

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: P431307

Luminaire Tested: **LAMR4B212R359027DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431307  
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: LAMR4B212R359027DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2172.6 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

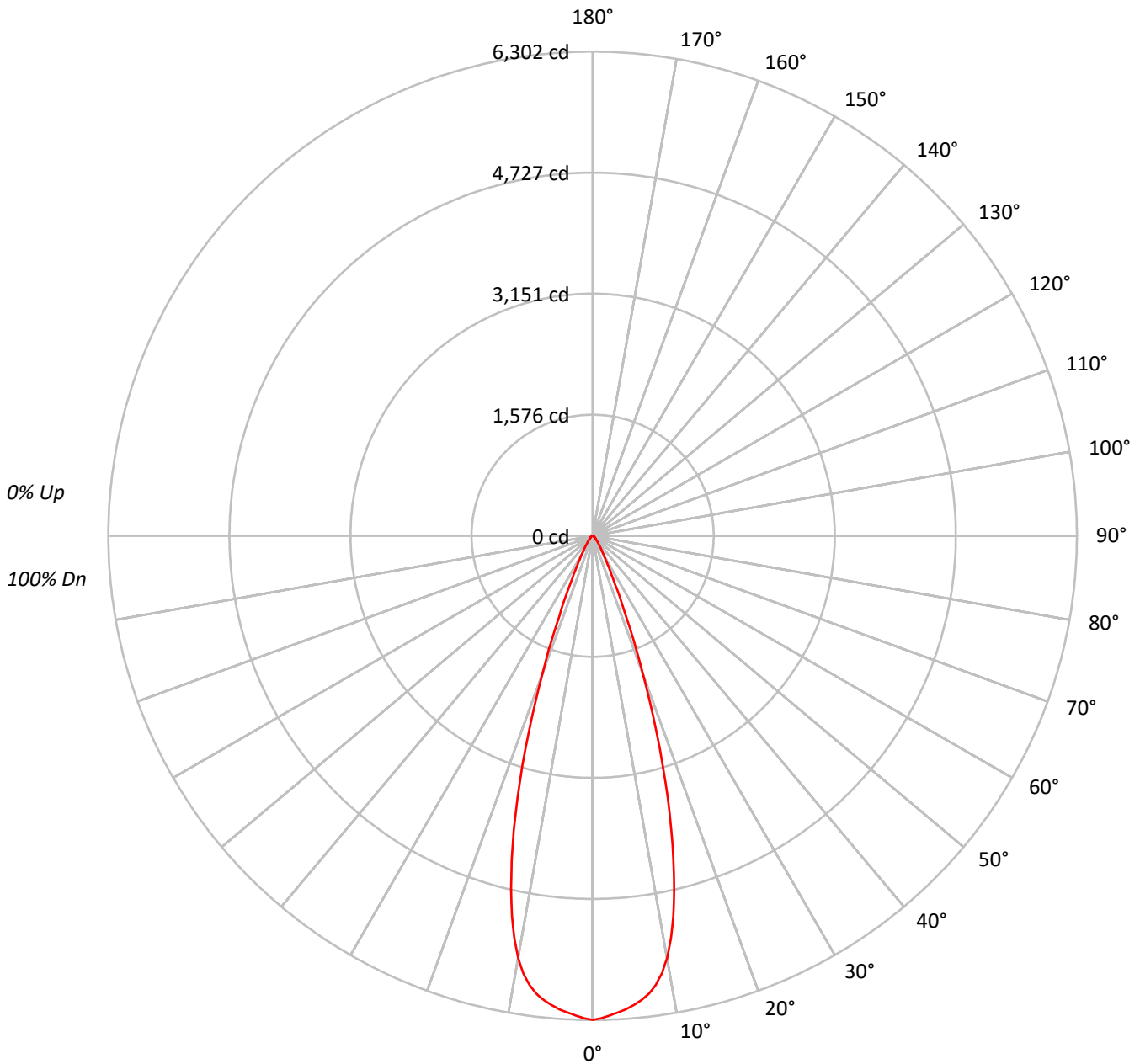
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			96																
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91																
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87			87																
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84			84																
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81																
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78			78																
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75			75																
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			72																
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70			70																
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68			68																

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

	0°
0°	3109081
5°	3037455
10°	2795178
15°	2020304
20°	998055
25°	366098
30°	165101
35°	89864
40°	55711
45°	37748
50°	28246
55°	24171
60°	21314
65°	20197
70°	18753
75°	16585
80°	18468
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.9	26.2
10°-20°	1041.5	47.9
20°-30°	362.6	16.7
30°-40°	100.5	4.6
40°-50°	43.7	2.0
50°-60°	25.3	1.2
60°-70°	17.1	0.8
70°-80°	9.4	0.4
80°-90°	2.6	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°	1974.0	90.9
0°-40°	2074.5	95.5
0°-60°	2143.4	98.7
0°-90°	2172.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6302	
5°	6133	570
15°	3955	1041
25°	672	363
35°	149	100
45°	54	44
55°	28	25
65°	17	17
75°	9	9
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6301.6
1°	6280.0
2°	6247.6
3°	6215.1
4°	6178.4
5°	6133.0
6°	6076.7
7°	6007.5
8°	5901.6
9°	5765.3
10°	5579.3
11°	5341.5
12°	5053.8
13°	4716.5
14°	4346.7
15°	3955.3
16°	3537.9
17°	3118.4
18°	2696.7
19°	2290.1
20°	1900.9
22.5°	1133.2
25°	672.5
26°	560.1
27°	467.1
28°	395.7
29°	337.4
30°	289.8
32.5°	205.4
35°	149.2
37.5°	112.5
40°	86.5
42.5°	67.0
45°	54.1
47.5°	45.4
50°	36.8
52.5°	32.4
55°	28.1
57.5°	23.8
60°	21.6
62.5°	19.5
65°	17.3
67.5°	15.1



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	8.7
77.5°	6.5
80°	6.5
82.5°	4.3
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







70°		13.0
72.5°		10.8



(END OF REPORT)