

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: P430328

Luminaire Tested: **LAM4B212R709035DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B212R709035DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2412.2 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

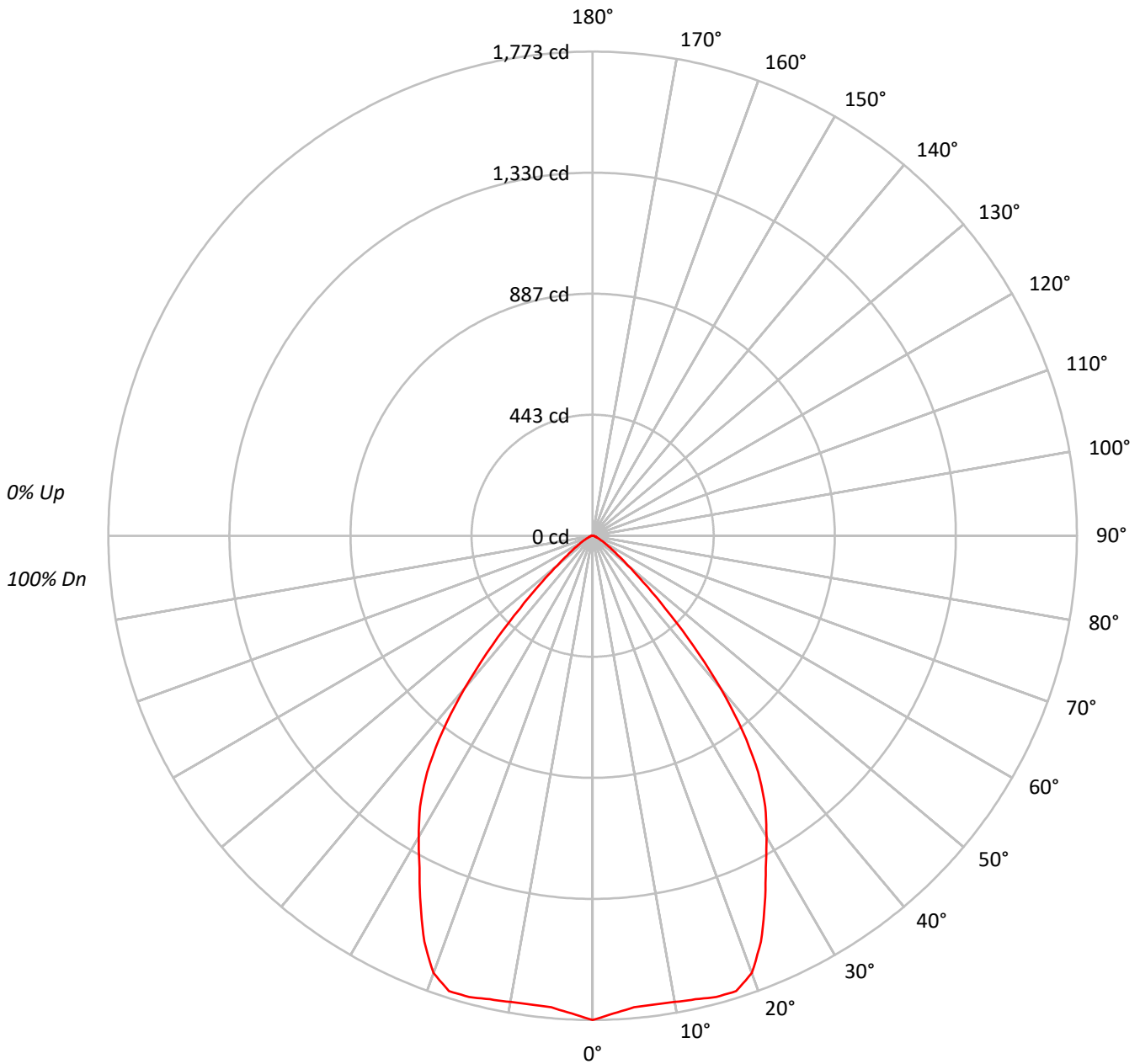
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

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

	0°
0°	874811
5°	858491
10°	868417
15°	893004
20°	894517
25°	811513
30°	725121
35°	636878
40°	468877
45°	262631
50°	129257
55°	72427
60°	44009
65°	28952
70°	21494
75°	18872
80°	14206
85°	14152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	6.9
10°-20°	492.6	20.4
20°-30°	683.6	28.3
30°-40°	643.2	26.7
40°-50°	307.0	12.7
50°-60°	81.2	3.4
60°-70°	25.6	1.1
70°-80°	10.4	0.4
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°	1342.0	55.6
0°-40°	1985.2	82.3
0°-60°	2373.4	98.4
0°-90°	2412.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1773	
5°	1733	166
15°	1748	493
25°	1491	684
35°	1057	643
45°	376	307
55°	84	81
65°	25	26
75°	10	10
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1773.1
2.5°	1750.8
5°	1733.4
7.5°	1731.0
10°	1733.4
12.5°	1738.4
15°	1748.3
17.5°	1748.3
20°	1703.7
22.5°	1609.6
25°	1490.7
27.5°	1371.9
30°	1272.8
32.5°	1176.3
35°	1057.4
37.5°	903.9
40°	728.0
42.5°	542.3
45°	376.4
47.5°	250.1
50°	168.4
52.5°	116.4
55°	84.2
57.5°	59.4
60°	44.6
62.5°	32.2
65°	24.8
67.5°	17.3
70°	14.9
72.5°	12.4
75°	9.9
77.5°	7.4
80°	5.0
82.5°	5.0
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)