

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: P432080

Luminaire Tested: **LAM4B108R109035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432080
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: LAM4B108R109035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 804.6 lumens
Efficiency: N/A
Efficacy: 70.6 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

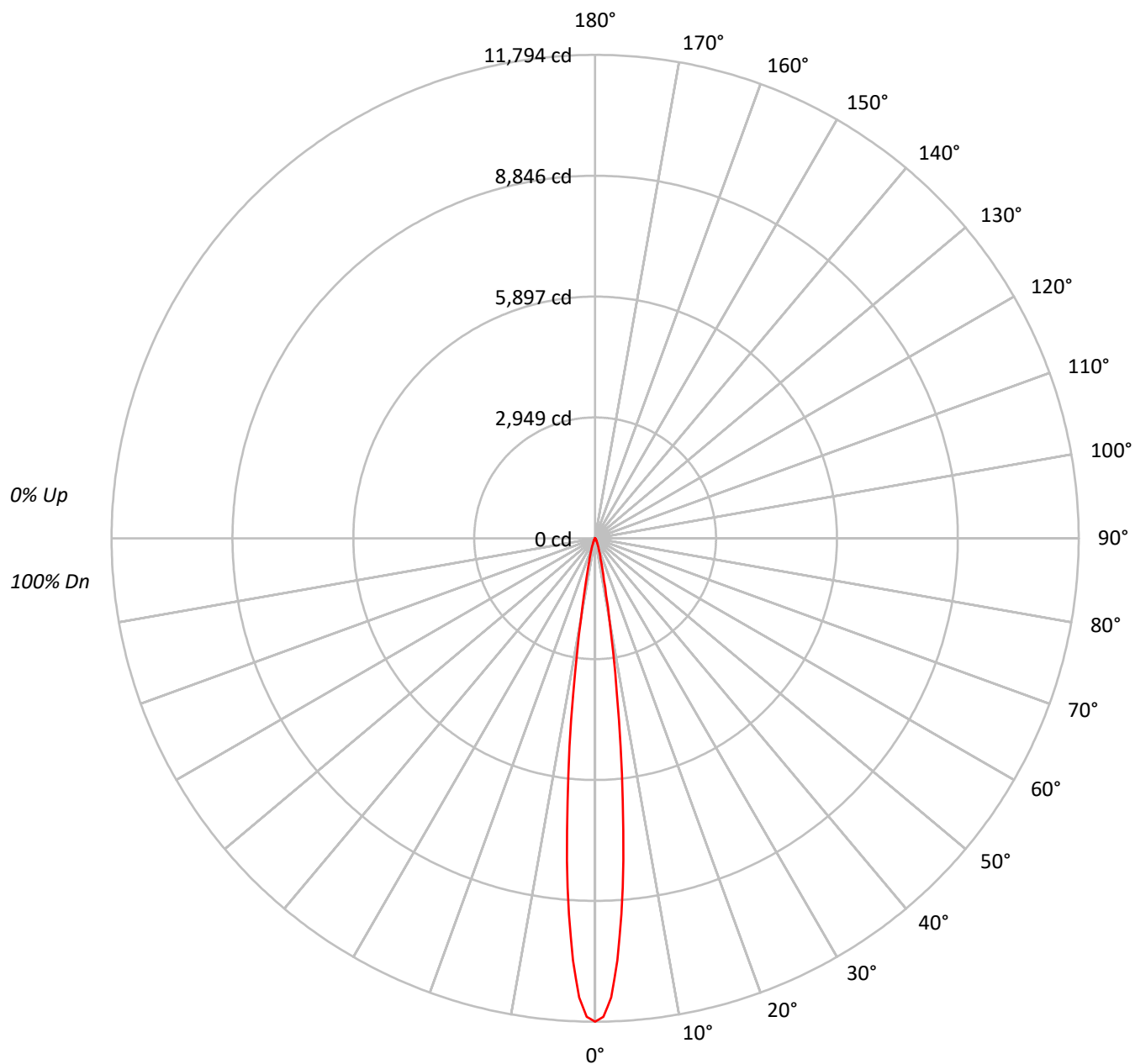
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5818918
5°	3908674
10°	997573
15°	258252
20°	115720
25°	55037
30°	29568
35°	17166
40°	13332
45°	7257
50°	5987
55°	4473
60°	5131
65°	3035
70°	3751
75°	4956
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	67.4
10°-20°	172.7	21.5
20°-30°	50.4	6.3
30°-40°	19.2	2.4
40°-50°	9.2	1.1
50°-60°	5.5	0.7
60°-70°	2.9	0.4
70°-80°	2.4	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°	765.5	95.1
0°-40°	784.7	97.5
0°-60°	799.4	99.3
0°-90°	804.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11794	
5°	7892	542
15°	506	173
25°	101	50
35°	28	19
45°	10	9
55°	5	6
65°	3	3
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11794.0
1°	11679.9
2°	11208.1
3°	10308.4
4°	9196.2
5°	7892.1
6°	6450.5
7°	5120.5
8°	3824.2
9°	2787.1
10°	1991.2
11°	1410.4
12°	1044.8
13°	793.4
14°	630.0
15°	505.6
17.5°	329.3
20°	220.4
22.5°	147.8
25°	101.1
27.5°	70.0
30°	51.9
32.5°	36.3
35°	28.5
37.5°	23.3
40°	20.7
42.5°	15.6
45°	10.4
47.5°	7.8
50°	7.8
52.5°	7.8
55°	5.2
57.5°	5.2
60°	5.2
62.5°	2.6
65°	2.6
67.5°	2.6
70°	2.6
72.5°	2.6
75°	2.6
77.5°	2.6
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)