

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: P430173

Luminaire Tested: **LAM4B212R359730DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430173  
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: LAM4B212R359730DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2178.9 lumens  
Efficiency: N/A  
Efficacy: 76.7 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

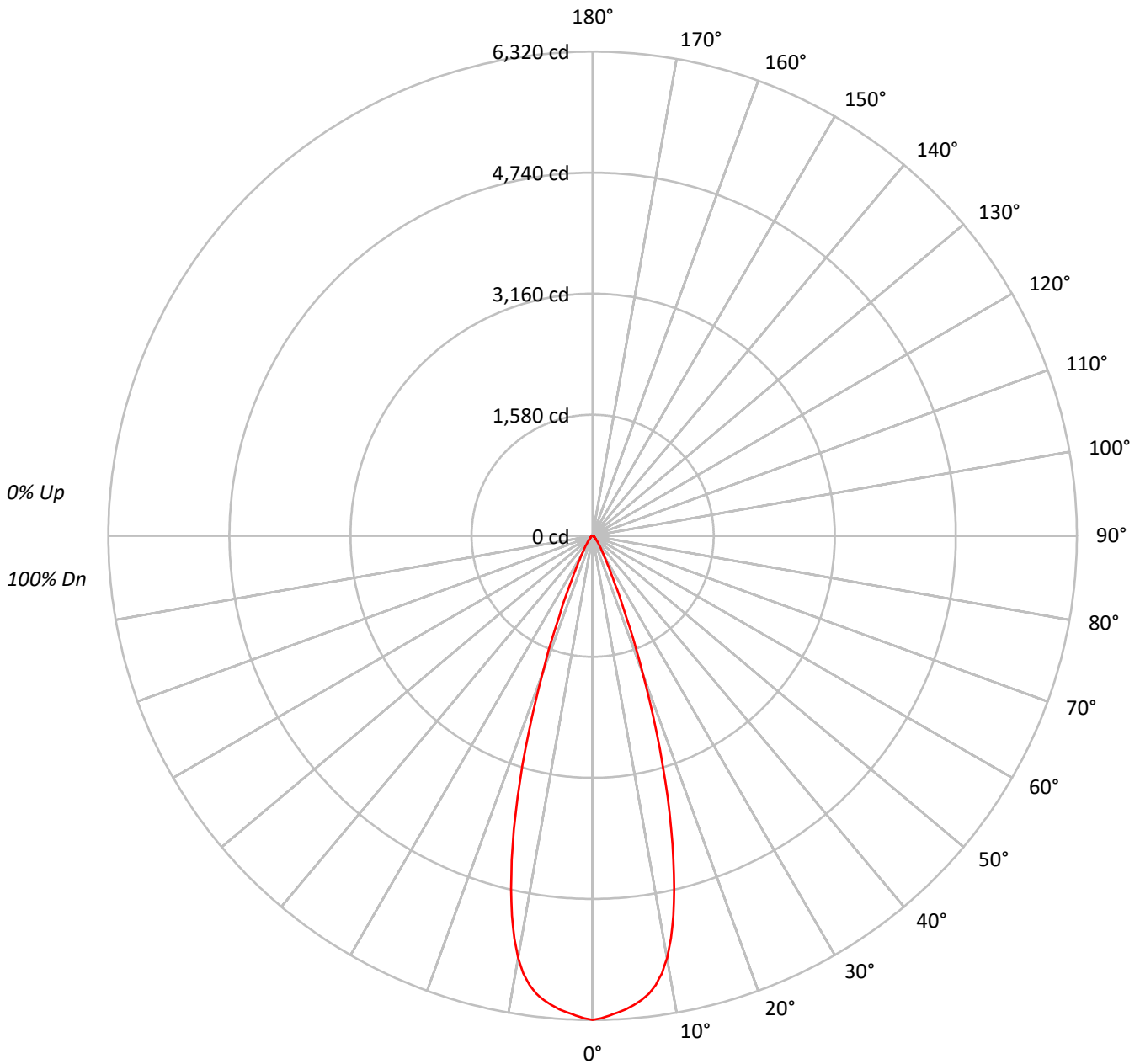
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3118060
5°	3046221
10°	2803294
15°	2026127
20°	1000943
25°	367187
30°	165556
35°	90105
40°	55905
45°	37818
50°	28323
55°	24257
60°	21413
65°	20313
70°	18753
75°	16585
80°	18468
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.5	26.2
10°-20°	1044.5	47.9
20°-30°	363.6	16.7
30°-40°	100.8	4.6
40°-50°	43.8	2.0
50°-60°	25.4	1.2
60°-70°	17.2	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°	1979.7	90.9
0°-40°	2080.4	95.5
0°-60°	2149.6	98.7
0°-90°	2178.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6320	
5°	6151	572
15°	3967	1044
25°	674	364
35°	150	101
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°	6319.8
1°	6298.2
2°	6265.6
3°	6233.1
4°	6196.2
5°	6150.7
6°	6094.3
7°	6024.9
8°	5918.6
9°	5782.0
10°	5595.5
11°	5356.9
12°	5068.5
13°	4730.1
14°	4359.3
15°	3966.7
16°	3548.1
17°	3127.4
18°	2704.5
19°	2296.7
20°	1906.4
22.5°	1136.4
25°	674.5
26°	561.7
27°	468.5
28°	396.9
29°	338.3
30°	290.6
32.5°	206.0
35°	149.6
37.5°	112.8
40°	86.8
42.5°	67.2
45°	54.2
47.5°	45.5
50°	36.9
52.5°	32.5
55°	28.2
57.5°	23.9
60°	21.7
62.5°	19.5
65°	17.4
67.5°	15.2



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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)