

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: P432136

Luminaire Tested: **LAM4B108R209727DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R209727DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 678.6 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

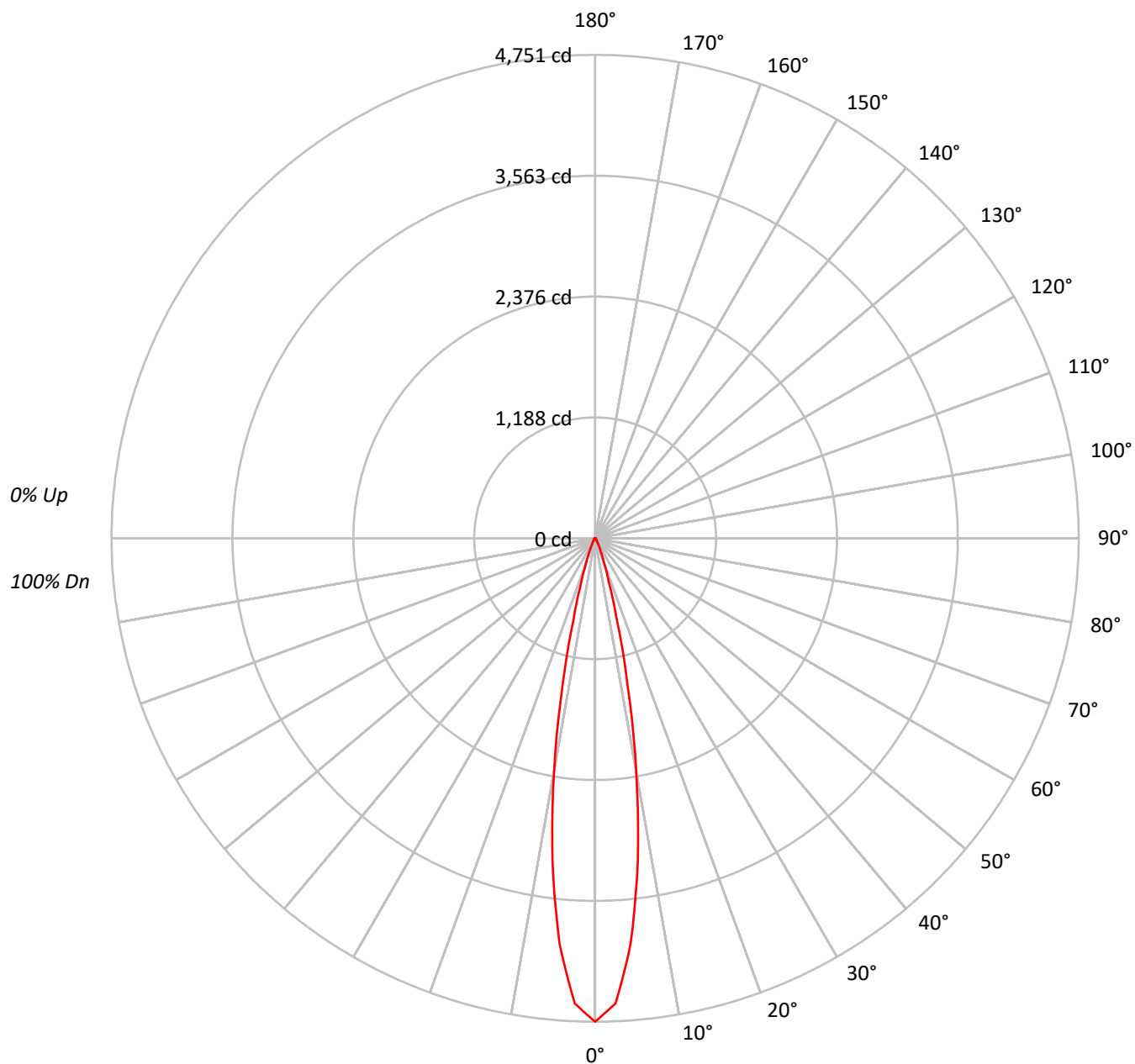
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110		113	111	109	108		107	106	105			103	102	102			100
2	112	108	105	103		110	106	104	102		103	101	100			101	99	97			98
3	108	104	100	98		107	103	100	97		100	98	96			98	96	94			96
4	105	100	97	94		104	99	96	93		97	94	92			96	93	91			94
5	103	97	93	90		101	96	93	90		95	92	89			93	91	89			92
6	100	94	90	88		99	94	90	87		92	89	87			91	88	86			90
7	98	92	88	85		97	91	88	85		90	87	85			89	86	84			88
8	96	90	86	83		95	89	86	83		88	85	83			87	85	82			87
9	94	88	84	81		93	87	84	81		86	83	81			86	83	81			85
10	92	86	82	80		91	85	82	80		85	82	79			84	81	79			83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2344046
5°	1981304
10°	1163751
15°	416698
20°	137876
25°	54874
30°	26206
35°	14997
40°	10820
45°	9140
50°	10516
55°	8602
60°	4342
65°	3619
70°	4472
75°	4766
80°	3410
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	48.3
10°-20°	255.5	37.6
20°-30°	53.0	7.8
30°-40°	16.7	2.5
40°-50°	10.8	1.6
50°-60°	8.6	1.3
60°-70°	3.4	0.5
70°-80°	2.5	0.4
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°	636.1	93.7
0°-40°	652.8	96.2
0°-60°	672.2	99.1
0°-90°	678.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4751	
5°	4000	328
15°	816	255
25°	101	53
35°	25	17
45°	13	11
55°	10	9
65°	3	3
75°	2	3
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4751.0
2.5°	4576.7
5°	4000.5
7.5°	3205.3
10°	2322.9
12.5°	1465.4
15°	815.8
17.5°	448.7
20°	262.6
22.5°	160.5
25°	100.8
27.5°	66.6
30°	46.0
32.5°	32.4
35°	24.9
37.5°	19.9
40°	16.8
42.5°	14.3
45°	13.1
47.5°	13.1
50°	13.7
52.5°	13.1
55°	10.0
57.5°	6.8
60°	4.4
62.5°	3.7
65°	3.1
67.5°	3.1
70°	3.1
72.5°	3.1
75°	2.5
77.5°	1.9
80°	1.2
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)