

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: P432129

Luminaire Tested: **LAM4B108R209035DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432129
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: LAM4B108R209035DE010x1MW
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

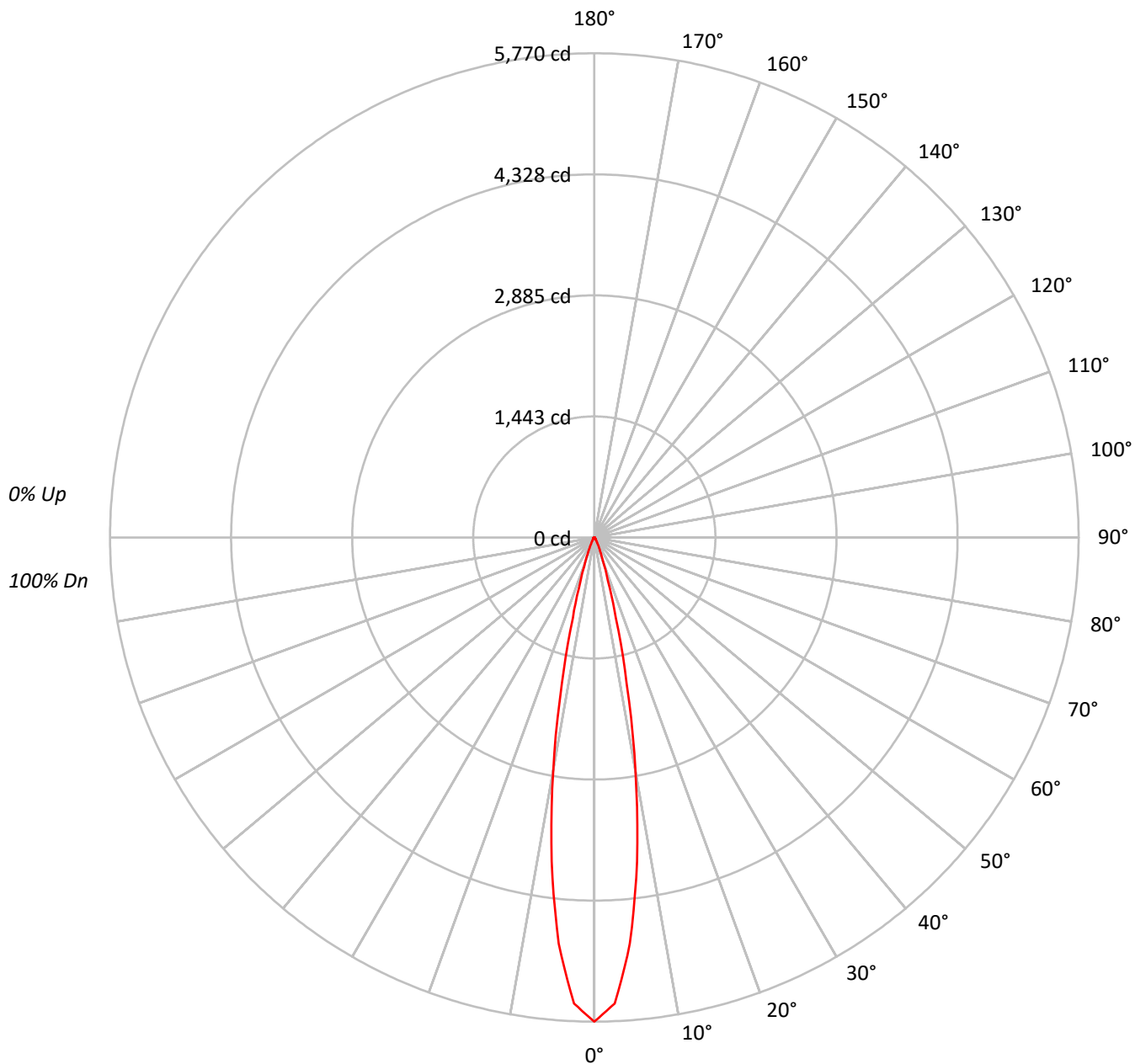
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432129

CATALOG NUMBER: LAM4B108R209035DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P432129

CATALOG NUMBER: LAM4B108R209035DE010x1MW

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



TEST NUMBER: P432129

CATALOG NUMBER: LAM4B108R209035DE010x1MW

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	



TEST NUMBER: P432129

CATALOG NUMBER: LAM4B108R209035DE010x1MW

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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)