

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: P434358

Luminaire Tested: **LAMR4B408R309030DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R309030DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

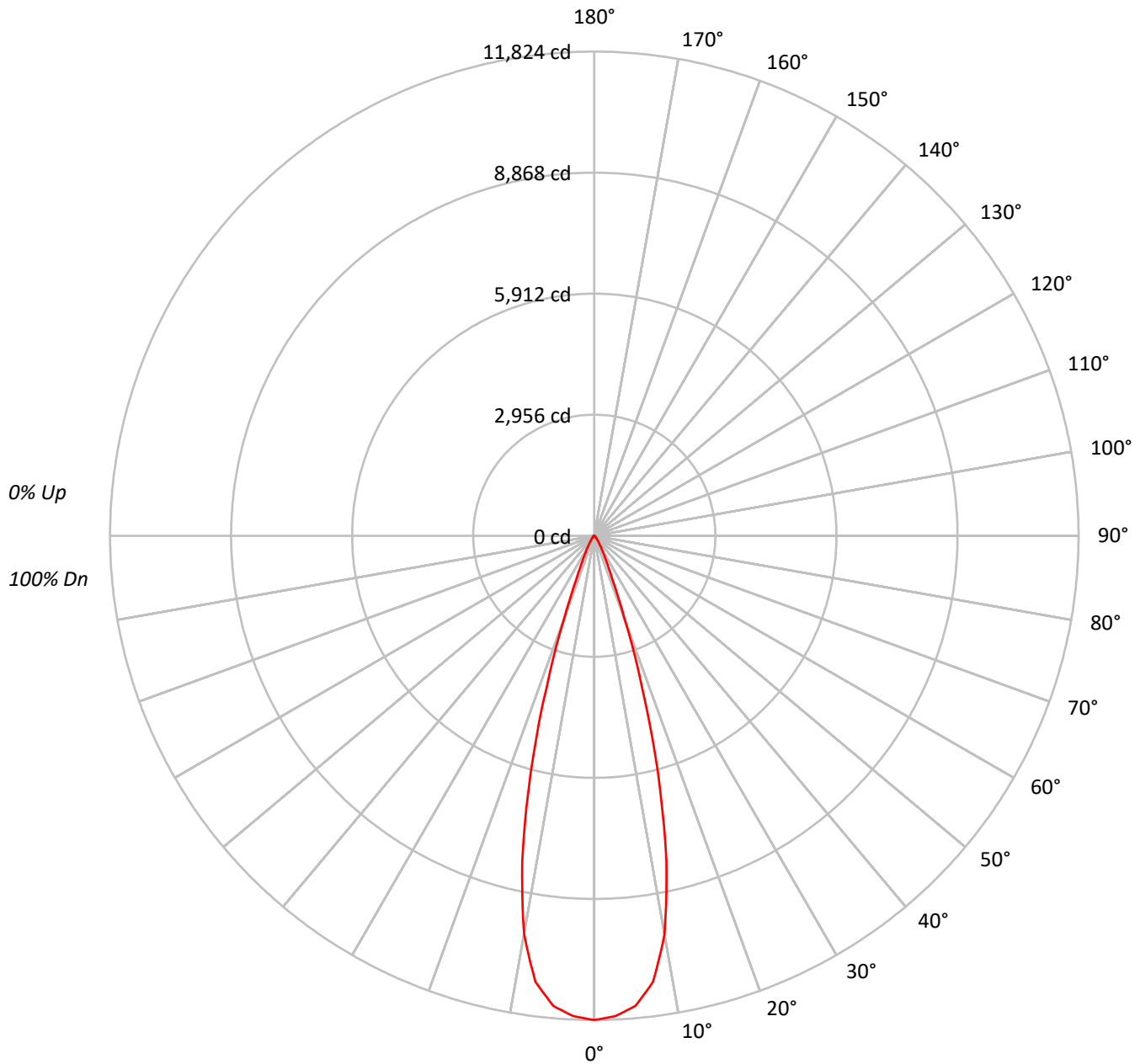
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434358

CATALOG NUMBER: LAMR4B408R309030DE01021MW

Luminous Intensity Polar Plot





TEST NUMBER: P434358

CATALOG NUMBER: LAMR4B408R309030DE01021MW

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	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93		
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87		
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5833868
5°	5706434
10°	4947784
15°	3066646
20°	1123961
25°	375734
30°	184414
35°	91972
40°	57064
45°	36213
50°	25790
55°	20988
60°	18058
65°	14243
70°	17599
75°	17538
80°	17332
85°	17549



TEST NUMBER: P434358

CATALOG NUMBER: LAMR4B408R309030DE01021MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.1	32.6
10°-20°	1585.4	49.2
20°-30°	386.5	12.0
30°-40°	105.9	3.3
40°-50°	42.6	1.3
50°-60°	22.8	0.7
60°-70°	13.6	0.4
70°-80°	10.5	0.3
80°-90°	2.5	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°	3022.0	93.9
0°-40°	3127.9	97.1
0°-60°	3193.3	99.2
0°-90°	3219.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11824	
5°	11522	###
15°	6004	1585
25°	690	387
35°	153	106
45°	52	43
55°	24	23
65°	12	14
75°	9	10
85°	3	3
90°	0	



TEST NUMBER: P434358

CATALOG NUMBER: LAMR4B408R309030DE01021MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	11824.3
2.5°	11744.9
5°	11522.0
7.5°	10990.6
10°	9876.0
12.5°	8129.2
15°	6003.8
17.5°	3869.2
20°	2140.7
22.5°	1142.1
25°	690.2
27.5°	467.2
30°	323.7
32.5°	219.9
35°	152.7
37.5°	113.0
40°	88.6
42.5°	67.2
45°	51.9
47.5°	42.8
50°	33.6
52.5°	30.5
55°	24.4
57.5°	21.4
60°	18.3
62.5°	15.3
65°	12.2
67.5°	12.2
70°	12.2
72.5°	12.2
75°	9.2
77.5°	9.2
80°	6.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)