

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: P432378

Luminaire Tested: **LAM4B108R709727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R709727DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

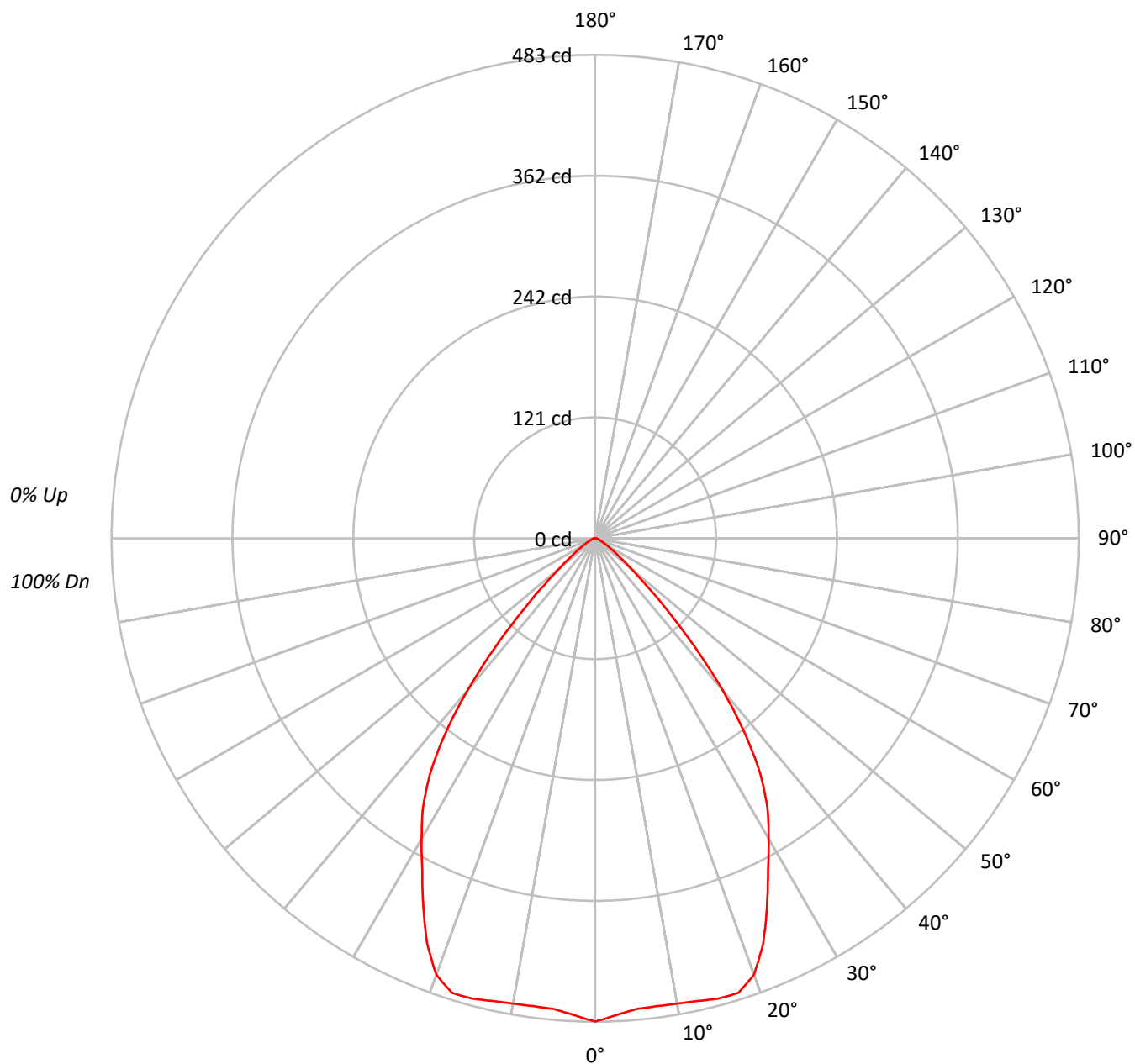
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	61		68
7	78	68	61	56	77	67	61	56	66	60	56		65	60	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	238253
5°	233814
10°	236518
15°	243235
20°	243620
25°	221020
30°	197517
35°	173464
40°	127717
45°	71519
50°	35231
55°	19698
60°	11940
65°	7822
70°	5770
75°	5147
80°	3694
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	6.9
10°-20°	134.2	20.4
20°-30°	186.2	28.3
30°-40°	175.2	26.7
40°-50°	83.6	12.7
50°-60°	22.1	3.4
60°-70°	7.0	1.1
70°-80°	2.8	0.4
80°-90°	0.7	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°	365.5	55.6
0°-40°	540.7	82.3
0°-60°	646.4	98.4
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	483	
5°	472	45
15°	476	134
25°	406	186
35°	288	175
45°	102	84
55°	23	22
65°	7	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	482.9
2.5°	476.9
5°	472.1
7.5°	471.5
10°	472.1
12.5°	473.5
15°	476.2
17.5°	476.2
20°	464.0
22.5°	438.4
25°	406.0
27.5°	373.7
30°	346.7
32.5°	320.4
35°	288.0
37.5°	246.2
40°	198.3
42.5°	147.7
45°	102.5
47.5°	68.1
50°	45.9
52.5°	31.7
55°	22.9
57.5°	16.2
60°	12.1
62.5°	8.8
65°	6.7
67.5°	4.7
70°	4.0
72.5°	3.4
75°	2.7
77.5°	2.0
80°	1.3
82.5°	1.3
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)