

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: P430311

Luminaire Tested: **LAM4B212R659050DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B212R659050DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2356.8 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

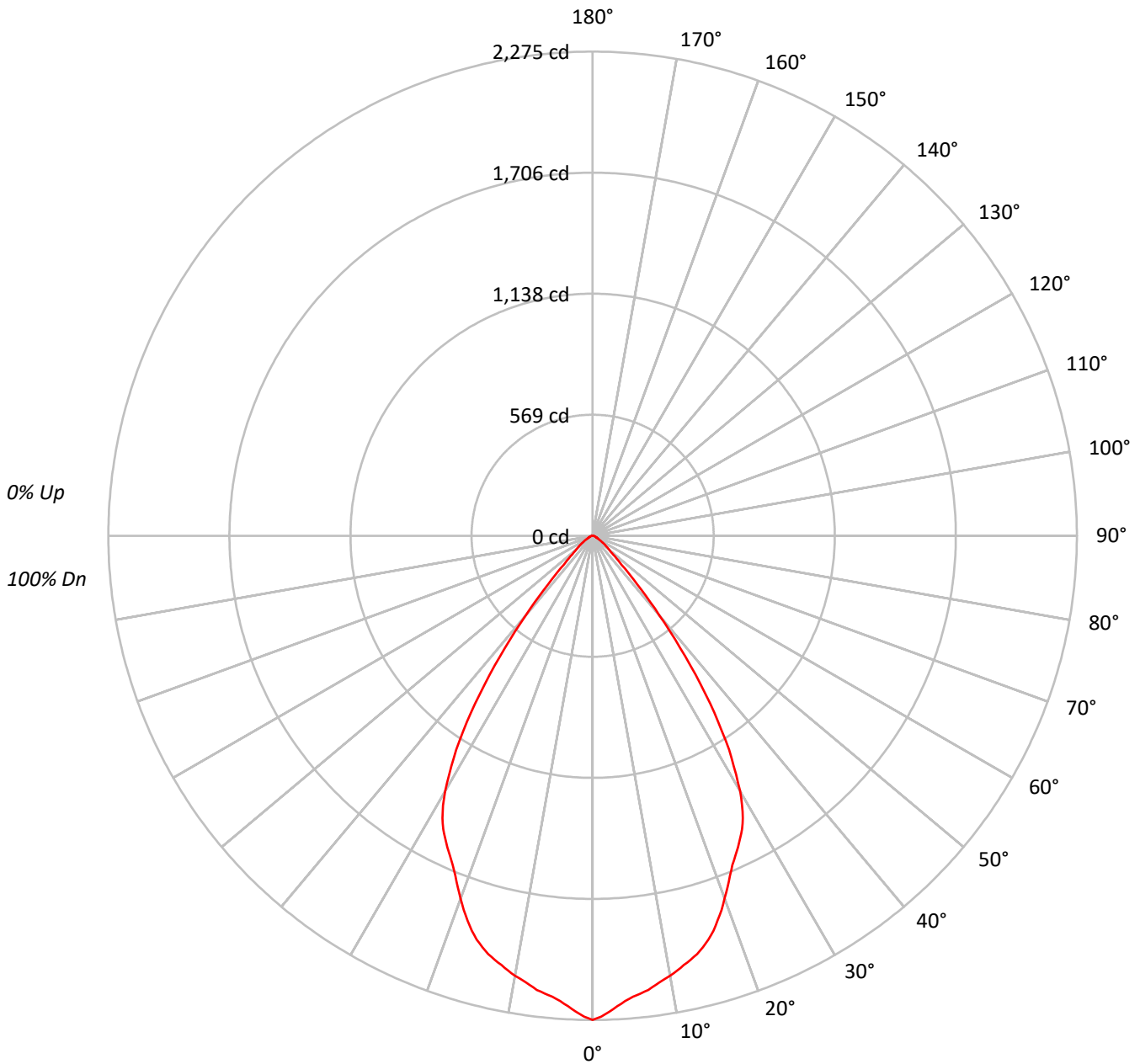
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																											
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																											
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																											
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																											
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																											
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																											
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																											
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																											
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50																											
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47																											

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

	0°
0°	1122389
5°	1077051
10°	1051580
15°	1022181
20°	951956
25°	879235
30°	789327
35°	579839
40°	313207
45°	134665
50°	74991
55°	52557
60°	33747
65°	25684
70°	21205
75°	18681
80°	20741
85°	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	8.7
10°-20°	558.4	23.7
20°-30°	740.2	31.4
30°-40°	586.2	24.9
40°-50°	174.6	7.4
50°-60°	55.9	2.4
60°-70°	22.3	0.9
70°-80°	10.6	0.5
80°-90°	3.0	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°	1504.2	63.8
0°-40°	2090.4	88.7
0°-60°	2320.9	98.5
0°-90°	2356.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2275	
5°	2175	206
15°	2001	558
25°	1615	740
35°	963	586
45°	193	175
55°	61	56
65°	22	22
75°	10	11
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2274.9
1°	2260.2
2°	2238.2
3°	2213.8
4°	2191.8
5°	2174.7
6°	2162.5
7°	2150.3
8°	2130.7
9°	2113.6
10°	2099.0
11°	2081.9
12°	2062.3
13°	2045.2
14°	2025.7
15°	2001.2
16°	1974.3
17°	1940.1
18°	1901.0
19°	1859.5
20°	1813.1
21°	1769.1
22°	1722.7
23°	1681.1
24°	1646.9
25°	1615.1
26°	1580.9
27°	1546.7
28°	1502.7
29°	1449.0
30°	1385.5
32.5°	1192.4
35°	962.7
37.5°	713.5
40°	486.3
42.5°	307.9
45°	193.0
47.5°	129.5
50°	97.7
52.5°	78.2
55°	61.1
57.5°	46.4
60°	34.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	17.1
70°	14.7
72.5°	12.2
75°	9.8
77.5°	7.3
80°	7.3
82.5°	4.9
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		26.9
65°		22.0



(END OF REPORT)