

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: P430159

Luminaire Tested: **LAM4B212R359035DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430159  
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: LAM4B212R359035DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

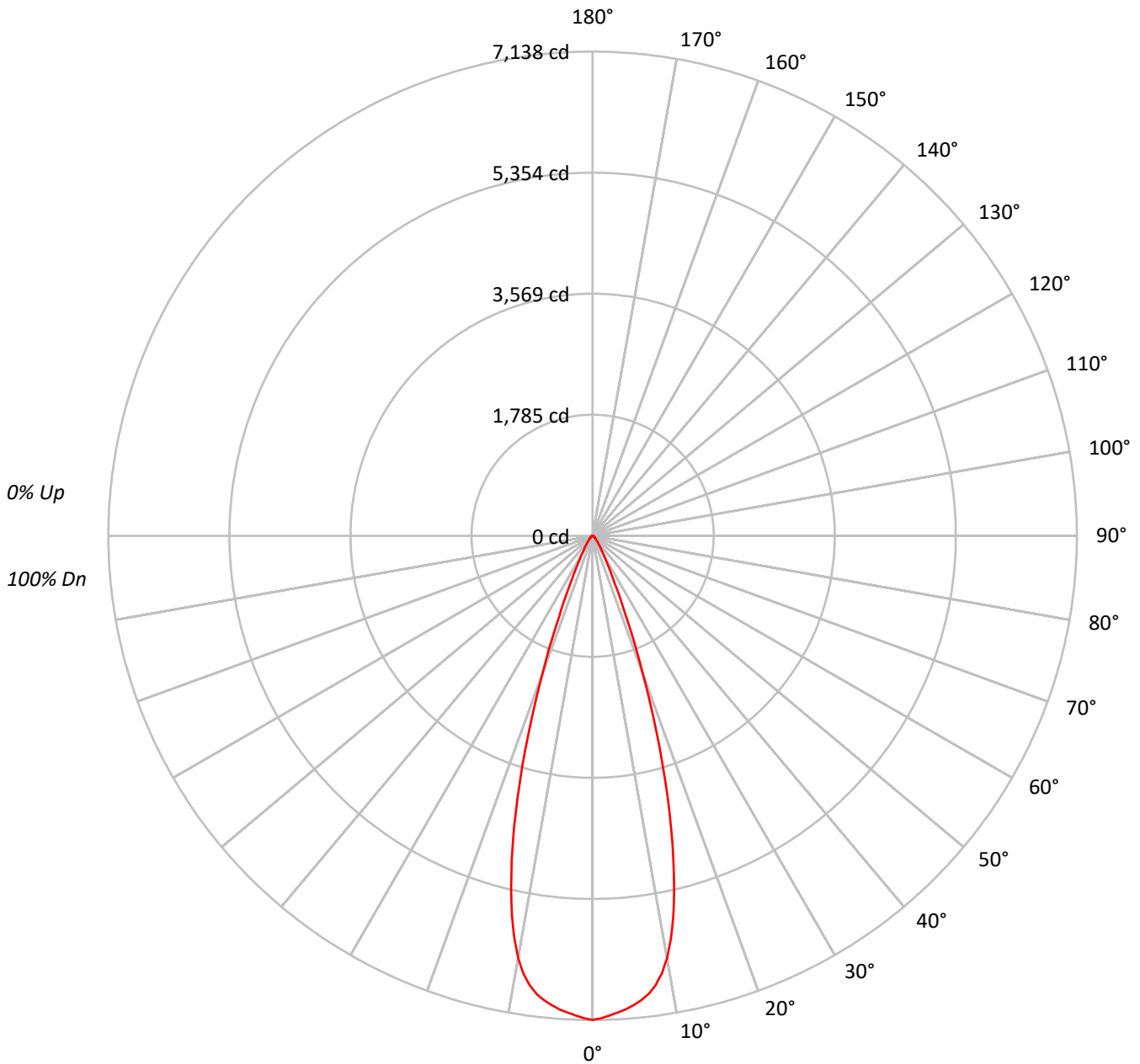
Lumens per Lamp: N/A  
Luminaire Lumens: 2460.8 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	3521645
5°	3440501
10°	3166111
15°	2288364
20°	1130471
25°	414712
30°	186977
35°	101790
40°	63118
45°	42702
50°	31931
55°	27354
60°	24176
65°	22882
70°	21205
75°	18681
80°	20741
85°	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.5	26.2
10°-20°	1179.7	47.9
20°-30°	410.7	16.7
30°-40°	113.8	4.6
40°-50°	49.4	2.0
50°-60°	28.7	1.2
60°-70°	19.4	0.8
70°-80°	10.6	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°	2235.9	90.9
0°-40°	2349.7	95.5
0°-60°	2427.8	98.7
0°-90°	2460.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7138	
5°	6947	645
15°	4480	1180
25°	762	411
35°	169	114
45°	61	49
55°	32	29
65°	20	19
75°	10	11
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7137.8
1°	7113.3
2°	7076.6
3°	7039.9
4°	6998.2
5°	6946.8
6°	6883.1
7°	6804.7
8°	6684.7
9°	6530.4
10°	6319.7
11°	6050.3
12°	5724.5
13°	5342.4
14°	4923.5
15°	4480.1
16°	4007.4
17°	3532.2
18°	3054.5
19°	2594.0
20°	2153.1
22.5°	1283.5
25°	761.8
26°	634.4
27°	529.1
28°	448.3
29°	382.1
30°	328.2
32.5°	232.7
35°	169.0
37.5°	127.4
40°	98.0
42.5°	75.9
45°	61.2
47.5°	51.4
50°	41.6
52.5°	36.7
55°	31.8
57.5°	26.9
60°	24.5
62.5°	22.0
65°	19.6
67.5°	17.1



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**CANDELA DISTRIBUTION (continued):**

	0°
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°







70°		14.7
72.5°		12.2



(END OF REPORT)