

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: P430305

Luminaire Tested: **LAM4B212R659035DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430305  
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: LAM4B212R659035DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2396.3 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

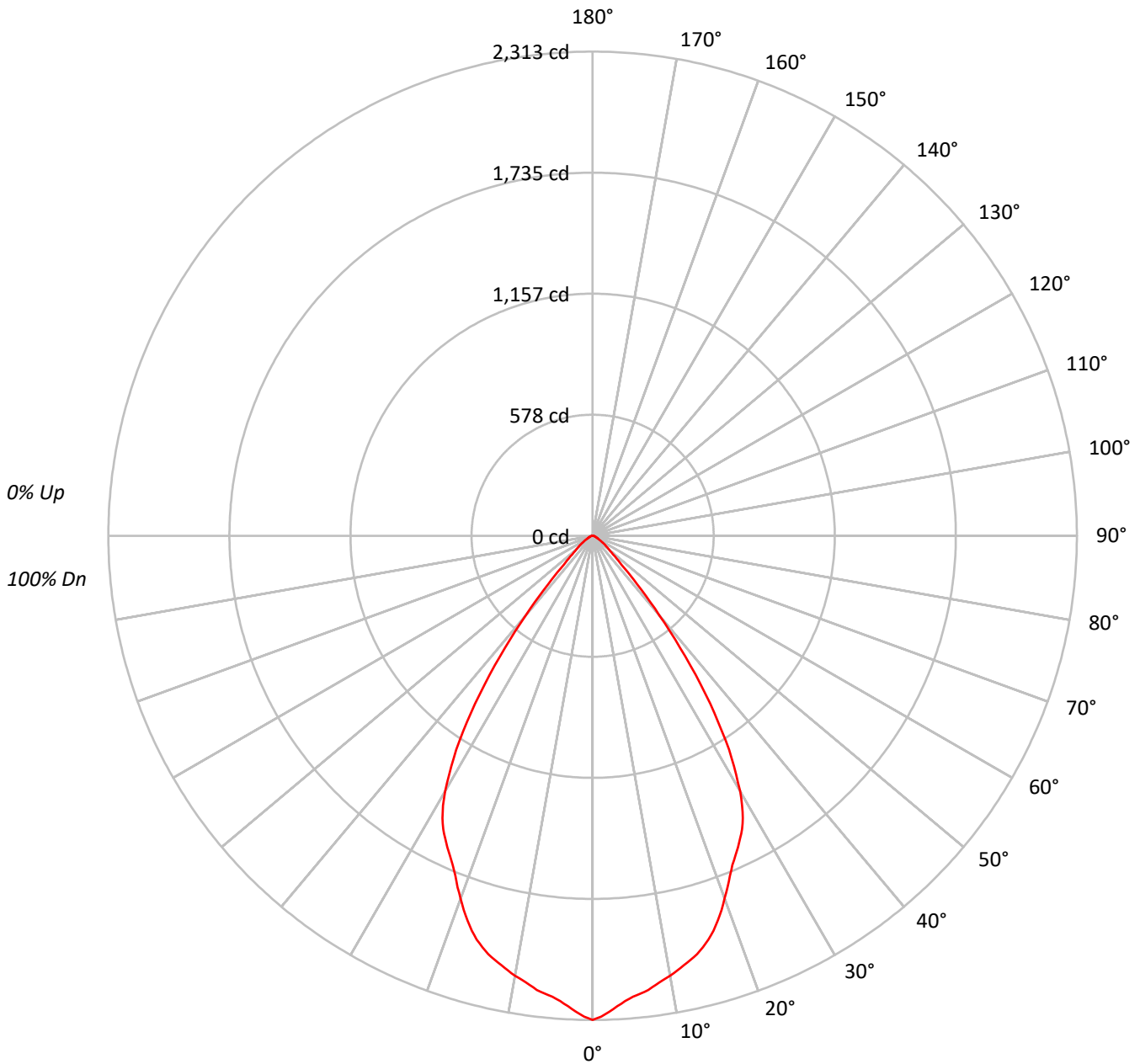
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	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°	1141187
5°	1095128
10°	1069164
15°	1039343
20°	967918
25°	893988
30°	802544
35°	589597
40°	318424
45°	136967
50°	76296
55°	53417
60°	34339
65°	26151
70°	21494
75°	18872
80°	21309
85°	14152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	8.7
10°-20°	567.8	23.7
20°-30°	752.6	31.4
30°-40°	596.0	24.9
40°-50°	177.5	7.4
50°-60°	56.8	2.4
60°-70°	22.7	0.9
70°-80°	10.8	0.5
80°-90°	3.1	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°	1529.4	63.8
0°-40°	2125.4	88.7
0°-60°	2359.8	98.5
0°-90°	2396.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2313	
5°	2211	209
15°	2035	568
25°	1642	753
35°	979	596
45°	196	178
55°	62	57
65°	22	23
75°	10	11
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2313.0
1°	2298.1
2°	2275.7
3°	2250.9
4°	2228.5
5°	2211.2
6°	2198.7
7°	2186.3
8°	2166.4
9°	2149.0
10°	2134.1
11°	2116.7
12°	2096.9
13°	2079.5
14°	2059.6
15°	2034.8
16°	2007.4
17°	1972.6
18°	1932.9
19°	1890.7
20°	1843.5
21°	1798.7
22°	1751.5
23°	1709.3
24°	1674.5
25°	1642.2
26°	1607.4
27°	1572.7
28°	1527.9
29°	1473.3
30°	1408.7
32.5°	1212.4
35°	978.9
37.5°	725.5
40°	494.4
42.5°	313.0
45°	196.3
47.5°	131.7
50°	99.4
52.5°	79.5
55°	62.1
57.5°	47.2
60°	34.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	17.4
70°	14.9
72.5°	12.4
75°	9.9
77.5°	7.5
80°	7.5
82.5°	5.0
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		27.3
65°		22.4



(END OF REPORT)