

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: P431571

Luminaire Tested: **LAMR4B312R309027DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431571
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: LAMR4B312R309027DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

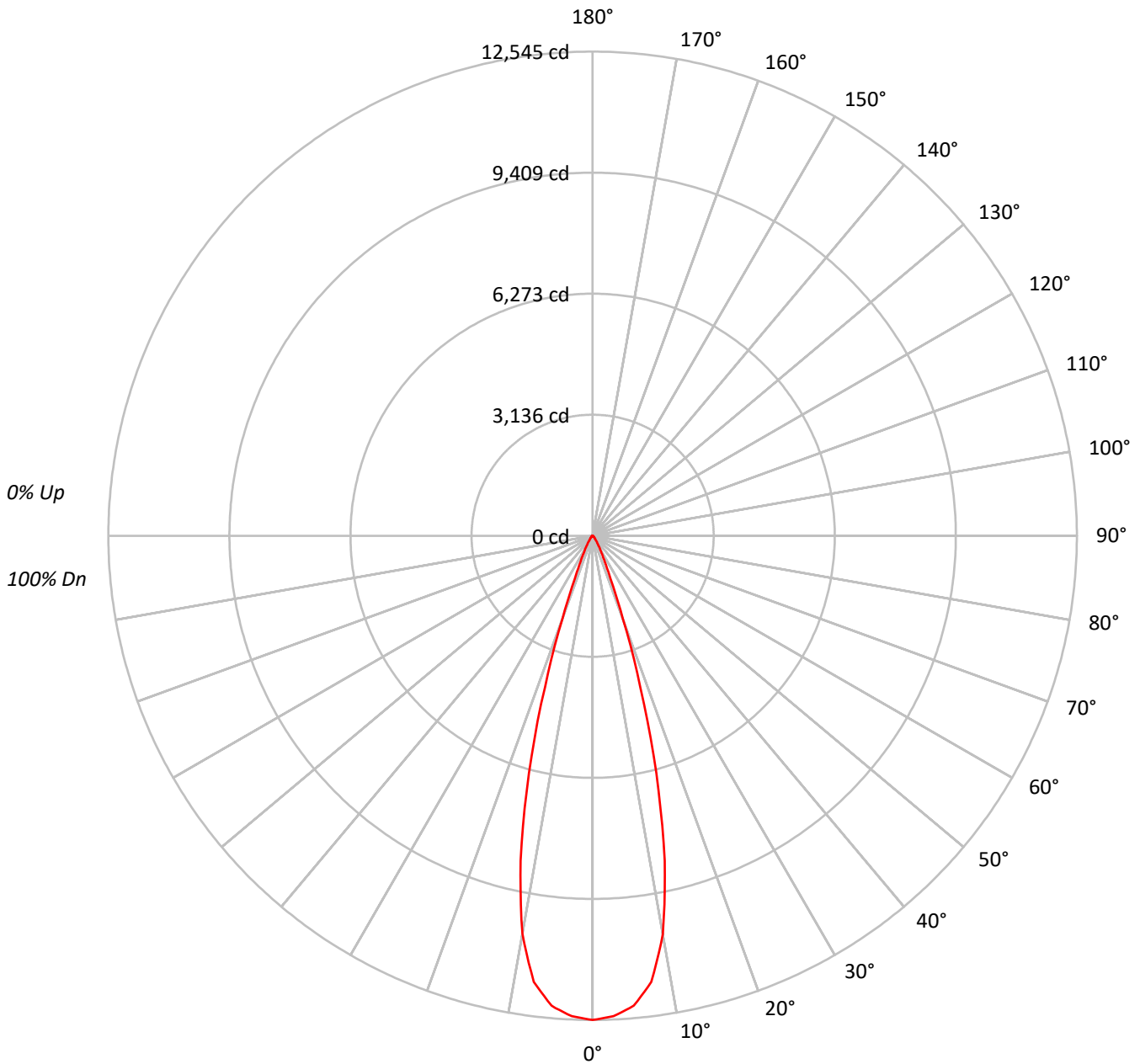
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431571

CATALOG NUMBER: LAMR4B312R309027DE01021MW

Luminous Intensity Polar Plot





TEST NUMBER: P431571

CATALOG NUMBER: LAMR4B312R309027DE01021MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	6189348
5°	6054159
10°	5249281
15°	3253490
20°	1192479
25°	398598
30°	195637
35°	97573
40°	60542
45°	38446
50°	27325
55°	22279
60°	19143
65°	15177
70°	18753
75°	18491
80°	18468
85°	18115



TEST NUMBER: P431571

CATALOG NUMBER: LAMR4B312R309027DE01021MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1114.1	32.6
10°-20°	1682.0	49.2
20°-30°	410.1	12.0
30°-40°	112.3	3.3
40°-50°	45.2	1.3
50°-60°	24.2	0.7
60°-70°	14.5	0.4
70°-80°	11.1	0.3
80°-90°	2.6	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°	3206.1	93.9
0°-40°	3318.4	97.1
0°-60°	3387.8	99.2
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12545	
5°	12224	###
15°	6370	1682
25°	732	410
35°	162	112
45°	55	45
55°	26	24
65°	13	14
75°	10	11
85°	3	3
90°	0	



TEST NUMBER: P431571

CATALOG NUMBER: LAMR4B312R309027DE01021MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	12544.8
2.5°	12460.6
5°	12224.1
7.5°	11660.3
10°	10477.8
12.5°	8624.6
15°	6369.6
17.5°	4104.9
20°	2271.2
22.5°	1211.7
25°	732.2
27.5°	495.7
30°	343.4
32.5°	233.3
35°	162.0
37.5°	119.9
40°	94.0
42.5°	71.3
45°	55.1
47.5°	45.4
50°	35.6
52.5°	32.4
55°	25.9
57.5°	22.7
60°	19.4
62.5°	16.2
65°	13.0
67.5°	13.0
70°	13.0
72.5°	13.0
75°	9.7
77.5°	9.7
80°	6.5
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)