

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: P431613

Luminaire Tested: **LAMR4B312R359730DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R359730DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

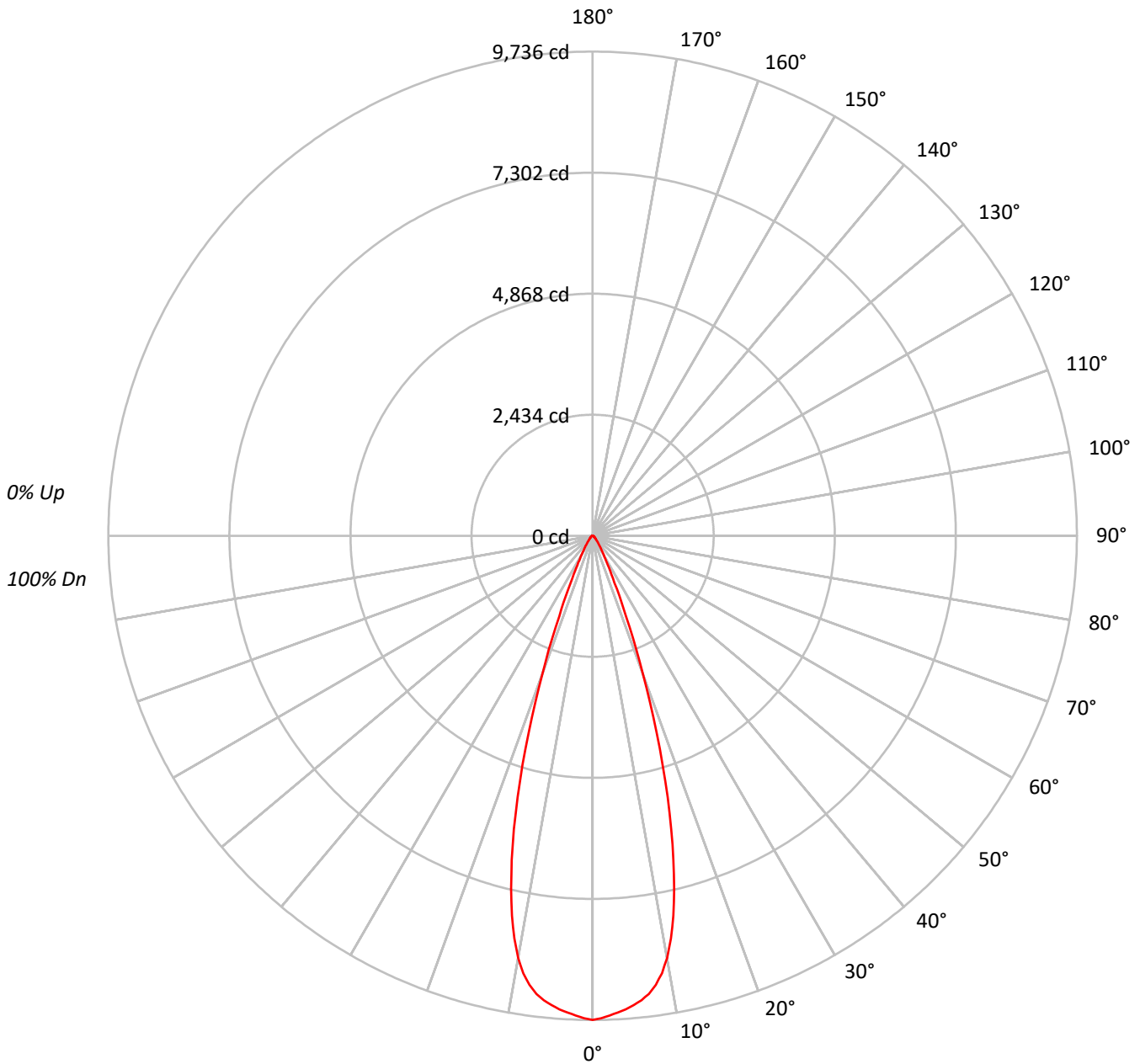
Lumens per Lamp: N/A
Luminaire Lumens: 3356.7 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96																											
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																											
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87																											
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84																											
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																											
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78																											
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75																											
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																											
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70																											
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4803642
5°	4692925
10°	4318690
15°	3121402
20°	1542000
25°	565670
30°	255057
35°	138831
40°	86047
45°	58262
50°	43598
55°	37332
60°	32958
65°	31171
70°	28851
75°	25544
80°	28413
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.5	26.2
10°-20°	1609.1	47.9
20°-30°	560.2	16.7
30°-40°	155.3	4.6
40°-50°	67.5	2.0
50°-60°	39.1	1.2
60°-70°	26.4	0.8
70°-80°	14.5	0.4
80°-90°	4.1	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°	3049.8	90.9
0°-40°	3205.1	95.5
0°-60°	3311.7	98.7
0°-90°	3356.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9736	
5°	9476	880
15°	6111	1609
25°	1039	560
35°	230	155
45°	84	67
55°	43	39
65°	27	26
75°	13	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9736.2
1°	9702.8
2°	9652.7
3°	9602.6
4°	9545.8
5°	9475.6
6°	9388.7
7°	9281.8
8°	9118.1
9°	8907.6
10°	8620.3
11°	8252.7
12°	7808.3
13°	7287.1
14°	6715.8
15°	6111.0
16°	5466.2
17°	4818.0
18°	4166.5
19°	3538.3
20°	2936.9
22.5°	1750.8
25°	1039.1
26°	865.4
27°	721.7
28°	611.4
29°	521.2
30°	447.7
32.5°	317.4
35°	230.5
37.5°	173.7
40°	133.6
42.5°	103.6
45°	83.5
47.5°	70.2
50°	56.8
52.5°	50.1
55°	43.4
57.5°	36.8
60°	33.4
62.5°	30.1
65°	26.7
67.5°	23.4



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CANDELA DISTRIBUTION (continued):

	0°
75°	13.4
77.5°	10.0
80°	10.0
82.5°	6.7
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







70°	20.0
72.5°	16.7



(END OF REPORT)