

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: P433586

Luminaire Tested: **LAMR4B108R659027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433586
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: LAMR4B108R659027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 735.8 lumens
Efficiency: N/A
Efficacy: 64.5 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

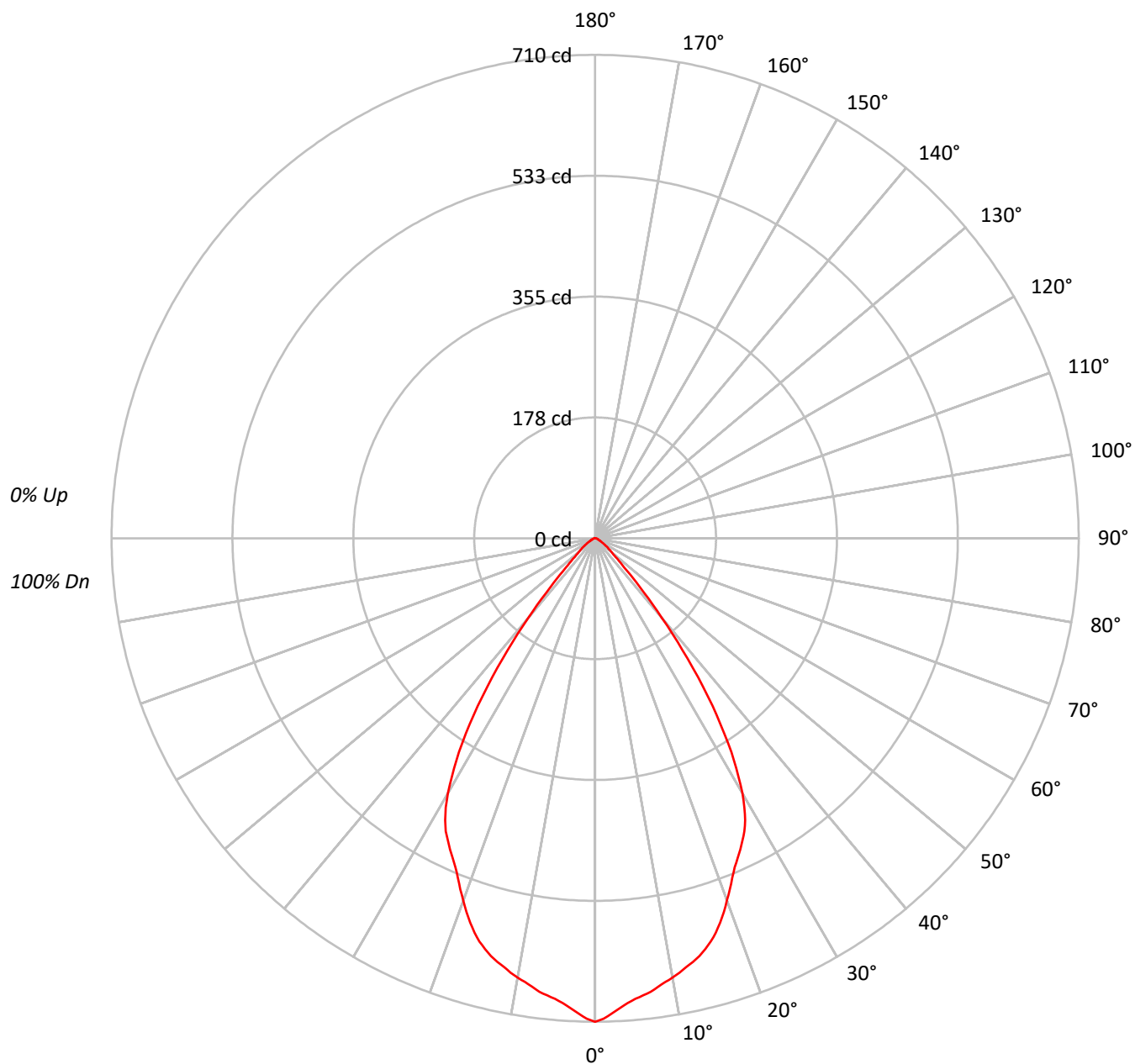
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	350398
5°	336235
10°	328299
15°	319087
20°	297175
25°	274478
30°	246398
35°	180993
40°	97768
45°	42074
50°	23411
55°	16429
60°	10558
65°	8055
70°	6636
75°	5909
80°	6535
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	8.7
10°-20°	174.3	23.7
20°-30°	231.1	31.4
30°-40°	183.0	24.9
40°-50°	54.5	7.4
50°-60°	17.5	2.4
60°-70°	7.0	0.9
70°-80°	3.3	0.5
80°-90°	0.9	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°	469.6	63.8
0°-40°	652.6	88.7
0°-60°	724.5	98.5
0°-90°	735.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	735.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	710	
5°	679	64
15°	625	174
25°	504	231
35°	300	183
45°	60	55
55°	19	17
65°	7	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	710.2
1°	705.6
2°	698.7
3°	691.1
4°	684.2
5°	678.9
6°	675.1
7°	671.3
8°	665.2
9°	659.8
10°	655.3
11°	649.9
12°	643.8
13°	638.5
14°	632.4
15°	624.7
16°	616.3
17°	605.7
18°	593.5
19°	580.5
20°	566.0
21°	552.3
22°	537.8
23°	524.8
24°	514.1
25°	504.2
26°	493.5
27°	482.9
28°	469.1
29°	452.3
30°	432.5
32.5°	372.3
35°	300.5
37.5°	222.7
40°	151.8
42.5°	96.1
45°	60.3
47.5°	40.4
50°	30.5
52.5°	24.4
55°	19.1
57.5°	14.5
60°	10.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.3
70°	4.6
72.5°	3.8
75°	3.1
77.5°	2.3
80°	2.3
82.5°	1.5
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	8.4
65°	6.9



(END OF REPORT)