

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: P430909

Luminaire Tested: **LAM4B412R709050DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430909
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: LAM4B412R709050DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

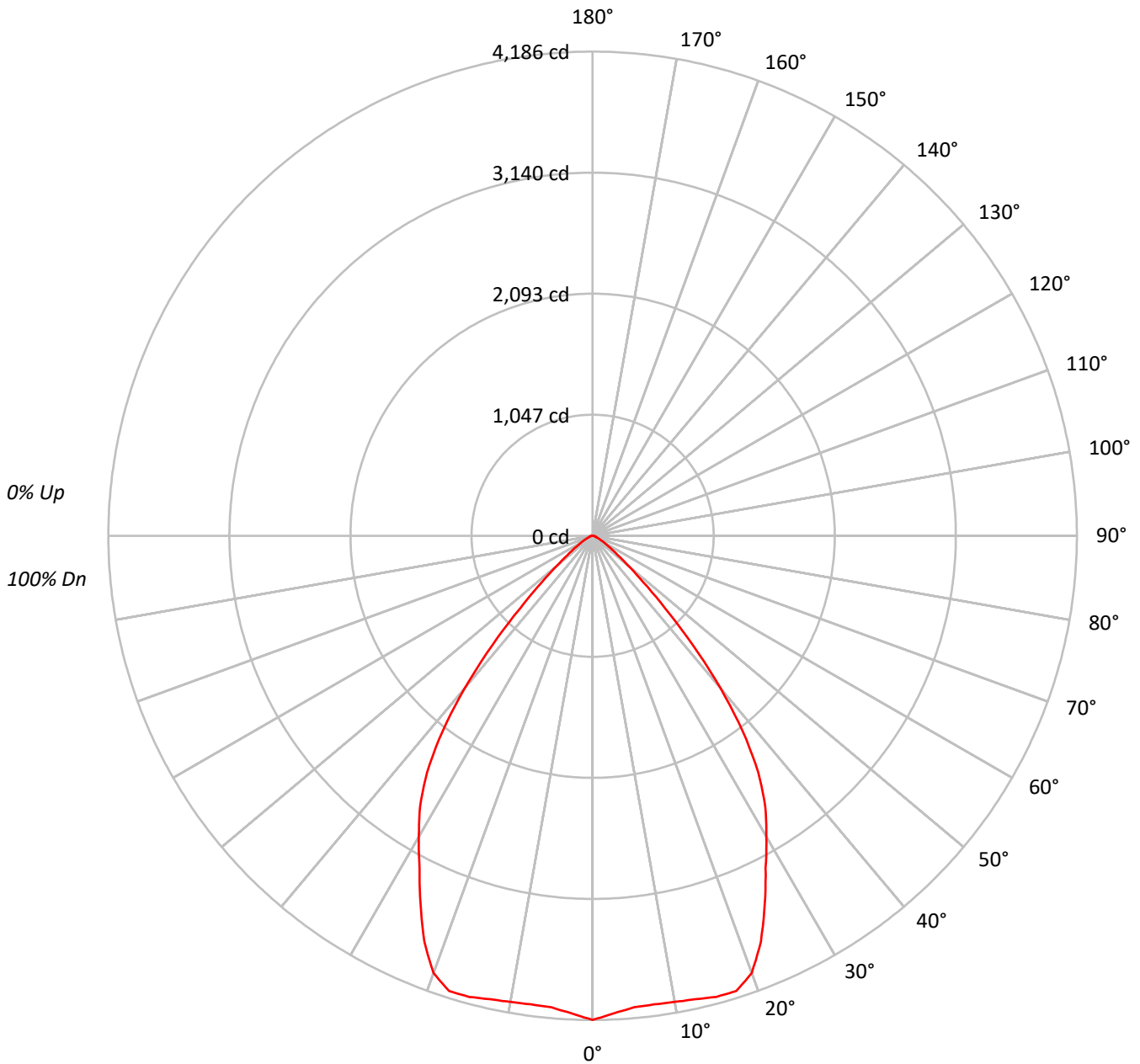
Lumens per Lamp: N/A
Luminaire Lumens: 5694.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2065139
5°	2026671
10°	2050104
15°	2108108
20°	2111725
25°	1915797
30°	1711851
35°	1503474
40°	1106948
45°	620015
50°	305106
55°	171004
60°	103807
65°	68295
70°	50633
75°	44607
80°	33243
85°	32833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.2	6.9
10°-20°	1163.0	20.4
20°-30°	1613.9	28.3
30°-40°	1518.4	26.7
40°-50°	724.9	12.7
50°-60°	191.6	3.4
60°-70°	60.5	1.1
70°-80°	24.6	0.4
80°-90°	6.3	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°	3168.0	55.6
0°-40°	4686.5	82.3
0°-60°	5602.9	98.4
0°-90°	5694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5694.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4186	
5°	4092	391
15°	4127	1163
25°	3519	1614
35°	2496	1518
45°	889	725
55°	199	192
65°	58	60
75°	23	25
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4185.7
2.5°	4133.0
5°	4092.1
7.5°	4086.3
10°	4092.1
12.5°	4103.8
15°	4127.2
17.5°	4127.2
20°	4022.0
22.5°	3799.8
25°	3519.2
27.5°	3238.6
30°	3004.8
32.5°	2776.8
35°	2496.2
37.5°	2133.8
40°	1718.7
42.5°	1280.3
45°	888.6
47.5°	590.4
50°	397.5
52.5°	274.8
55°	198.8
57.5°	140.3
60°	105.2
62.5°	76.0
65°	58.5
67.5°	40.9
70°	35.1
72.5°	29.2
75°	23.4
77.5°	17.5
80°	11.7
82.5°	11.7
85°	5.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)