

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: P433589

Luminaire Tested: **LAMR4B108R659030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R659030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 756.8 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

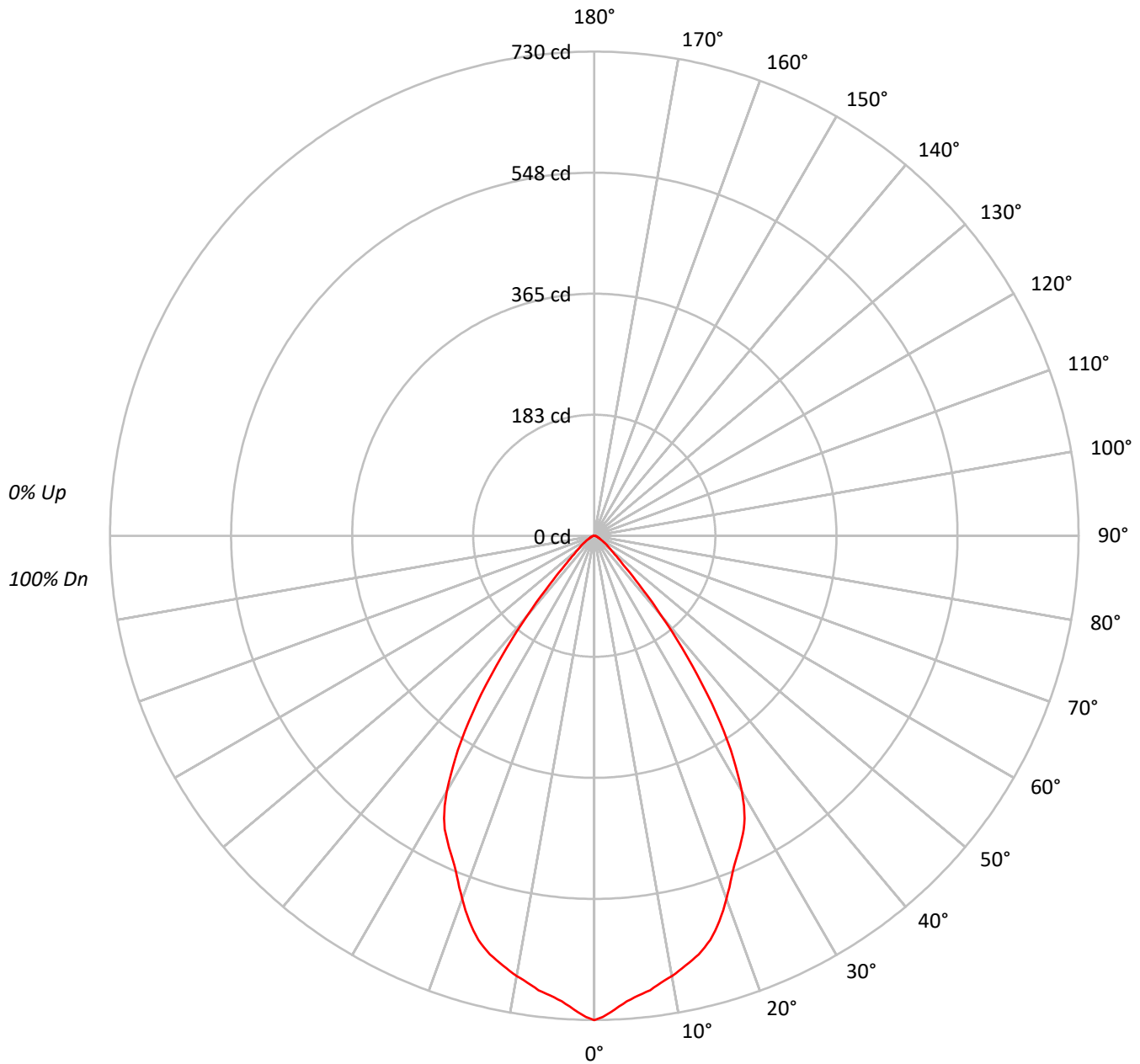
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	81	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	360364
5°	345843
10°	337618
15°	328230
20°	305628
25°	282318
30°	253405
35°	186173
40°	100538
45°	43260
50°	24101
55°	16860
60°	10854
65°	8289
70°	6780
75°	5909
80°	6819
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	8.7
10°-20°	179.3	23.7
20°-30°	237.7	31.4
30°-40°	188.2	24.9
40°-50°	56.1	7.4
50°-60°	17.9	2.4
60°-70°	7.2	0.9
70°-80°	3.4	0.5
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°	483.0	63.8
0°-40°	671.2	88.7
0°-60°	745.2	98.5
0°-90°	756.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	756.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	730	
5°	698	66
15°	643	179
25°	519	238
35°	309	188
45°	62	56
55°	20	18
65°	7	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	730.4
1°	725.7
2°	718.7
3°	710.8
4°	703.8
5°	698.3
6°	694.3
7°	690.4
8°	684.1
9°	678.6
10°	673.9
11°	668.4
12°	662.2
13°	656.7
14°	650.4
15°	642.6
16°	633.9
17°	622.9
18°	610.4
19°	597.1
20°	582.1
21°	568.0
22°	553.1
23°	539.8
24°	528.8
25°	518.6
26°	507.6
27°	496.6
28°	482.5
29°	465.2
30°	444.8
32.5°	382.9
35°	309.1
37.5°	229.1
40°	156.1
42.5°	98.9
45°	62.0
47.5°	41.6
50°	31.4
52.5°	25.1
55°	19.6
57.5°	14.9
60°	11.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.5
70°	4.7
72.5°	3.9
75°	3.1
77.5°	2.4
80°	2.4
82.5°	1.6
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	8.6
65°	7.1



(END OF REPORT)