

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: P431727

Luminaire Tested: **LAMR4B312R609050DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R609050DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.3 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

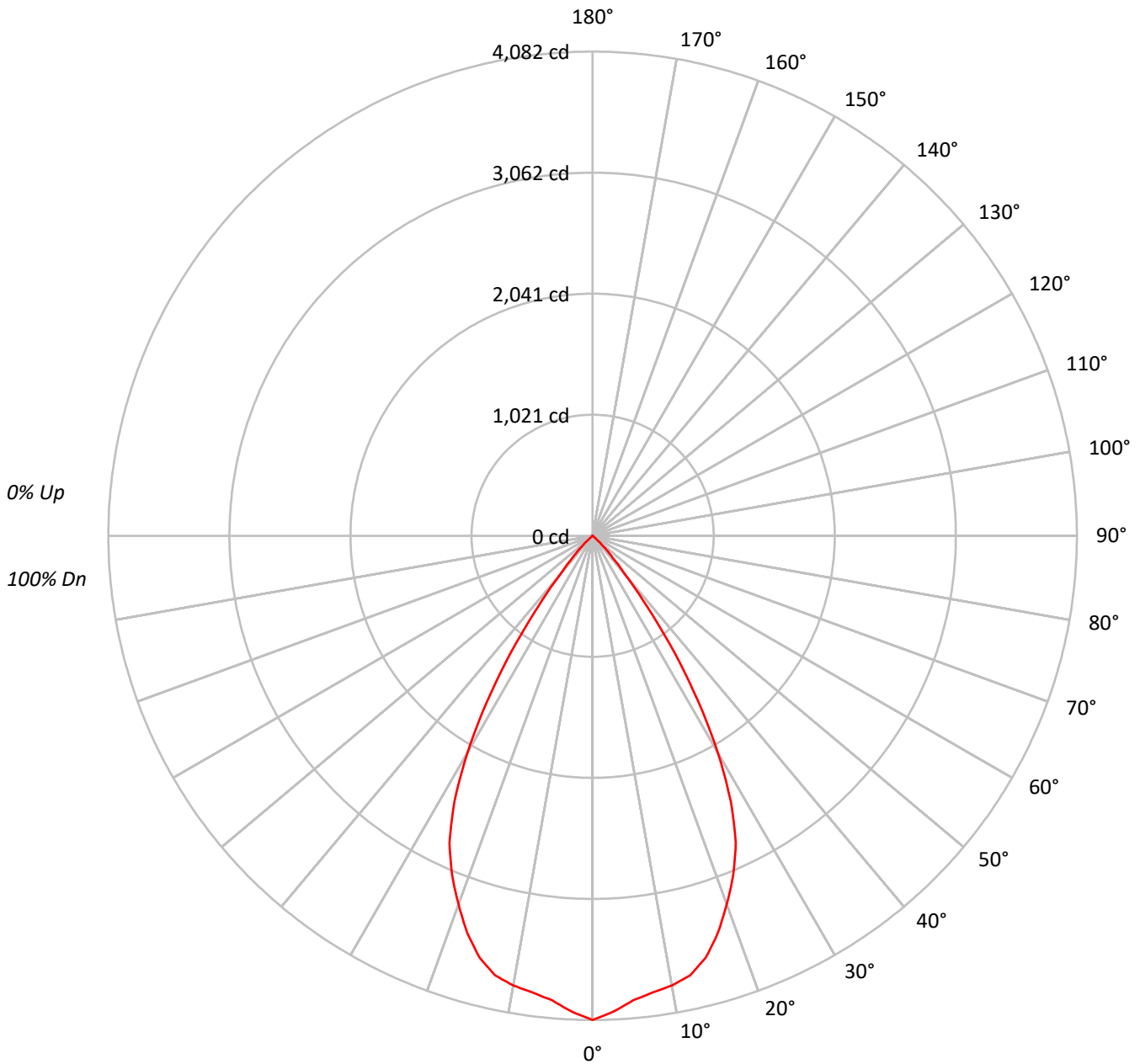
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431727

CATALOG NUMBER: LAMR4B312R609050DE01021MW

Luminous Intensity Polar Plot





TEST NUMBER: P431727

CATALOG NUMBER: LAMR4B312R609050DE01021MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																											
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																											
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82																											
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77																											
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72																											
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67																											
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																											
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59																											
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																											
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2014222
5°	1946685
10°	1928564
15°	1880707
20°	1735636
25°	1554325
30°	1202763
35°	720538
40°	276818
45°	101173
50°	3991
55°	3011
60°	3454
65°	1985
70°	2452
75°	3241
80°	4830
85°	0



TEST NUMBER: P431727

CATALOG NUMBER: LAMR4B312R609050DE01021MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	10.5
10°-20°	1024.3	28.8
20°-30°	1277.9	36.0
30°-40°	744.4	21.0
40°-50°	124.3	3.5
50°-60°	3.3	0.1
60°-70°	2.3	0.1
70°-80°	1.8	0.1
80°-90°	0.7	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°	2675.4	75.3
0°-40°	3419.8	96.3
0°-60°	3547.4	99.9
0°-90°	3552.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4082	
5°	3931	373
15°	3682	1024
25°	2855	1278
35°	1196	744
45°	145	124
55°	4	3
65°	2	2
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P431727

CATALOG NUMBER: LAMR4B312R609050DE01021MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4082.5
2.5°	4015.2
5°	3930.6
7.5°	3882.3
10°	3849.5
12.5°	3795.9
15°	3682.0
17.5°	3511.1
20°	3305.7
22.5°	3096.8
25°	2855.2
27.5°	2520.3
30°	2111.2
32.5°	1653.7
35°	1196.3
37.5°	754.4
40°	429.8
42.5°	252.0
45°	145.0
47.5°	50.1
50°	5.2
52.5°	3.5
55°	3.5
57.5°	3.5
60°	3.5
62.5°	3.5
65°	1.7
67.5°	1.7
70°	1.7
72.5°	1.7
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)