

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: P432050

Luminaire Tested: **LAMR4B412R709027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432050
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: LAMR4B412R709027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5111.5 lumens
Efficiency: N/A
Efficacy: 94.5 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

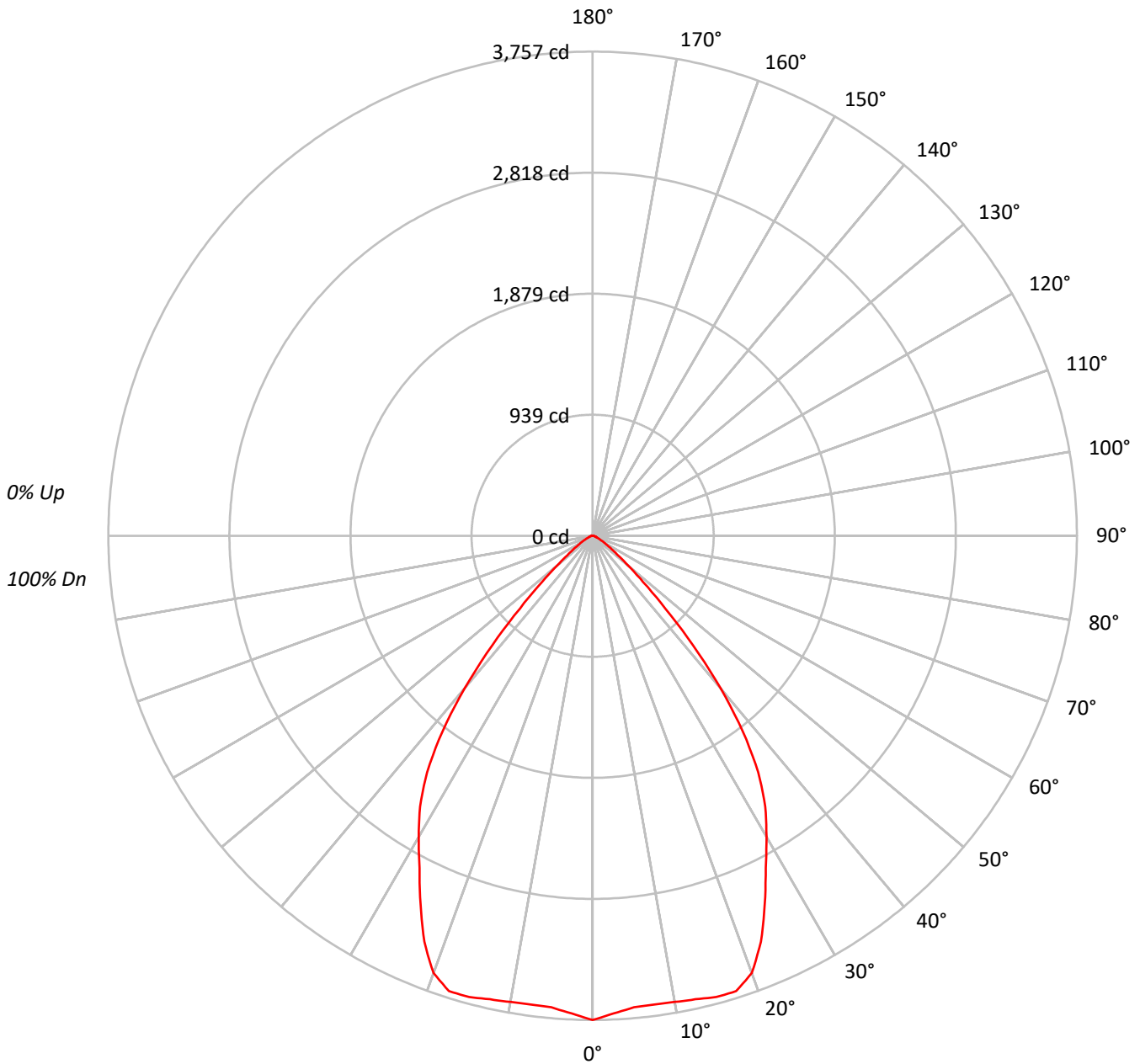
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1853726
5°	1819254
10°	1840289
15°	1892353
20°	1895565
25°	1719709
30°	1536610
35°	1349585
40°	993658
45°	556521
50°	273866
55°	153456
60°	93249
65°	61290
70°	45440
75°	40032
80°	29833
85°	29437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	6.9
10°-20°	1043.9	20.4
20°-30°	1448.7	28.3
30°-40°	1363.0	26.7
40°-50°	650.6	12.7
50°-60°	172.0	3.4
60°-70°	54.3	1.1
70°-80°	22.1	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°	2843.8	55.6
0°-40°	4206.8	82.3
0°-60°	5029.4	98.4
0°-90°	5111.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5111.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3757	
5°	3673	351
15°	3705	1044
25°	3159	1449
35°	2241	1363
45°	798	651
55°	178	172
65°	52	54
75°	21	22
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3757.2
2.5°	3710.0
5°	3673.3
7.5°	3668.0
10°	3673.3
12.5°	3683.8
15°	3704.8
17.5°	3704.8
20°	3610.3
22.5°	3410.9
25°	3159.0
27.5°	2907.1
30°	2697.2
32.5°	2492.6
35°	2240.7
37.5°	1915.4
40°	1542.8
42.5°	1149.2
45°	797.6
47.5°	530.0
50°	356.8
52.5°	246.6
55°	178.4
57.5°	125.9
60°	94.5
62.5°	68.2
65°	52.5
67.5°	36.7
70°	31.5
72.5°	26.2
75°	21.0
77.5°	15.7
80°	10.5
82.5°	10.5
85°	5.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)