

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: P431290

Luminaire Tested: **LAMR4B212R309040DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431290  
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: LAMR4B212R309040DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2539.1 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

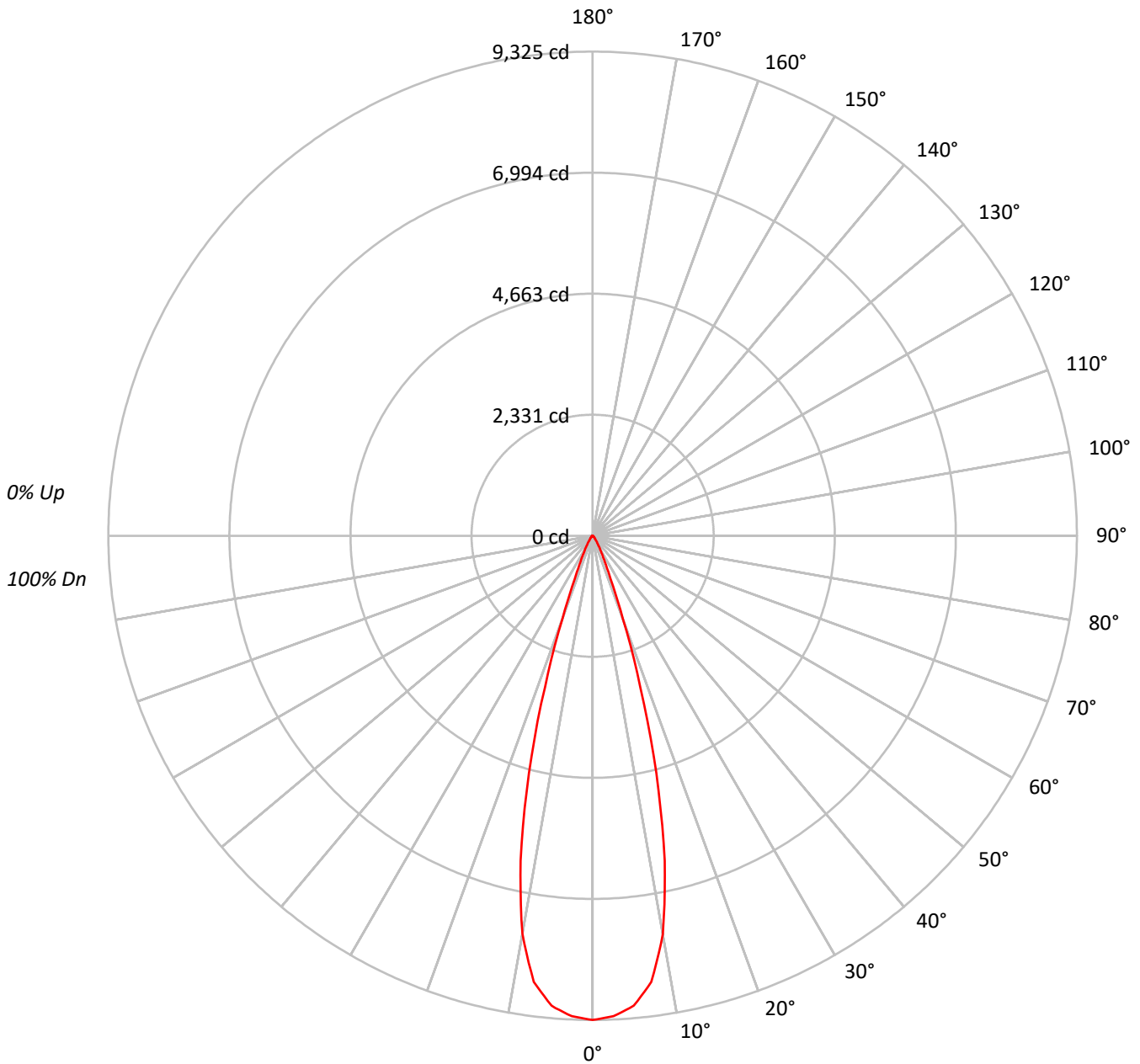
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	4600666
5°	4500168
10°	3901866
15°	2418409
20°	886379
25°	296308
30°	145446
35°	72518
40°	44955
45°	28538
50°	20340
55°	16601
60°	14209
65°	11207
70°	13848
75°	13725
80°	13638
85°	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.1	32.6
10°-20°	1250.2	49.2
20°-30°	304.8	12.0
30°-40°	83.5	3.3
40°-50°	33.6	1.3
50°-60°	18.0	0.7
60°-70°	10.7	0.4
70°-80°	8.2	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°	2383.2	93.9
0°-40°	2466.7	97.1
0°-60°	2518.3	99.2
0°-90°	2539.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2539.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9325	
5°	9086	828
15°	4735	1250
25°	544	305
35°	120	83
45°	41	34
55°	19	18
65°	10	11
75°	7	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9324.8
2.5°	9262.2
5°	9086.4
7.5°	8667.4
10°	7788.3
12.5°	6410.8
15°	4734.7
17.5°	3051.3
20°	1688.2
22.5°	900.7
25°	544.3
27.5°	368.5
30°	255.3
32.5°	173.4
35°	120.4
37.5°	89.1
40°	69.8
42.5°	53.0
45°	40.9
47.5°	33.7
50°	26.5
52.5°	24.1
55°	19.3
57.5°	16.9
60°	14.4
62.5°	12.0
65°	9.6
67.5°	9.6
70°	9.6
72.5°	9.6
75°	7.2
77.5°	7.2
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)