

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: P430164

Luminaire Tested: **LAM4B212R359040DE010x1MW**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430164  
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: LAM4B212R359040DE010x1MW  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

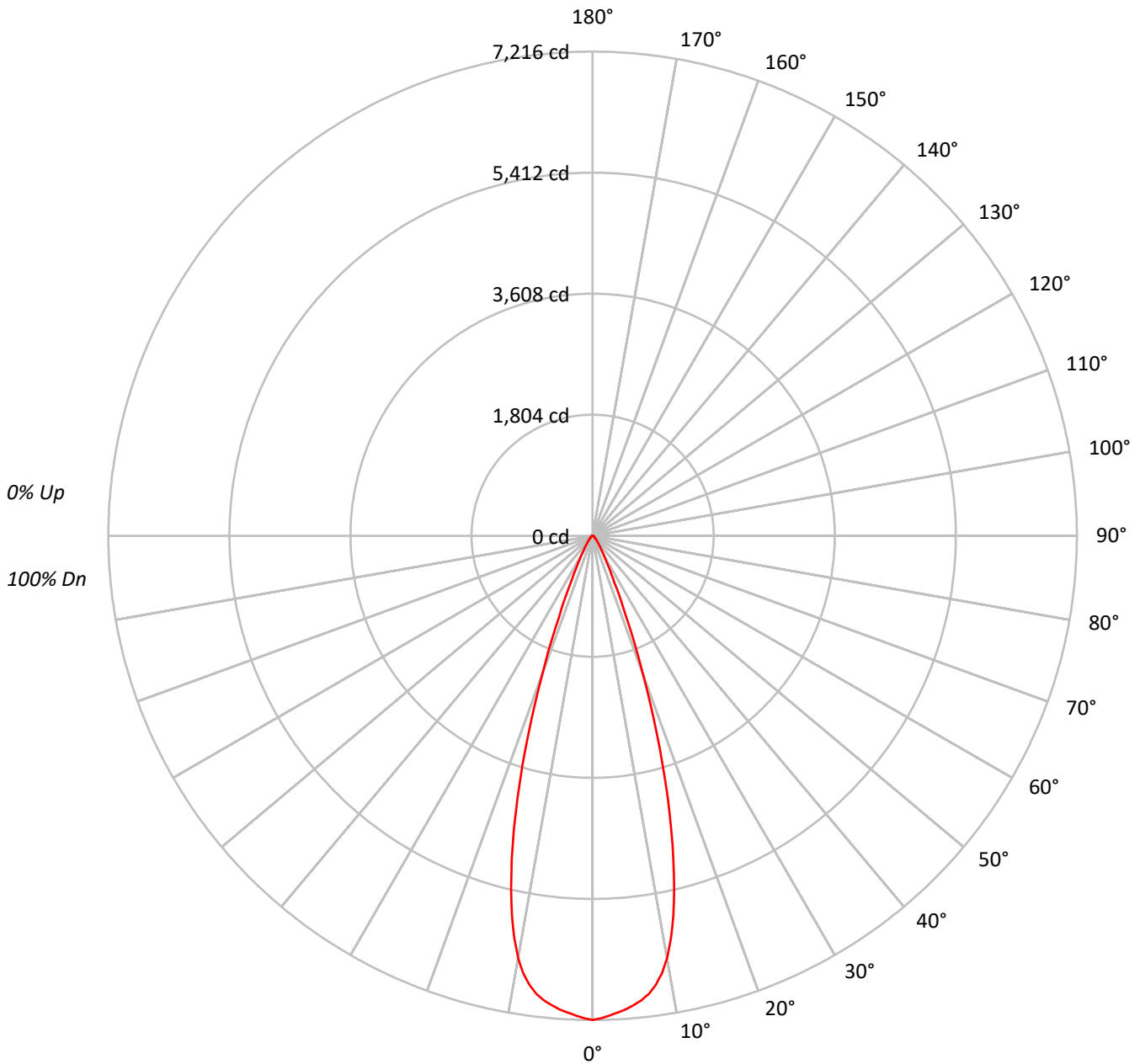
Lumens per Lamp: N/A  
Luminaire Lumens: 2488.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	3560375
5°	3478290
10°	3200930
15°	2313545
20°	1142915
25°	419285
30°	189028
35°	102934
40°	63826
45°	43190
50°	32314
55°	27698
60°	24472
65°	23115
70°	21494
75°	18872
80°	21025
85°	14152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.6	26.2
10°-20°	1192.7	47.9
20°-30°	415.2	16.7
30°-40°	115.1	4.6
40°-50°	50.0	2.0
50°-60°	29.0	1.2
60°-70°	19.6	0.8
70°-80°	10.8	0.4
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°	2260.5	90.9
0°-40°	2375.6	95.5
0°-60°	2454.6	98.7
0°-90°	2488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7216	
5°	7023	653
15°	4529	1193
25°	770	415
35°	171	115
45°	62	50
55°	32	29
65°	20	20
75°	10	11
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7216.3
1°	7191.5
2°	7154.4
3°	7117.2
4°	7075.1
5°	7023.1
6°	6958.7
7°	6879.5
8°	6758.1
9°	6602.1
10°	6389.2
11°	6116.7
12°	5787.4
13°	5401.1
14°	4977.6
15°	4529.4
16°	4051.4
17°	3571.0
18°	3088.1
19°	2622.5
20°	2176.8
22.5°	1297.6
25°	770.2
26°	641.4
27°	534.9
28°	453.2
29°	386.3
30°	331.8
32.5°	235.3
35°	170.9
37.5°	128.8
40°	99.1
42.5°	76.8
45°	61.9
47.5°	52.0
50°	42.1
52.5°	37.1
55°	32.2
57.5°	27.2
60°	24.8
62.5°	22.3
65°	19.8
67.5°	17.3



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	9.9
77.5°	7.4
80°	7.4
82.5°	5.0
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







70°		14.9
72.5°		12.4



(END OF REPORT)