

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: P431162

Luminaire Tested: **LAMR4B112R659027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431162
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: LAMR4B112R659027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

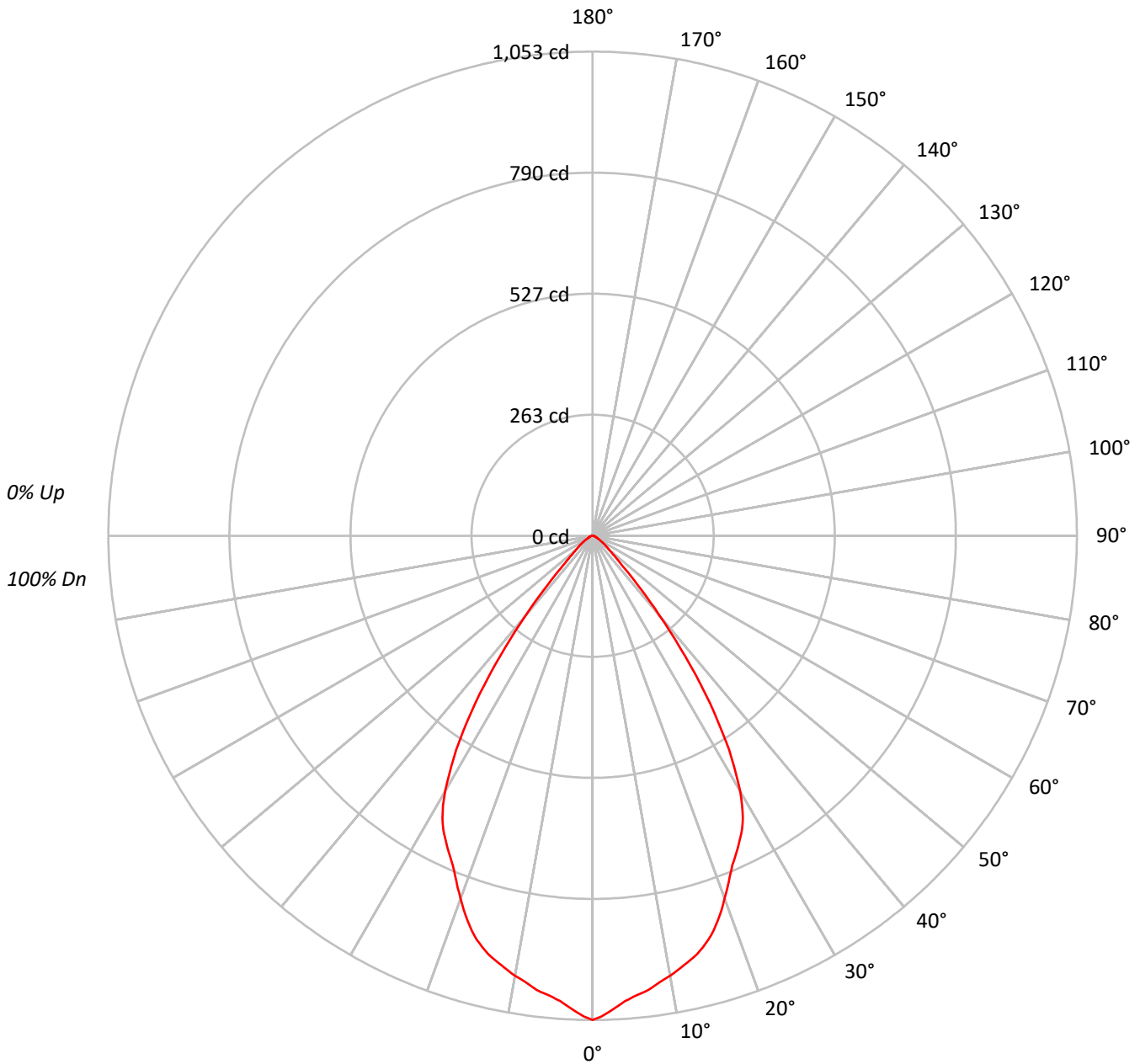
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	519578
5°	498582
10°	486763
15°	473190
20°	440669
25°	407036
30°	365409
35°	268447
40°	144978
45°	62378
50°	34694
55°	24343
60°	15591
65°	11908
70°	9809
75°	8578
80°	9660
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	8.7
10°-20°	258.5	23.7
20°-30°	342.7	31.4
30°-40°	271.4	24.9
40°-50°	80.8	7.4
50°-60°	25.9	2.4
60°-70°	10.3	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°	696.3	63.8
0°-40°	967.7	88.7
0°-60°	1074.4	98.5
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1053	
5°	1007	95
15°	926	258
25°	748	343
35°	446	271
45°	89	81
55°	28	26
65°	10	10
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1053.1
1°	1046.3
2°	1036.1
3°	1024.8
4°	1014.6
5°	1006.7
6°	1001.1
7°	995.4
8°	986.4
9°	978.4
10°	971.6
11°	963.7
12°	954.7
13°	946.8
14°	937.7
15°	926.4
16°	914.0
17°	898.1
18°	880.0
19°	860.8
20°	839.3
21°	818.9
22°	797.5
23°	778.2
24°	762.4
25°	747.7
26°	731.8
27°	716.0
28°	695.7
29°	670.8
30°	641.4
32.5°	552.0
35°	445.7
37.5°	330.3
40°	225.1
42.5°	142.5
45°	89.4
47.5°	60.0
50°	45.2
52.5°	36.2
55°	28.3
57.5°	21.5
60°	15.8



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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



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— 0°-180°







62.5°		12.4
65°		10.2



(END OF REPORT)