

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: P433959

Luminaire Tested: **LAMR4B308R109050DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433959
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: LAMR4B308R109050DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744.2 lumens
Efficiency: N/A
Efficacy: 86.0 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

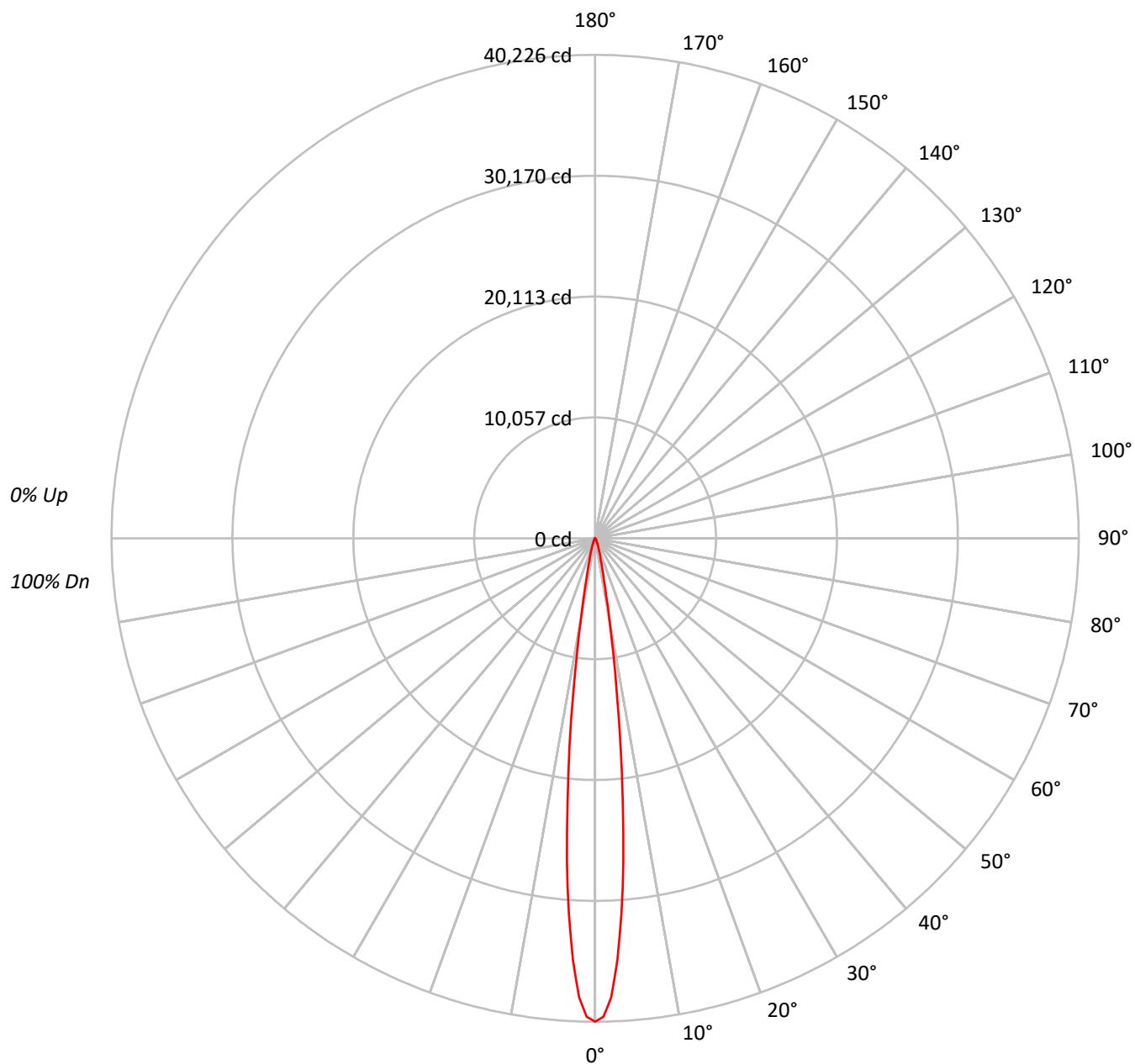
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19846883
5°	13331422
10°	3402428
15°	880796
20°	394623
25°	187758
30°	100781
35°	58604
40°	45535
45°	24700
50°	20340
55°	15225
60°	17466
65°	10273
70°	12694
75°	16775
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1849.9	67.4
10°-20°	589.0	21.5
20°-30°	172.0	6.3
30°-40°	65.5	2.4
40°-50°	31.2	1.1
50°-60°	18.7	0.7
60°-70°	9.8	0.4
70°-80°	8.1	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°	2610.9	95.1
0°-40°	2676.4	97.5
0°-60°	2726.3	99.3
0°-90°	2744.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	40226	
5°	26918	###
15°	1724	589
25°	345	172
35°	97	65
45°	35	31
55°	18	19
65°	9	10
75°	9	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	40226.4
1°	39837.3
2°	38227.9
3°	35159.4
4°	31365.8
5°	26917.8
6°	22001.1
7°	17464.7
8°	13043.3
9°	9506.1
10°	6791.4
11°	4810.5
12°	3563.7
13°	2705.9
14°	2148.8
15°	1724.4
17.5°	1123.0
20°	751.6
22.5°	504.0
25°	344.9
27.5°	238.8
30°	176.9
32.5°	123.8
35°	97.3
37.5°	79.6
40°	70.7
42.5°	53.1
45°	35.4
47.5°	26.5
50°	26.5
52.5°	26.5
55°	17.7
57.5°	17.7
60°	17.7
62.5°	8.8
65°	8.8
67.5°	8.8
70°	8.8
72.5°	8.8
75°	8.8
77.5°	8.8
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)