

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: P433595

Luminaire Tested: **LAMR4B108R659040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433595
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: LAMR4B108R659040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 842.9 lumens
Efficiency: N/A
Efficacy: 73.9 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

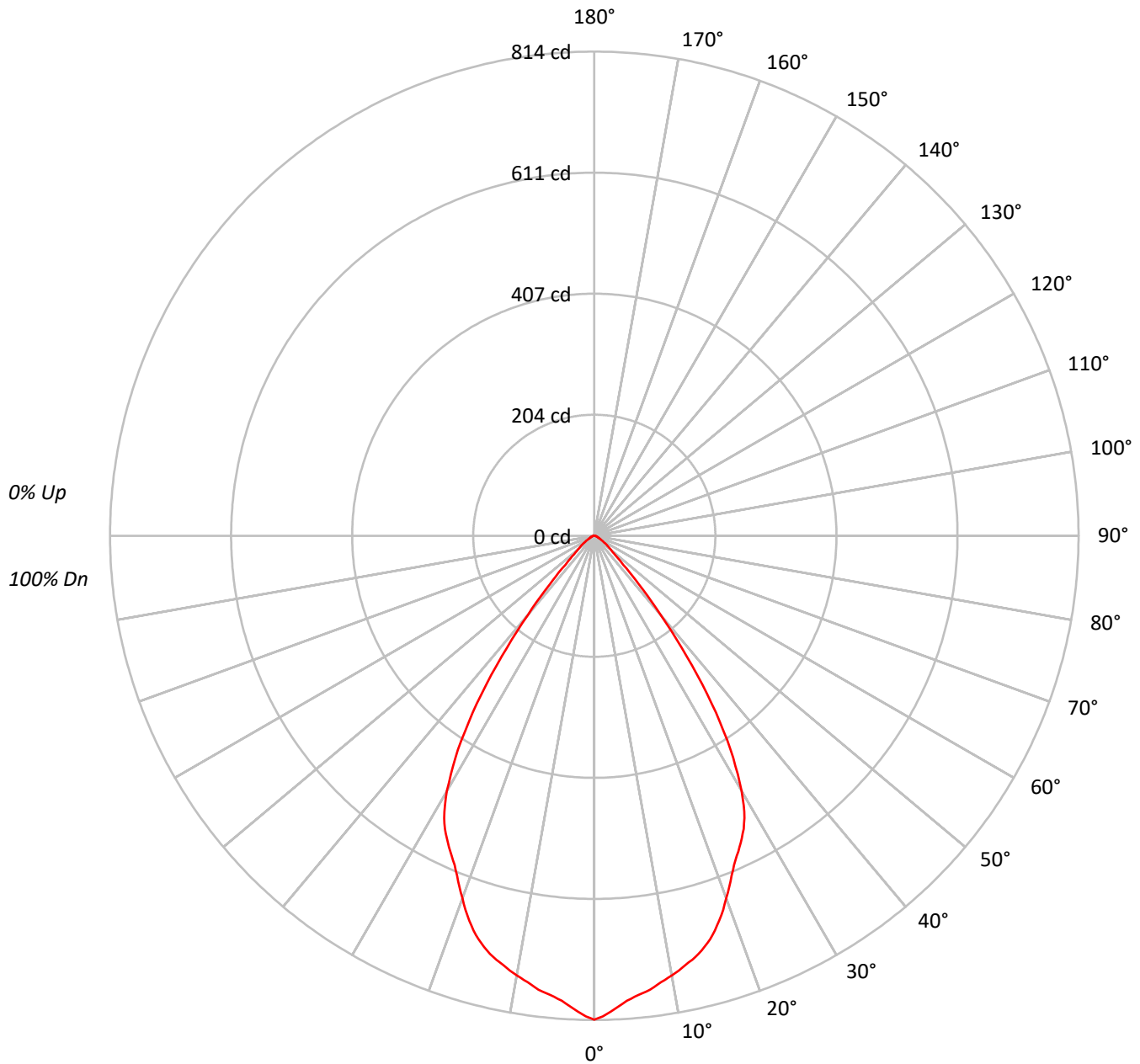
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	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°	401414
5°	385216
10°	376094
15°	365619
20°	340491
25°	314491
30°	282289
35°	207374
40°	112002
45°	48144
50°	26865
55°	18752
60°	12038
65°	9223
70°	7501
75°	6672
80°	7387
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	8.7
10°-20°	199.7	23.7
20°-30°	264.7	31.4
30°-40°	209.7	24.9
40°-50°	62.4	7.4
50°-60°	20.0	2.4
60°-70°	8.0	0.9
70°-80°	3.8	0.5
80°-90°	1.1	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°	538.0	63.8
0°-40°	747.6	88.7
0°-60°	830.1	98.5
0°-90°	842.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	814	
5°	778	74
15°	716	200
25°	578	265
35°	344	210
45°	69	62
55°	22	20
65°	8	8
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	813.6
1°	808.4
2°	800.5
3°	791.8
4°	783.9
5°	777.8
6°	773.4
7°	769.1
8°	762.1
9°	756.0
10°	750.7
11°	744.6
12°	737.6
13°	731.5
14°	724.5
15°	715.8
16°	706.1
17°	693.9
18°	679.9
19°	665.1
20°	648.5
21°	632.7
22°	616.1
23°	601.3
24°	589.0
25°	577.7
26°	565.4
27°	553.2
28°	537.5
29°	518.2
30°	495.5
32.5°	426.5
35°	344.3
37.5°	255.2
40°	173.9
42.5°	110.1
45°	69.0
47.5°	46.3
50°	35.0
52.5°	28.0
55°	21.8
57.5°	16.6
60°	12.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.1
70°	5.2
72.5°	4.4
75°	3.5
77.5°	2.6
80°	2.6
82.5°	1.7
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	9.6
65°	7.9



(END OF REPORT)