

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: P431288

Luminaire Tested: **LAMR4B212R309035DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431288  
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: LAMR4B212R309035DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2511.6 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

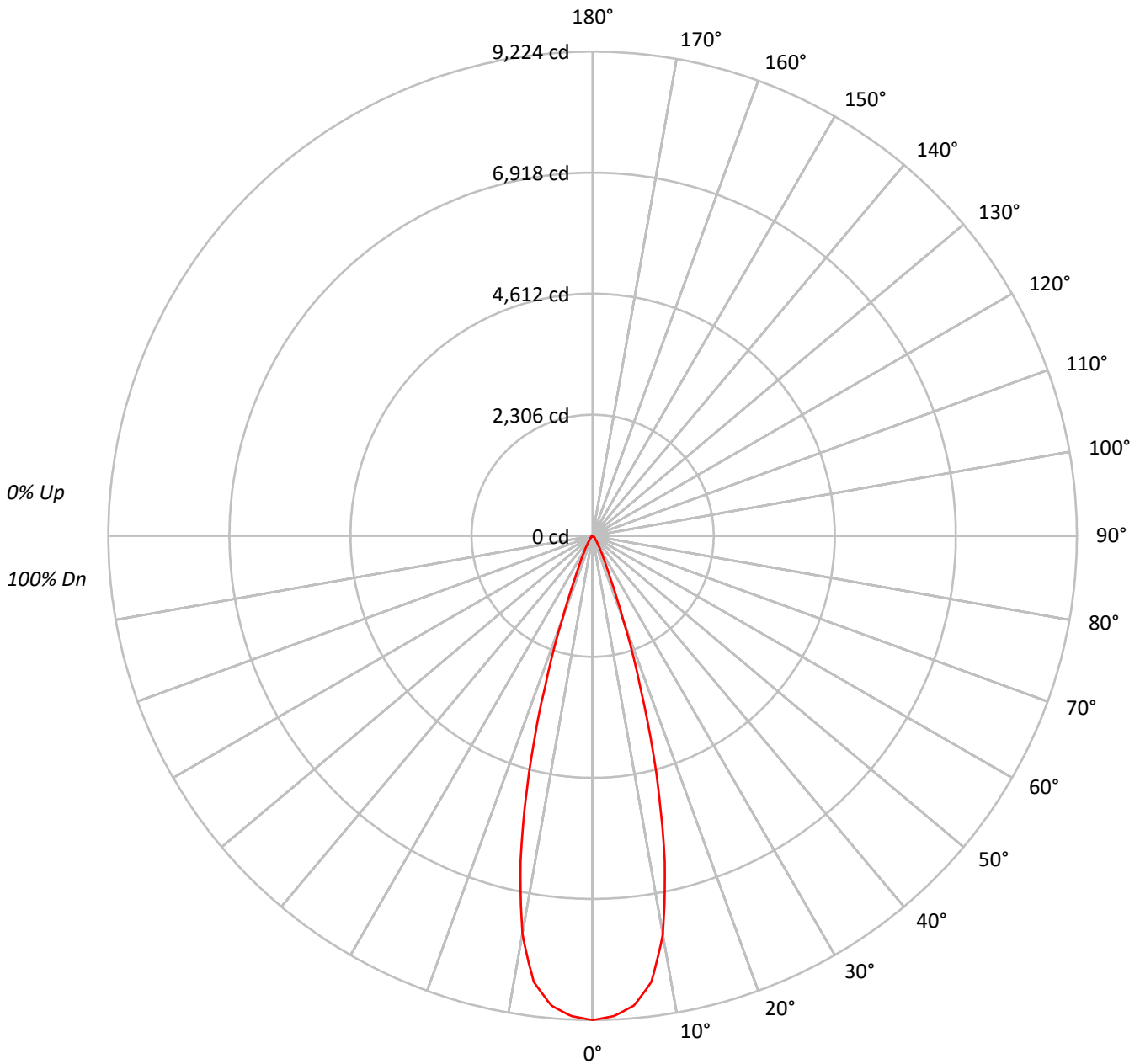
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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																											
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96																										
2	111	107	104	102	109	106	103	100	102	100	98	96	96	96	97	95	94	93	93																										
3	107	103	99	96	105	101	98	95	99	96	94	92	92	92	94	92	91	90	87																										
4	104	98	94	91	102	97	94	91	95	92	90	89	89	89	92	90	88	87	84																										
5	101	95	91	87	99	94	90	87	92	89	86	86	86	86	89	87	85	84	81																										
6	98	91	87	84	97	91	87	84	89	86	83	83	83	83	87	84	82	81	79																										
7	95	88	84	81	94	88	84	81	87	83	81	80	80	80	85	82	80	79	77																										
8	92	86	81	79	91	85	81	78	84	81	78	78	78	78	83	80	78	77	75																										
9	90	83	79	76	89	83	79	76	82	78	76	76	76	76	80	78	75	74	72																										
10	88	81	77	74	87	80	77	74	80	76	74	74	74	74	78	76	73	72	70																										

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

	0°
0°	4550686
5°	4451236
10°	3859482
15°	2392104
20°	876718
25°	293096
30°	143851
35°	71735
40°	44505
45°	28259
50°	20110
55°	16429
60°	14111
65°	11091
70°	13704
75°	13535
80°	13638
85°	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.1	32.6
10°-20°	1236.7	49.2
20°-30°	301.5	12.0
30°-40°	82.6	3.3
40°-50°	33.2	1.3
50°-60°	17.8	0.7
60°-70°	10.6	0.4
70°-80°	8.1	0.3
80°-90°	2.0	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°	2357.3	93.9
0°-40°	2439.8	97.1
0°-60°	2490.9	99.2
0°-90°	2511.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9224	
5°	8988	819
15°	4683	1237
25°	538	302
35°	119	83
45°	40	33
55°	19	18
65°	10	11
75°	7	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9223.5
2.5°	9161.5
5°	8987.6
7.5°	8573.2
10°	7703.7
12.5°	6341.1
15°	4683.2
17.5°	3018.1
20°	1669.8
22.5°	890.9
25°	538.4
27.5°	364.5
30°	252.5
32.5°	171.5
35°	119.1
37.5°	88.1
40°	69.1
42.5°	52.4
45°	40.5
47.5°	33.3
50°	26.2
52.5°	23.8
55°	19.1
57.5°	16.7
60°	14.3
62.5°	11.9
65°	9.5
67.5°	9.5
70°	9.5
72.5°	9.5
75°	7.1
77.5°	7.1
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)