

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: P430127

Luminaire Tested: **LAM4B212R309024DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B212R309024DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2050.3 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

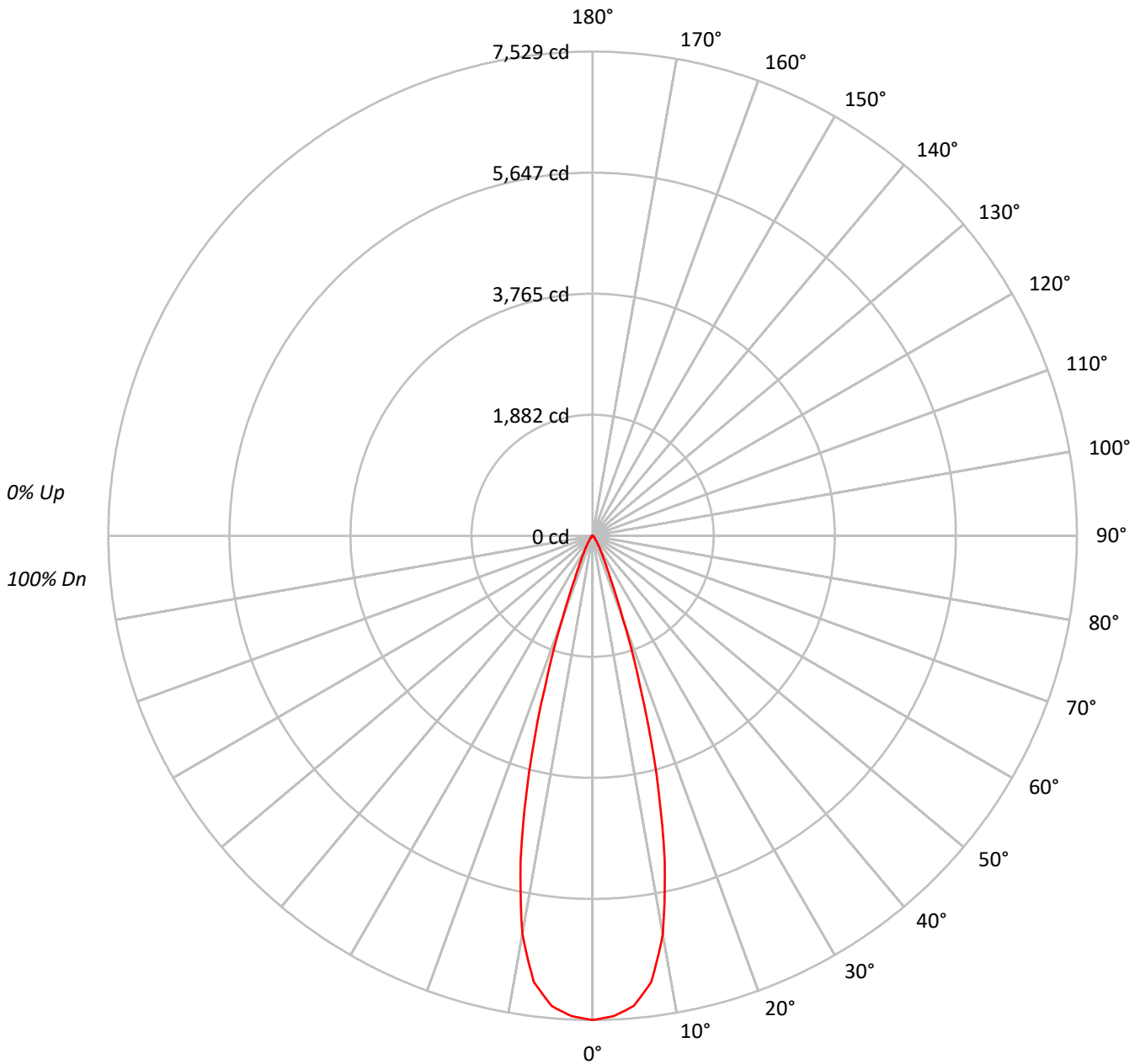
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93	93	93	93
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87	87	87	87
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	84	84	84
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81	81	81	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	79	79	79
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77	77	77	77
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74	74	74	74
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72	72	72	72

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

	0°
0°	3714852
5°	3633654
10°	3150580
15°	1952728
20°	715687
25°	239257
30°	117416
35°	58544
40°	36325
45°	23095
50°	16426
55°	13419
60°	11545
65°	9106
70°	11252
75°	11056
80°	11081
85°	10756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.7	32.6
10°-20°	1009.5	49.2
20°-30°	246.1	12.0
30°-40°	67.4	3.3
40°-50°	27.1	1.3
50°-60°	14.5	0.7
60°-70°	8.7	0.4
70°-80°	6.7	0.3
80°-90°	1.6	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°	1924.3	93.9
0°-40°	1991.7	97.1
0°-60°	2033.4	99.2
0°-90°	2050.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7529	
5°	7337	669
15°	3823	1010
25°	440	246
35°	97	67
45°	33	27
55°	16	15
65°	8	9
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7529.4
2.5°	7478.8
5°	7336.8
7.5°	6998.5
10°	6288.7
12.5°	5176.4
15°	3823.0
17.5°	2463.8
20°	1363.1
22.5°	727.3
25°	439.5
27.5°	297.5
30°	206.1
32.5°	140.0
35°	97.2
37.5°	71.9
40°	56.4
42.5°	42.8
45°	33.1
47.5°	27.2
50°	21.4
52.5°	19.4
55°	15.6
57.5°	13.6
60°	11.7
62.5°	9.7
65°	7.8
67.5°	7.8
70°	7.8
72.5°	7.8
75°	5.8
77.5°	5.8
80°	3.9
82.5°	1.9
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)