

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: P433376

Luminaire Tested: **LAMR4B108R209035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433376
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: LAMR4B108R209035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 824.2 lumens
Efficiency: N/A
Efficacy: 72.3 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

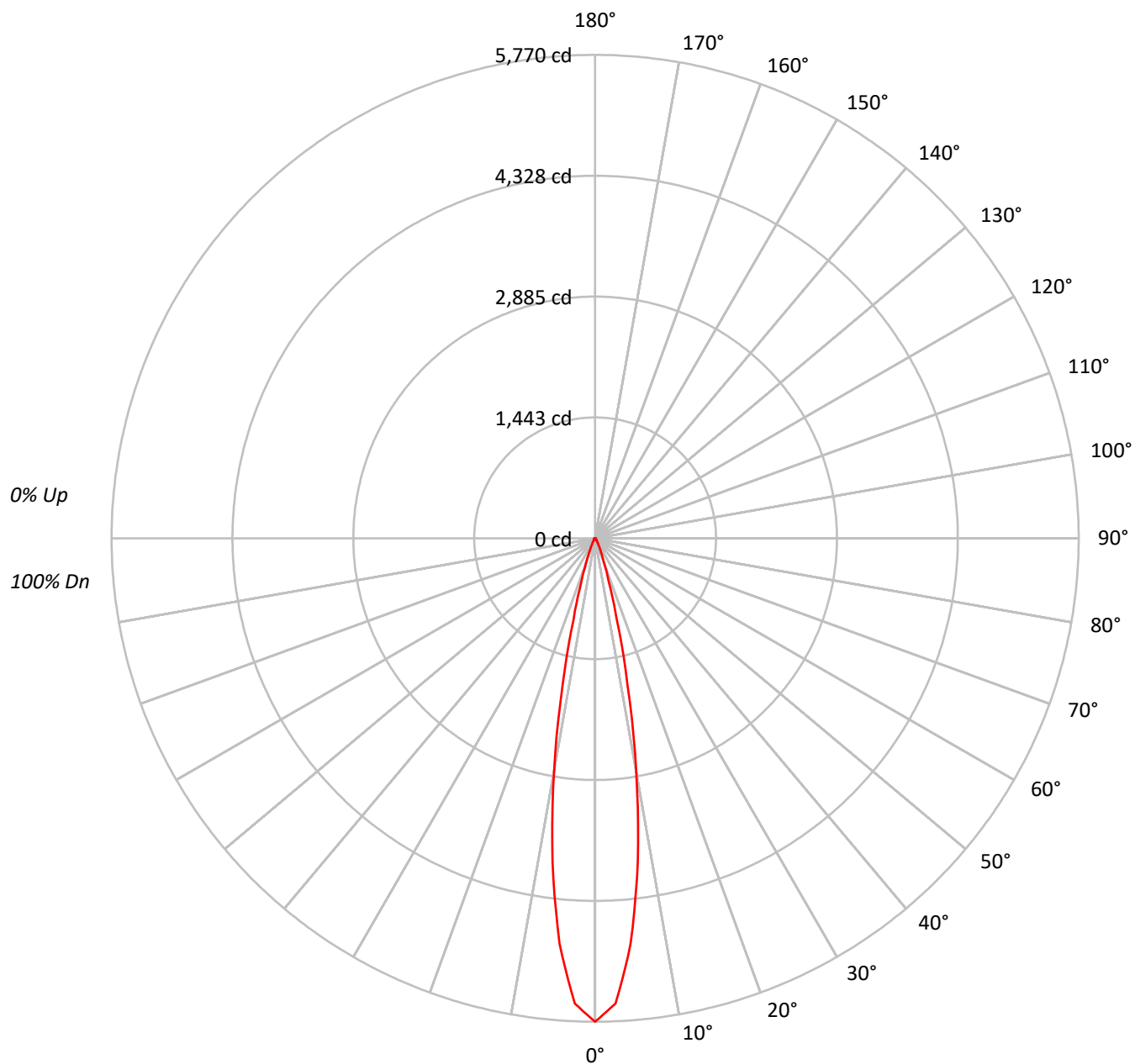
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101			100
2	112	108	105	103		110	106	104	102		103	101	100			101	99	97			98
3	108	104	100	98		107	103	99	97		100	98	95			98	96	94			96
4	105	100	97	94		104	99	96	93		97	94	92			95	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°	2846800
5°	2406291
10°	1413345
15°	506085
20°	167436
25°	66633
30°	31847
35°	18190
40°	13139
45°	11094
50°	12742
55°	10408
60°	5230
65°	4436
70°	5482
75°	5719
80°	4262
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.8	48.3
10°-20°	310.2	37.6
20°-30°	64.4	7.8
30°-40°	20.3	2.5
40°-50°	13.1	1.6
50°-60°	10.5	1.3
60°-70°	4.1	0.5
70°-80°	3.1	0.4
80°-90°	0.6	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°	772.5	93.7
0°-40°	792.8	96.2
0°-60°	816.3	99.0
0°-90°	824.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5770	
5°	4859	398
15°	991	310
25°	122	64
35°	30	20
45°	16	13
55°	12	10
65°	4	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5770.0
2.5°	5558.4
5°	4858.6
7.5°	3892.8
10°	2821.1
12.5°	1779.7
15°	990.8
17.5°	544.9
20°	318.9
22.5°	195.0
25°	122.4
27.5°	80.9
30°	55.9
32.5°	39.3
35°	30.2
37.5°	24.2
40°	20.4
42.5°	17.4
45°	15.9
47.5°	15.9
50°	16.6
52.5°	15.9
55°	12.1
57.5°	8.3
60°	5.3
62.5°	4.5
65°	3.8
67.5°	3.8
70°	3.8
72.5°	3.8
75°	3.0
77.5°	2.3
80°	1.5
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)