

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: P430745

Luminaire Tested: **LAM4B412R359727DE01021MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430745  
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: LAM4B412R359727DE01021MMS  
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: 4965.7 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

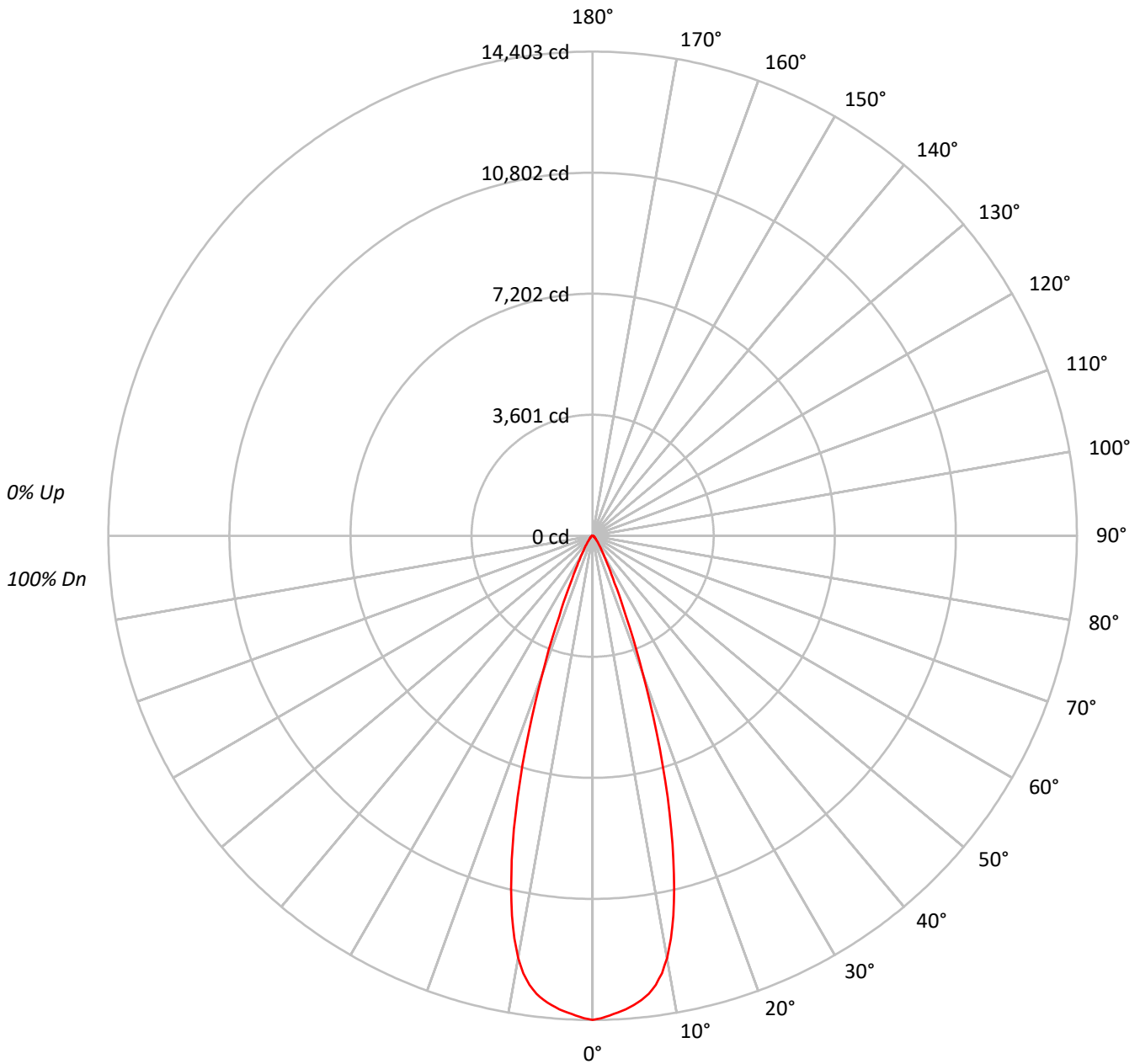
Input Watts (W): 54.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7106047
5°	6942267
10°	6388634
15°	4617539
20°	2281104
25°	836827
30°	377316
35°	205386
40°	127331
45°	86241
50°	64475
55°	55310
60°	48746
65°	46114
70°	42844
75°	37744
80°	42051
85°	27738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1302.5	26.2
10°-20°	2380.4	47.9
20°-30°	828.7	16.7
30°-40°	229.7	4.6
40°-50°	99.8	2.0
50°-60°	57.9	1.2
60°-70°	39.1	0.8
70°-80°	21.5	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°	4511.6	90.9
0°-40°	4741.3	95.5
0°-60°	4899.0	98.7
0°-90°	4965.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14403	
5°	14017	###
15°	9040	2380
25°	1537	829
35°	341	230
45°	124	100
55°	64	58
65°	40	39
75°	20	22
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14402.8
1°	14353.4
2°	14279.3
3°	14205.1
4°	14121.1
5°	14017.3
6°	13888.8
7°	13730.6
8°	13488.4
9°	13177.1
10°	12752.0
11°	12208.3
12°	11550.9
13°	10779.9
14°	9934.7
15°	9040.1
16°	8086.1
17°	7127.3
18°	6163.5
19°	5234.2
20°	4344.6
22.5°	2589.9
25°	1537.2
26°	1280.1
27°	1067.6
28°	904.5
29°	771.1
30°	662.3
32.5°	469.5
35°	341.0
37.5°	257.0
40°	197.7
42.5°	153.2
45°	123.6
47.5°	103.8
50°	84.0
52.5°	74.1
55°	64.3
57.5°	54.4
60°	49.4
62.5°	44.5
65°	39.5
67.5°	34.6



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	19.8
77.5°	14.8
80°	14.8
82.5°	9.9
85°	4.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°		29.7
72.5°		24.7



(END OF REPORT)