

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: P431250

Luminaire Tested: **LAMR4B212R209727DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431250  
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: LAMR4B212R209727DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2094.4 lumens  
Efficiency: N/A  
Efficacy: 73.7 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

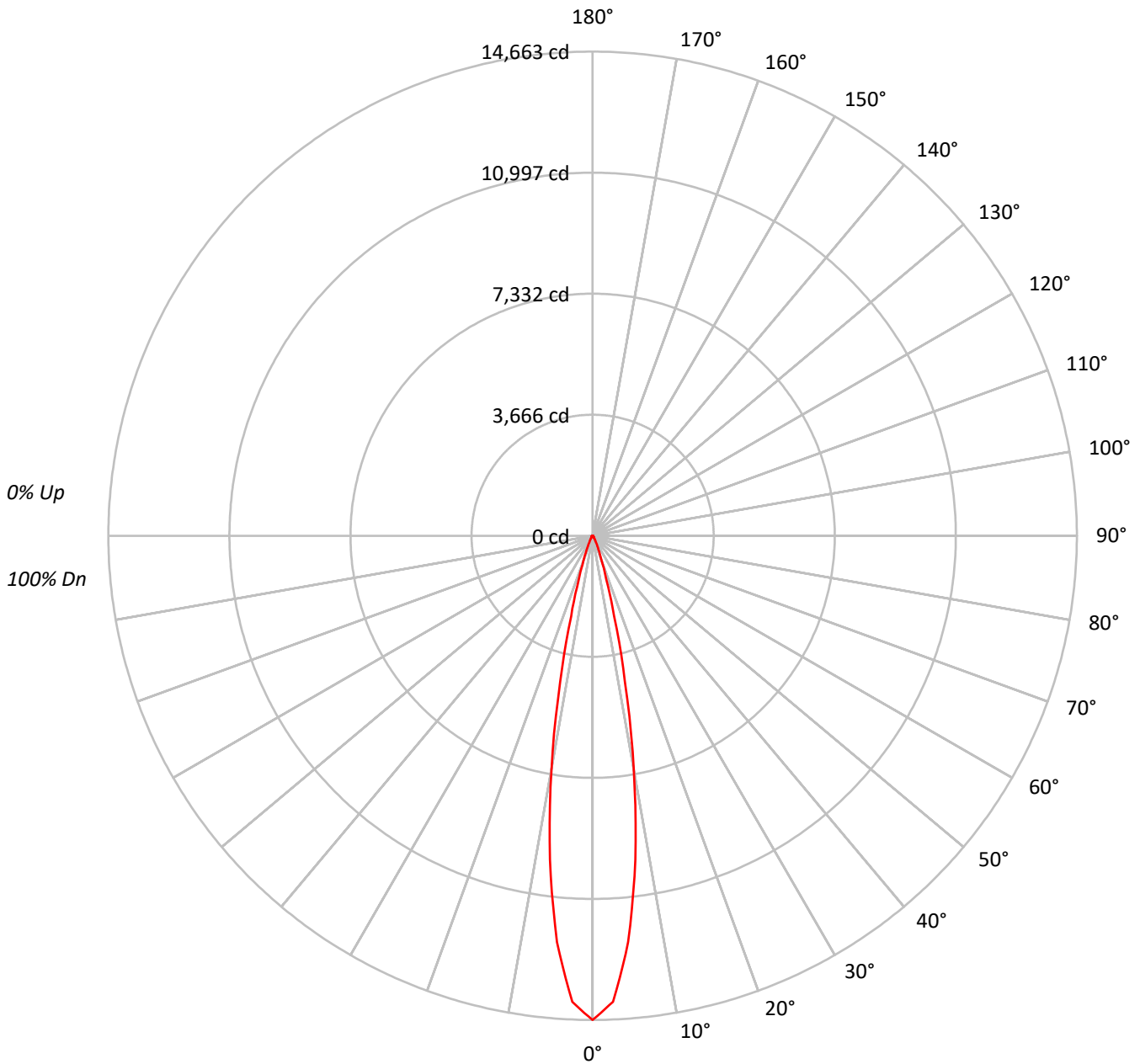
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	7234622
5°	6115126
10°	3591803
15°	1286052
20°	425548
25°	169358
30°	80955
35°	46257
40°	33427
45°	28119
50°	32468
55°	26408
60°	13223
65°	11207
70°	13848
75°	14678
80°	10797
85°	10756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1011.0	48.3
10°-20°	788.4	37.6
20°-30°	163.6	7.8
30°-40°	51.6	2.5
40°-50°	33.2	1.6
50°-60°	26.6	1.3
60°-70°	10.4	0.5
70°-80°	7.9	0.4
80°-90°	1.5	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°	1963.1	93.7
0°-40°	2014.7	96.2
0°-60°	2074.5	99.1
0°-90°	2094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14663	
5°	12347	###
15°	2518	788
25°	311	164
35°	77	52
45°	40	33
55°	31	27
65°	10	10
75°	8	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14663.4
2.5°	14125.6
5°	12347.2
7.5°	9892.7
10°	7169.4
12.5°	4522.9
15°	2517.8
17.5°	1384.7
20°	810.5
22.5°	495.5
25°	311.1
27.5°	205.5
30°	142.1
32.5°	99.9
35°	76.8
37.5°	61.5
40°	51.9
42.5°	44.2
45°	40.3
47.5°	40.3
50°	42.3
52.5°	40.3
55°	30.7
57.5°	21.1
60°	13.4
62.5°	11.5
65°	9.6
67.5°	9.6
70°	9.6
72.5°	9.6
75°	7.7
77.5°	5.8
80°	3.8
82.5°	1.9
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)