

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: P431183

Luminaire Tested: **LAMR4B112R709024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R709024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1015.5 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

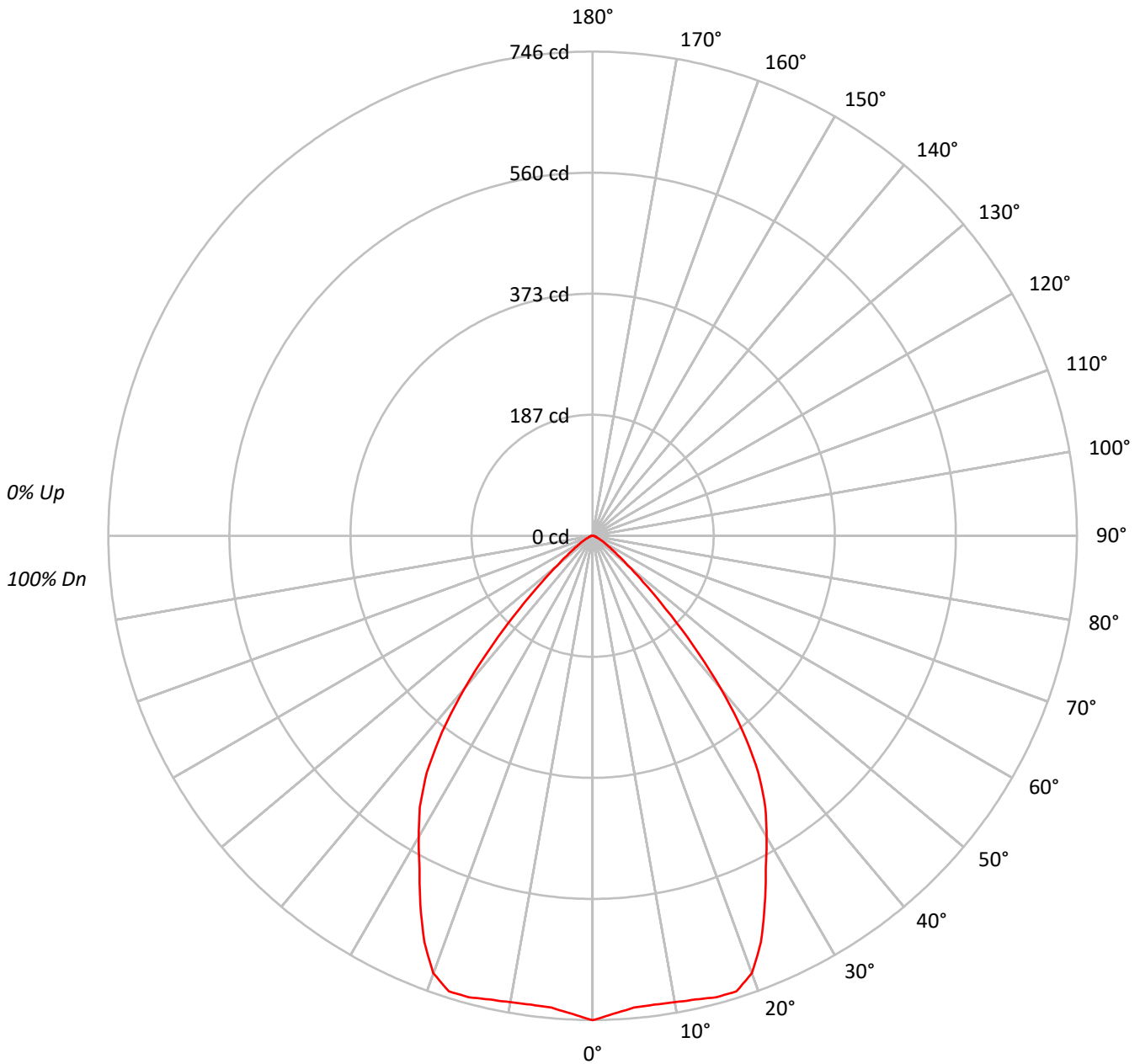
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431183

CATALOG NUMBER: LAMR4B112R709024DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431183

CATALOG NUMBER: LAMR4B112R709024DE010x1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368258
5°	361394
10°	365573
15°	375937
20°	376561
25°	341655
30°	305248
35°	268086
40°	197405
45°	110592
50°	54420
55°	30450
60°	18551
65°	12141
70°	9088
75°	8006
80°	5967
85°	5661



TEST NUMBER: P431183

CATALOG NUMBER: LAMR4B112R709024DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	6.9
10°-20°	207.4	20.4
20°-30°	287.8	28.3
30°-40°	270.8	26.7
40°-50°	129.3	12.7
50°-60°	34.2	3.4
60°-70°	10.8	1.1
70°-80°	4.4	0.4
80°-90°	1.1	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°	564.9	55.6
0°-40°	835.7	82.3
0°-60°	999.1	98.4
0°-90°	1015.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1015.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	746	
5°	730	70
15°	736	207
25°	628	288
35°	445	271
45°	158	129
55°	35	34
65°	10	11
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P431183

CATALOG NUMBER: LAMR4B112R709024DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	746.4
2.5°	737.0
5°	729.7
7.5°	728.7
10°	729.7
12.5°	731.8
15°	736.0
17.5°	736.0
20°	717.2
22.5°	677.6
25°	627.6
27.5°	577.5
30°	535.8
32.5°	495.2
35°	445.1
37.5°	380.5
40°	306.5
42.5°	228.3
45°	158.5
47.5°	105.3
50°	70.9
52.5°	49.0
55°	35.4
57.5°	25.0
60°	18.8
62.5°	13.6
65°	10.4
67.5°	7.3
70°	6.3
72.5°	5.2
75°	4.2
77.5°	3.1
80°	2.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)