

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: P432373

Luminaire Tested: **LAM4B108R709050DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432373
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: LAM4B108R709050DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 889.9 lumens
Efficiency: N/A
Efficacy: 78.1 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

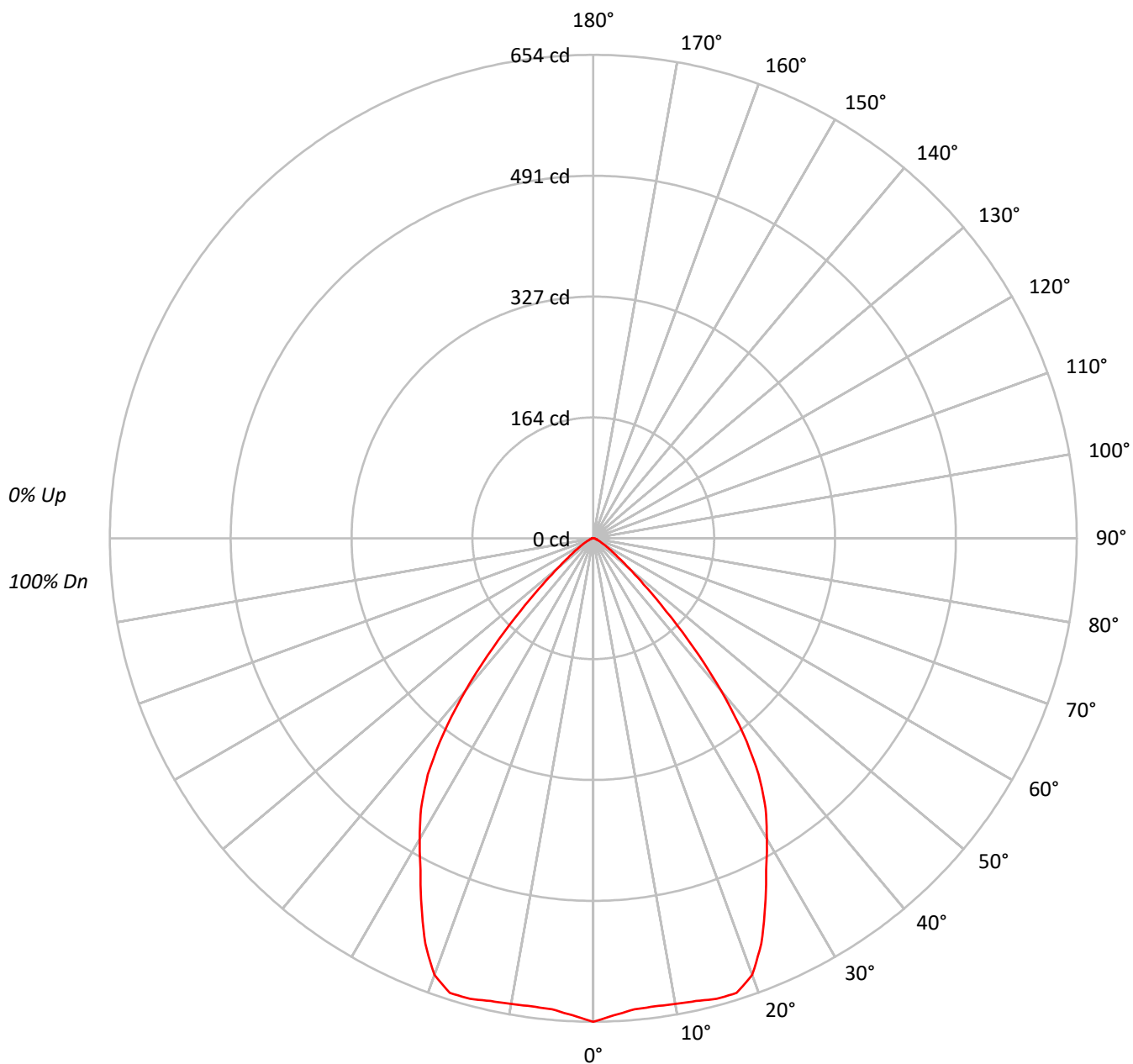
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	60		68
7	78	68	61	56	77	67	61	56	66	60	56		65	59	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°	322720
5°	316721
10°	320384
15°	329456
20°	329990
25°	299411
30°	267534
35°	234959
40°	172995
45°	96917
50°	47666
55°	26752
60°	16183
65°	10624
70°	7934
75°	7053
80°	5114
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	6.9
10°-20°	181.7	20.4
20°-30°	252.2	28.3
30°-40°	237.3	26.7
40°-50°	113.3	12.7
50°-60°	29.9	3.4
60°-70°	9.4	1.1
70°-80°	3.9	0.4
80°-90°	1.0	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°	495.1	55.6
0°-40°	732.4	82.3
0°-60°	875.6	98.4
0°-90°	889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	654	
5°	640	61
15°	645	182
25°	550	252
35°	390	237
45°	139	113
55°	31	30
65°	9	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	654.1
2.5°	645.9
5°	639.5
7.5°	638.6
10°	639.5
12.5°	641.3
15°	645.0
17.5°	645.0
20°	628.5
22.5°	593.8
25°	550.0
27.5°	506.1
30°	469.6
32.5°	433.9
35°	390.1
37.5°	333.4
40°	268.6
42.5°	200.1
45°	138.9
47.5°	92.3
50°	62.1
52.5°	42.9
55°	31.1
57.5°	21.9
60°	16.4
62.5°	11.9
65°	9.1
67.5°	6.4
70°	5.5
72.5°	4.6
75°	3.7
77.5°	2.7
80°	1.8
82.5°	1.8
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)