

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: P432258

Luminaire Tested: **LAM4B108R459727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R459727DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 677.1 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

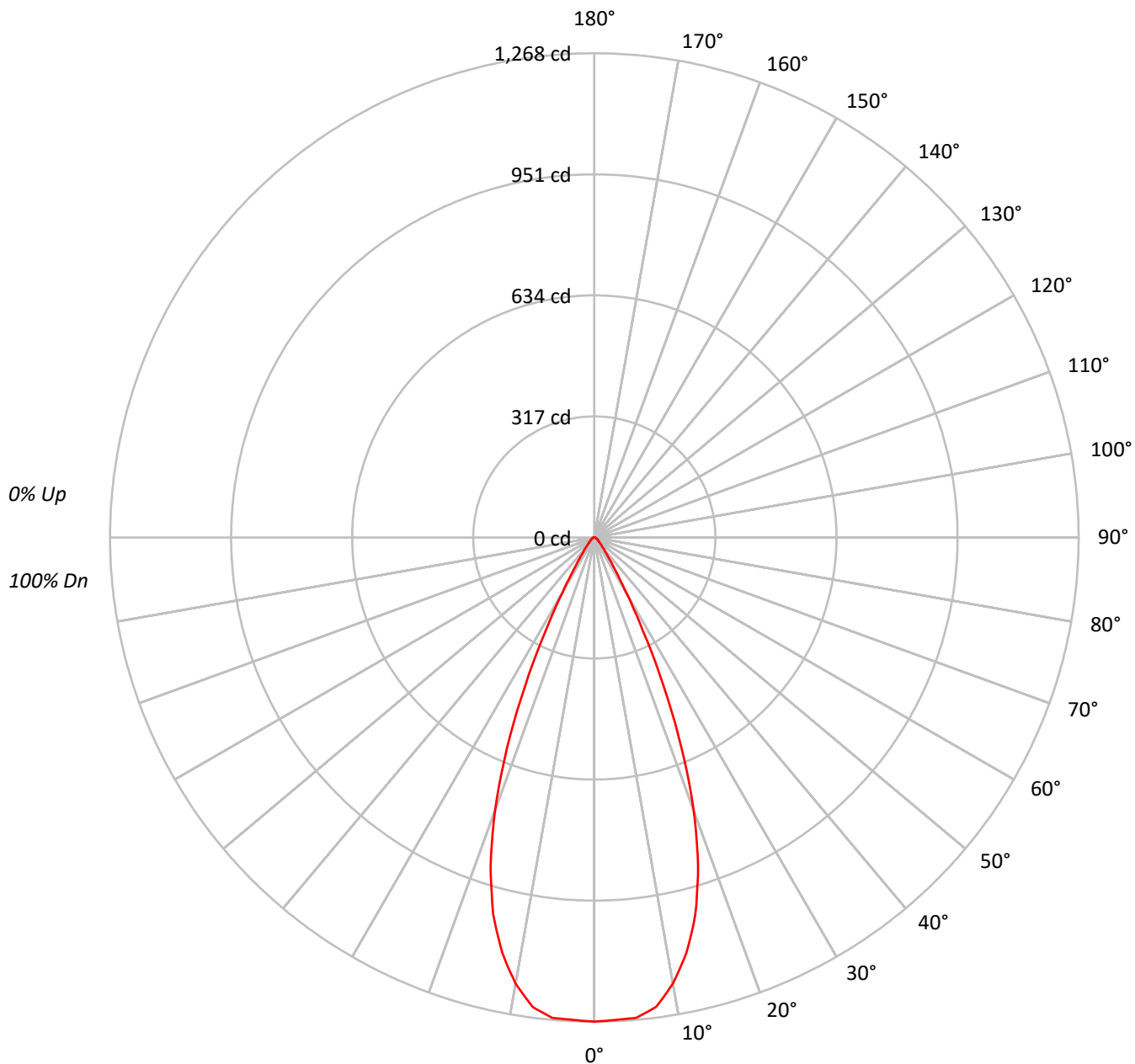
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	625605
5°	625420
10°	594425
15°	522175
20°	399453
25°	233214
30°	95426
35°	40354
40°	22027
45°	14234
50°	11130
55°	9634
60°	7795
65°	6187
70°	5626
75°	4956
80°	5683
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	17.5
10°-20°	278.3	41.1
20°-30°	196.1	29.0
30°-40°	48.3	7.1
40°-50°	16.9	2.5
50°-60°	10.0	1.5
60°-70°	5.5	0.8
70°-80°	3.0	0.4
80°-90°	0.8	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°	592.6	87.5
0°-40°	640.8	94.6
0°-60°	667.7	98.6
0°-90°	677.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1268	
5°	1263	118
15°	1022	278
25°	428	196
35°	67	48
45°	20	17
55°	11	10
65°	5	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1268.0
2.5°	1264.7
5°	1262.8
7.5°	1239.8
10°	1186.5
12.5°	1114.3
15°	1022.3
17.5°	903.4
20°	760.8
22.5°	597.2
25°	428.4
27.5°	276.6
30°	167.5
32.5°	101.8
35°	67.0
37.5°	47.3
40°	34.2
42.5°	26.3
45°	20.4
47.5°	17.1
50°	14.5
52.5°	12.5
55°	11.2
57.5°	9.9
60°	7.9
62.5°	6.6
65°	5.3
67.5°	4.6
70°	3.9
72.5°	3.3
75°	2.6
77.5°	2.6
80°	2.0
82.5°	1.3
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)