

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: P432068

Luminaire Tested: **LAMR4B412R709730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432068
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: LAMR4B412R709730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5126.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

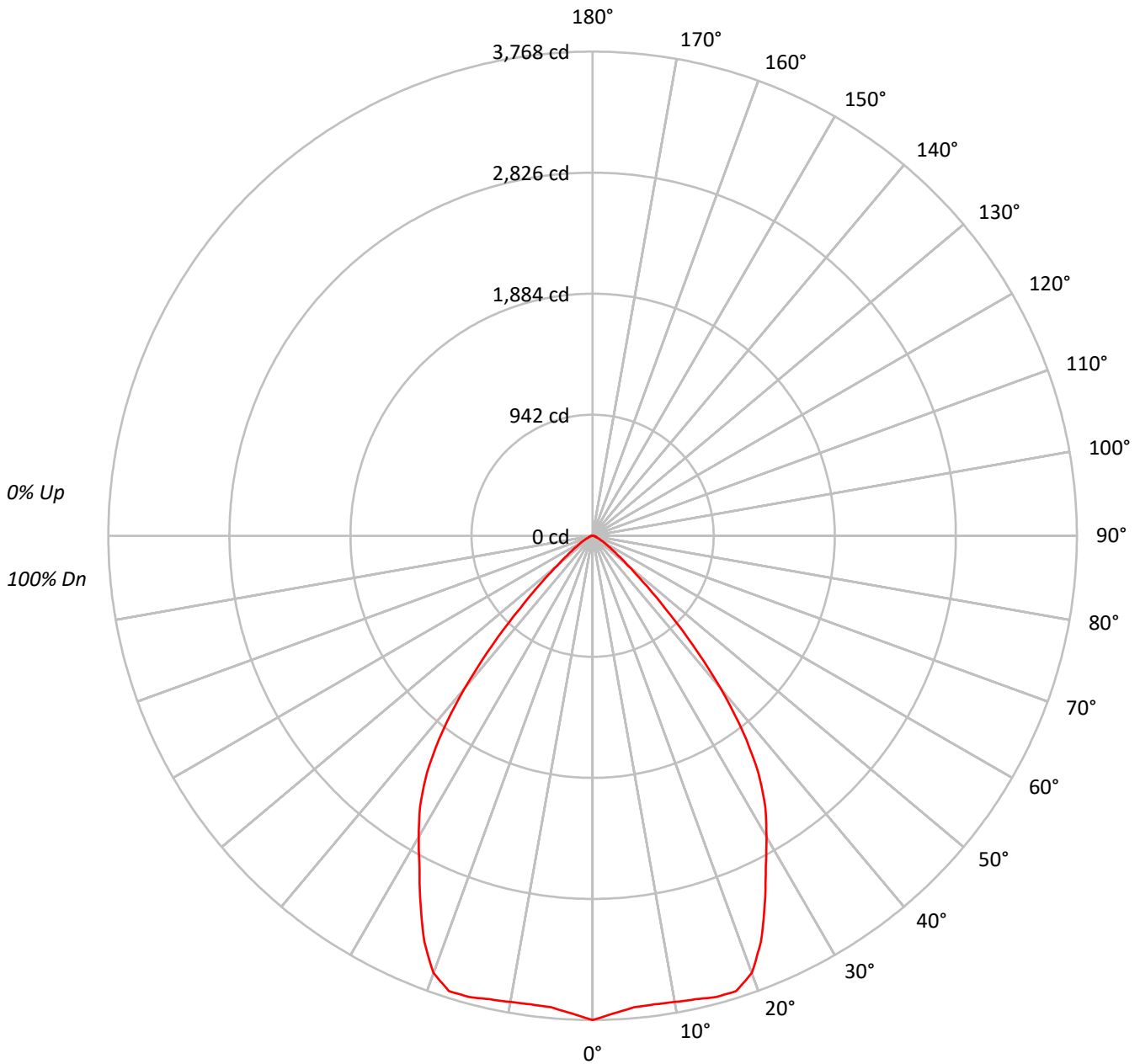
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1859103
5°	1824504
10°	1845600
15°	1897818
20°	1901025
25°	1724663
30°	1541054
35°	1353500
40°	996492
45°	558125
50°	274711
55°	153886
60°	93446
65°	61407
70°	45584
75°	40222
80°	29833
85°	30003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.2	6.9
10°-20°	1046.9	20.4
20°-30°	1452.9	28.3
30°-40°	1366.9	26.7
40°-50°	652.5	12.7
50°-60°	172.5	3.4
60°-70°	54.4	1.1
70°-80°	22.2	0.4
80°-90°	5.7	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°	2852.0	55.6
0°-40°	4218.9	82.3
0°-60°	5043.9	98.4
0°-90°	5126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5126.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3768	
5°	3684	352
15°	3716	1047
25°	3168	1453
35°	2247	1367
45°	800	653
55°	179	172
65°	53	54
75°	21	22
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3768.1
2.5°	3720.7
5°	3683.9
7.5°	3678.6
10°	3683.9
12.5°	3694.4
15°	3715.5
17.5°	3715.5
20°	3620.7
22.5°	3420.8
25°	3168.1
27.5°	2915.5
30°	2705.0
32.5°	2499.8
35°	2247.2
37.5°	1920.9
40°	1547.2
42.5°	1152.5
45°	799.9
47.5°	531.5
50°	357.9
52.5°	247.3
55°	178.9
57.5°	126.3
60°	94.7
62.5°	68.4
65°	52.6
67.5°	36.8
70°	31.6
72.5°	26.3
75°	21.1
77.5°	15.8
80°	10.5
82.5°	10.5
85°	5.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)