

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: P430963

Luminaire Tested: **LAMR4B112R209730DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430963
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: LAMR4B112R209730DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1137.5 lumens
Efficiency: N/A
Efficacy: 79.5 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

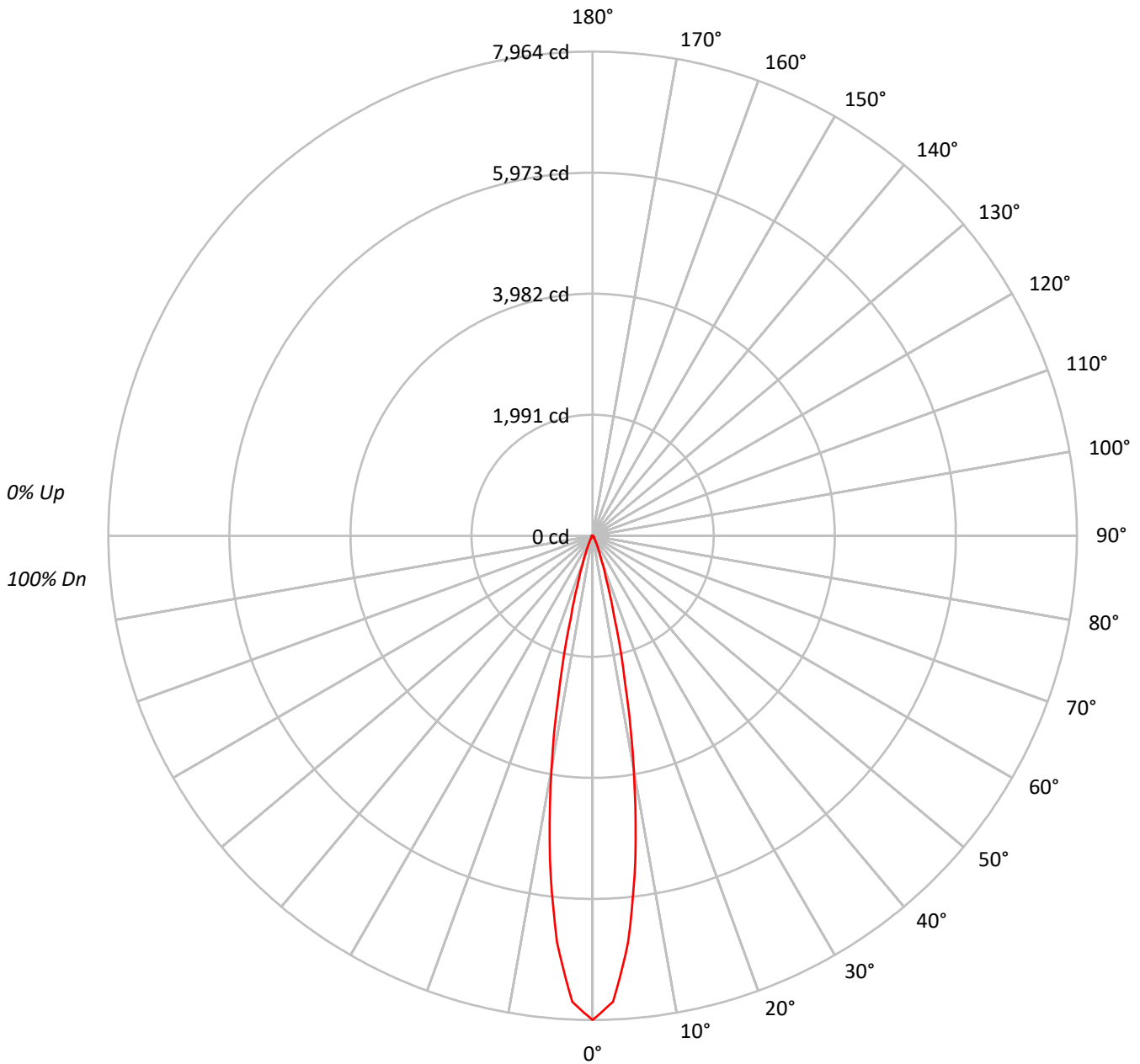
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P430963

CATALOG NUMBER: LAMR4B112R209730DE010x1MB

Luminous Intensity Polar Plot





TEST NUMBER: P430963

CATALOG NUMBER: LAMR4B112R209730DE010x1MB

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	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	100	100	100	100	100	100	100	100	100	100	100													
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97													
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94													
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91												
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89													
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87													
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85													
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83													
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81													
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80													
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3929472
5°	3321440
10°	1950908
15°	698548
20°	231124
25°	92001
30°	43981
35°	25116
40°	18163
45°	15281
50°	17577
55°	14365
60°	7203
65°	6071
70°	7501
75°	8006
80°	5967
85°	5661



TEST NUMBER: P430963

CATALOG NUMBER: LAMR4B112R209730DE010x1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.1	48.3
10°-20°	428.2	37.6
20°-30°	88.9	7.8
30°-40°	28.0	2.5
40°-50°	18.0	1.6
50°-60°	14.5	1.3
60°-70°	5.7	0.5
70°-80°	4.3	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°	1066.3	93.7
0°-40°	1094.3	96.2
0°-60°	1126.8	99.1
0°-90°	1137.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7964	
5°	6706	549
15°	1368	428
25°	169	89
35°	42	28
45°	22	18
55°	17	14
65°	5	6
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P430963

CATALOG NUMBER: LAMR4B112R209730DE010x1MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	7964.4
2.5°	7672.3
5°	6706.4
7.5°	5373.2
10°	3894.1
12.5°	2456.6
15°	1367.6
17.5°	752.1
20°	440.2
22.5°	269.1
25°	169.0
27.5°	111.6
30°	77.2
32.5°	54.2
35°	41.7
37.5°	33.4
40°	28.2
42.5°	24.0
45°	21.9
47.5°	21.9
50°	22.9
52.5°	21.9
55°	16.7
57.5°	11.5
60°	7.3
62.5°	6.3
65°	5.2
67.5°	5.2
70°	5.2
72.5°	5.2
75°	4.2
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)