

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: P431243

Luminaire Tested: **LAMR4B212R209040DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431243  
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: LAMR4B212R209040DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2518.7 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

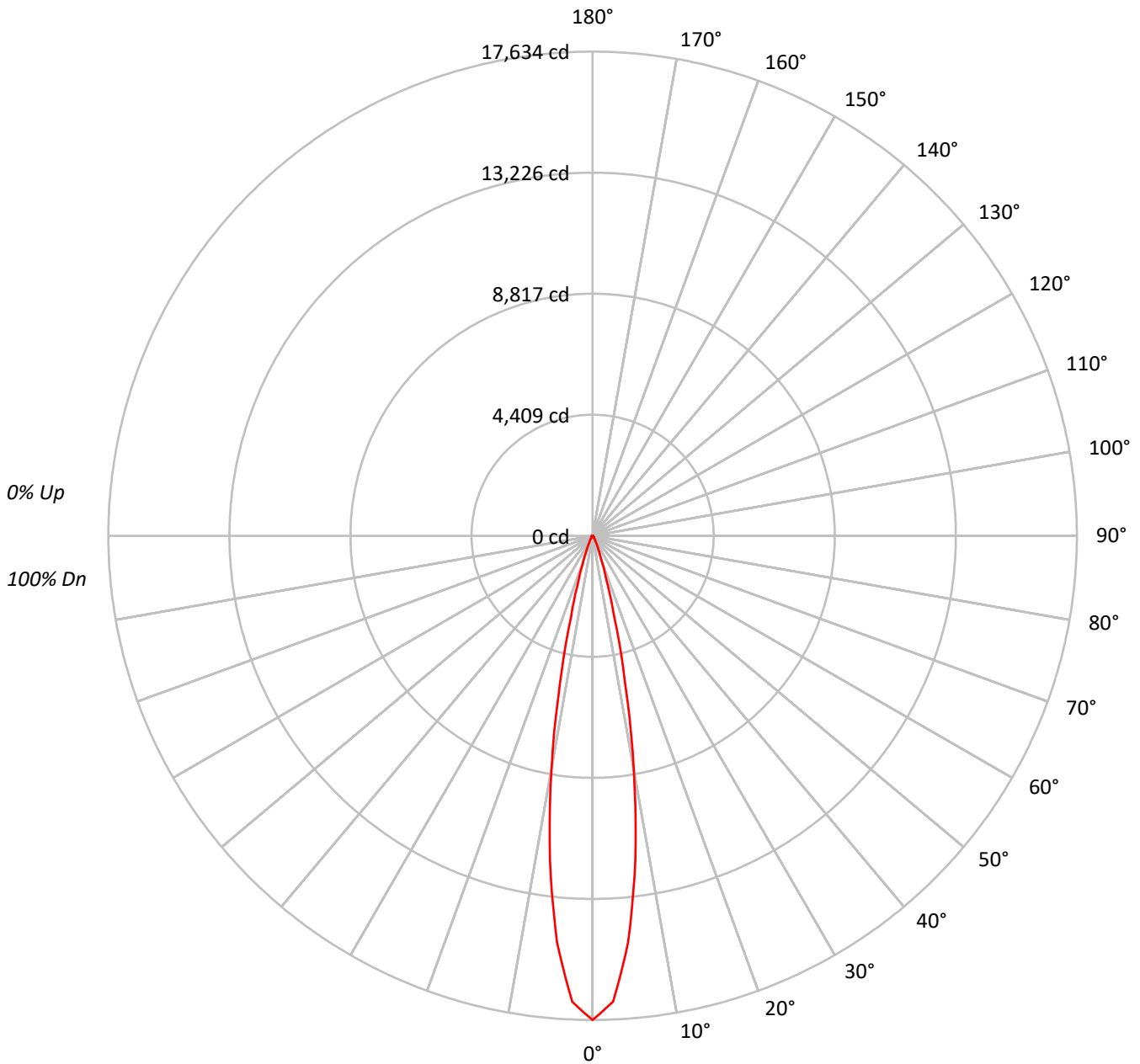
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°
0°	8700452
5°	7354128
10°	4319542
15°	1546654
20°	511760
25°	203709
30°	97363
35°	55653
40°	40189
45°	33841
50°	38992
55°	31827
60°	15985
65°	13426
70°	16589
75°	17538
80°	13070
85°	13020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1215.9	48.3
10°-20°	948.2	37.6
20°-30°	196.8	7.8
30°-40°	62.0	2.5
40°-50°	39.9	1.6
50°-60°	32.1	1.3
60°-70°	12.6	0.5
70°-80°	9.4	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°	2360.9	93.7
0°-40°	2422.9	96.2
0°-60°	2494.9	99.1
0°-90°	2518.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17634	
5°	14849	###
15°	3028	948
25°	374	197
35°	92	62
45°	48	40
55°	37	32
65°	12	13
75°	9	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	17634.4
2.5°	16987.7
5°	14848.9
7.5°	11897.2
10°	8622.0
12.5°	5439.3
15°	3028.0
17.5°	1665.3
20°	974.7
22.5°	595.9
25°	374.2
27.5°	247.1
30°	170.9
32.5°	120.1
35°	92.4
37.5°	73.9
40°	62.4
42.5°	53.1
45°	48.5
47.5°	48.5
50°	50.8
52.5°	48.5
55°	37.0
57.5°	25.4
60°	16.2
62.5°	13.9
65°	11.5
67.5°	11.5
70°	11.5
72.5°	11.5
75°	9.2
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)