

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: P434261

Luminaire Tested: **LAMR4B408R109030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434261
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: LAMR4B408R109030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118.1 lumens
Efficiency: N/A
Efficacy: 75.7 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

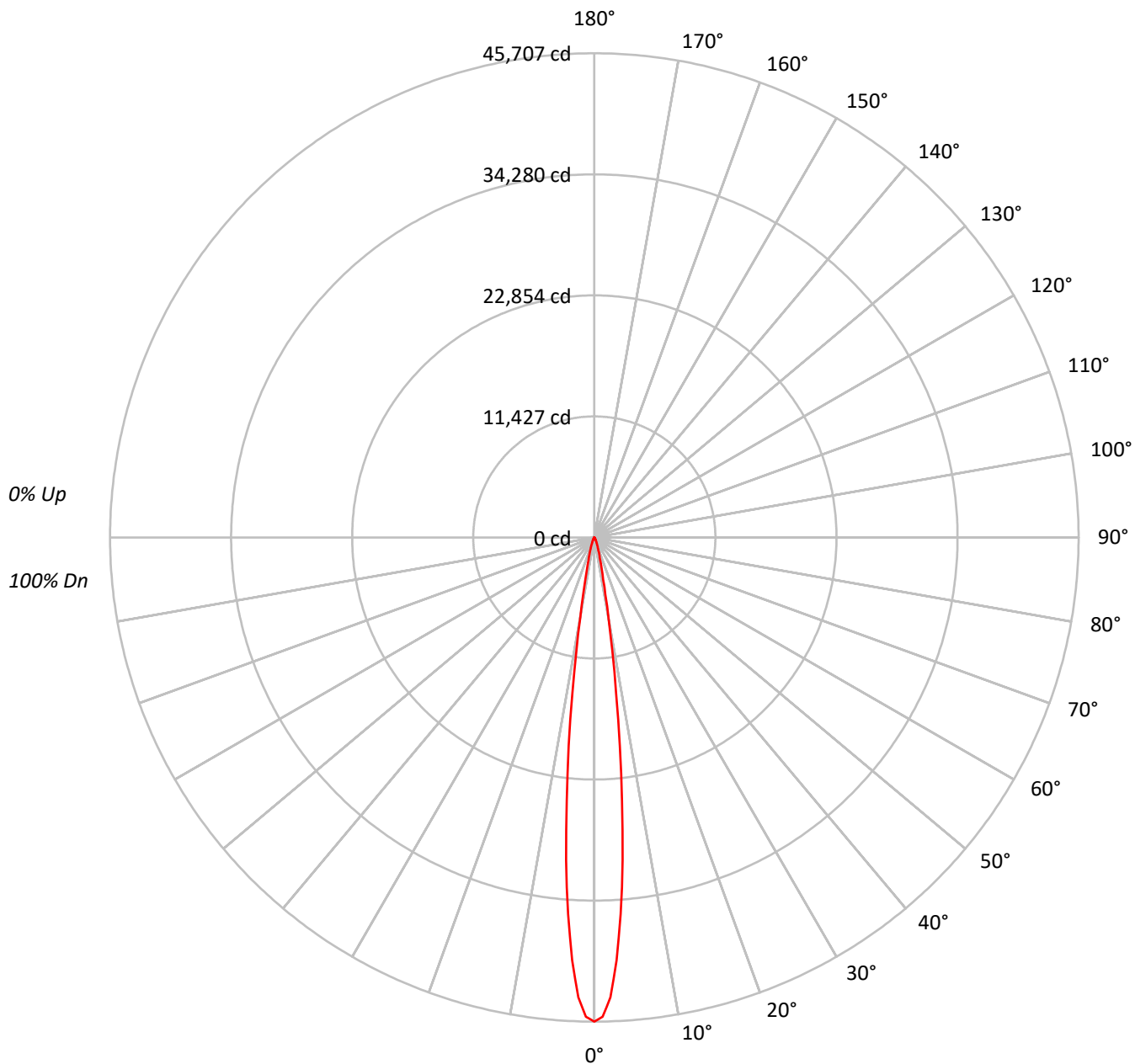
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434261

CATALOG NUMBER: LAMR4B408R109030DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P434261

CATALOG NUMBER: LAMR4B408R109030DE01021MMS

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°	22550800
5°	15147704
10°	3865945
15°	1000779
20°	448440
25°	213344
30°	114511
35°	66555
40°	51783
45°	28049
50°	23104
55°	17290
60°	19834
65°	11674
70°	14425
75°	19063
80°	0
85°	0



TEST NUMBER: P434261

CATALOG NUMBER: LAMR4B408R109030DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2101.9	67.4
10°-20°	669.2	21.5
20°-30°	195.5	6.3
30°-40°	74.4	2.4
40°-50°	35.4	1.1
50°-60°	21.3	0.7
60°-70°	11.1	0.4
70°-80°	9.2	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°	2966.7	95.1
0°-40°	3041.0	97.5
0°-60°	3097.7	99.3
0°-90°	3118.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	45707	
5°	30585	###
15°	1959	669
25°	392	195
35°	110	74
45°	40	35
55°	20	21
65°	10	11
75°	10	9
85°	0	0
90°	0	



TEST NUMBER: P434261

CATALOG NUMBER: LAMR4B408R109030DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	45706.8
1°	45264.7
2°	43436.1
3°	39949.5
4°	35639.1
5°	30585.1
6°	24998.6
7°	19844.1
8°	14820.3
9°	10801.2
10°	7716.6
11°	5465.9
12°	4049.2
13°	3074.6
14°	2441.6
15°	1959.3
17.5°	1276.1
20°	854.1
22.5°	572.7
25°	391.9
27.5°	271.3
30°	201.0
32.5°	140.7
35°	110.5
37.5°	90.4
40°	80.4
42.5°	60.3
45°	40.2
47.5°	30.1
50°	30.1
52.5°	30.1
55°	20.1
57.5°	20.1
60°	20.1
62.5°	10.0
65°	10.0
67.5°	10.0
70°	10.0
72.5°	10.0
75°	10.0
77.5°	10.0
80°	0.0
82.5°	0.0



TEST NUMBER: P434261

CATALOG NUMBER: LAMR4B408R109030DE01021MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)