

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: P431239

Luminaire Tested: **LAMR4B212R209035DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B212R209035DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2491.4 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

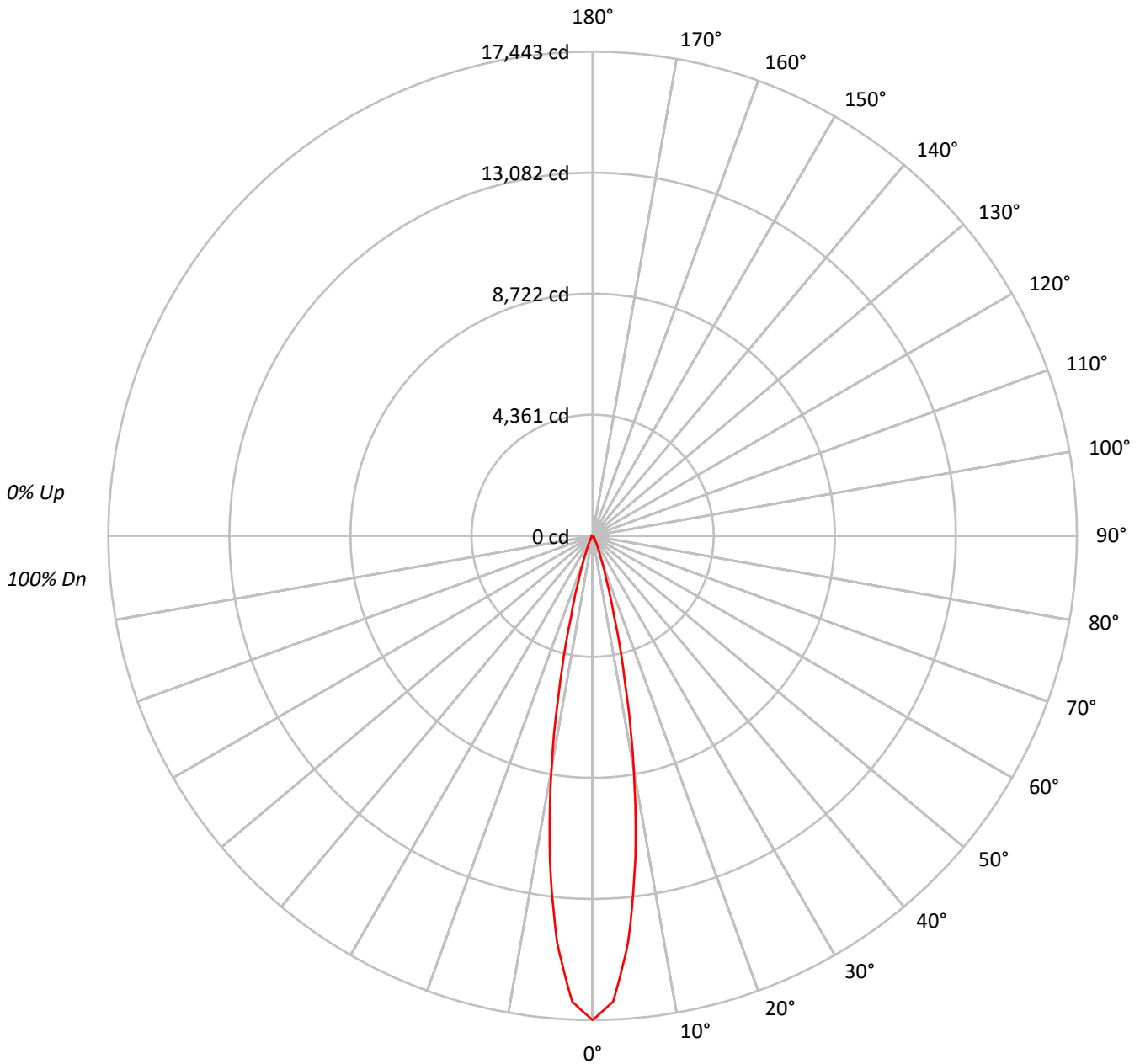
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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															
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97				97															
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95				94																
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93				91																
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90				89																
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88				87																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86				85																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84				83																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82				81																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81				80																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79				78																

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

	0°
0°	8605871
5°	7274193
10°	4272599
15°	1529849
20°	506194
25°	201477
30°	96337
35°	55051
40°	39739
45°	33492
50°	38608
55°	31483
60°	15788
65°	13309
70°	16445
75°	17347
80°	13070
85°	13020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1202.7	48.3
10°-20°	937.9	37.6
20°-30°	194.7	7.8
30°-40°	61.4	2.5
40°-50°	39.5	1.6
50°-60°	31.7	1.3
60°-70°	12.4	0.5
70°-80°	9.3	0.4
80°-90°	1.9	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°	2335.2	93.7
0°-40°	2396.6	96.2
0°-60°	2467.8	99.1
0°-90°	2491.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17443	
5°	14688	###
15°	2995	938
25°	370	195
35°	91	61
45°	48	39
55°	37	32
65°	11	12
75°	9	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17442.7
2.5°	16803.0
5°	14687.5
7.5°	11767.8
10°	8528.3
12.5°	5380.2
15°	2995.1
17.5°	1647.2
20°	964.1
22.5°	589.4
25°	370.1
27.5°	244.4
30°	169.1
32.5°	118.8
35°	91.4
37.5°	73.1
40°	61.7
42.5°	52.5
45°	48.0
47.5°	48.0
50°	50.3
52.5°	48.0
55°	36.6
57.5°	25.1
60°	16.0
62.5°	13.7
65°	11.4
67.5°	11.4
70°	11.4
72.5°	11.4
75°	9.1
77.5°	6.9
80°	4.6
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)