

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: P433488

Luminaire Tested: **LAMR4B108R459024DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R459024DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.7 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

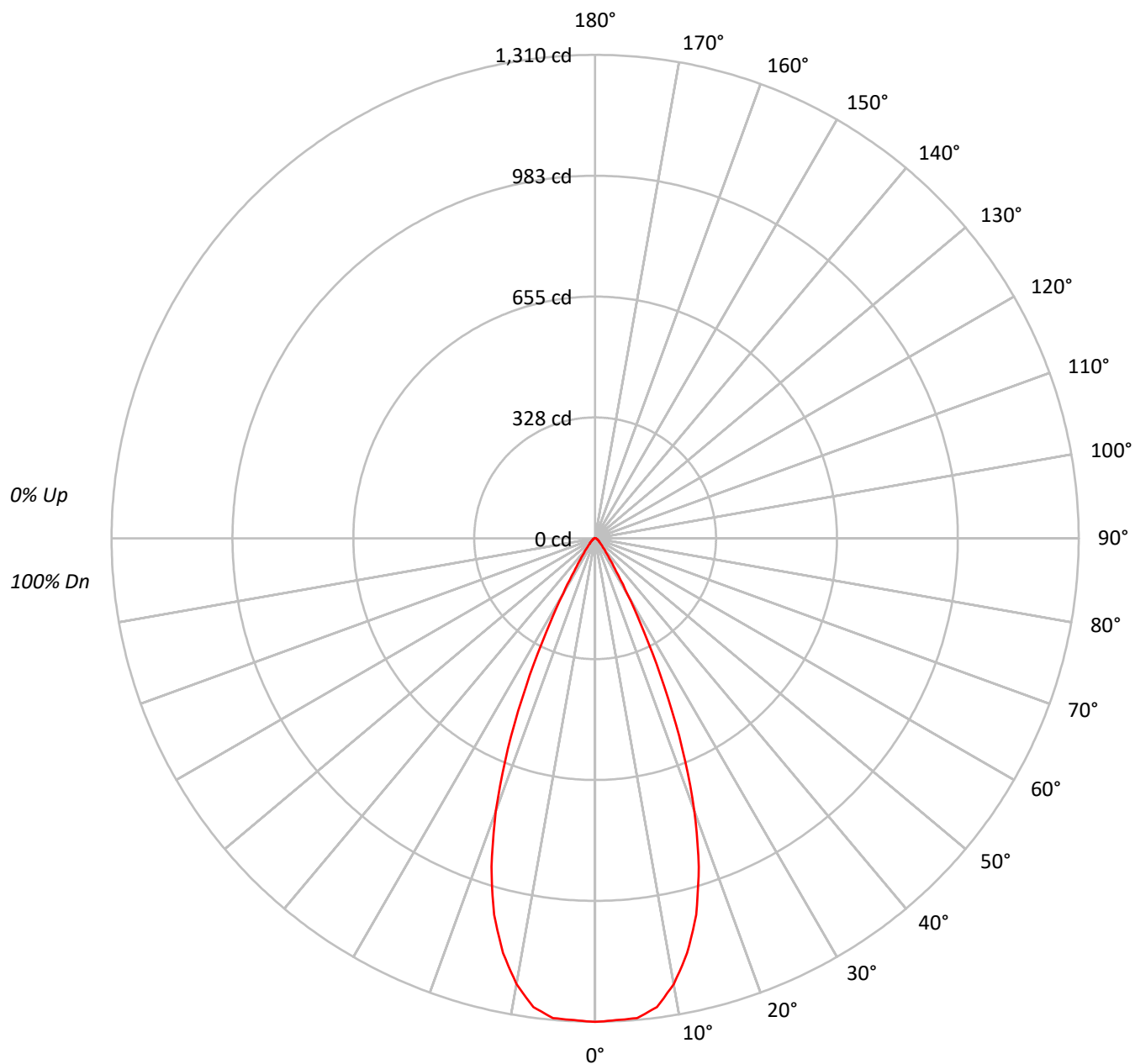
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433488

CATALOG NUMBER: LAMR4B108R459024DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P433488

CATALOG NUMBER: LAMR4B108R459024DE010x1MW

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	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	646574
5°	646369
10°	614365
15°	539643
20°	412842
25°	240999
30°	98616
35°	41740
40°	22735
45°	14653
50°	11437
55°	9892
60°	7993
65°	6304
70°	5914
75°	5147
80°	5683
85°	3963



TEST NUMBER: P433488

CATALOG NUMBER: LAMR4B108R459024DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	17.5
10°-20°	287.6	41.1
20°-30°	202.7	29.0
30°-40°	49.9	7.1
40°-50°	17.4	2.5
50°-60°	10.3	1.5
60°-70°	5.7	0.8
70°-80°	3.1	0.4
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°	612.4	87.5
0°-40°	662.3	94.7
0°-60°	690.0	98.6
0°-90°	699.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	699.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1310	
5°	1305	122
15°	1056	288
25°	443	203
35°	69	50
45°	21	17
55°	12	10
65°	5	6
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P433488

CATALOG NUMBER: LAMR4B108R459024DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1310.5
2.5°	1307.1
5°	1305.1
7.5°	1281.3
10°	1226.3
12.5°	1151.6
15°	1056.5
17.5°	933.6
20°	786.3
22.5°	617.2
25°	442.7
27.5°	285.9
30°	173.1
32.5°	105.2
35°	69.3
37.5°	48.9
40°	35.3
42.5°	27.2
45°	21.0
47.5°	17.7
50°	14.9
52.5°	12.9
55°	11.5
57.5°	10.2
60°	8.1
62.5°	6.8
65°	5.4
67.5°	4.8
70°	4.1
72.5°	3.4
75°	2.7
77.5°	2.7
80°	2.0
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)