

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: P431297

Luminaire Tested: **LAMR4B212R309727DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431297  
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: LAMR4B212R309727DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2111.4 lumens  
Efficiency: N/A  
Efficacy: 74.3 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

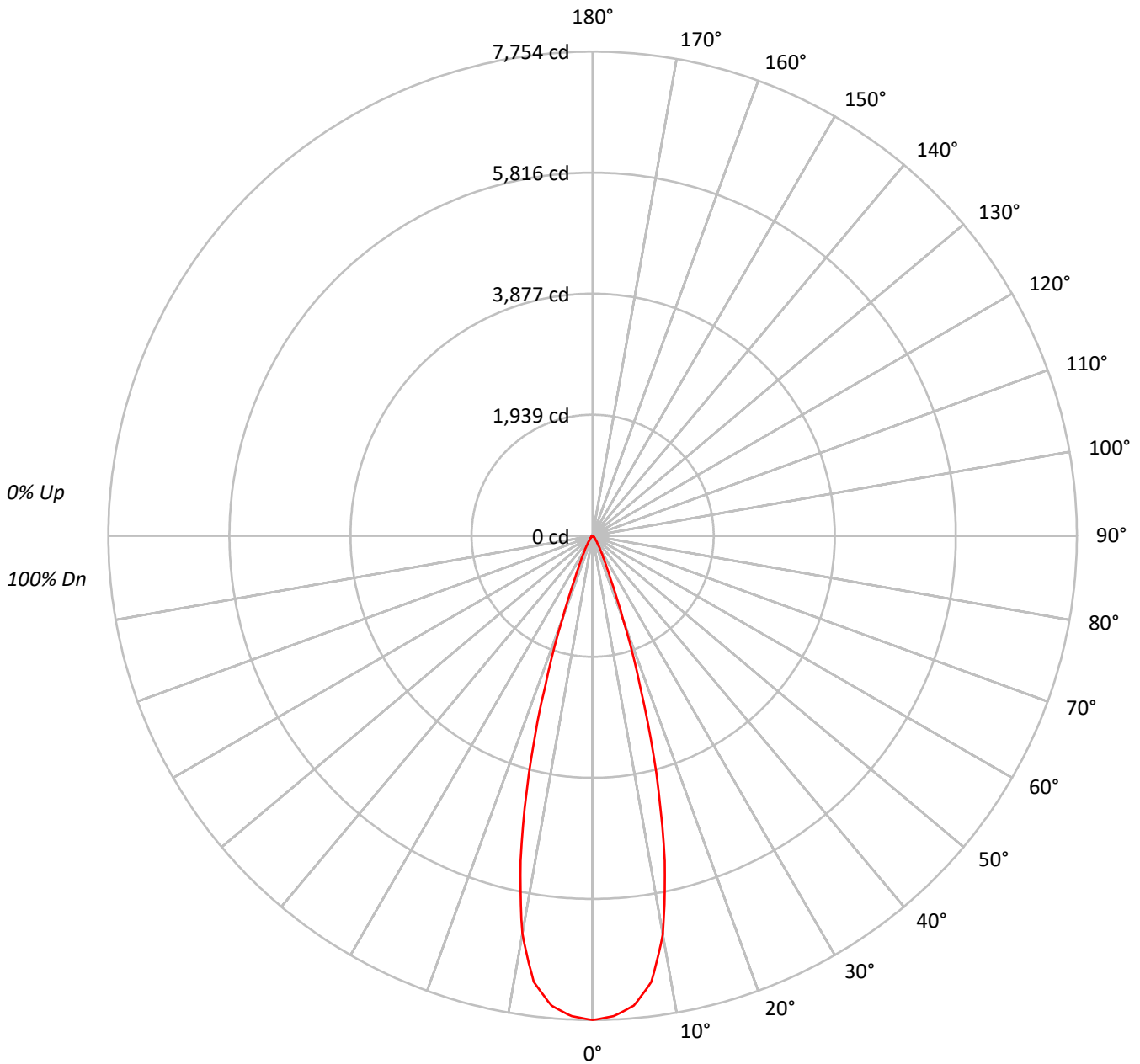
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96			96															
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93				93															
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90				90															
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87				87															
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84				84															
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81				81															
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79				79															
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77				77															
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74				74															
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72				72															

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

	0°
0°	3825566
5°	3741969
10°	3244516
15°	2010957
20°	737056
25°	246388
30°	120949
35°	60291
40°	37420
45°	23723
50°	16886
55°	13763
60°	11841
65°	9339
70°	11540
75°	11438
80°	11365
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.6	32.6
10°-20°	1039.6	49.2
20°-30°	253.5	12.0
30°-40°	69.4	3.3
40°-50°	27.9	1.3
50°-60°	14.9	0.7
60°-70°	8.9	0.4
70°-80°	6.9	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°	1981.7	93.9
0°-40°	2051.1	97.1
0°-60°	2094.0	99.2
0°-90°	2111.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7754	
5°	7556	689
15°	3937	1040
25°	453	253
35°	100	69
45°	34	28
55°	16	15
65°	8	9
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7753.8
2.5°	7701.7
5°	7555.5
7.5°	7207.1
10°	6476.2
12.5°	5330.7
15°	3937.0
17.5°	2537.2
20°	1403.8
22.5°	748.9
25°	452.6
27.5°	306.4
30°	212.3
32.5°	144.2
35°	100.1
37.5°	74.1
40°	58.1
42.5°	44.1
45°	34.0
47.5°	28.0
50°	22.0
52.5°	20.0
55°	16.0
57.5°	14.0
60°	12.0
62.5°	10.0
65°	8.0
67.5°	8.0
70°	8.0
72.5°	8.0
75°	6.0
77.5°	6.0
80°	4.0
82.5°	2.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)