

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: P432189

Luminaire Tested: **LAM4B108R309730DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432189
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: LAM4B108R309730DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 733.1 lumens
Efficiency: N/A
Efficacy: 64.3 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

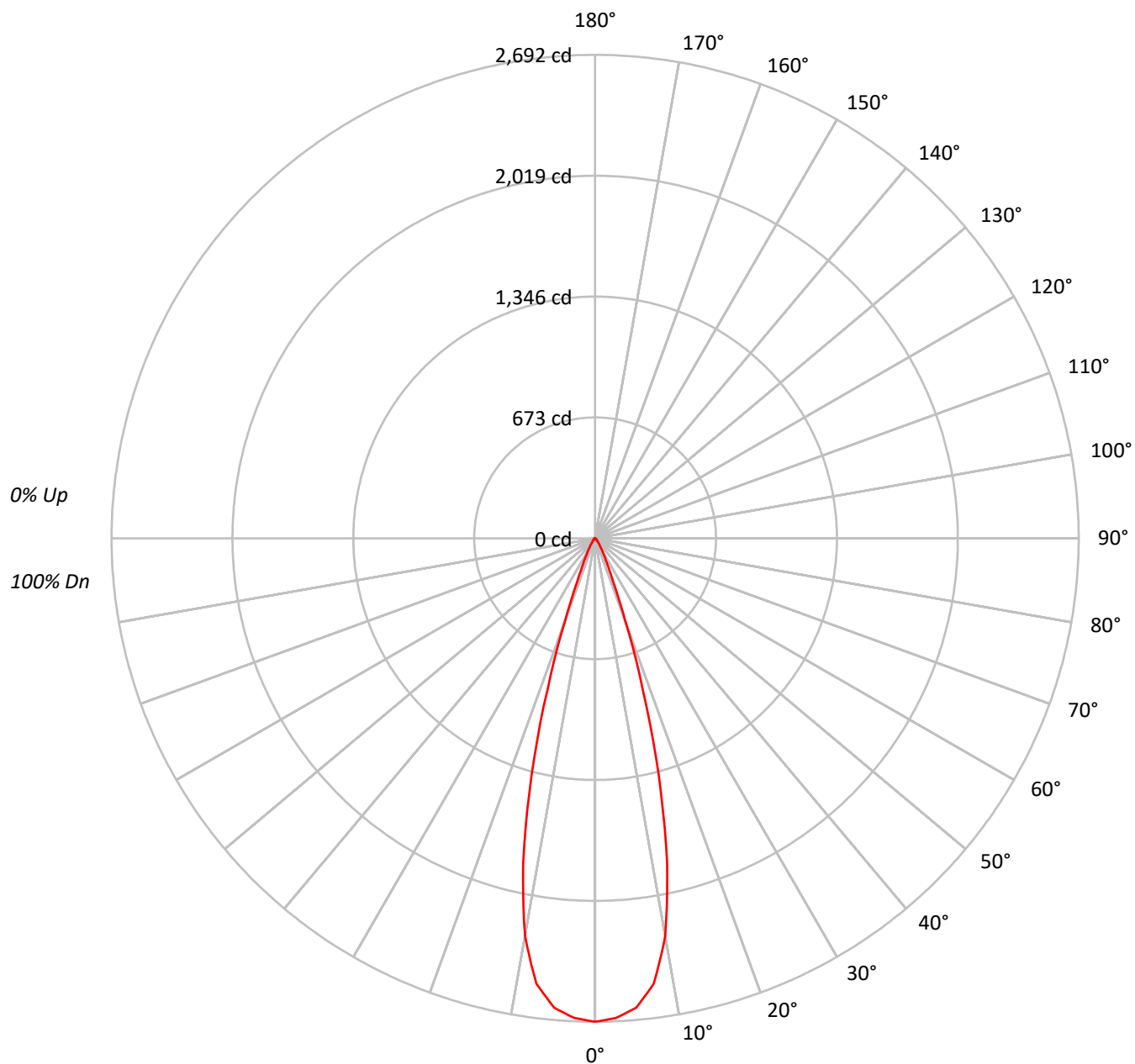
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	89		92
5	101	95	90	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	76	74	80	76	74		79	76	74		78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1328178
5°	1299177
10°	1126428
15°	698191
20°	255906
25°	85523
30°	41987
35°	20960
40°	13010
45°	8233
50°	5833
55°	4817
60°	4144
65°	3269
70°	4039
75°	4003
80°	3978
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	32.6
10°-20°	360.9	49.2
20°-30°	88.0	12.0
30°-40°	24.1	3.3
40°-50°	9.7	1.3
50°-60°	5.2	0.7
60°-70°	3.1	0.4
70°-80°	2.4	0.3
80°-90°	0.6	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°	688.0	93.8
0°-40°	712.1	97.1
0°-60°	727.0	99.2
0°-90°	733.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2692	
5°	2623	239
15°	1367	361
25°	157	88
35°	35	24
45°	12	10
55°	6	5
65°	3	3
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2692.0
2.5°	2673.9
5°	2623.2
7.5°	2502.2
10°	2248.4
12.5°	1850.7
15°	1366.9
17.5°	880.9
20°	487.4
22.5°	260.0
25°	157.1
27.5°	106.4
30°	73.7
32.5°	50.1
35°	34.8
37.5°	25.7
40°	20.2
42.5°	15.3
45°	11.8
47.5°	9.7
50°	7.6
52.5°	7.0
55°	5.6
57.5°	4.9
60°	4.2
62.5°	3.5
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
75°	2.1
77.5°	2.1
80°	1.4
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)