

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: P433288

Luminaire Tested: **LAM4B408R659727DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R659727DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2649.6 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

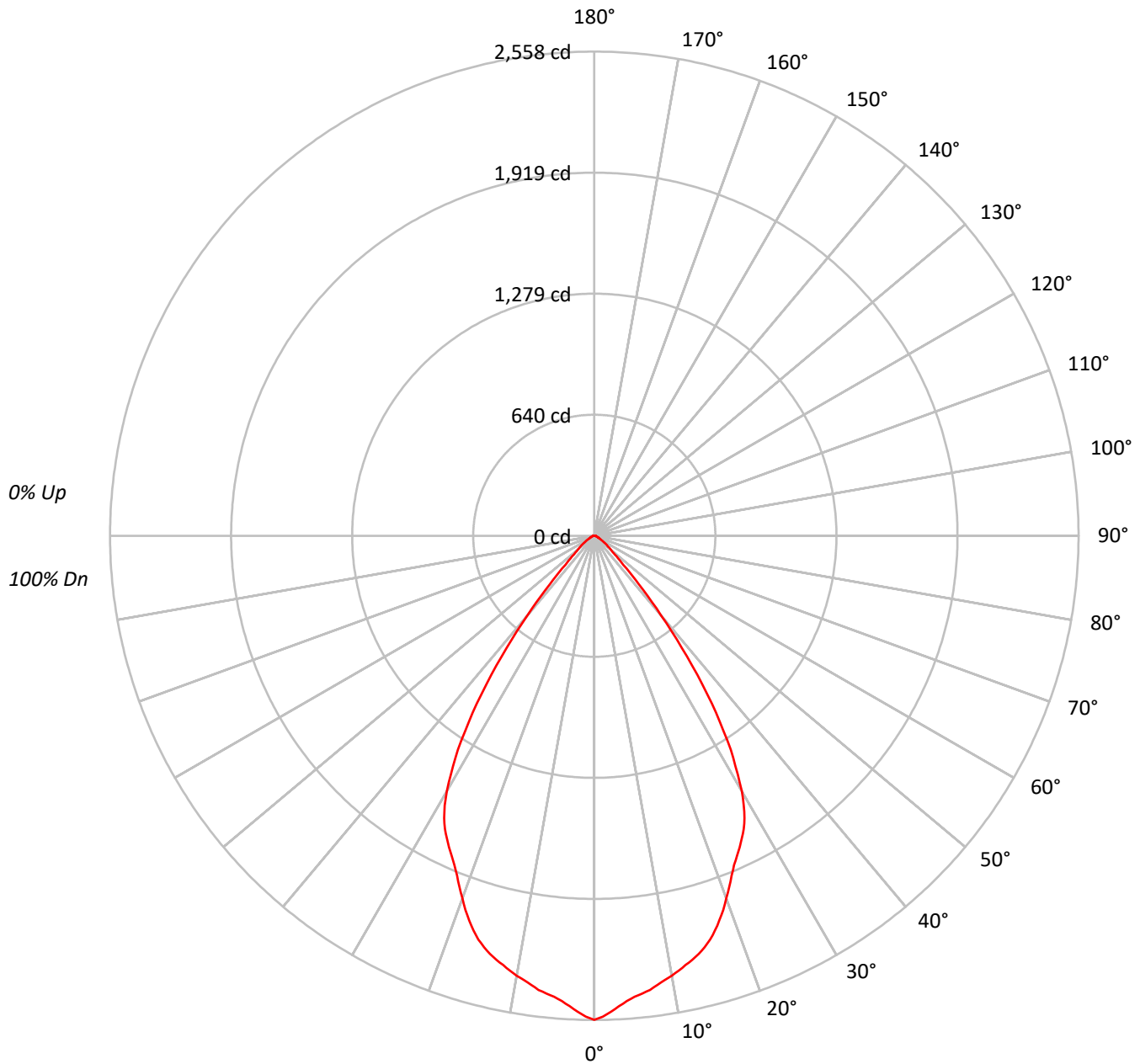
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433288

CATALOG NUMBER: LAM4B408R659727DE01021MB

Luminous Intensity Polar Plot





TEST NUMBER: P433288

CATALOG NUMBER: LAM4B408R659727DE01021MB

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	106	103		104	102	100		100	99	97		97	96	94
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	81		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	68
6	85	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	51
10	69	59	53	49		68	58	53	49		58	52	48		57	52	48		56	51	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1261868
5°	1210871
10°	1182238
15°	1149213
20°	1070249
25°	988547
30°	887373
35°	651935
40°	352108
45°	151410
50°	84355
55°	59094
60°	37990
65°	28836
70°	23802
75°	20969
80°	23298
85°	15284



TEST NUMBER: P433288

CATALOG NUMBER: LAM4B408R659727DE01021MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	8.7
10°-20°	627.8	23.7
20°-30°	832.2	31.4
30°-40°	659.1	24.9
40°-50°	196.3	7.4
50°-60°	62.9	2.4
60°-70°	25.1	0.9
70°-80°	11.9	0.5
80°-90°	3.3	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°	1691.1	63.8
0°-40°	2350.1	88.7
0°-60°	2609.3	98.5
0°-90°	2649.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2558	
5°	2445	231
15°	2250	628
25°	1816	832
35°	1082	659
45°	217	196
55°	69	63
65°	25	25
75°	11	12
85°	3	3
90°	0	



TEST NUMBER: P433288

CATALOG NUMBER: LAM4B408R659727DE01021MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2557.6
1°	2541.1
2°	2516.4
3°	2488.9
4°	2464.2
5°	2444.9
6°	2431.2
7°	2417.5
8°	2395.5
9°	2376.3
10°	2359.8
11°	2340.6
12°	2318.6
13°	2299.3
14°	2277.4
15°	2249.9
16°	2219.7
17°	2181.2
18°	2137.3
19°	2090.6
20°	2038.4
21°	1988.9
22°	1936.7
23°	1890.0
24°	1851.6
25°	1815.9
26°	1777.4
27°	1738.9
28°	1689.5
29°	1629.0
30°	1557.6
32.5°	1340.6
35°	1082.4
37.5°	802.2
40°	546.7
42.5°	346.1
45°	217.0
47.5°	145.6
50°	109.9
52.5°	87.9
55°	68.7
57.5°	52.2
60°	38.5



TEST NUMBER: P433288

CATALOG NUMBER: LAM4B408R659727DE01021MB

CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.2
70°	16.5
72.5°	13.7
75°	11.0
77.5°	8.2
80°	8.2
82.5°	5.5
85°	2.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	30.2
65°	24.7



(END OF REPORT)