

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: P432399

Luminaire Tested: **LAM4B208R109050DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B208R109050DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1803.4 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

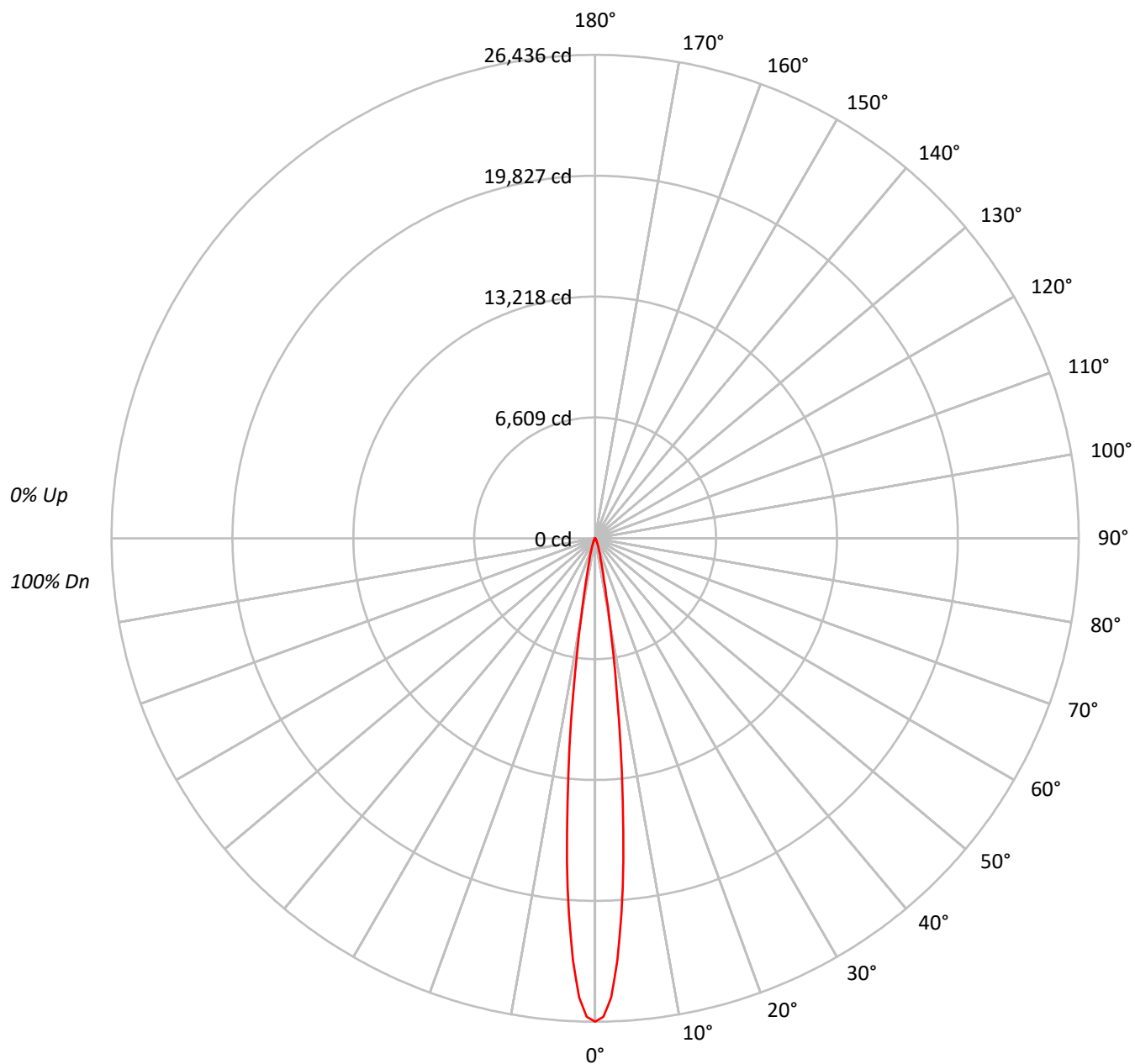
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432399

CATALOG NUMBER: LAM4B208R109050DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P432399

CATALOG NUMBER: LAM4B208R109050DE010x1MW

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	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	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		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13042982
5°	8761174
10°	2235972
15°	578821
20°	259372
25°	123357
30°	66200
35°	38487
40°	29949
45°	16188
50°	13356
55°	9978
60°	11446
65°	6771
70°	8367
75°	11056
80°	0
85°	0



TEST NUMBER: P432399

CATALOG NUMBER: LAM4B208R109050DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.7	67.4
10°-20°	387.1	21.5
20°-30°	113.0	6.3
30°-40°	43.0	2.4
40°-50°	20.5	1.1
50°-60°	12.3	0.7
60°-70°	6.5	0.4
70°-80°	5.4	0.3
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°	1715.8	95.1
0°-40°	1758.9	97.5
0°-60°	1791.6	99.3
0°-90°	1803.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26436	
5°	17690	###
15°	1133	387
25°	227	113
35°	64	43
45°	23	20
55°	12	12
65°	6	6
75°	6	5
85°	0	0
90°	0	



TEST NUMBER: P432399

CATALOG NUMBER: LAM4B208R109050DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	26436.0
1°	26180.3
2°	25122.6
3°	23106.1
4°	20613.0
5°	17689.9
6°	14458.7
7°	11477.5
8°	8571.8
9°	6247.2
10°	4463.1
11°	3161.4
12°	2342.0
13°	1778.3
14°	1412.2
15°	1133.2
17.5°	738.0
20°	494.0
22.5°	331.2
25°	226.6
27.5°	156.9
30°	116.2
32.5°	81.4
35°	63.9
37.5°	52.3
40°	46.5
42.5°	34.9
45°	23.2
47.5°	17.4
50°	17.4
52.5°	17.4
55°	11.6
57.5°	11.6
60°	11.6
62.5°	5.8
65°	5.8
67.5°	5.8
70°	5.8
72.5°	5.8
75°	5.8
77.5°	5.8
80°	0.0
82.5°	0.0



TEST NUMBER: P432399

CATALOG NUMBER: LAM4B208R109050DE010x1MW

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)