

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: P431180

Luminaire Tested: **LAMR4B112R659730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431180
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: LAMR4B112R659730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

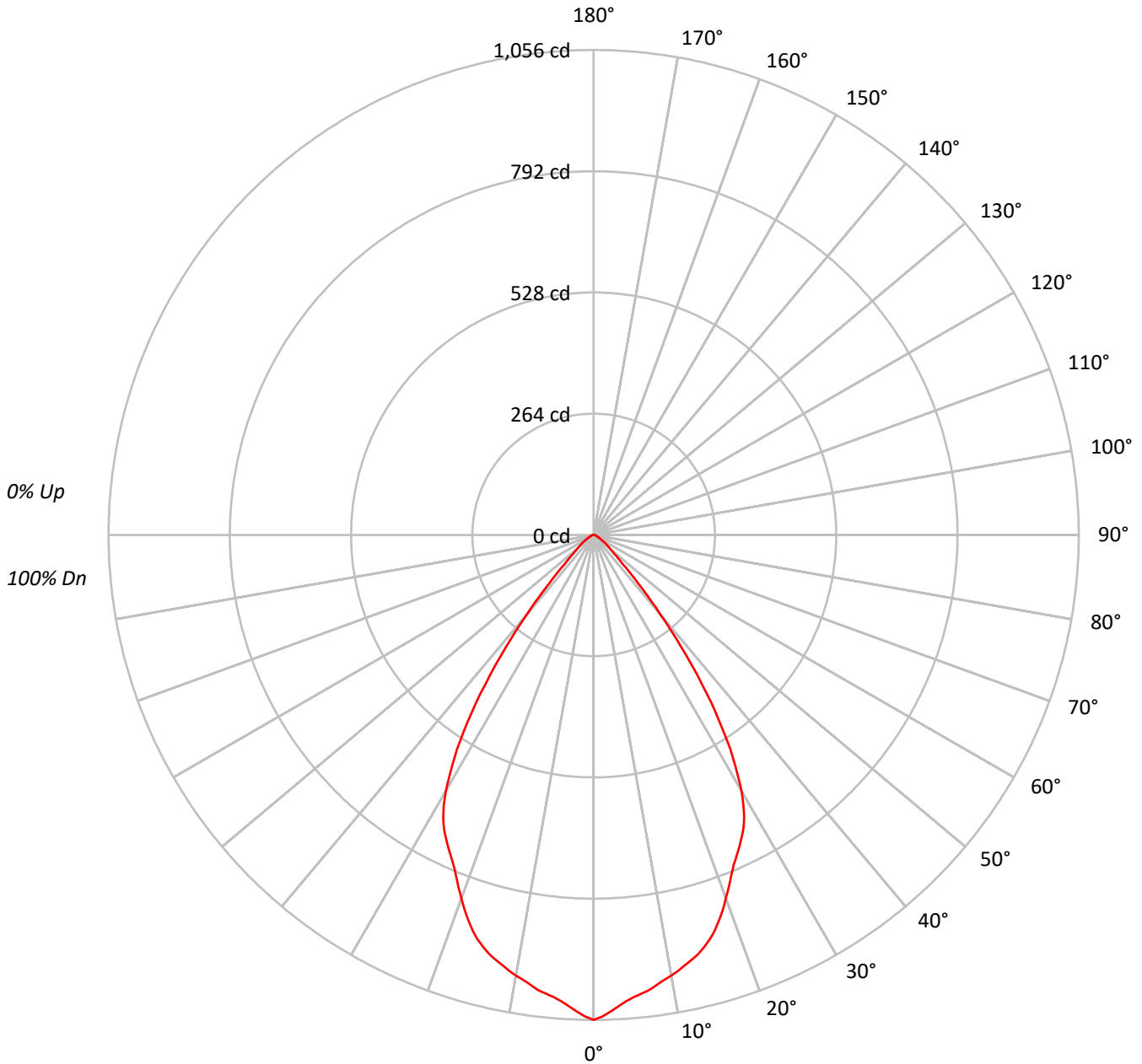
Lumens per Lamp: N/A
Luminaire Lumens: 1094.2 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P431180
CATALOG NUMBER: LAMR4B112R659730DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431180

CATALOG NUMBER: LAMR4B112R659730DE010x1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	521058
5°	500019
10°	488215
15°	474570
20°	441929
25°	408179
30°	366435
35°	269230
40°	145365
45°	62518
50°	34847
55°	24429
60°	15689
65°	11908
70°	9809
75°	8578
80°	9660
85°	6227



TEST NUMBER: P431180

CATALOG NUMBER: LAMR4B112R659730DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	8.7
10°-20°	259.2	23.7
20°-30°	343.7	31.4
30°-40°	272.1	24.9
40°-50°	81.0	7.4
50°-60°	26.0	2.4
60°-70°	10.4	0.9
70°-80°	4.9	0.5
80°-90°	1.4	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°	698.3	63.8
0°-40°	970.5	88.7
0°-60°	1077.5	98.5
0°-90°	1094.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1056	
5°	1010	95
15°	929	259
25°	750	344
35°	447	272
45°	90	81
55°	28	26
65°	10	10
75°	4	5
85°	1	1
90°	0	



TEST NUMBER: P431180

CATALOG NUMBER: LAMR4B112R659730DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1056.1
1°	1049.3
2°	1039.1
3°	1027.8
4°	1017.6
5°	1009.6
6°	1004.0
7°	998.3
8°	989.2
9°	981.3
10°	974.5
11°	966.5
12°	957.4
13°	949.5
14°	940.4
15°	929.1
16°	916.6
17°	900.7
18°	882.6
19°	863.3
20°	841.7
21°	821.3
22°	799.8
23°	780.5
24°	764.6
25°	749.8
26°	734.0
27°	718.1
28°	697.7
29°	672.7
30°	643.2
32.5°	553.6
35°	447.0
37.5°	331.2
40°	225.7
42.5°	142.9
45°	89.6
47.5°	60.1
50°	45.4
52.5°	36.3
55°	28.4
57.5°	21.6
60°	15.9



TEST NUMBER: P431180

CATALOG NUMBER: LAMR4B112R659730DE010x1MMS

CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.9
70°	6.8
72.5°	5.7
75°	4.5
77.5°	3.4
80°	3.4
82.5°	2.3
85°	1.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°		12.5
65°		10.2



(END OF REPORT)