

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: P431178

Luminaire Tested: **LAMR4B112R659727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431178
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: LAMR4B112R659727DE010x1MW
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: 1038.9 lumens
Efficiency: N/A
Efficacy: 72.6 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

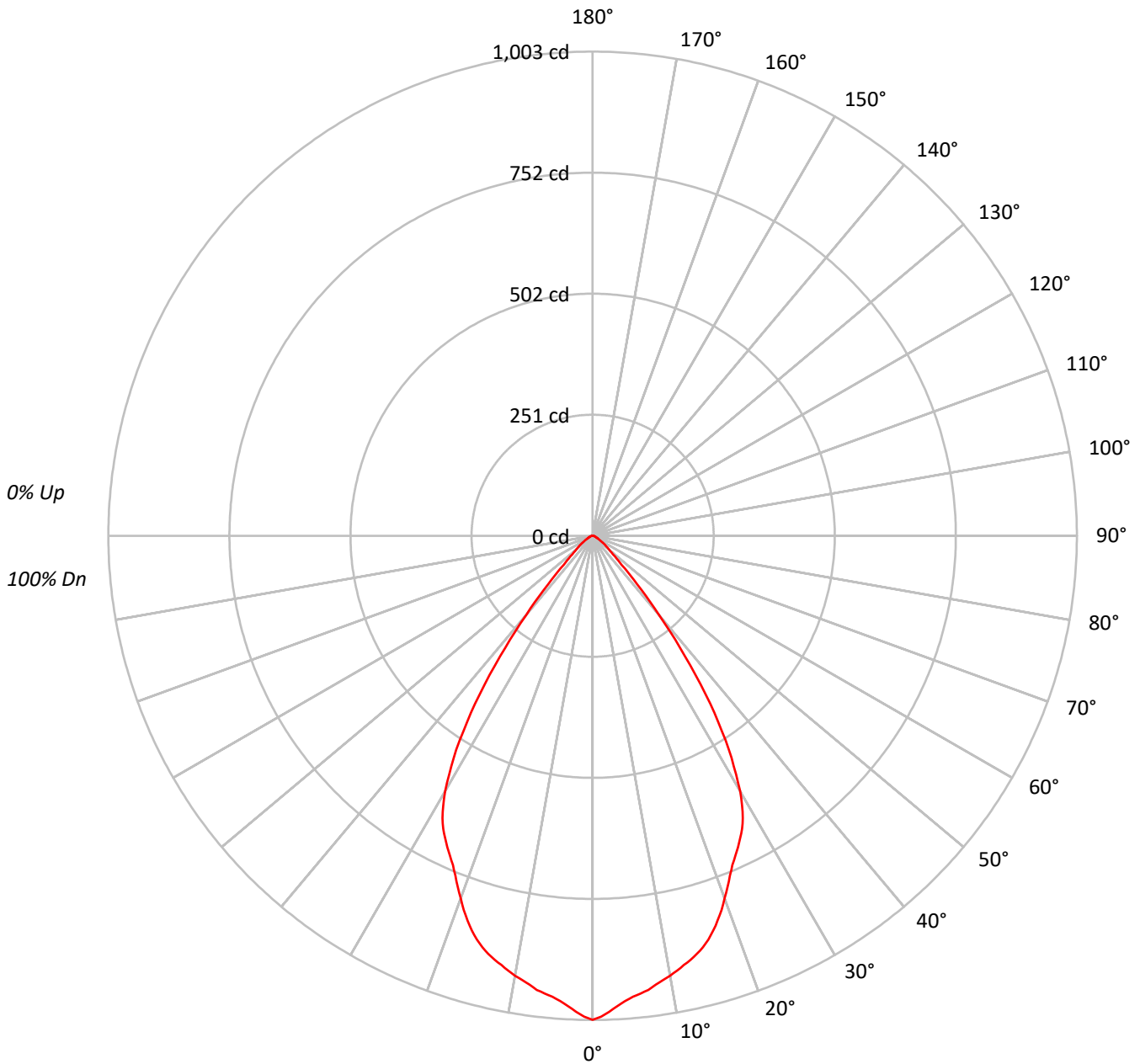
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431178

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Luminous Intensity Polar Plot





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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°	494761
5°	474760
10°	463517
15°	450563
20°	419615
25°	387601
30°	347919
35°	255618
40°	138022
45°	59378
50°	33082
55°	23139
60°	14900
65°	11324
70°	9377
75°	8197
80°	9092
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	8.7
10°-20°	246.1	23.7
20°-30°	326.3	31.4
30°-40°	258.4	24.9
40°-50°	77.0	7.4
50°-60°	24.7	2.4
60°-70°	9.8	0.9
70°-80°	4.7	0.5
80°-90°	1.3	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°	663.0	63.8
0°-40°	921.4	88.7
0°-60°	1023.0	98.5
0°-90°	1038.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1003	
5°	959	91
15°	882	246
25°	712	326
35°	424	258
45°	85	77
55°	27	25
65°	10	10
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1002.8
1°	996.3
2°	986.6
3°	975.8
4°	966.1
5°	958.6
6°	953.2
7°	947.8
8°	939.2
9°	931.7
10°	925.2
11°	917.7
12°	909.1
13°	901.5
14°	892.9
15°	882.1
16°	870.3
17°	855.2
18°	838.0
19°	819.7
20°	799.2
21°	779.8
22°	759.3
23°	741.0
24°	726.0
25°	712.0
26°	696.9
27°	681.8
28°	662.4
29°	638.7
30°	610.7
32.5°	525.6
35°	424.4
37.5°	314.5
40°	214.3
42.5°	135.7
45°	85.1
47.5°	57.1
50°	43.1
52.5°	34.5
55°	26.9
57.5°	20.5
60°	15.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.5
70°	6.5
72.5°	5.4
75°	4.3
77.5°	3.2
80°	3.2
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		11.8
65°		9.7



(END OF REPORT)