

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: P432207

Luminaire Tested: **LAM4B108R359050DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432207
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: LAM4B108R359050DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 907.8 lumens
Efficiency: N/A
Efficacy: 79.6 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

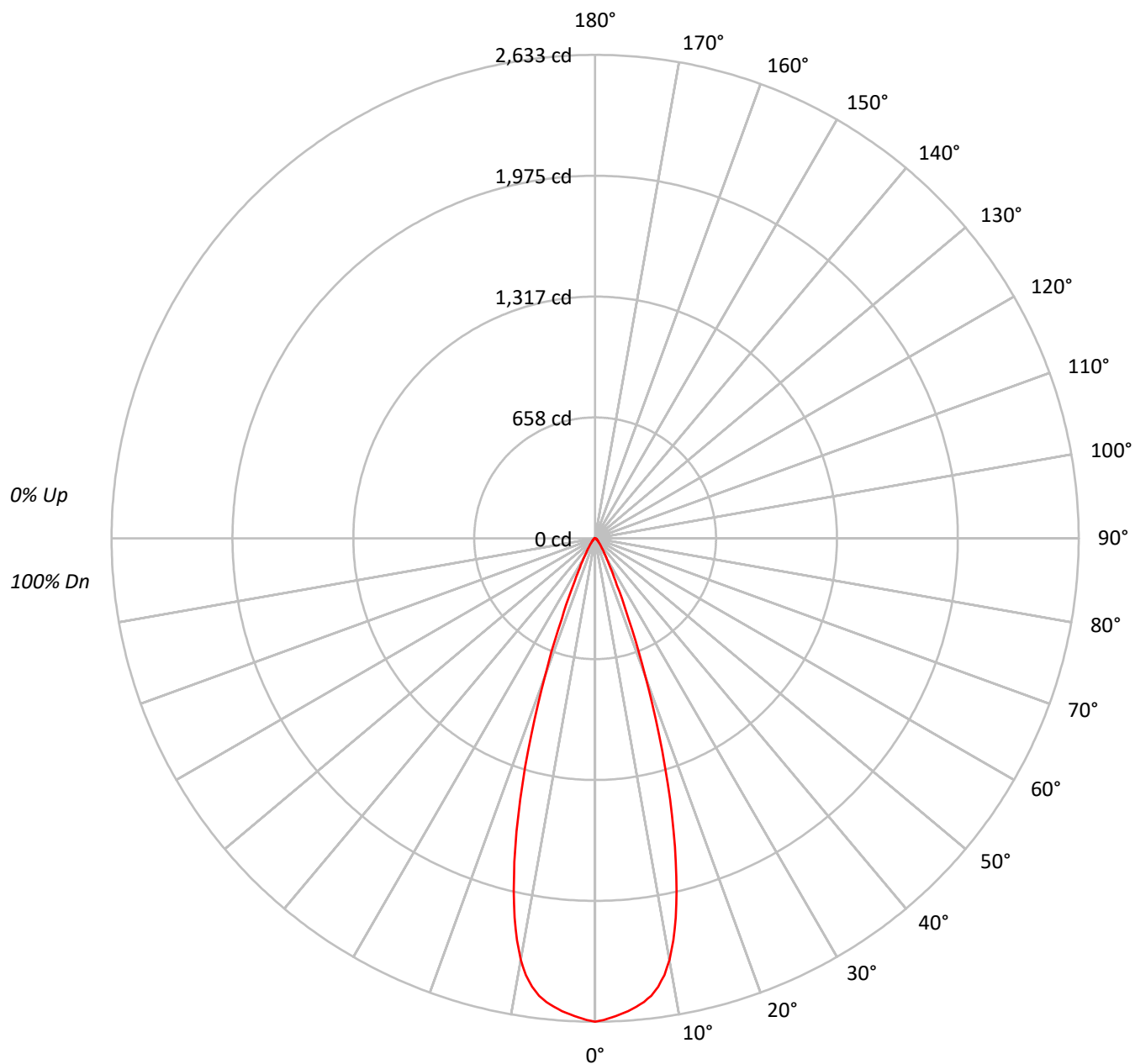
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1299167
5°	1269214
10°	1168010
15°	844224
20°	417042
25°	152972
30°	68991
35°	37584
40°	23251
45°	15769
50°	11820
55°	10064
60°	8881
65°	8406
70°	7790
75°	6863
80°	7671
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	26.2
10°-20°	435.2	47.9
20°-30°	151.5	16.7
30°-40°	42.0	4.6
40°-50°	18.3	2.0
50°-60°	10.6	1.2
60°-70°	7.1	0.8
70°-80°	3.9	0.4
80°-90°	1.1	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°	824.8	90.9
0°-40°	866.8	95.5
0°-60°	895.7	98.7
0°-90°	907.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2633	
5°	2563	238
15°	1653	435
25°	281	152
35°	62	42
45°	23	18
55°	12	11
65°	7	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2633.2
1°	2624.2
2°	2610.6
3°	2597.1
4°	2581.7
5°	2562.7
6°	2539.2
7°	2510.3
8°	2466.0
9°	2409.1
10°	2331.4
11°	2232.0
12°	2111.8
13°	1970.8
14°	1816.3
15°	1652.8
16°	1478.4
17°	1303.1
18°	1126.8
19°	957.0
20°	794.3
22.5°	473.5
25°	281.0
26°	234.0
27°	195.2
28°	165.4
29°	141.0
30°	121.1
32.5°	85.8
35°	62.4
37.5°	47.0
40°	36.1
42.5°	28.0
45°	22.6
47.5°	19.0
50°	15.4
52.5°	13.6
55°	11.7
57.5°	9.9
60°	9.0
62.5°	8.1
65°	7.2
67.5°	6.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	3.6
77.5°	2.7
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°	5.4
72.5°	4.5



(END OF REPORT)