

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: P430458

Luminaire Tested: **LAM4B312R359727DE01021MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430458  
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: LAM4B312R359727DE01021MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3187.1 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

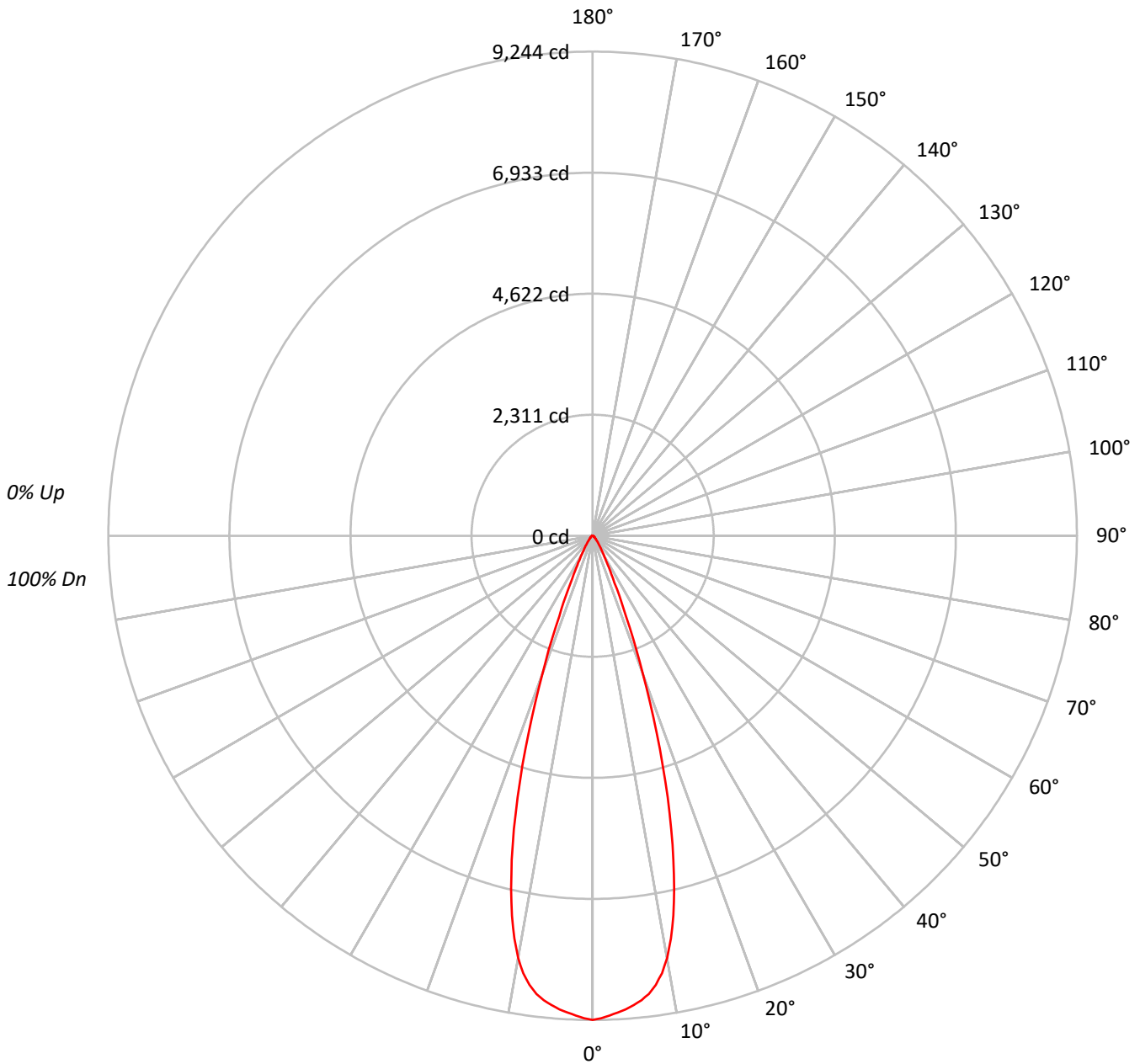
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P430458

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### Luminous Intensity Polar Plot





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

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

	0°
0°	4560899
5°	4455793
10°	4100459
15°	2963671
20°	1464084
25°	537089
30°	242182
35°	131845
40°	81731
45°	55331
50°	41372
55°	35439
60°	31280
65°	29653
70°	27408
75°	24210
80°	26992
85°	18115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.0	26.2
10°-20°	1527.8	47.9
20°-30°	531.9	16.7
30°-40°	147.4	4.6
40°-50°	64.0	2.0
50°-60°	37.1	1.2
60°-70°	25.1	0.8
70°-80°	13.8	0.4
80°-90°	3.9	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°	2895.7	90.9
0°-40°	3043.1	95.5
0°-60°	3144.3	98.7
0°-90°	3187.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9244	
5°	8997	836
15°	5802	1528
25°	987	532
35°	219	147
45°	79	64
55°	41	37
65°	25	25
75°	13	14
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9244.2
1°	9212.5
2°	9164.9
3°	9117.3
4°	9063.4
5°	8996.8
6°	8914.3
7°	8812.8
8°	8657.3
9°	8457.5
10°	8184.7
11°	7835.7
12°	7413.8
13°	6918.9
14°	6376.4
15°	5802.2
16°	5190.0
17°	4574.5
18°	3955.9
19°	3359.5
20°	2788.5
22.5°	1662.3
25°	986.6
26°	821.6
27°	685.2
28°	580.5
29°	494.9
30°	425.1
32.5°	301.4
35°	218.9
37.5°	165.0
40°	126.9
42.5°	98.3
45°	79.3
47.5°	66.6
50°	53.9
52.5°	47.6
55°	41.2
57.5°	34.9
60°	31.7
62.5°	28.6
65°	25.4
67.5°	22.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	12.7
77.5°	9.5
80°	9.5
82.5°	6.3
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







70°		19.0
72.5°		15.9



(END OF REPORT)