

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: P431317

Luminaire Tested: **LAMR4B212R359050DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B212R359050DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2420.4 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

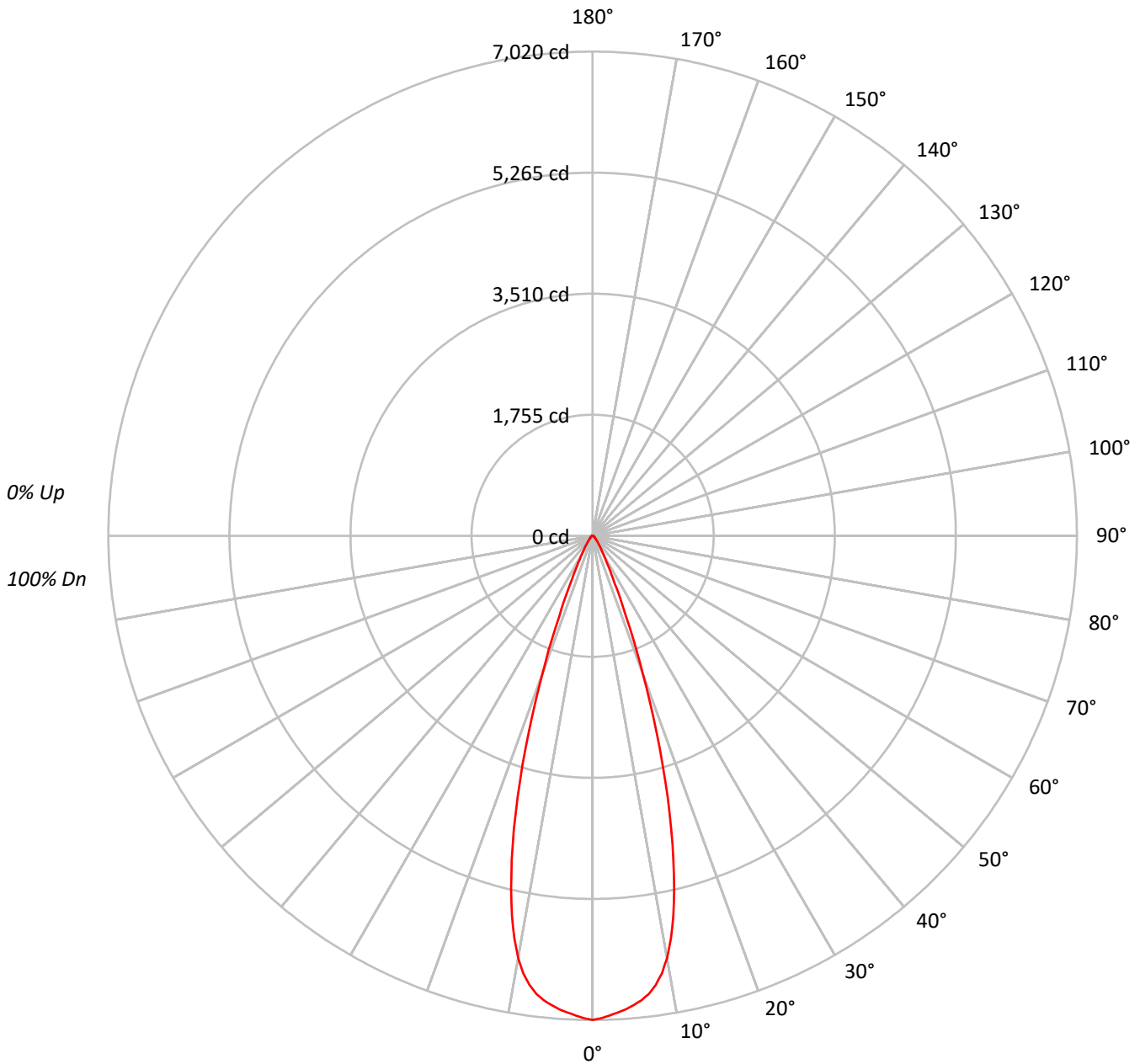
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75	75	75	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	68

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

	0°
0°	3463623
5°	3383793
10°	3113908
15°	2250668
20°	1111832
25°	407853
30°	183901
35°	100103
40°	62088
45°	42004
50°	31470
55°	26924
60°	23781
65°	22532
70°	20917
75°	18300
80°	20457
85°	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.9	26.2
10°-20°	1160.2	47.9
20°-30°	403.9	16.7
30°-40°	112.0	4.6
40°-50°	48.7	2.0
50°-60°	28.2	1.2
60°-70°	19.1	0.8
70°-80°	10.5	0.4
80°-90°	2.9	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°	2199.0	90.9
0°-40°	2311.0	95.5
0°-60°	2387.9	98.7
0°-90°	2420.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2420.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7020	
5°	6832	635
15°	4406	1160
25°	749	404
35°	166	112
45°	60	49
55°	31	28
65°	19	19
75°	10	10
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7020.2
1°	6996.1
2°	6960.0
3°	6923.8
4°	6882.9
5°	6832.3
6°	6769.6
7°	6692.5
8°	6574.5
9°	6422.7
10°	6215.5
11°	5950.5
12°	5630.1
13°	5254.3
14°	4842.3
15°	4406.3
16°	3941.3
17°	3474.0
18°	3004.2
19°	2551.3
20°	2117.6
22.5°	1262.4
25°	749.2
26°	624.0
27°	520.4
28°	440.9
29°	375.8
30°	322.8
32.5°	228.9
35°	166.2
37.5°	125.3
40°	96.4
42.5°	74.7
45°	60.2
47.5°	50.6
50°	41.0
52.5°	36.1
55°	31.3
57.5°	26.5
60°	24.1
62.5°	21.7
65°	19.3
67.5°	16.9



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	9.6
77.5°	7.2
80°	7.2
82.5°	4.8
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







70°		14.5
72.5°		12.0



(END OF REPORT)