

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: P432432

Luminaire Tested: **LAM4B208R209024DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432432
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: LAM4B208R209024DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1409.6 lumens
Efficiency: N/A
Efficacy: 68.4 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

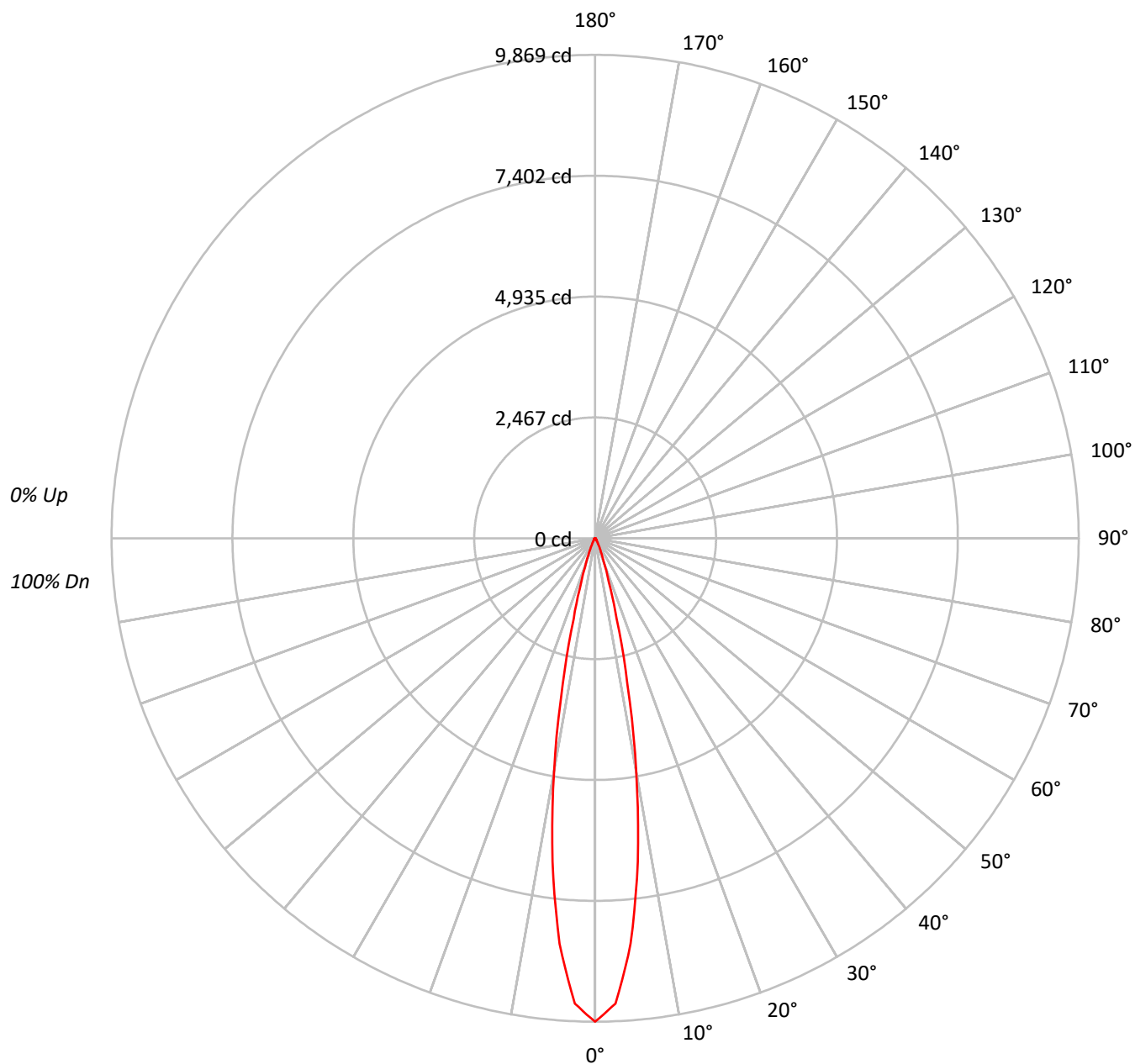
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432432

CATALOG NUMBER: LAM4B208R209024DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P432432

CATALOG NUMBER: LAM4B208R209024DE010x1MW

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97		
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94		
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83		
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81		
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80		
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4869163
5°	4115695
10°	2417431
15°	865575
20°	286411
25°	113994
30°	54521
35°	31139
40°	22478
45°	18909
50°	21799
55°	17806
60°	8881
65°	7588
70°	9377
75°	9913
80°	7387
85°	7359



TEST NUMBER: P432432

CATALOG NUMBER: LAM4B208R209024DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.5	48.3
10°-20°	530.7	37.6
20°-30°	110.1	7.8
30°-40°	34.7	2.5
40°-50°	22.3	1.6
50°-60°	17.9	1.3
60°-70°	7.1	0.5
70°-80°	5.3	0.4
80°-90°	1.1	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°	1321.3	93.7
0°-40°	1356.0	96.2
0°-60°	1396.2	99.0
0°-90°	1409.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9869	
5°	8310	680
15°	1695	531
25°	209	110
35°	52	35
45°	27	22
55°	21	18
65°	6	7
75°	5	5
85°	1	1
90°	0	



TEST NUMBER: P432432

CATALOG NUMBER: LAM4B208R209024DE010x1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	9869.0
2.5°	9507.1
5°	8310.1
7.5°	6658.2
10°	4825.3
12.5°	3044.1
15°	1694.6
17.5°	932.0
20°	545.5
22.5°	333.5
25°	209.4
27.5°	138.3
30°	95.7
32.5°	67.2
35°	51.7
37.5°	41.4
40°	34.9
42.5°	29.7
45°	27.1
47.5°	27.1
50°	28.4
52.5°	27.1
55°	20.7
57.5°	14.2
60°	9.0
62.5°	7.8
65°	6.5
67.5°	6.5
70°	6.5
72.5°	6.5
75°	5.2
77.5°	3.9
80°	2.6
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)