

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: P433582

Luminaire Tested: **LAMR4B108R659024DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R659024DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 674.6 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

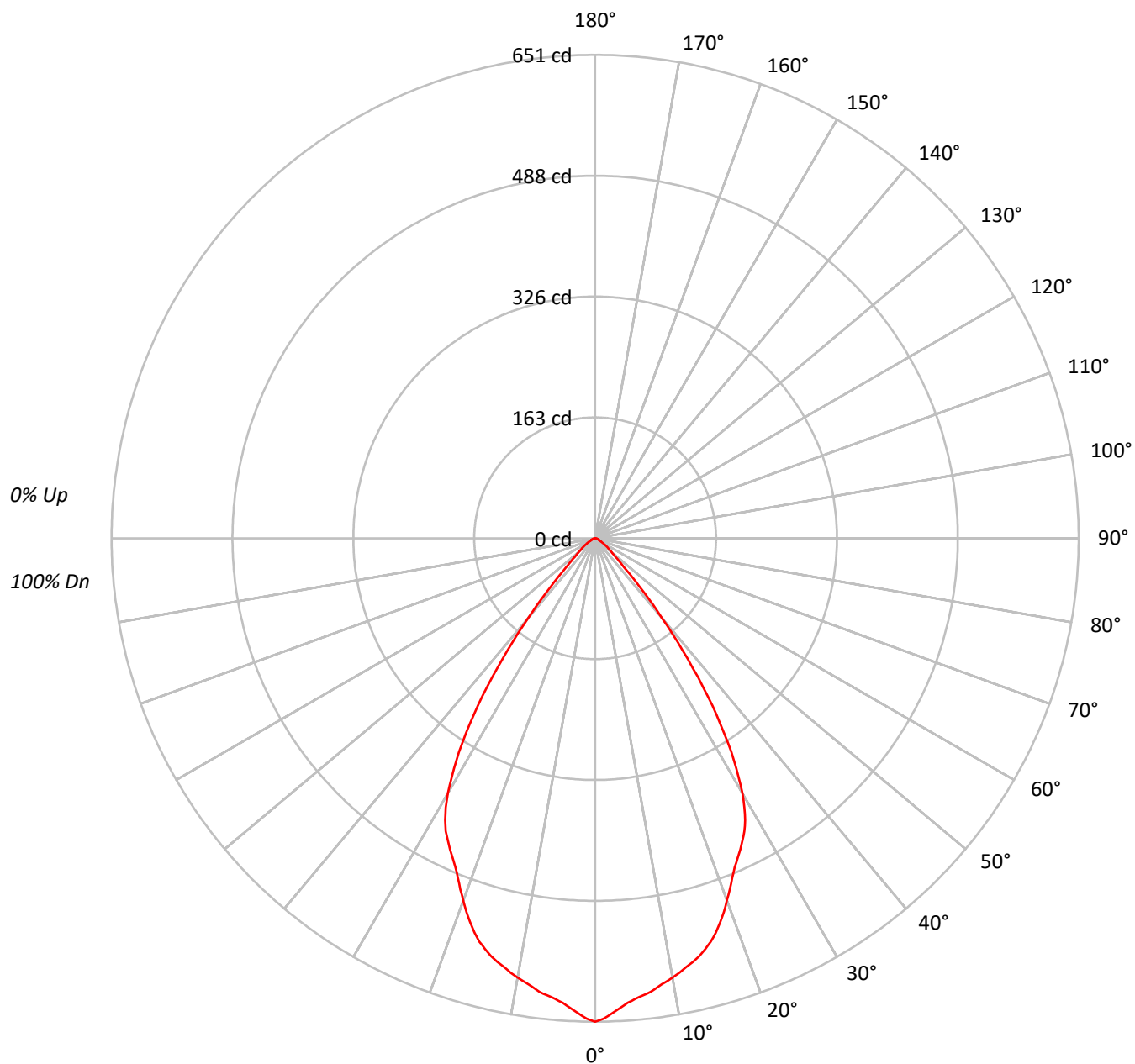
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433582

CATALOG NUMBER: LAMR4B108R659024DE010x1MB

Luminous Intensity Polar Plot





TEST NUMBER: P433582

CATALOG NUMBER: LAMR4B108R659024DE010x1MB

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	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	81	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321239
5°	308252
10°	300995
15°	292577
20°	272445
25°	251669
30°	225888
35°	165995
40°	89653
45°	38585
50°	21492
55°	15053
60°	9670
65°	7355
70°	6059
75°	5338
80°	5967
85°	3963



TEST NUMBER: P433582

CATALOG NUMBER: LAMR4B108R659024DE010x1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	8.7
10°-20°	159.8	23.7
20°-30°	211.9	31.4
30°-40°	167.8	24.9
40°-50°	50.0	7.4
50°-60°	16.0	2.4
60°-70°	6.4	0.9
70°-80°	3.0	0.5
80°-90°	0.9	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°	430.5	63.8
0°-40°	598.3	88.7
0°-60°	664.3	98.5
0°-90°	674.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	651	
5°	622	59
15°	573	160
25°	462	212
35°	276	168
45°	55	50
55°	18	16
65°	6	6
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P433582

CATALOG NUMBER: LAMR4B108R659024DE010x1MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	651.1
1°	646.9
2°	640.6
3°	633.6
4°	627.3
5°	622.4
6°	618.9
7°	615.5
8°	609.9
9°	605.0
10°	600.8
11°	595.9
12°	590.3
13°	585.4
14°	579.8
15°	572.8
16°	565.1
17°	555.3
18°	544.1
19°	532.2
20°	518.9
21°	506.3
22°	493.1
23°	481.2
24°	471.4
25°	462.3
26°	452.5
27°	442.7
28°	430.1
29°	414.7
30°	396.5
32.5°	341.3
35°	275.6
37.5°	204.2
40°	139.2
42.5°	88.1
45°	55.3
47.5°	37.1
50°	28.0
52.5°	22.4
55°	17.5
57.5°	13.3
60°	9.8



TEST NUMBER: P433582

CATALOG NUMBER: LAMR4B108R659024DE010x1MB

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.9
70°	4.2
72.5°	3.5
75°	2.8
77.5°	2.1
80°	2.1
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	7.7
65°	6.3



(END OF REPORT)