

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: P430794

Luminaire Tested: **LAM4B412R459727DE01021MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B412R459727DE01021MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5015.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

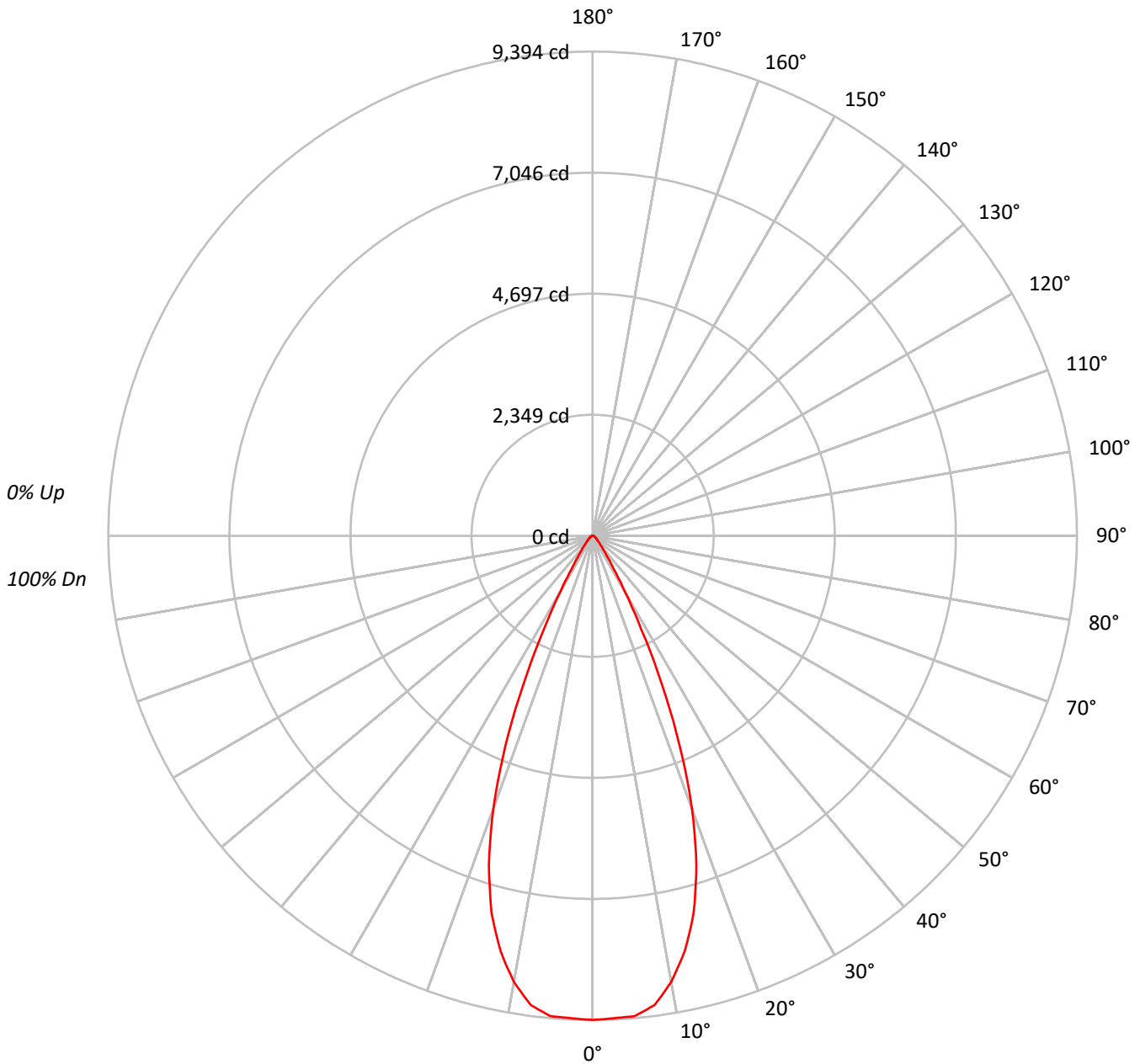
Input Watts (W): 54.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89		
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66		
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63		
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61		

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

	0°
0°	4634659
5°	4633048
10°	4403759
15°	3868321
20°	2959250
25°	1727549
30°	707062
35°	299045
40°	163012
45°	105290
50°	82206
55°	71137
60°	57627
65°	45413
70°	42122
75°	37172
80°	41482
85°	27738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	875.4	17.5
10°-20°	2061.8	41.1
20°-30°	1452.7	29.0
30°-40°	357.6	7.1
40°-50°	124.8	2.5
50°-60°	73.8	1.5
60°-70°	40.9	0.8
70°-80°	22.5	0.4
80°-90°	6.0	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°	4389.9	87.5
0°-40°	4747.5	94.7
0°-60°	4946.1	98.6
0°-90°	5015.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5015.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9394	
5°	9355	875
15°	7573	2062
25°	3173	1453
35°	496	358
45°	151	125
55°	83	74
65°	39	41
75°	20	22
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9393.7
2.5°	9369.3
5°	9354.7
7.5°	9184.4
10°	8790.1
12.5°	8254.8
15°	7573.3
17.5°	6692.4
20°	5636.2
22.5°	4424.3
25°	3173.4
27.5°	2049.1
30°	1241.1
32.5°	754.4
35°	496.5
37.5°	350.4
40°	253.1
42.5°	194.7
45°	150.9
47.5°	126.5
50°	107.1
52.5°	92.5
55°	82.7
57.5°	73.0
60°	58.4
62.5°	48.7
65°	38.9
67.5°	34.1
70°	29.2
72.5°	24.3
75°	19.5
77.5°	19.5
80°	14.6
82.5°	9.7
85°	4.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)