

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: P432198

Luminaire Tested: **LAM4B108R359030DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R359030DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 777.1 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

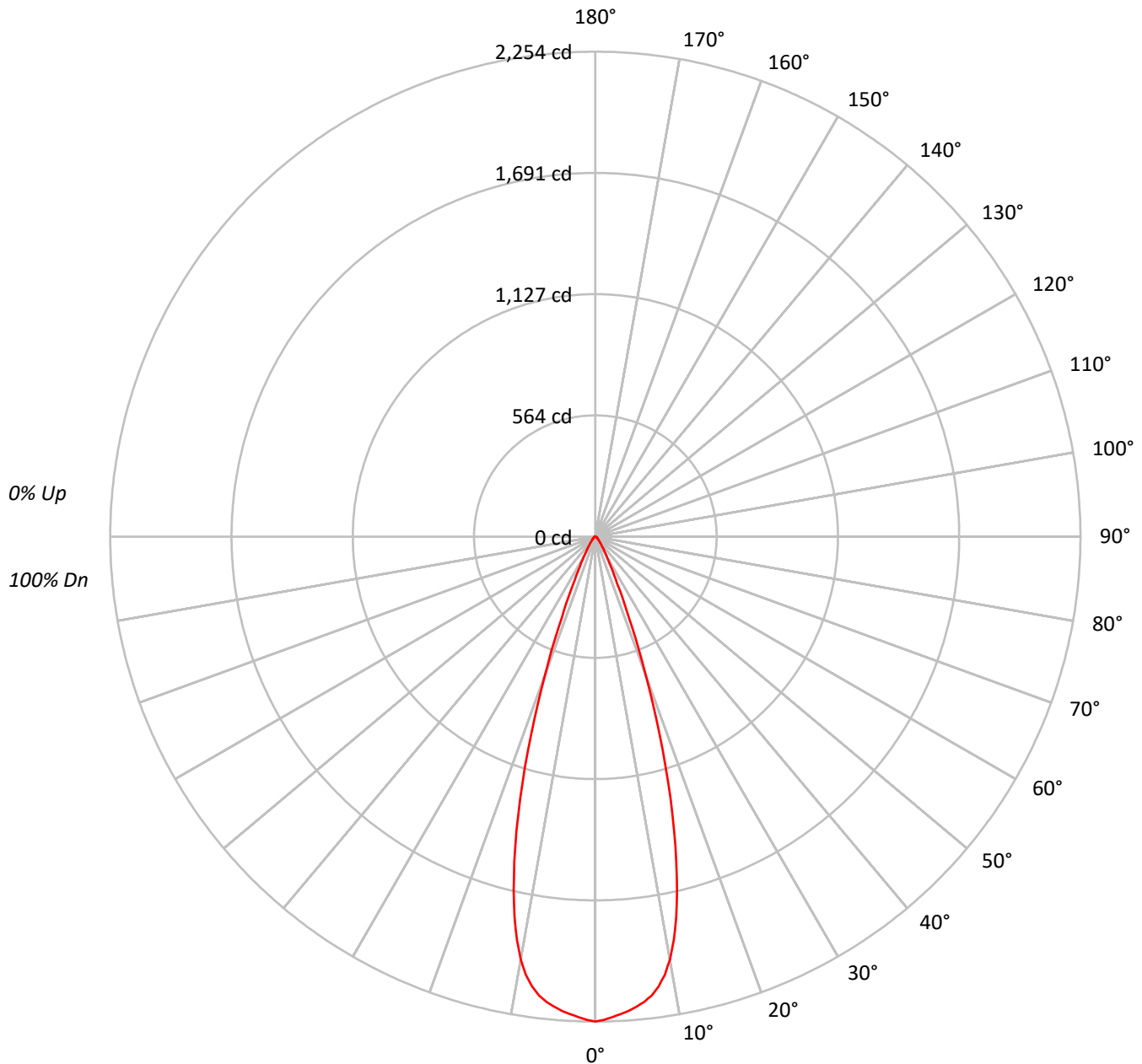
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432198

CATALOG NUMBER: LAM4B108R359030DE010x1MW

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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1112127
5°	1086461
10°	999827
15°	722657
20°	356977
25°	130979
30°	59078
35°	32163
40°	19901
45°	13466
50°	10132
55°	8688
60°	7598
65°	7238
70°	6636
75°	5909
80°	6535
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	26.2
10°-20°	372.5	47.9
20°-30°	129.7	16.7
30°-40°	35.9	4.6
40°-50°	15.6	2.0
50°-60°	9.1	1.2
60°-70°	6.1	0.8
70°-80°	3.4	0.4
80°-90°	0.9	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°	706.1	90.9
0°-40°	742.0	95.5
0°-60°	766.7	98.7
0°-90°	777.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2254	
5°	2194	204
15°	1415	373
25°	241	130
35°	53	36
45°	19	16
55°	10	9
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2254.1
1°	2246.3
2°	2234.7
3°	2223.1
4°	2210.0
5°	2193.7
6°	2173.6
7°	2148.9
8°	2111.0
9°	2062.2
10°	1995.7
11°	1910.6
12°	1807.7
13°	1687.1
14°	1554.8
15°	1414.8
16°	1265.5
17°	1115.4
18°	964.6
19°	819.2
20°	679.9
22.5°	405.3
25°	240.6
26°	200.3
27°	167.1
28°	141.6
29°	120.7
30°	103.7
32.5°	73.5
35°	53.4
37.5°	40.2
40°	30.9
42.5°	24.0
45°	19.3
47.5°	16.2
50°	13.2
52.5°	11.6
55°	10.1
57.5°	8.5
60°	7.7
62.5°	7.0
65°	6.2
67.5°	5.4



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CANDELA DISTRIBUTION (continued):

	0°
75°	3.1
77.5°	2.3
80°	2.3
82.5°	1.5
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







70°	4.6
72.5°	3.9



(END OF REPORT)