

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: P432098

Luminaire Tested: **LAM4B108R159027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-6)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R159027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 15 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 758.5 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

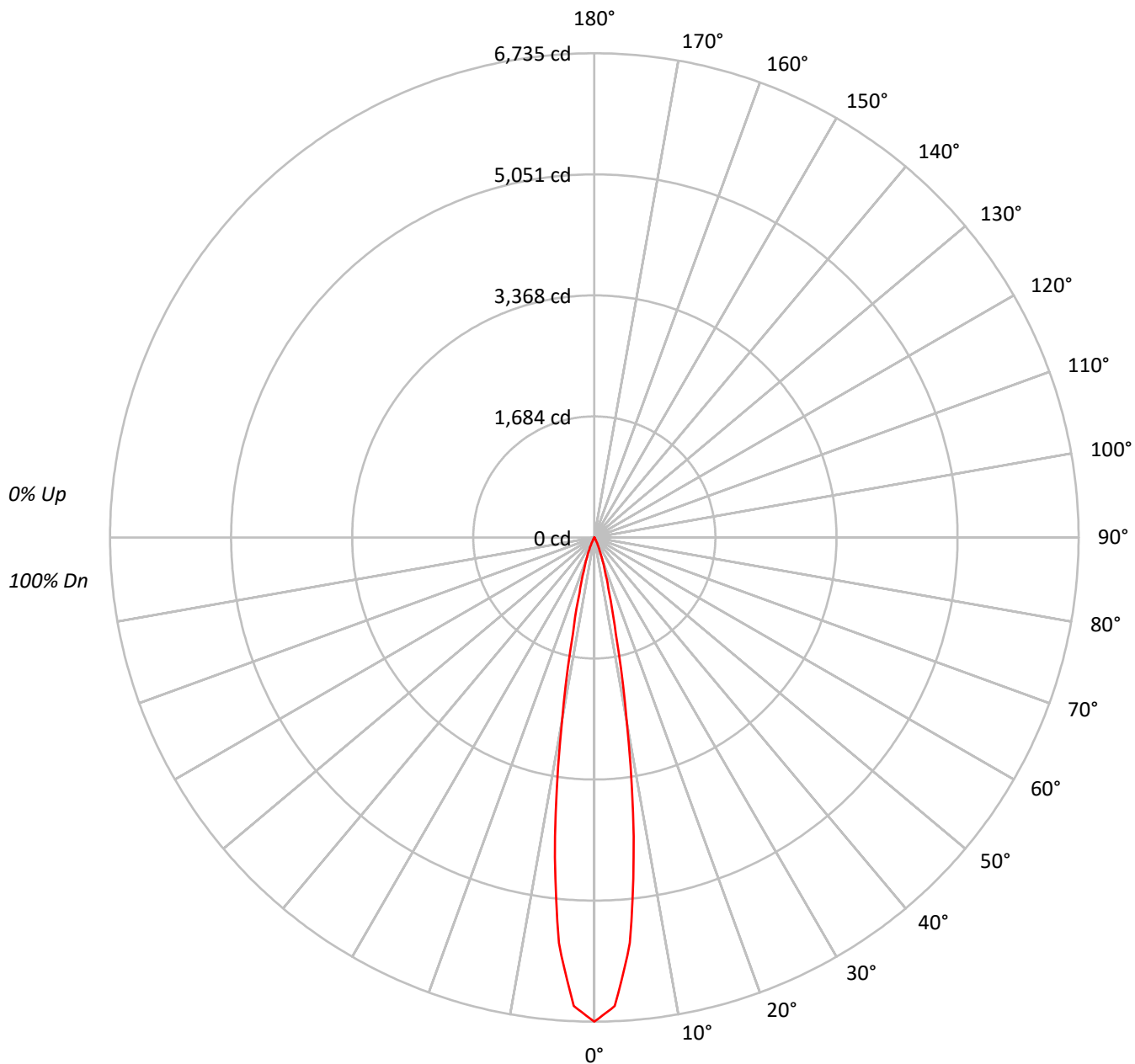
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432098

CATALOG NUMBER: LAM4B108R159027DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P432098

CATALOG NUMBER: LAM4B108R159027DE010x1MMS

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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	100			100
3	110	106	103	101	108	105	102	100		103	100	98			100	99	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			95
6	103	98	95	92	102	98	94	92		96	94	92			95	93	91			94
7	101	96	93	90	100	96	92	90		95	92	90			94	91	89			93
8	99	94	91	89	99	94	91	89		93	90	88			92	90	88			91
9	98	92	89	87	97	92	89	87		91	89	87			91	88	87			90
10	96	91	88	86	95	91	88	86		90	87	85			89	87	85			89

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1084986
5°	915686
10°	420686
15°	131178
20°	53456
25°	17545
30°	5432
35°	1141
40°	294
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P432098

CATALOG NUMBER: LAM4B108R159027DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	57.6
10°-20°	260.4	34.3
20°-30°	55.2	7.3
30°-40°	5.8	0.8
40°-50°	0.2	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	752.5	99.2
0°-40°	758.3	100.0
0°-60°	758.5	100.0
0°-90°	758.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6735	
5°	5662	437
15°	786	260
25°	99	55
35°	6	6
45°	0	0
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P432098

CATALOG NUMBER: LAM4B108R159027DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	6734.7
2.5°	6521.9
5°	5662.2
7.5°	4191.7
10°	2571.6
12.5°	1372.2
15°	786.5
17.5°	494.0
20°	311.8
22.5°	183.9
25°	98.7
27.5°	55.7
30°	29.2
32.5°	14.8
35°	5.8
37.5°	3.1
40°	1.4
42.5°	0.3
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)