

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: P430727

Luminaire Tested: **LAM4B412R359024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430727
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: LAM4B412R359024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

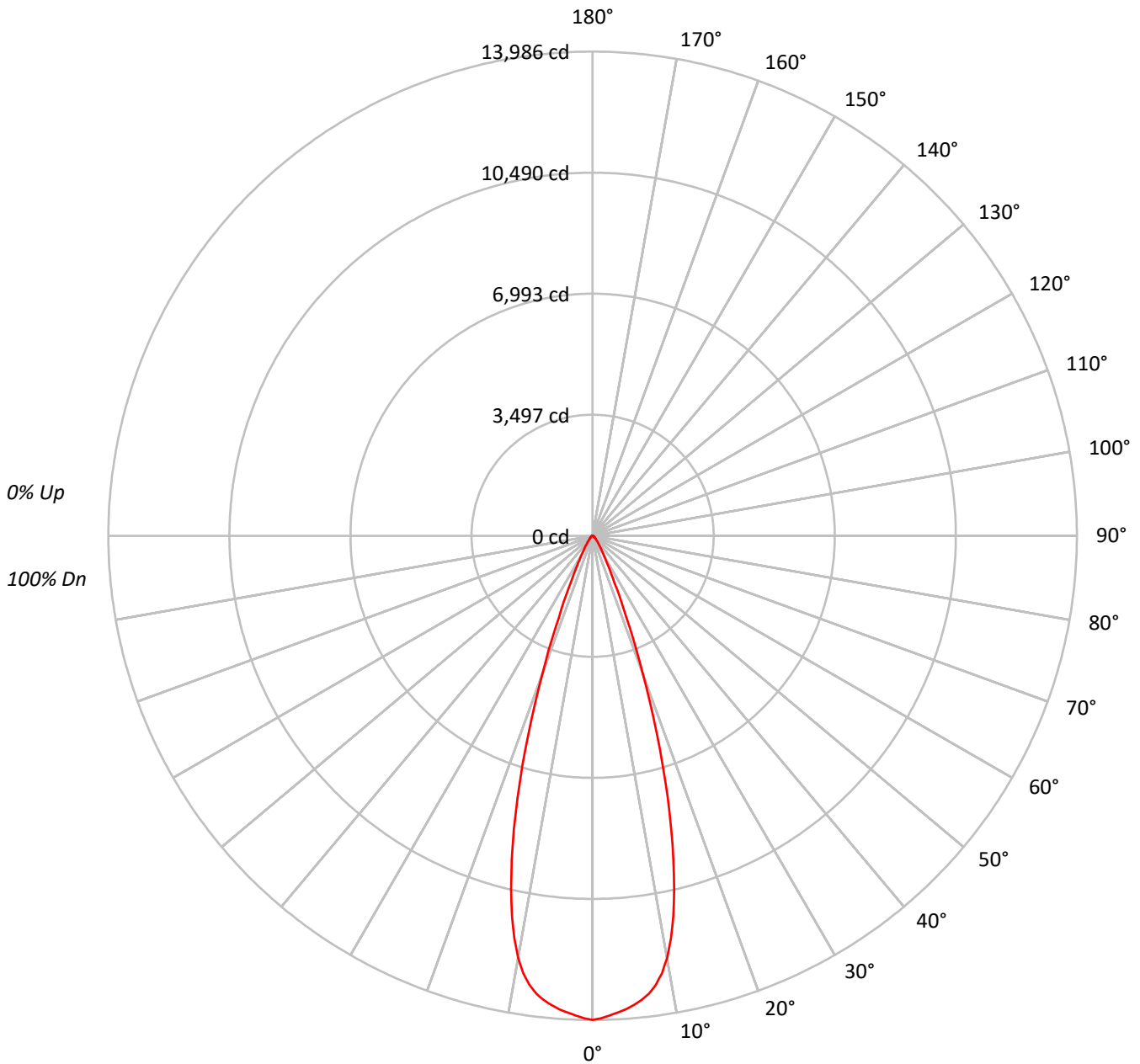
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6900357
5°	6741338
10°	6203718
15°	4483867
20°	2215054
25°	812602
30°	366378
35°	199483
40°	123660
45°	83729
50°	62633
55°	53675
60°	47364
65°	44830
70°	41545
75°	36600
80°	40914
85°	27172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1264.8	26.2
10°-20°	2311.5	47.9
20°-30°	804.7	16.7
30°-40°	223.1	4.6
40°-50°	96.9	2.0
50°-60°	56.2	1.2
60°-70°	38.0	0.8
70°-80°	20.9	0.4
80°-90°	5.9	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°	4381.0	90.9
0°-40°	4604.1	95.5
0°-60°	4757.2	98.7
0°-90°	4822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4822.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13986	
5°	13612	###
15°	8778	2311
25°	1493	805
35°	331	223
45°	120	97
55°	62	56
65°	38	38
75°	19	21
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13985.9
1°	13937.9
2°	13865.9
3°	13794.0
4°	13712.4
5°	13611.6
6°	13486.8
7°	13333.2
8°	13098.0
9°	12795.6
10°	12382.9
11°	11854.9
12°	11216.6
13°	10467.9
14°	9647.1
15°	8778.4
16°	7852.1
17°	6921.0
18°	5985.1
19°	5082.7
20°	4218.8
22.5°	2515.0
25°	1492.7
26°	1243.1
27°	1036.7
28°	878.3
29°	748.7
30°	643.1
32.5°	456.0
35°	331.2
37.5°	249.6
40°	192.0
42.5°	148.8
45°	120.0
47.5°	100.8
50°	81.6
52.5°	72.0
55°	62.4
57.5°	52.8
60°	48.0
62.5°	43.2
65°	38.4
67.5°	33.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	19.2
77.5°	14.4
80°	14.4
82.5°	9.6
85°	4.8
87.5°	0.0
90°	0.0



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— 0°-180°







70°		28.8
72.5°		24.0



(END OF REPORT)