

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: P433022

Luminaire Tested: **LAM4B408R109050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R109050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3642.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

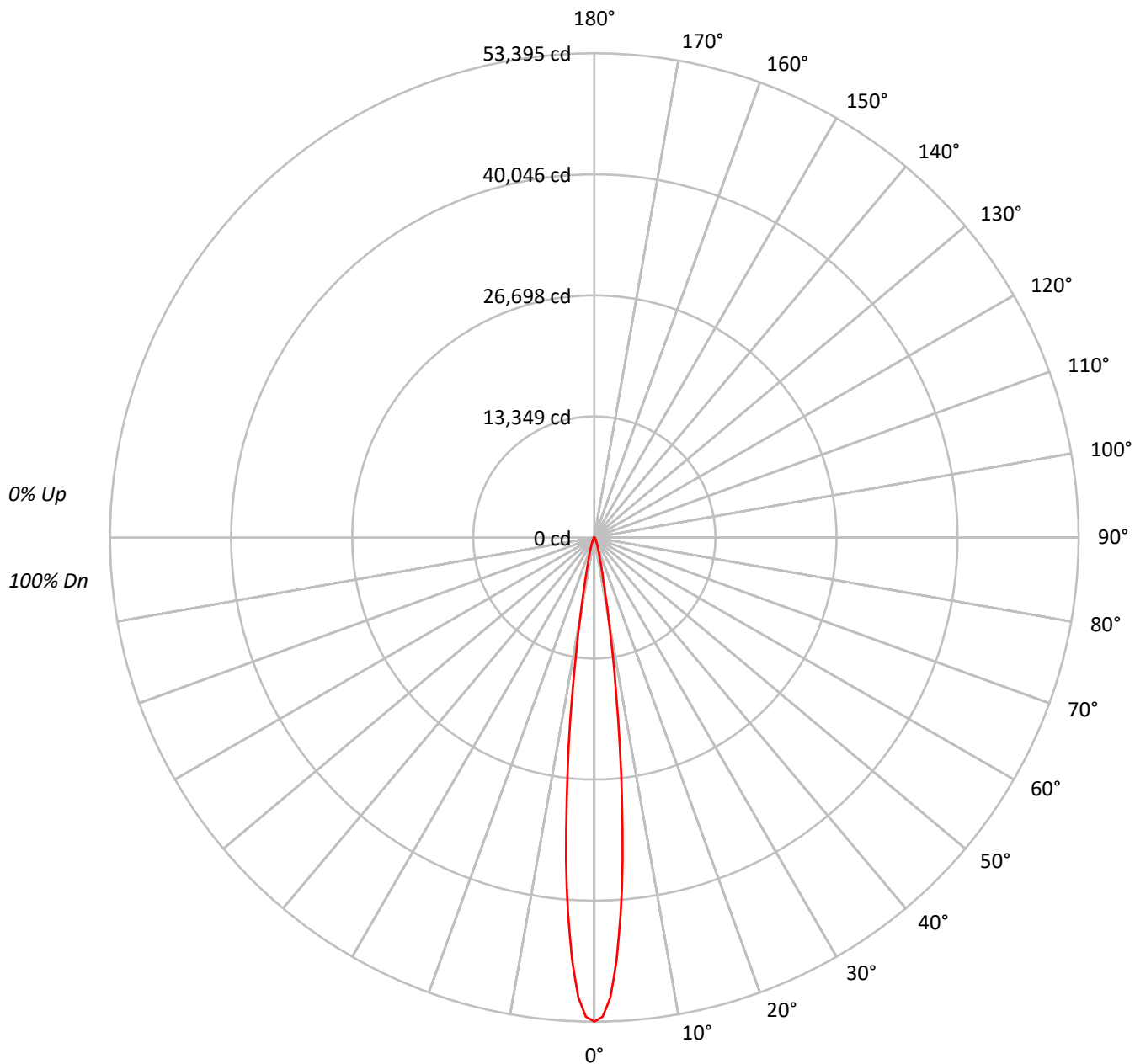
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26344050
5°	17695641
10°	4516231
15°	1169134
20°	523836
25°	249219
30°	133767
35°	77758
40°	60477
45°	32794
50°	27018
55°	20214
60°	23189
65°	13659
70°	16878
75°	22303
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2455.5	67.4
10°-20°	781.8	21.5
20°-30°	228.3	6.3
30°-40°	86.9	2.4
40°-50°	41.4	1.1
50°-60°	24.9	0.7
60°-70°	13.0	0.4
70°-80°	10.8	0.3
80°-90°	0.0	0.0
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°	3465.7	95.1
0°-40°	3552.5	97.5
0°-60°	3618.8	99.3
0°-90°	3642.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	53395	
5°	35730	###
15°	2289	782
25°	458	228
35°	129	87
45°	47	41
55°	24	25
65°	12	13
75°	12	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	53395.1
1°	52878.6
2°	50742.3
3°	46669.3
4°	41633.8
5°	35729.7
6°	29203.5
7°	23182.1
8°	17313.2
9°	12618.1
10°	9014.6
11°	6385.3
12°	4730.3
13°	3591.8
14°	2852.3
15°	2288.9
17.5°	1490.7
20°	997.7
22.5°	669.1
25°	457.8
27.5°	316.9
30°	234.8
32.5°	164.3
35°	129.1
37.5°	105.6
40°	93.9
42.5°	70.4
45°	47.0
47.5°	35.2
50°	35.2
52.5°	35.2
55°	23.5
57.5°	23.5
60°	23.5
62.5°	11.7
65°	11.7
67.5°	11.7
70°	11.7
72.5°	11.7
75°	11.7
77.5°	11.7
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)