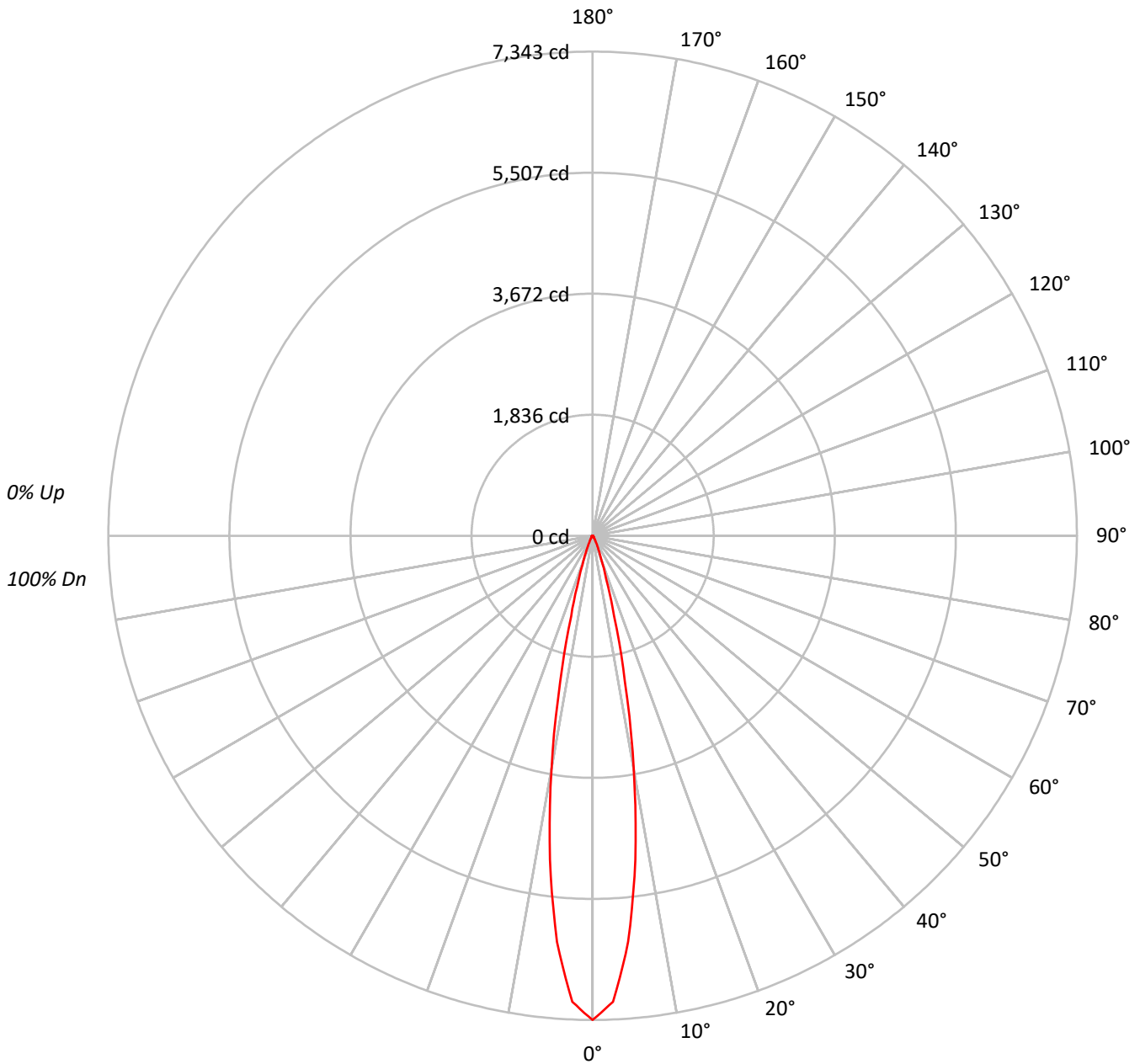
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P430943

CATALOG NUMBER: LAMR4B112R209024DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P430943

CATALOG NUMBER: LAMR4B112R209024DE010x1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97				97															
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95				94																
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93				91																
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90				89																
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88				87																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86				85																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84				83																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82				81																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81				80																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79				78																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3622935
5°	3062317
10°	1798707
15°	644048
20°	213115
25°	84815
30°	40563
35°	23189
40°	16746
45°	14094
50°	16272
55°	13247
60°	6611
65°	5604
70°	6924
75°	7244
80°	5398
85°	5661



TEST NUMBER: P430943

CATALOG NUMBER: LAMR4B112R209024DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	48.3
10°-20°	394.8	37.6
20°-30°	81.9	7.8
30°-40°	25.8	2.5
40°-50°	16.6	1.6
50°-60°	13.4	1.3
60°-70°	5.2	0.5
70°-80°	3.9	0.4
80°-90°	0.8	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°	983.1	93.7
0°-40°	1008.9	96.2
0°-60°	1038.9	99.1
0°-90°	1048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7343	
5°	6183	506
15°	1261	395
25°	156	82
35°	38	26
45°	20	17
55°	15	13
65°	5	5
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P430943

CATALOG NUMBER: LAMR4B112R209024DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	7343.1
2.5°	7073.8
5°	6183.2
7.5°	4954.1
10°	3590.3
12.5°	2265.0
15°	1260.9
17.5°	693.4
20°	405.9
22.5°	248.1
25°	155.8
27.5°	102.9
30°	71.2
32.5°	50.0
35°	38.5
37.5°	30.8
40°	26.0
42.5°	22.1
45°	20.2
47.5°	20.2
50°	21.2
52.5°	20.2
55°	15.4
57.5°	10.6
60°	6.7
62.5°	5.8
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	3.8
77.5°	2.9
80°	1.9
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)