

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: P430626

Luminaire Tested: **LAM4B312R709727DE01021MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B312R709727DE01021MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3123.9 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

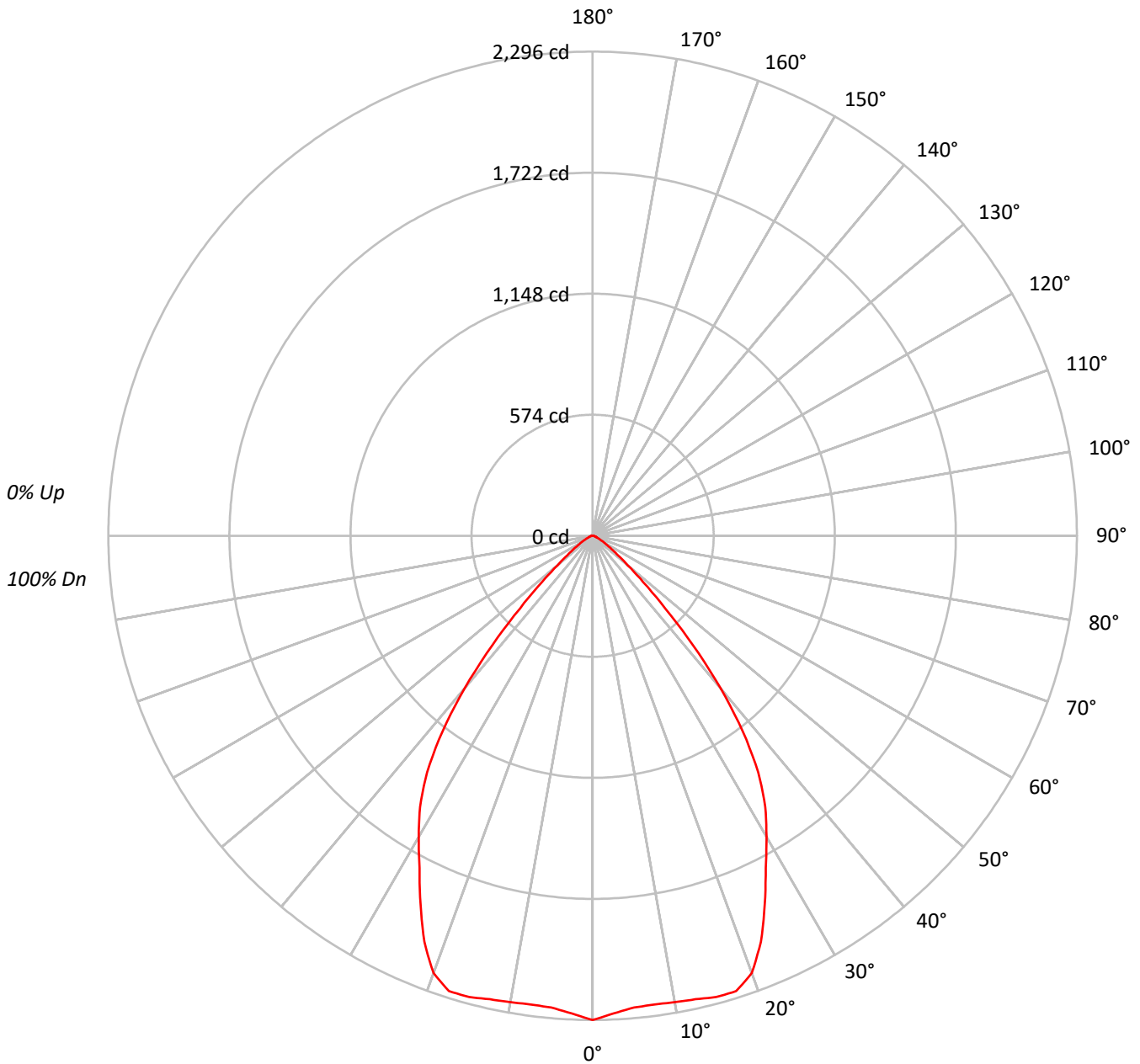
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																											
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																											
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58																											
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43																											

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

	0°
0°	1132947
5°	1111868
10°	1124724
15°	1156517
20°	1158509
25°	1051042
30°	939103
35°	824797
40°	607285
45°	340150
50°	167405
55°	93760
60°	56936
65°	37475
70°	27697
75°	24400
80°	18184
85°	18115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	6.9
10°-20°	638.0	20.4
20°-30°	885.4	28.3
30°-40°	833.0	26.7
40°-50°	397.7	12.7
50°-60°	105.1	3.4
60°-70°	33.2	1.1
70°-80°	13.5	0.4
80°-90°	3.5	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°	1738.0	55.6
0°-40°	2571.0	82.3
0°-60°	3073.8	98.4
0°-90°	3123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2296	
5°	2245	215
15°	2264	638
25°	1931	885
35°	1369	833
45°	488	398
55°	109	105
65°	32	33
75°	13	13
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2296.3
2.5°	2267.4
5°	2245.0
7.5°	2241.8
10°	2245.0
12.5°	2251.4
15°	2264.2
17.5°	2264.2
20°	2206.5
22.5°	2084.6
25°	1930.7
27.5°	1776.7
30°	1648.4
32.5°	1523.4
35°	1369.4
37.5°	1170.6
40°	942.9
42.5°	702.4
45°	487.5
47.5°	323.9
50°	218.1
52.5°	150.7
55°	109.0
57.5°	77.0
60°	57.7
62.5°	41.7
65°	32.1
67.5°	22.4
70°	19.2
72.5°	16.0
75°	12.8
77.5°	9.6
80°	6.4
82.5°	6.4
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)