

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: P433431

Luminaire Tested: **LAMR4B108R309050DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R309050DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.6 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

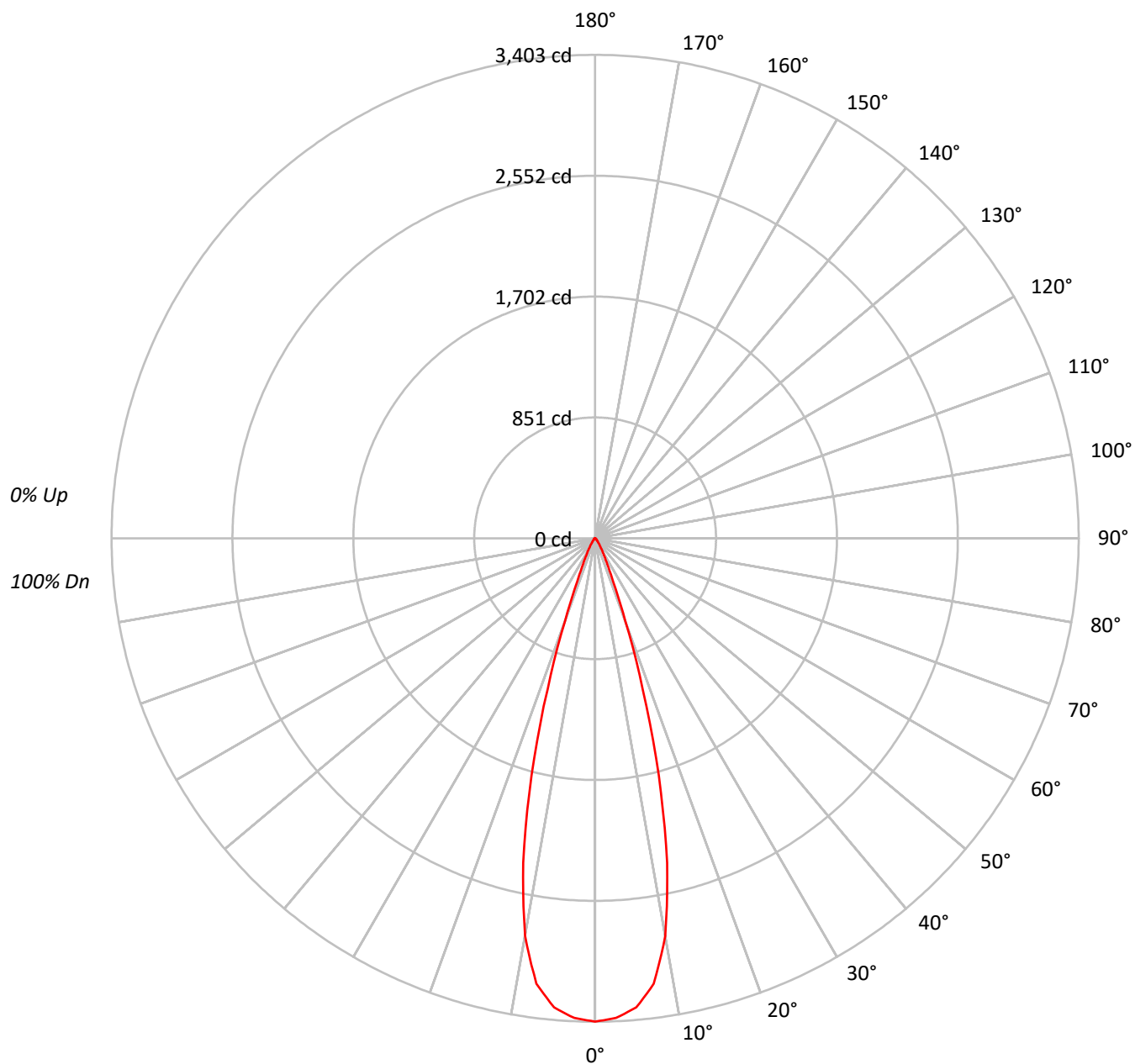
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433431

CATALOG NUMBER: LAMR4B108R309050DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P433431

CATALOG NUMBER: LAMR4B108R309050DE010x1MW

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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93		
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87		
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1678773
5°	1642098
10°	1423816
15°	882482
20°	323427
25°	108115
30°	53097
35°	26441
40°	16424
45°	10396
50°	7445
55°	6021
60°	5230
65°	4086
70°	5049
75°	4956
80°	5114
85°	5095



TEST NUMBER: P433431

CATALOG NUMBER: LAMR4B108R309050DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	32.6
10°-20°	456.2	49.2
20°-30°	111.2	12.0
30°-40°	30.5	3.3
40°-50°	12.3	1.3
50°-60°	6.6	0.7
60°-70°	3.9	0.4
70°-80°	3.0	0.3
80°-90°	0.7	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°	869.6	93.9
0°-40°	900.1	97.1
0°-60°	918.9	99.2
0°-90°	926.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3403	
5°	3316	302
15°	1728	456
25°	199	111
35°	44	30
45°	15	12
55°	7	7
65°	4	4
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P433431

CATALOG NUMBER: LAMR4B108R309050DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3402.6
2.5°	3379.8
5°	3315.6
7.5°	3162.7
10°	2842.0
12.5°	2339.3
15°	1727.7
17.5°	1113.4
20°	616.0
22.5°	328.7
25°	198.6
27.5°	134.5
30°	93.2
32.5°	63.3
35°	43.9
37.5°	32.5
40°	25.5
42.5°	19.3
45°	14.9
47.5°	12.3
50°	9.7
52.5°	8.8
55°	7.0
57.5°	6.2
60°	5.3
62.5°	4.4
65°	3.5
67.5°	3.5
70°	3.5
72.5°	3.5
75°	2.6
77.5°	2.6
80°	1.8
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)