

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: P433601

Luminaire Tested: **LAMR4B108R659727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433601
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: LAMR4B108R659727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.7 lumens
Efficiency: N/A
Efficacy: 57.3 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

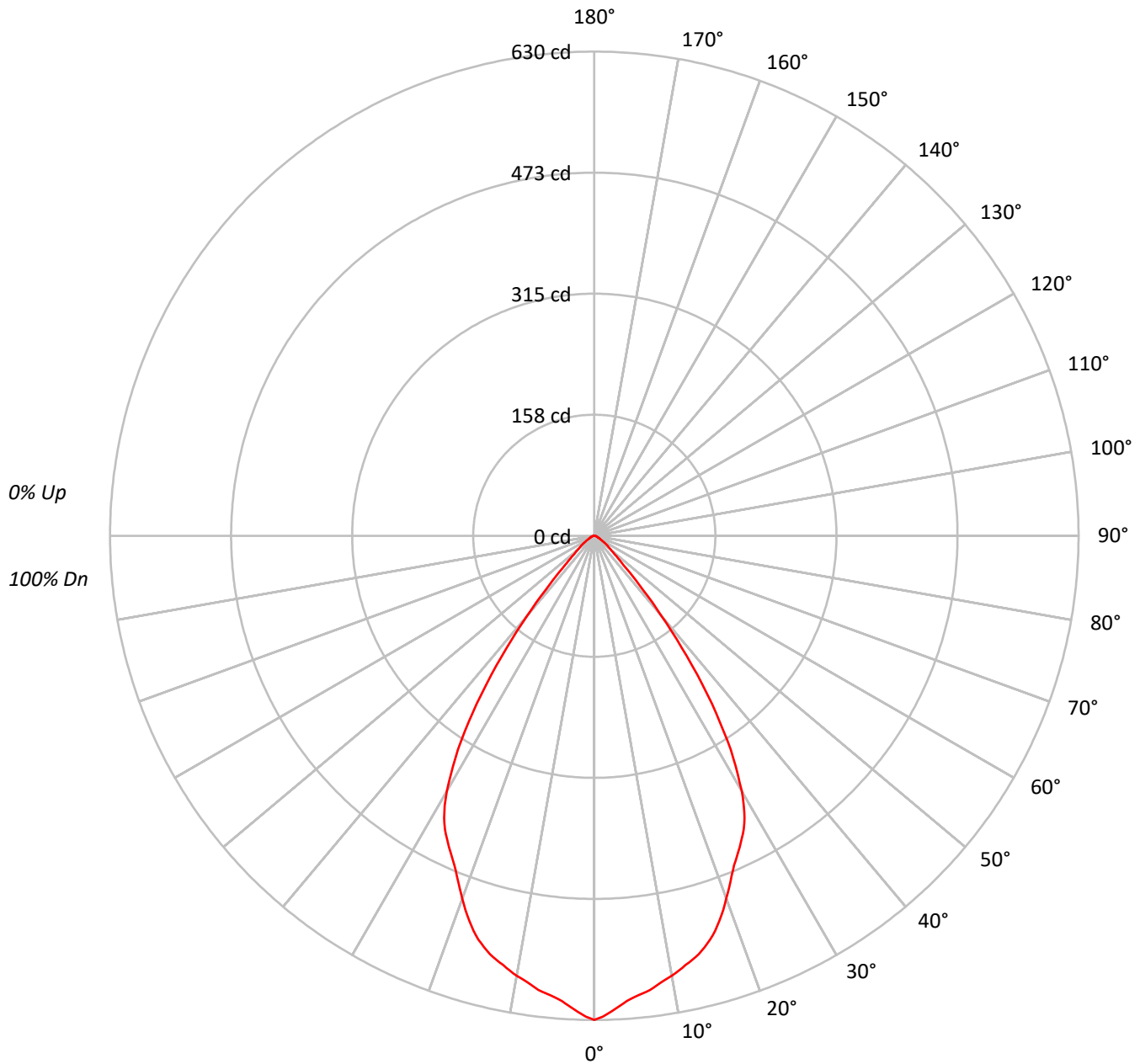
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433601

CATALOG NUMBER: LAMR4B108R659727DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433601

CATALOG NUMBER: LAMR4B108R659727DE010x1MMS

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67		
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50		
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	310829
5°	298298
10°	291226
15°	283077
20°	263624
25°	243503
30°	218596
35°	160575
40°	86755
45°	37329
50°	20801
55°	14537
60°	9374
65°	7121
70°	5914
75°	5147
80°	5683
85°	3963



TEST NUMBER: P433601

CATALOG NUMBER: LAMR4B108R659727DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	8.7
10°-20°	154.6	23.7
20°-30°	205.0	31.4
30°-40°	162.3	24.9
40°-50°	48.4	7.4
50°-60°	15.5	2.4
60°-70°	6.2	0.9
70°-80°	2.9	0.5
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°	416.6	63.8
0°-40°	578.9	88.7
0°-60°	642.8	98.5
0°-90°	652.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	630	
5°	602	57
15°	554	155
25°	447	205
35°	267	162
45°	54	48
55°	17	16
65°	6	6
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P433601

CATALOG NUMBER: LAMR4B108R659727DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	630.0
1°	625.9
2°	619.9
3°	613.1
4°	607.0
5°	602.3
6°	598.9
7°	595.5
8°	590.1
9°	585.3
10°	581.3
11°	576.5
12°	571.1
13°	566.4
14°	561.0
15°	554.2
16°	546.8
17°	537.3
18°	526.5
19°	515.0
20°	502.1
21°	489.9
22°	477.1
23°	465.6
24°	456.1
25°	447.3
26°	437.8
27°	428.4
28°	416.2
29°	401.3
30°	383.7
32.5°	330.2
35°	266.6
37.5°	197.6
40°	134.7
42.5°	85.3
45°	53.5
47.5°	35.9
50°	27.1
52.5°	21.7
55°	16.9
57.5°	12.9
60°	9.5



TEST NUMBER: P433601

CATALOG NUMBER: LAMR4B108R659727DE010x1MMS

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.7
70°	4.1
72.5°	3.4
75°	2.7
77.5°	2.0
80°	2.0
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	7.4
65°	6.1



(END OF REPORT)