

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: P432972

Luminaire Tested: **LAM4B308R659040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432972
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: LAM4B308R659040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

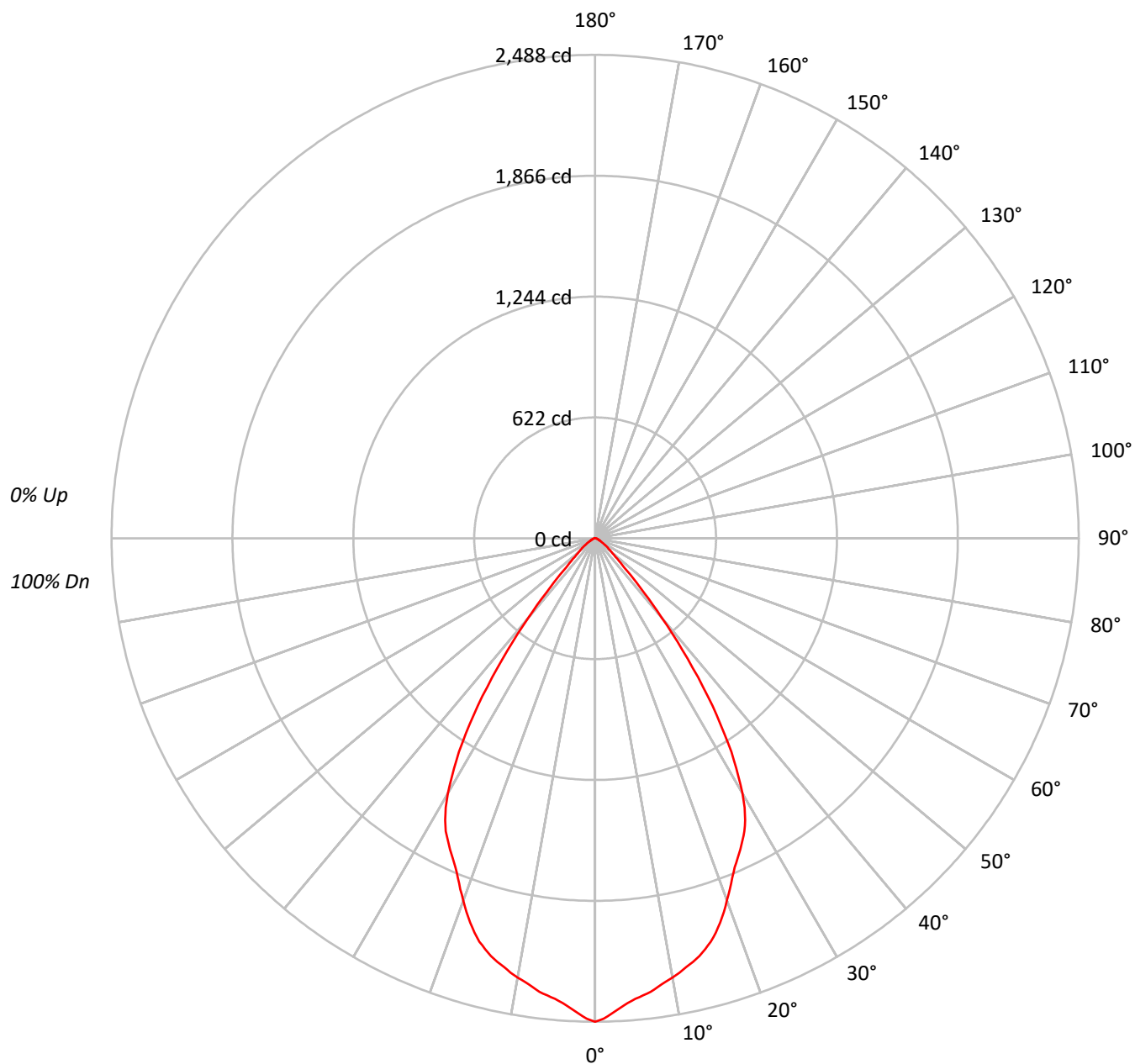
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432972

CATALOG NUMBER: LAM4B308R659040DE01021MW

Luminous Intensity Polar Plot





TEST NUMBER: P432972

CATALOG NUMBER: LAM4B308R659040DE01021MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1227726
5°	1178134
10°	1150275
15°	1118157
20°	1041319
25°	961818
30°	863389
35°	634288
40°	342576
45°	147364
50°	82052
55°	57460
60°	36905
65°	28135
70°	23081
75°	20397
80°	22730
85°	15284



TEST NUMBER: P432972

CATALOG NUMBER: LAM4B308R659040DE01021MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	8.7
10°-20°	610.8	23.7
20°-30°	809.7	31.4
30°-40°	641.2	24.9
40°-50°	191.0	7.4
50°-60°	61.1	2.4
60°-70°	24.4	0.9
70°-80°	11.6	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°	1645.3	63.8
0°-40°	2286.6	88.7
0°-60°	2538.7	98.5
0°-90°	2578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2488	
5°	2379	225
15°	2189	611
25°	1767	810
35°	1053	641
45°	211	191
55°	67	61
65°	24	24
75°	11	12
85°	3	3
90°	0	



TEST NUMBER: P432972

CATALOG NUMBER: LAM4B308R659040DE01021MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2488.4
1°	2472.4
2°	2448.3
3°	2421.6
4°	2397.5
5°	2378.8
6°	2365.5
7°	2352.1
8°	2330.7
9°	2312.0
10°	2296.0
11°	2277.3
12°	2255.9
13°	2237.2
14°	2215.8
15°	2189.1
16°	2159.7
17°	2122.2
18°	2079.5
19°	2034.0
20°	1983.3
21°	1935.1
22°	1884.4
23°	1838.9
24°	1801.5
25°	1766.8
26°	1729.3
27°	1691.9
28°	1643.8
29°	1585.0
30°	1515.5
32.5°	1304.3
35°	1053.1
37.5°	780.5
40°	531.9
42.5°	336.8
45°	211.2
47.5°	141.7
50°	106.9
52.5°	85.5
55°	66.8
57.5°	50.8
60°	37.4



TEST NUMBER: P432972

CATALOG NUMBER: LAM4B308R659040DE01021MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	18.7
70°	16.0
72.5°	13.4
75°	10.7
77.5°	8.0
80°	8.0
82.5°	5.3
85°	2.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	29.4
65°	24.1



(END OF REPORT)