

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: P432087

Luminaire Tested: **LAM4B108R109050DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432087
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: LAM4B108R109050DE010x1MW
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: 897.3 lumens
Efficiency: N/A
Efficacy: 78.7 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

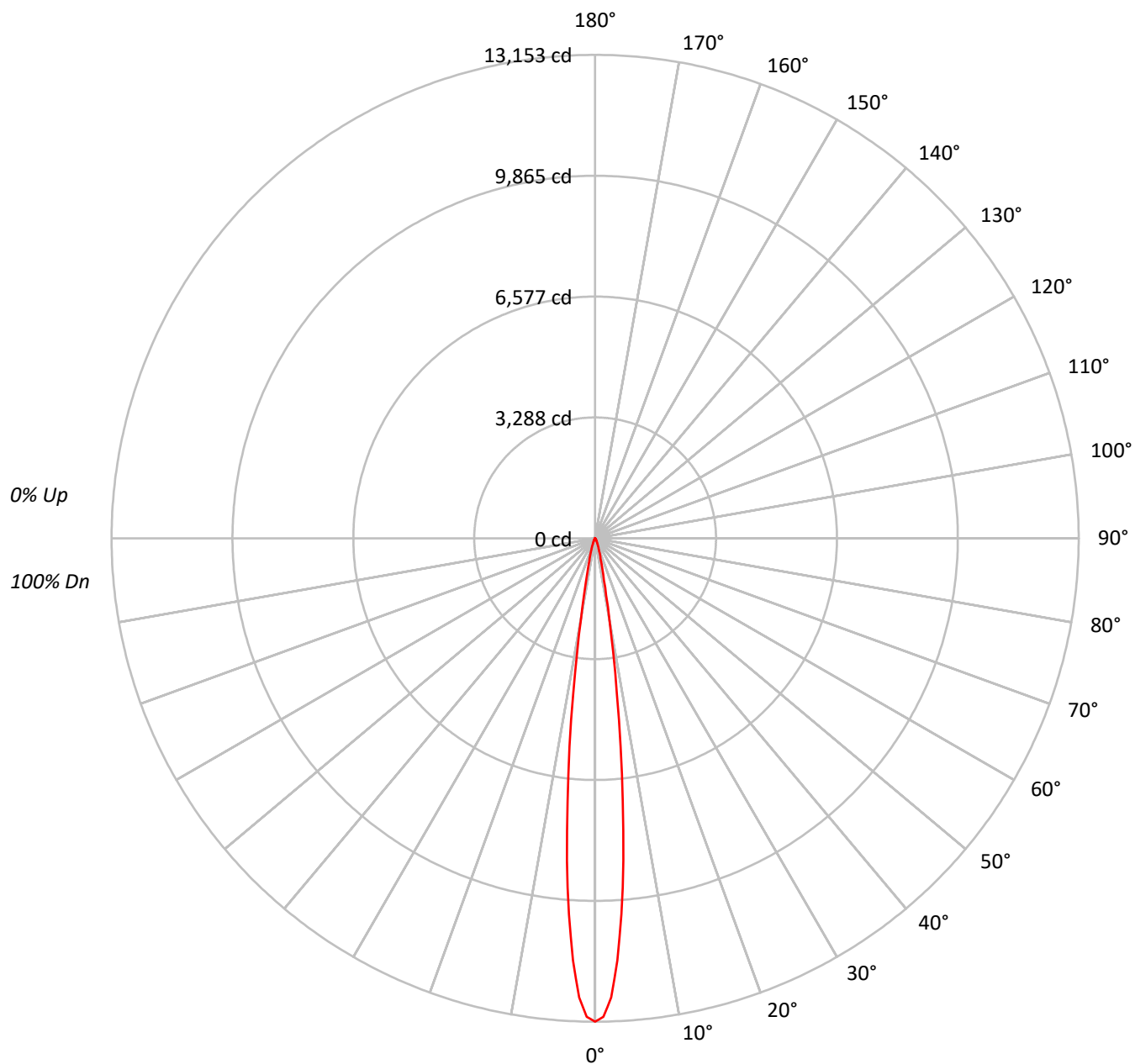
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94			
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93			
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91			
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90			
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89			
8	100	95	92	89	99	94	91	89	94	91	89	93	90	89	92	90	88	88			
9	98	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87			
10	97	92	89	87	96	92	89	87	91	88	87	90	88	86	90	88	86	86			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6489323
5°	4358969
10°	1112500
15°	287980
20°	129056
25°	61407
30°	32929
35°	19153
40°	14878
45°	8094
50°	6678
55°	4989
60°	5723
65°	3386
70°	4183
75°	5528
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.9	67.4
10°-20°	192.6	21.5
20°-30°	56.3	6.3
30°-40°	21.4	2.4
40°-50°	10.2	1.1
50°-60°	6.1	0.7
60°-70°	3.2	0.4
70°-80°	2.7	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°	853.7	95.1
0°-40°	875.1	97.5
0°-60°	891.4	99.3
0°-90°	897.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13153	
5°	8801	605
15°	564	193
25°	113	56
35°	32	21
45°	12	10
55°	6	6
65°	3	3
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13152.8
1°	13025.6
2°	12499.4
3°	11496.1
4°	10255.7
5°	8801.3
6°	7193.7
7°	5710.4
8°	4264.8
9°	3108.2
10°	2220.6
11°	1572.9
12°	1165.2
13°	884.8
14°	702.6
15°	563.8
17.5°	367.2
20°	245.8
22.5°	164.8
25°	112.8
27.5°	78.1
30°	57.8
32.5°	40.5
35°	31.8
37.5°	26.0
40°	23.1
42.5°	17.3
45°	11.6
47.5°	8.7
50°	8.7
52.5°	8.7
55°	5.8
57.5°	5.8
60°	5.8
62.5°	2.9
65°	2.9
67.5°	2.9
70°	2.9
72.5°	2.9
75°	2.9
77.5°	2.9
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)