

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: P432185

Luminaire Tested: **LAM4B108R309727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R309727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 684.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

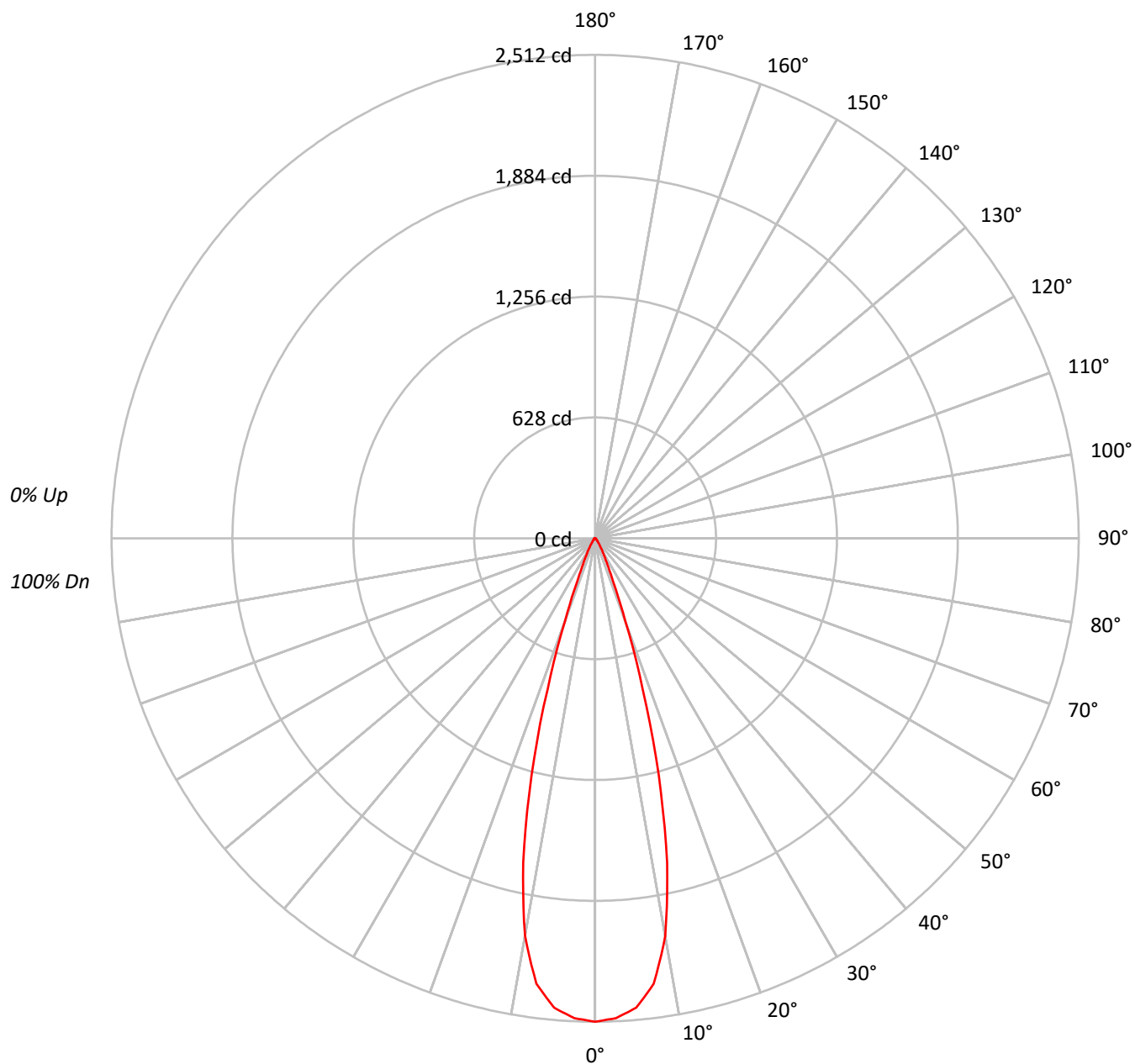
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	100	102	100	98		100	98	96		97
3	107	103	99	96	105	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	94	91	95	92	90		94	91	89		92
5	101	95	91	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	97	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	88	84	81	87	83	81		86	83	80		85
8	92	86	81	79	91	85	81	78	84	81	78		83	80	78		83
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		80
10	88	81	77	74	87	80	77	74	80	76	74		79	76	74		78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1239468
5°	1212407
10°	1051229
15°	651556
20°	238790
25°	79807
30°	39196
35°	19515
40°	12108
45°	7675
50°	5450
55°	4473
60°	3848
65°	3035
70°	3751
75°	3622
80°	3694
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	32.6
10°-20°	336.8	49.2
20°-30°	82.1	12.0
30°-40°	22.5	3.3
40°-50°	9.0	1.3
50°-60°	4.8	0.7
60°-70°	2.9	0.4
70°-80°	2.2	0.3
80°-90°	0.5	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°	642.1	93.9
0°-40°	664.6	97.2
0°-60°	678.4	99.2
0°-90°	684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2512	
5°	2448	223
15°	1276	337
25°	147	82
35°	32	22
45°	11	9
55°	5	5
65°	3	3
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2512.2
2.5°	2495.4
5°	2448.0
7.5°	2335.1
10°	2098.3
12.5°	1727.2
15°	1275.6
17.5°	822.1
20°	454.8
22.5°	242.7
25°	146.6
27.5°	99.3
30°	68.8
32.5°	46.7
35°	32.4
37.5°	24.0
40°	18.8
42.5°	14.3
45°	11.0
47.5°	9.1
50°	7.1
52.5°	6.5
55°	5.2
57.5°	4.5
60°	3.9
62.5°	3.2
65°	2.6
67.5°	2.6
70°	2.6
72.5°	2.6
75°	1.9
77.5°	1.9
80°	1.3
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)