

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: P433631

Luminaire Tested: **LAMR4B208R109024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R109024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1376.1 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

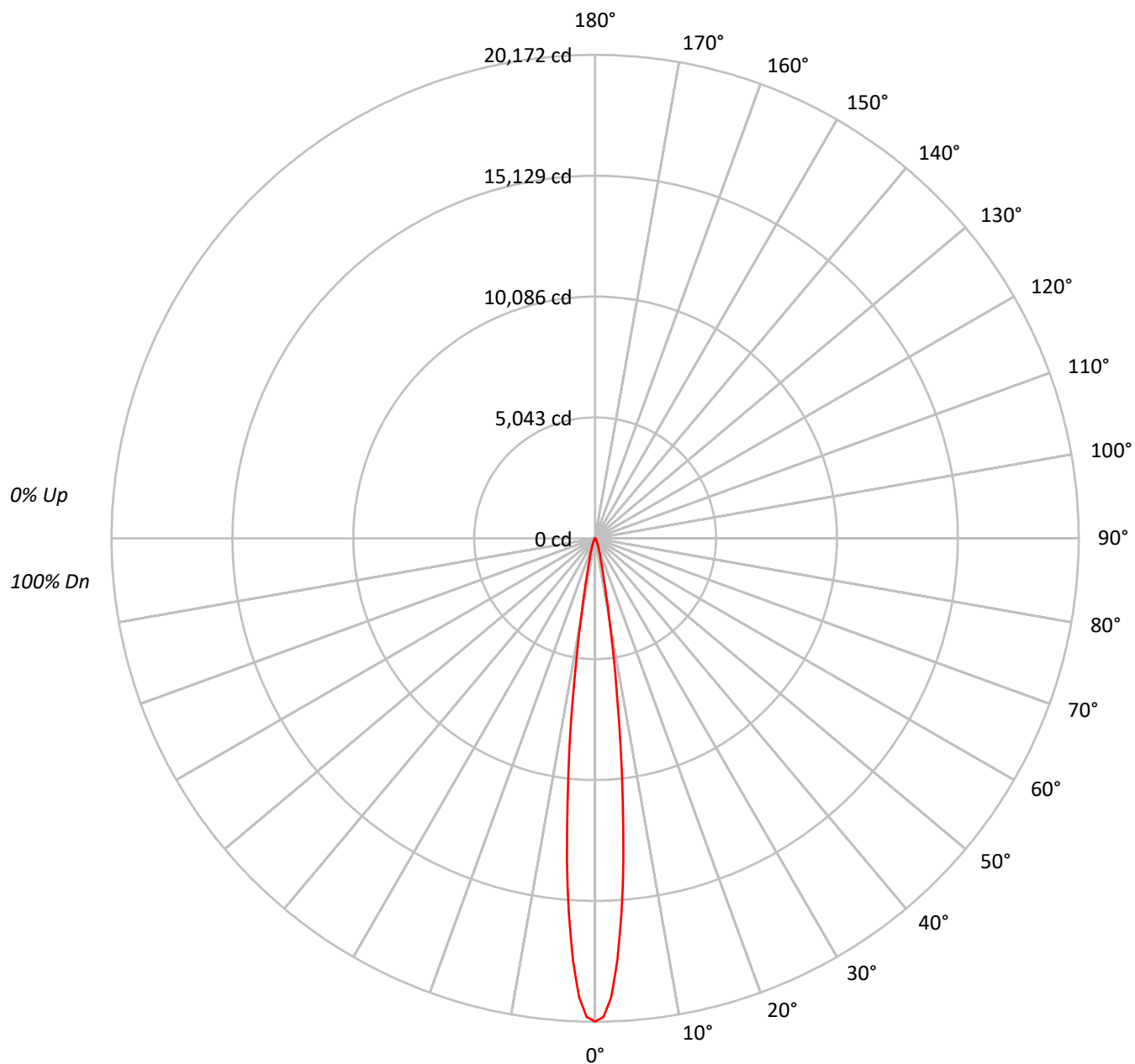
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9952650
5°	6685324
10°	1706224
15°	441675
20°	197889
25°	94124
30°	50533
35°	29392
40°	22864
45°	12350
50°	10209
55°	7656
60°	8782
65°	5137
70°	6347
75°	8388
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.7	67.4
10°-20°	295.4	21.5
20°-30°	86.3	6.3
30°-40°	32.8	2.4
40°-50°	15.6	1.1
50°-60°	9.4	0.7
60°-70°	4.9	0.4
70°-80°	4.1	0.3
80°-90°	0.0	0.0
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°	1309.3	95.1
0°-40°	1342.1	97.5
0°-60°	1367.2	99.3
0°-90°	1376.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20172	
5°	13498	928
15°	865	295
25°	173	86
35°	49	33
45°	18	16
55°	9	9
65°	4	5
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20172.4
1°	19977.3
2°	19170.2
3°	17631.5
4°	15729.1
5°	13498.5
6°	11033.0
7°	8758.1
8°	6540.9
9°	4767.1
10°	3405.7
11°	2412.4
12°	1787.1
13°	1356.9
14°	1077.6
15°	864.7
17.5°	563.2
20°	376.9
22.5°	252.8
25°	172.9
27.5°	119.7
30°	88.7
32.5°	62.1
35°	48.8
37.5°	39.9
40°	35.5
42.5°	26.6
45°	17.7
47.5°	13.3
50°	13.3
52.5°	13.3
55°	8.9
57.5°	8.9
60°	8.9
62.5°	4.4
65°	4.4
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
77.5°	4.4
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)