

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: P433448

Luminaire Tested: **LAMR4B108R359035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433448
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: LAMR4B108R359035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 814.1 lumens
Efficiency: N/A
Efficacy: 71.4 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

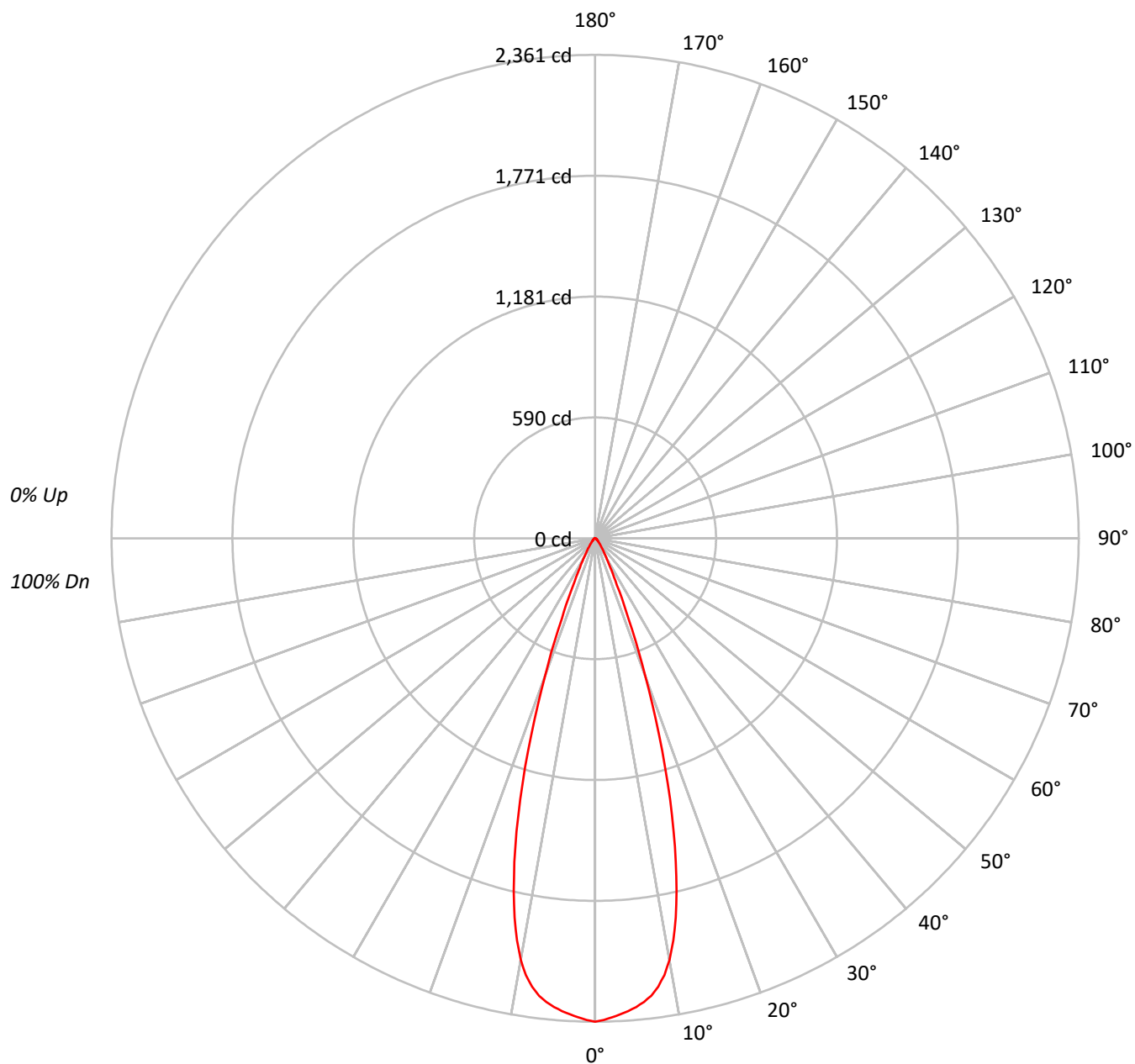
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433448

CATALOG NUMBER: LAMR4B108R359035DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433448

CATALOG NUMBER: LAMR4B108R359035DE010x1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1164968
5°	1138117
10°	1047321
15°	756982
20°	373936
25°	137185
30°	61870
35°	33669
40°	20868
45°	14164
50°	10592
55°	9032
60°	7993
65°	7588
70°	7068
75°	6100
80°	6819
85°	4529



TEST NUMBER: P433448

CATALOG NUMBER: LAMR4B108R359035DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	26.2
10°-20°	390.2	47.9
20°-30°	135.9	16.7
30°-40°	37.7	4.6
40°-50°	16.4	2.0
50°-60°	9.5	1.2
60°-70°	6.4	0.8
70°-80°	3.5	0.4
80°-90°	1.0	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°	739.6	90.9
0°-40°	777.3	95.5
0°-60°	803.1	98.7
0°-90°	814.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	814.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2361	
5°	2298	214
15°	1482	390
25°	252	136
35°	56	38
45°	20	16
55°	10	9
65°	6	6
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P433448

CATALOG NUMBER: LAMR4B108R359035DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2361.2
1°	2353.1
2°	2340.9
3°	2328.8
4°	2315.0
5°	2298.0
6°	2276.9
7°	2251.0
8°	2211.3
9°	2160.2
10°	2090.5
11°	2001.4
12°	1893.6
13°	1767.2
14°	1628.7
15°	1482.0
16°	1325.6
17°	1168.4
18°	1010.4
19°	858.1
20°	712.2
22.5°	424.6
25°	252.0
26°	209.9
27°	175.0
28°	148.3
29°	126.4
30°	108.6
32.5°	77.0
35°	55.9
37.5°	42.1
40°	32.4
42.5°	25.1
45°	20.3
47.5°	17.0
50°	13.8
52.5°	12.2
55°	10.5
57.5°	8.9
60°	8.1
62.5°	7.3
65°	6.5
67.5°	5.7



TEST NUMBER: P433448

CATALOG NUMBER: LAMR4B108R359035DE010x1MMS

CANDELA DISTRIBUTION (continued):

	0°
75°	3.2
77.5°	2.4
80°	2.4
82.5°	1.6
85°	0.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







70°	4.9
72.5°	4.1



(END OF REPORT)