

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: P432131

Luminaire Tested: **LAM4B108R209040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R209040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 876.4 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

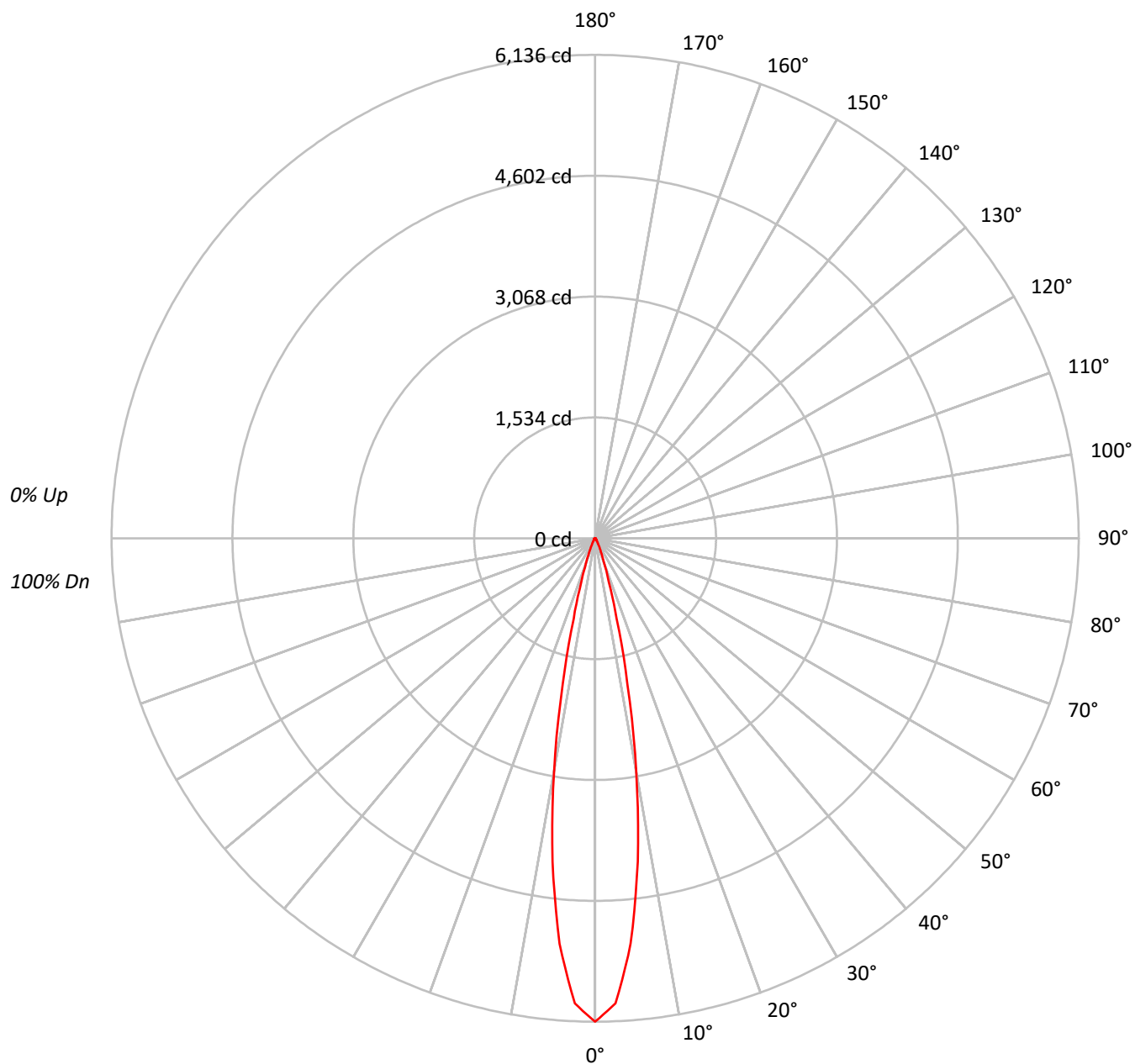
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97		
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94		
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91		
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83		
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81		
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80		
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3027229
5°	2558832
10°	1502972
15°	538162
20°	178042
25°	70879
30°	33897
35°	19334
40°	13976
45°	11792
50°	13586
55°	11096
60°	5526
65°	4670
70°	5770
75°	6100
80°	4546
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	48.3
10°-20°	329.9	37.6
20°-30°	68.5	7.8
30°-40°	21.6	2.5
40°-50°	13.9	1.6
50°-60°	11.2	1.3
60°-70°	4.4	0.5
70°-80°	3.3	0.4
80°-90°	0.7	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°	821.4	93.7
0°-40°	843.0	96.2
0°-60°	868.1	99.1
0°-90°	876.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6136	
5°	5167	423
15°	1054	330
25°	130	68
35°	32	22
45°	17	14
55°	13	11
65°	4	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6135.7
2.5°	5910.7
5°	5166.6
7.5°	4139.5
10°	3000.0
12.5°	1892.6
15°	1053.6
17.5°	579.4
20°	339.1
22.5°	207.3
25°	130.2
27.5°	86.0
30°	59.5
32.5°	41.8
35°	32.1
37.5°	25.7
40°	21.7
42.5°	18.5
45°	16.9
47.5°	16.9
50°	17.7
52.5°	16.9
55°	12.9
57.5°	8.8
60°	5.6
62.5°	4.8
65°	4.0
67.5°	4.0
70°	4.0
72.5°	4.0
75°	3.2
77.5°	2.4
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)