

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: P433286

Luminaire Tested: **LAM4B408R659050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R659050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

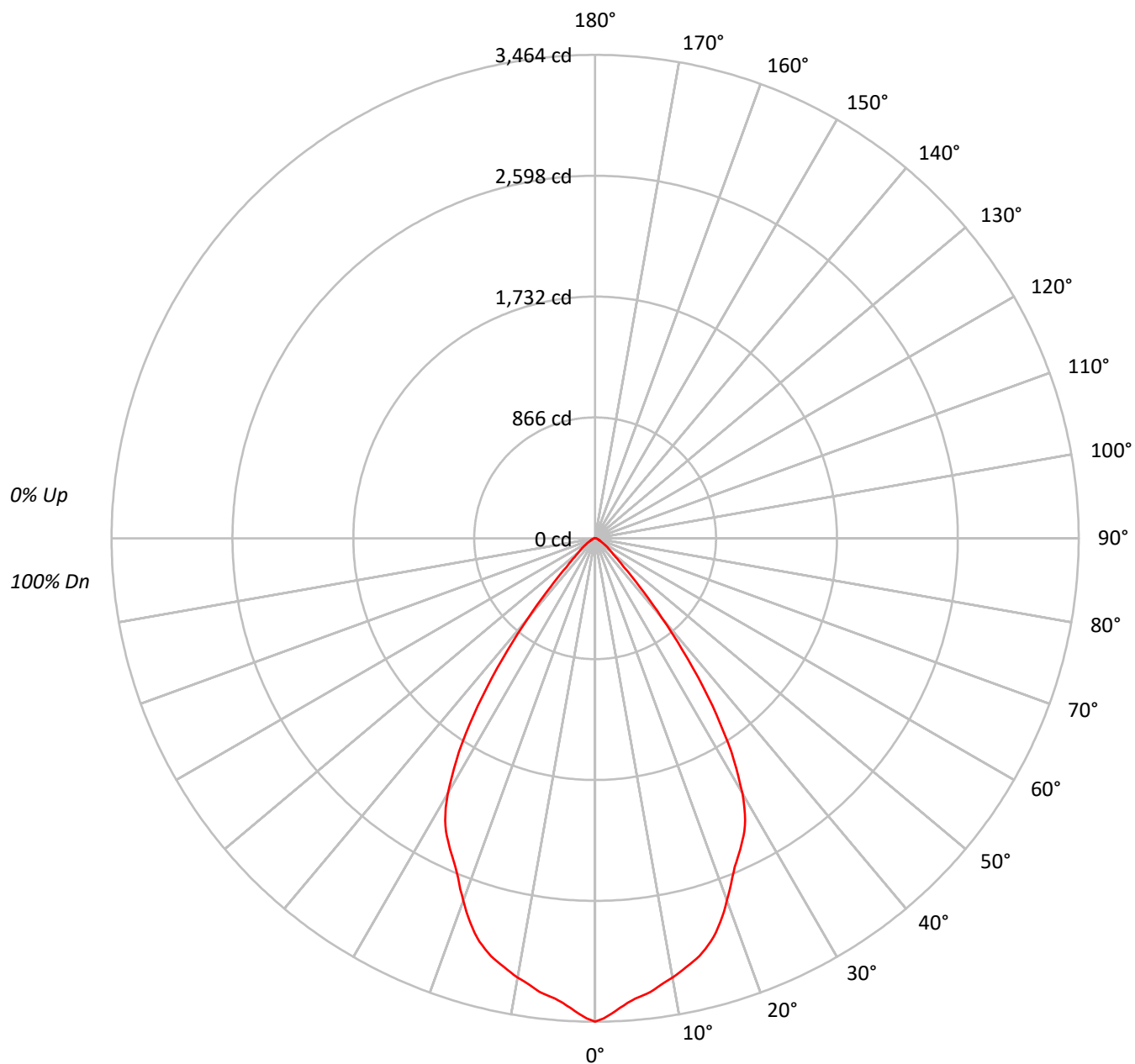
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1709067
5°	1640067
10°	1601216
15°	1556512
20°	1449540
25°	1338858
30°	1201908
35°	882979
40°	476863
45°	205067
50°	114213
55°	79997
60°	51410
65°	39109
70°	32169
75°	28403
80°	31822
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	8.7
10°-20°	850.3	23.7
20°-30°	1127.2	31.4
30°-40°	892.6	24.9
40°-50°	265.9	7.4
50°-60°	85.1	2.4
60°-70°	34.0	0.9
70°-80°	16.2	0.5
80°-90°	4.5	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°	2290.4	63.8
0°-40°	3183.1	88.7
0°-60°	3534.0	98.5
0°-90°	3588.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3464	
5°	3312	313
15°	3047	850
25°	2459	1127
35°	1466	893
45°	294	266
55°	93	85
65°	34	34
75°	15	16
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3464.0
1°	3441.7
2°	3408.2
3°	3371.0
4°	3337.5
5°	3311.5
6°	3292.9
7°	3274.3
8°	3244.5
9°	3218.5
10°	3196.1
11°	3170.1
12°	3140.3
13°	3114.3
14°	3084.5
15°	3047.3
16°	3006.4
17°	2954.3
18°	2894.7
19°	2831.5
20°	2760.8
21°	2693.8
22°	2623.1
23°	2559.9
24°	2507.8
25°	2459.4
26°	2407.3
27°	2355.2
28°	2288.3
29°	2206.4
30°	2109.7
32.5°	1815.7
35°	1466.0
37.5°	1086.5
40°	740.4
42.5°	468.8
45°	293.9
47.5°	197.2
50°	148.8
52.5°	119.1
55°	93.0
57.5°	70.7
60°	52.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	26.0
70°	22.3
72.5°	18.6
75°	14.9
77.5°	11.2
80°	11.2
82.5°	7.4
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	40.9
65°	33.5



(END OF REPORT)