

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: P431708

Luminaire Tested: **LAMR4B312R559730DE01021MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-898-142)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B312R559730DE01021MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 55 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3395.9 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.81  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

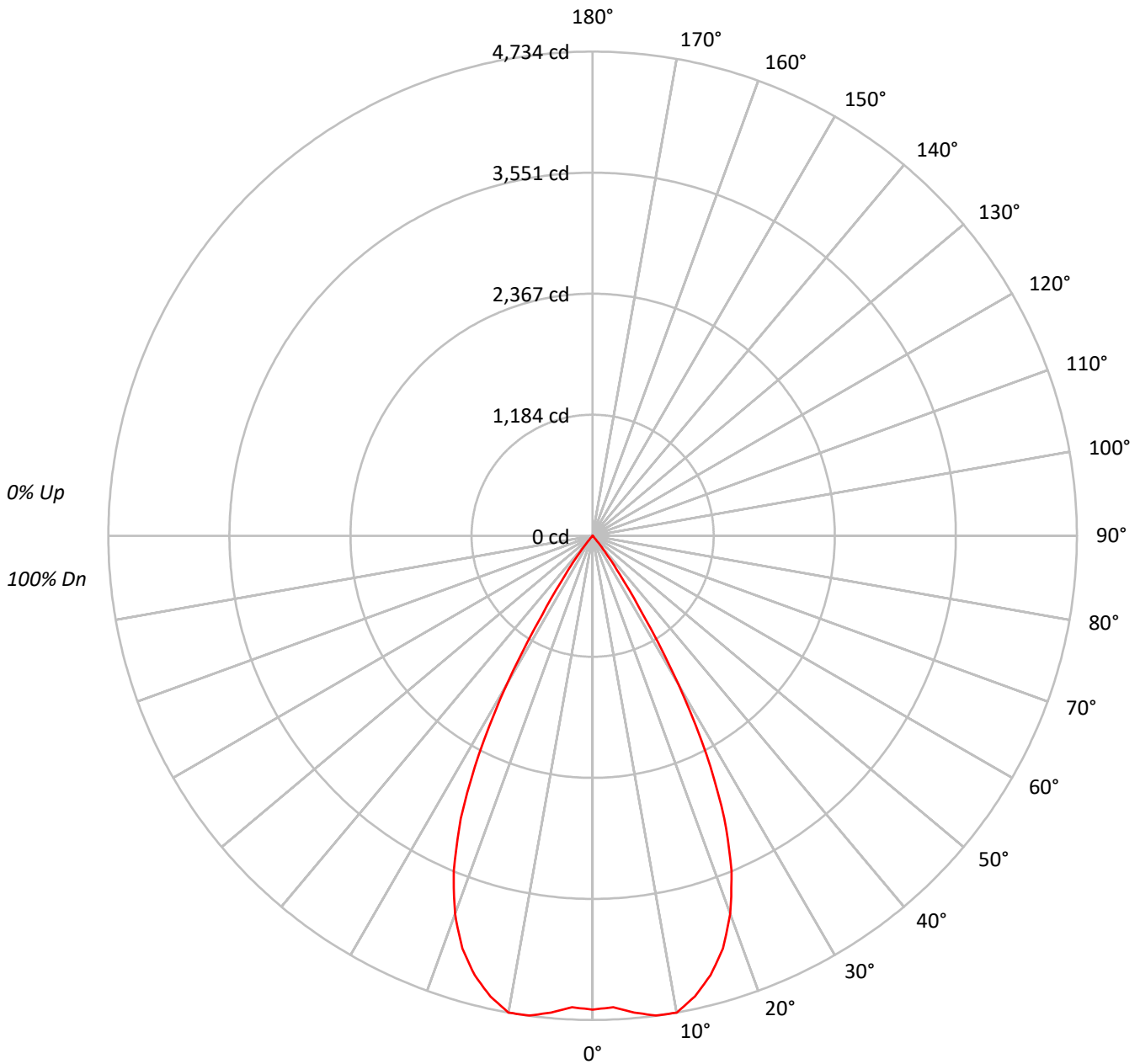
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P431708

CATALOG NUMBER: LAMR4B312R559730DE01021MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P431708

CATALOG NUMBER: LAMR4B312R559730DE01021MMS

**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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	85	85	85
4	100	94	89	85	99	92	88	85	90	87	84	88	85	83	87	84	82	80	80	80	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59	59	59	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2285531
5°	2317490
10°	2371740
15°	2272581
20°	2064786
25°	1659337
30°	955225
35°	277241
40°	42379
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P431708

CATALOG NUMBER: LAMR4B312R559730DE01021MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.7	13.2
10°-20°	1237.9	36.5
20°-30°	1336.1	39.3
30°-40°	365.5	10.8
40°-50°	7.7	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	3022.7	89.0
0°-40°	3388.2	99.8
0°-60°	3395.9	100.0
0°-90°	3395.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4632	
5°	4679	449
15°	4449	1238
25°	3048	1336
35°	460	365
45°	0	8
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P431708

CATALOG NUMBER: LAMR4B312R559730DE01021MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4632.4
2.5°	4613.6
5°	4679.3
7.5°	4731.0
10°	4734.1
12.5°	4613.6
15°	4449.2
17.5°	4231.6
20°	3932.6
22.5°	3547.5
25°	3048.1
27.5°	2410.9
30°	1676.7
32.5°	919.0
35°	460.3
37.5°	197.3
40°	65.8
42.5°	9.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)