

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: P431303

Luminaire Tested: **LAMR4B212R359024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R359024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.9 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

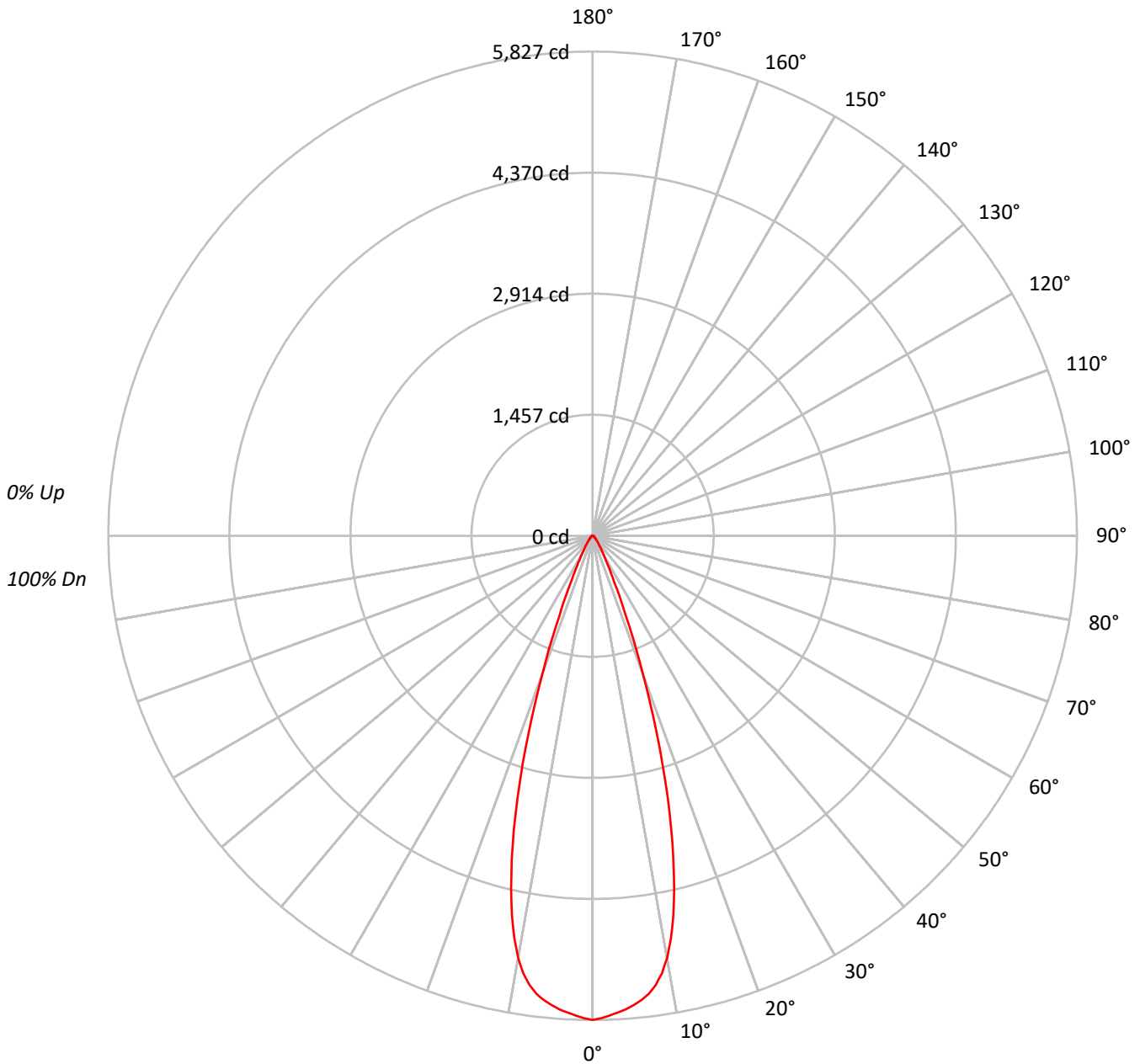
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431303

CATALOG NUMBER: LAMR4B212R359024DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431303

CATALOG NUMBER: LAMR4B212R359024DE010x1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75	75	75	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2874824
5°	2808544
10°	2584561
15°	1868040
20°	922817
25°	338552
30°	152624
35°	83118
40°	51525
45°	34887
50°	26097
55°	22365
60°	19735
65°	18679
70°	17311
75°	15250
80°	17048
85°	11322



TEST NUMBER: P431303

CATALOG NUMBER: LAMR4B212R359024DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	26.2
10°-20°	963.0	47.9
20°-30°	335.3	16.7
30°-40°	92.9	4.6
40°-50°	40.4	2.0
50°-60°	23.4	1.2
60°-70°	15.8	0.8
70°-80°	8.7	0.4
80°-90°	2.4	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°	1825.2	90.9
0°-40°	1918.1	95.5
0°-60°	1982.0	98.7
0°-90°	2008.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5827	
5°	5671	527
15°	3657	963
25°	622	335
35°	138	93
45°	50	40
55°	26	23
65°	16	16
75°	8	9
85°	2	2
90°	0	



TEST NUMBER: P431303

CATALOG NUMBER: LAMR4B212R359024DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	5826.8
1°	5806.8
2°	5776.8
3°	5746.8
4°	5712.8
5°	5670.8
6°	5618.8
7°	5554.9
8°	5456.9
9°	5330.9
10°	5158.9
11°	4939.0
12°	4673.0
13°	4361.1
14°	4019.2
15°	3657.2
16°	3271.3
17°	2883.4
18°	2493.5
19°	2117.6
20°	1757.6
22.5°	1047.8
25°	621.9
26°	517.9
27°	431.9
28°	365.9
29°	311.9
30°	267.9
32.5°	190.0
35°	138.0
37.5°	104.0
40°	80.0
42.5°	62.0
45°	50.0
47.5°	42.0
50°	34.0
52.5°	30.0
55°	26.0
57.5°	22.0
60°	20.0
62.5°	18.0
65°	16.0
67.5°	14.0



TEST NUMBER: P431303

CATALOG NUMBER: LAMR4B212R359024DE010x1MMS

CANDELA DISTRIBUTION (continued):

	0°
75°	8.0
77.5°	6.0
80°	6.0
82.5°	4.0
85°	2.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







70°		12.0
72.5°		10.0



(END OF REPORT)