

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: P430316

Luminaire Tested: **LAM4B212R659730DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B212R659730DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2121.7 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

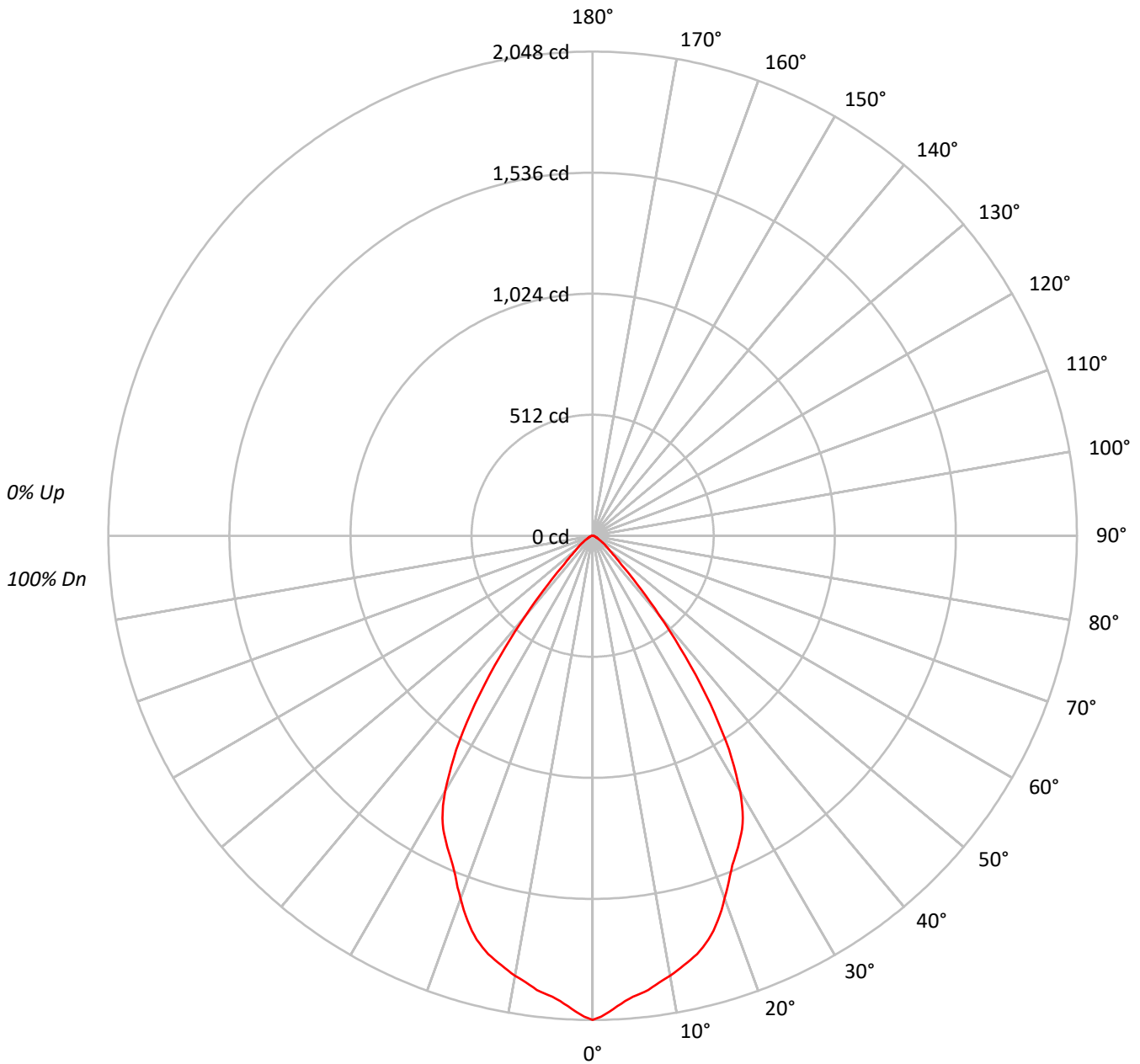
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	1010392
5°	969628
10°	946672
15°	920229
20°	856976
25°	791534
30°	710537
35°	522018
40°	281906
45°	121268
50°	67545
55°	47310
60°	30392
65°	23115
70°	19042
75°	16775
80°	18752
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.0	8.7
10°-20°	502.7	23.7
20°-30°	666.4	31.4
30°-40°	527.7	24.9
40°-50°	157.2	7.4
50°-60°	50.3	2.4
60°-70°	20.1	0.9
70°-80°	9.6	0.5
80°-90°	2.7	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°	1354.1	63.8
0°-40°	1881.8	88.7
0°-60°	2089.4	98.5
0°-90°	2121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2048	
5°	1958	185
15°	1802	503
25°	1454	666
35°	867	528
45°	174	157
55°	55	50
65°	20	20
75°	9	10
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2047.9
1°	2034.7
2°	2014.9
3°	1993.0
4°	1973.2
5°	1957.8
6°	1946.8
7°	1935.8
8°	1918.2
9°	1902.8
10°	1889.6
11°	1874.2
12°	1856.6
13°	1841.2
14°	1823.6
15°	1801.6
16°	1777.4
17°	1746.6
18°	1711.4
19°	1674.0
20°	1632.2
21°	1592.6
22°	1550.8
23°	1513.4
24°	1482.6
25°	1454.0
26°	1423.2
27°	1392.4
28°	1352.8
29°	1304.4
30°	1247.2
32.5°	1073.5
35°	866.7
37.5°	642.3
40°	437.7
42.5°	277.2
45°	173.8
47.5°	116.6
50°	88.0
52.5°	70.4
55°	55.0
57.5°	41.8
60°	30.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	15.4
70°	13.2
72.5°	11.0
75°	8.8
77.5°	6.6
80°	6.6
82.5°	4.4
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		24.2
65°		19.8



(END OF REPORT)