

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: P433304

Luminaire Tested: **LAM4B408R709035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433304
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: LAM4B408R709035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3239.4 lumens
Efficiency: N/A
Efficacy: 78.6 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

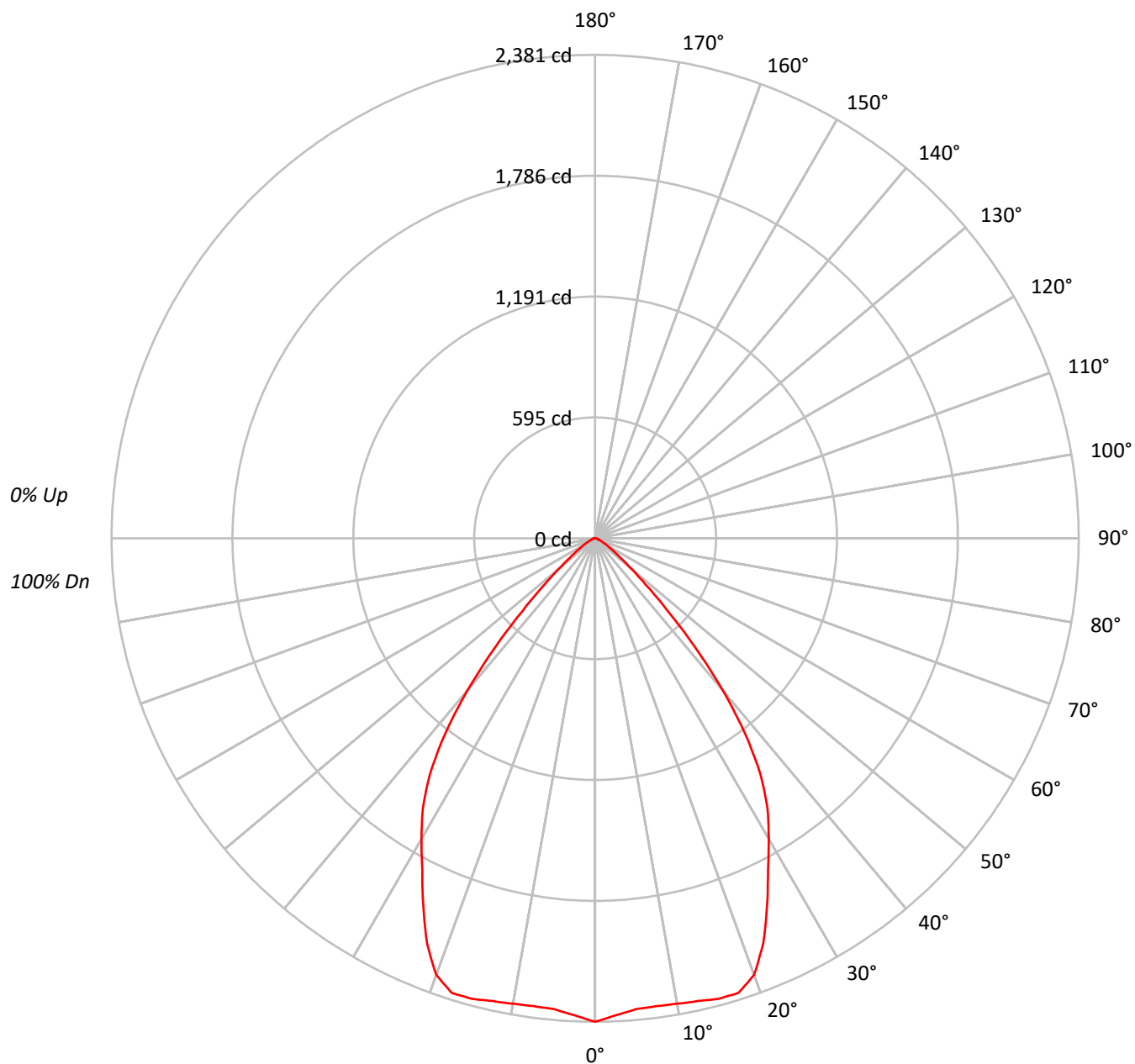
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1174737
5°	1152876
10°	1166206
15°	1199219
20°	1201247
25°	1089803
30°	973798
35°	855273
40°	629699
45°	352710
50°	173546
55°	97286
60°	59107
65°	38876
70°	28851
75°	25353
80°	19036
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	6.9
10°-20°	661.6	20.4
20°-30°	918.1	28.3
30°-40°	863.8	26.7
40°-50°	412.3	12.7
50°-60°	109.0	3.4
60°-70°	34.4	1.1
70°-80°	14.0	0.4
80°-90°	3.6	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°	1802.2	55.6
0°-40°	2665.9	82.3
0°-60°	3187.3	98.4
0°-90°	3239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2381	
5°	2328	223
15°	2348	662
25°	2002	918
35°	1420	864
45°	506	412
55°	113	109
65°	33	34
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2381.0
2.5°	2351.1
5°	2327.8
7.5°	2324.5
10°	2327.8
12.5°	2334.5
15°	2347.8
17.5°	2347.8
20°	2287.9
22.5°	2161.6
25°	2001.9
27.5°	1842.3
30°	1709.3
32.5°	1579.6
35°	1420.0
37.5°	1213.8
40°	977.7
42.5°	728.3
45°	505.5
47.5°	335.9
50°	226.1
52.5°	156.3
55°	113.1
57.5°	79.8
60°	59.9
62.5°	43.2
65°	33.3
67.5°	23.3
70°	20.0
72.5°	16.6
75°	13.3
77.5°	10.0
80°	6.7
82.5°	6.7
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)