

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: P430900

Luminaire Tested: **LAM4B412R709030DE01021MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B412R709030DE01021MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

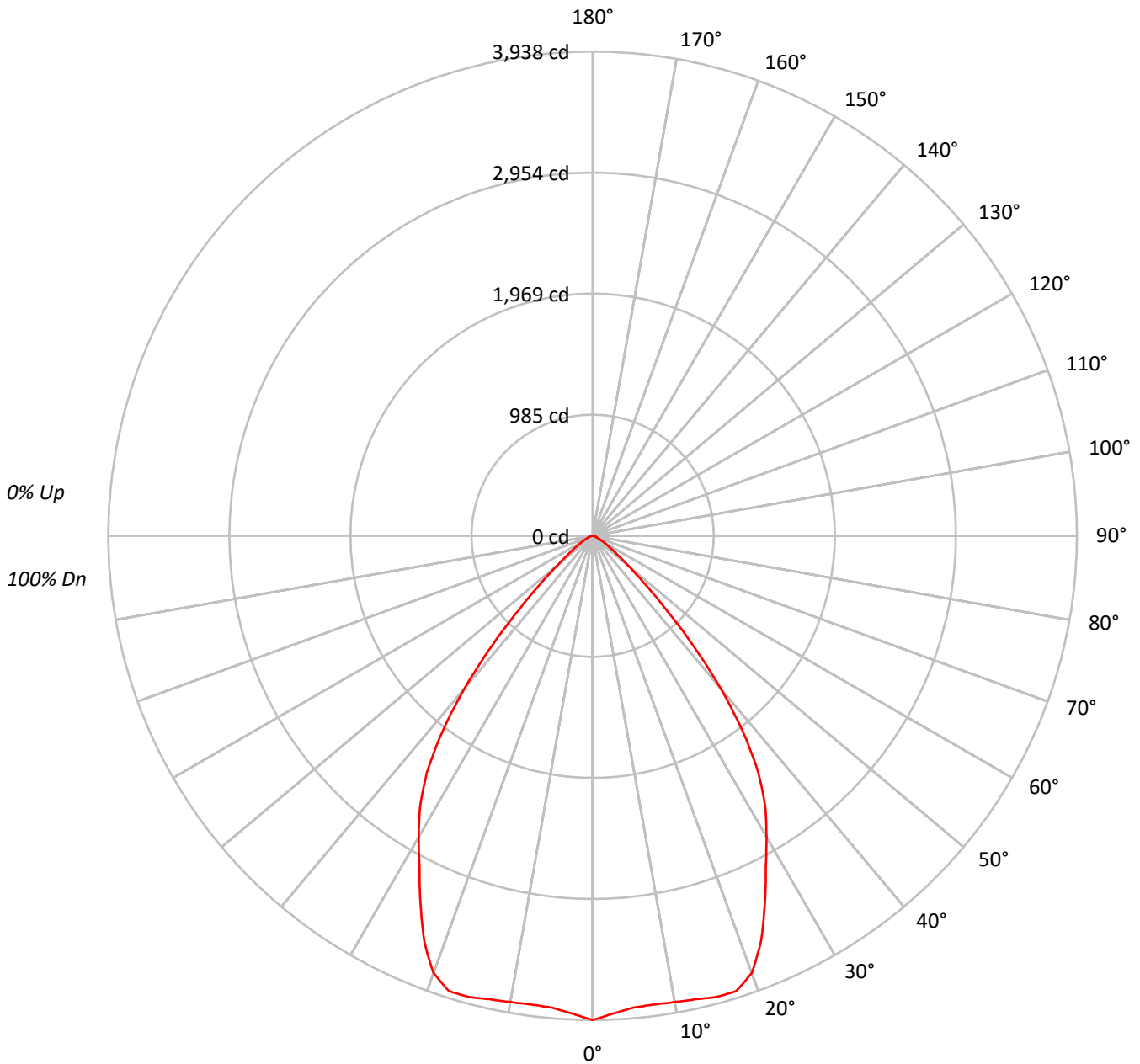
Lumens per Lamp: N/A  
Luminaire Lumens: 5358.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.1  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

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

	0°
0°	1943175
5°	1907015
10°	1929065
15°	1983630
20°	1986975
25°	1802674
30°	1610729
35°	1414694
40°	1041576
45°	583384
50°	287068
55°	160854
60°	97689
65°	64209
70°	47604
75°	41938
80°	31254
85°	31135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	6.9
10°-20°	1094.3	20.4
20°-30°	1518.6	28.3
30°-40°	1428.7	26.7
40°-50°	682.0	12.7
50°-60°	180.3	3.4
60°-70°	56.9	1.1
70°-80°	23.2	0.4
80°-90°	6.0	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°	2981.0	55.6
0°-40°	4409.7	82.3
0°-60°	5272.0	98.4
0°-90°	5358.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3938	
5°	3850	368
15°	3884	1094
25°	3311	1519
35°	2349	1429
45°	836	682
55°	187	180
65°	55	57
75°	22	23
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3938.5
2.5°	3889.0
5°	3850.5
7.5°	3844.9
10°	3850.5
12.5°	3861.5
15°	3883.5
17.5°	3883.5
20°	3784.4
22.5°	3575.4
25°	3311.4
27.5°	3047.4
30°	2827.3
32.5°	2612.8
35°	2348.8
37.5°	2007.7
40°	1617.2
42.5°	1204.6
45°	836.1
47.5°	555.6
50°	374.0
52.5°	258.5
55°	187.0
57.5°	132.0
60°	99.0
62.5°	71.5
65°	55.0
67.5°	38.5
70°	33.0
72.5°	27.5
75°	22.0
77.5°	16.5
80°	11.0
82.5°	11.0
85°	5.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)