

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: P433001

Luminaire Tested: **LAM4B308R709727DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R709727DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.4 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

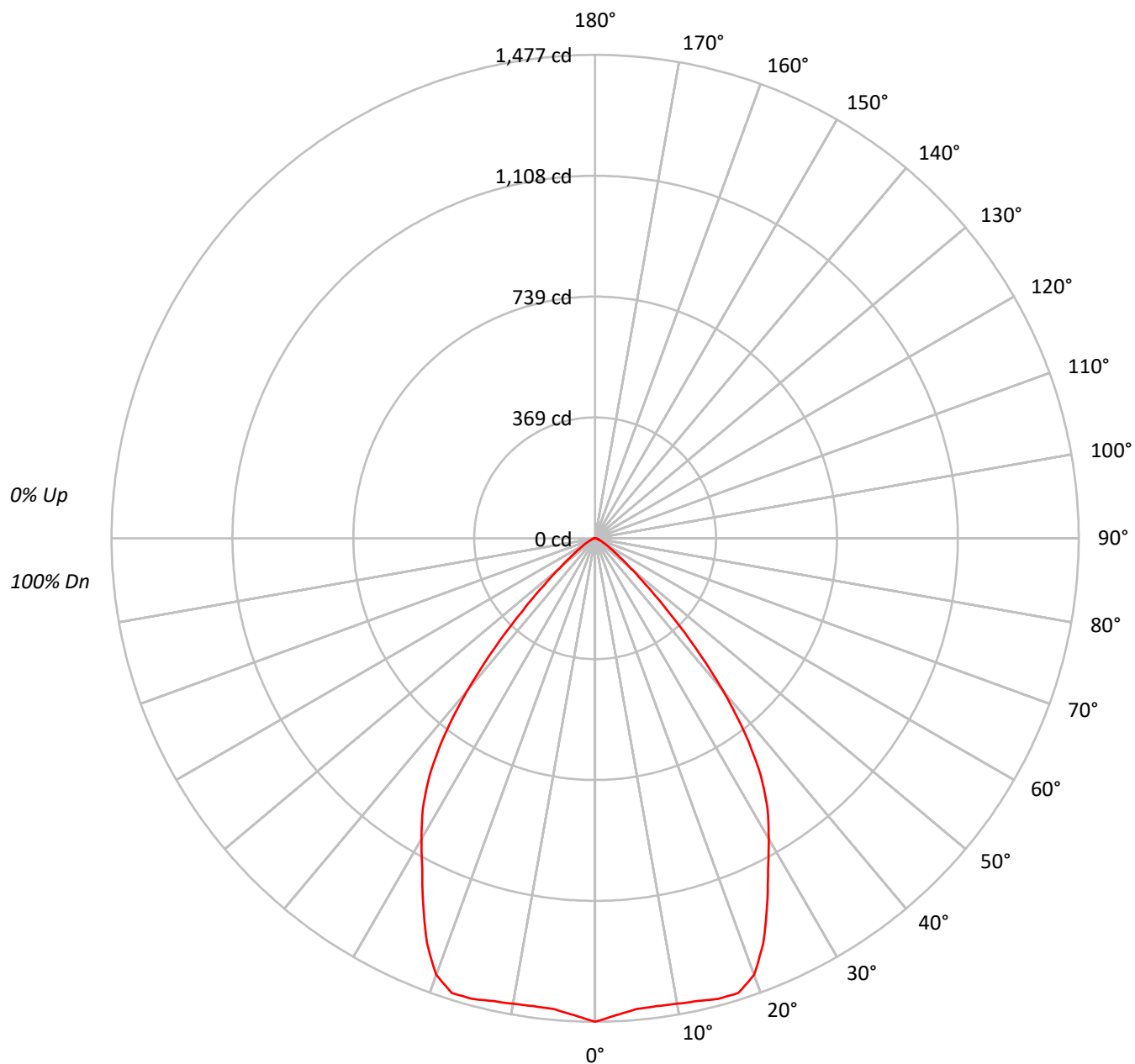
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433001

CATALOG NUMBER: LAM4B308R709727DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433001

CATALOG NUMBER: LAM4B308R709727DE01021MMS

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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	728722
5°	715161
10°	723431
15°	743906
20°	745142
25°	676016
30°	604059
35°	530510
40°	390623
45°	218813
50°	107689
55°	60299
60°	36609
65°	24049
70°	17888
75°	15822
80°	11649
85°	11888



TEST NUMBER: P433001

CATALOG NUMBER: LAM4B308R709727DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	6.9
10°-20°	410.4	20.4
20°-30°	569.5	28.3
30°-40°	535.8	26.7
40°-50°	255.8	12.7
50°-60°	67.6	3.4
60°-70°	21.3	1.1
70°-80°	8.7	0.4
80°-90°	2.2	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°	1117.9	55.6
0°-40°	1653.7	82.3
0°-60°	1977.1	98.4
0°-90°	2009.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1477	
5°	1444	138
15°	1456	410
25°	1242	569
35°	881	536
45°	314	256
55°	70	68
65°	21	21
75°	8	9
85°	2	2
90°	0	



TEST NUMBER: P433001

CATALOG NUMBER: LAM4B308R709727DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1477.0
2.5°	1458.4
5°	1444.0
7.5°	1441.9
10°	1444.0
12.5°	1448.1
15°	1456.4
17.5°	1456.4
20°	1419.2
22.5°	1340.9
25°	1241.8
27.5°	1142.8
30°	1060.3
32.5°	979.9
35°	880.8
37.5°	752.9
40°	606.5
42.5°	451.8
45°	313.6
47.5°	208.3
50°	140.3
52.5°	97.0
55°	70.1
57.5°	49.5
60°	37.1
62.5°	26.8
65°	20.6
67.5°	14.4
70°	12.4
72.5°	10.3
75°	8.3
77.5°	6.2
80°	4.1
82.5°	4.1
85°	2.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)