

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: P432356

Luminaire Tested: **LAM4B108R659730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R659730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.4 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

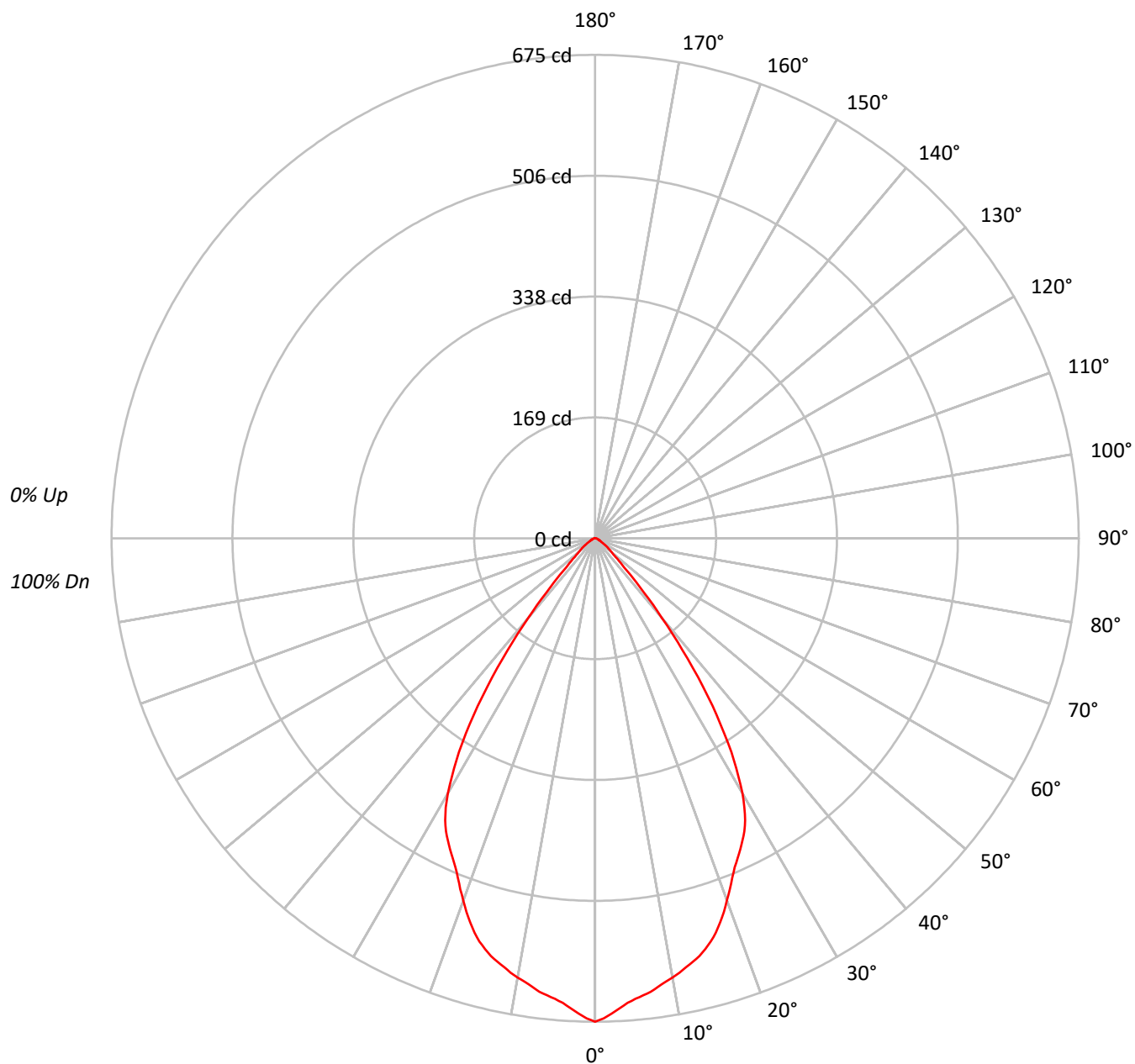
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	81	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	333081
5°	319644
10°	312067
15°	303355
20°	282473
25°	260923
30°	234206
35°	172079
40°	92938
45°	39981
50°	22259
55°	15569
60°	10065
65°	7588
70°	6347
75°	5528
80°	6251
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	8.7
10°-20°	165.7	23.7
20°-30°	219.7	31.4
30°-40°	174.0	24.9
40°-50°	51.8	7.4
50°-60°	16.6	2.4
60°-70°	6.6	0.9
70°-80°	3.2	0.5
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°	446.4	63.8
0°-40°	620.3	88.7
0°-60°	688.7	98.5
0°-90°	699.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	699.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	675	
5°	645	61
15°	594	166
25°	479	220
35°	286	174
45°	57	52
55°	18	17
65°	6	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	675.1
1°	670.7
2°	664.2
3°	657.0
4°	650.4
5°	645.4
6°	641.7
7°	638.1
8°	632.3
9°	627.2
10°	622.9
11°	617.8
12°	612.0
13°	606.9
14°	601.1
15°	593.9
16°	585.9
17°	575.7
18°	564.1
19°	551.8
20°	538.0
21°	525.0
22°	511.2
23°	498.9
24°	488.7
25°	479.3
26°	469.2
27°	459.0
28°	445.9
29°	430.0
30°	411.1
32.5°	353.9
35°	285.7
37.5°	211.7
40°	144.3
42.5°	91.4
45°	57.3
47.5°	38.4
50°	29.0
52.5°	23.2
55°	18.1
57.5°	13.8
60°	10.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.1
70°	4.4
72.5°	3.6
75°	2.9
77.5°	2.2
80°	2.2
82.5°	1.5
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	8.0
65°	6.5



(END OF REPORT)