

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: P433292

Luminaire Tested: **LAM4B408R659730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433292
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: LAM4B408R659730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2839.2 lumens
Efficiency: N/A
Efficacy: 68.9 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

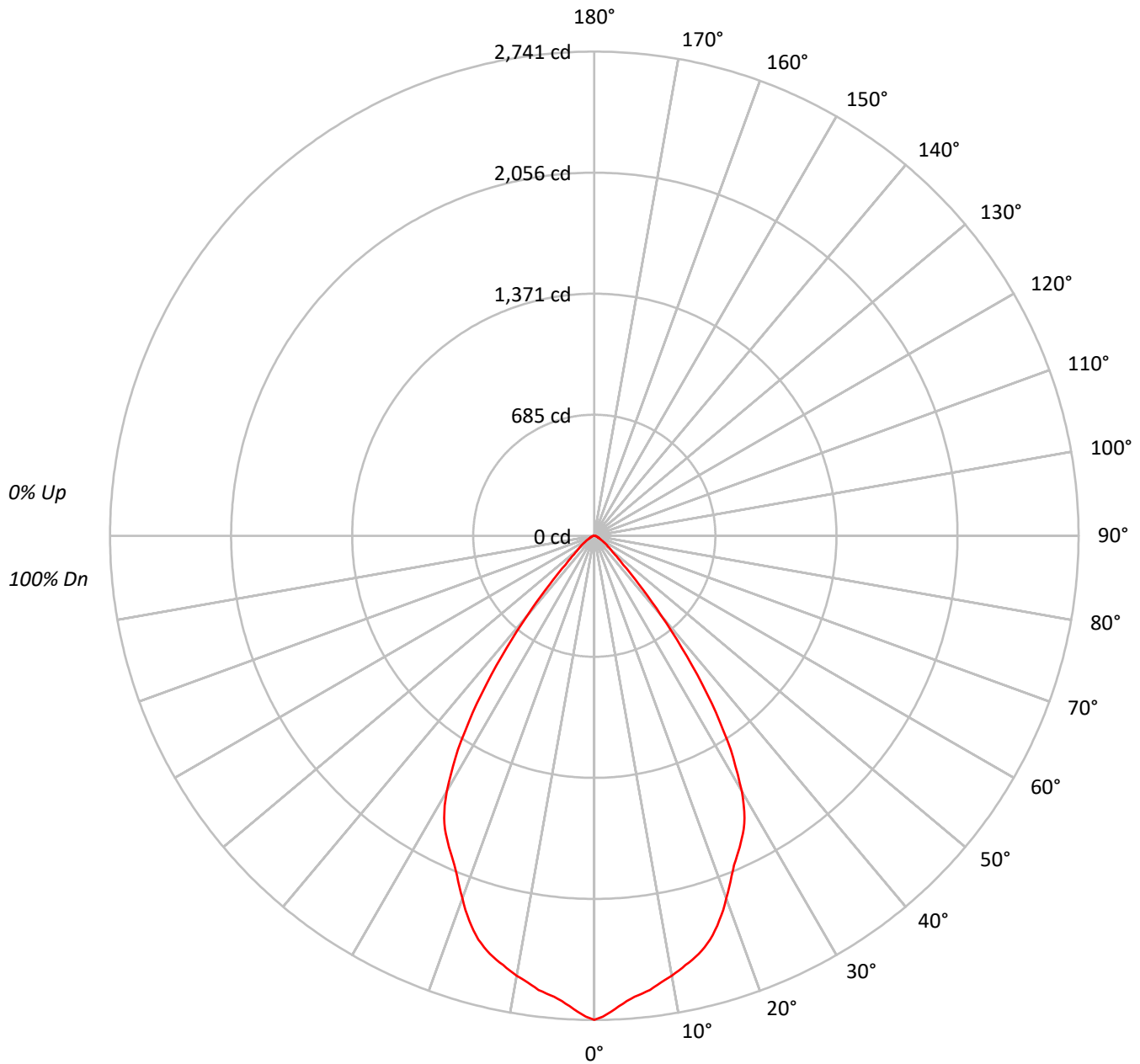
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433292

CATALOG NUMBER: LAM4B408R659730DE01021MMS

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°	1352156
5°	1297543
10°	1266805
15°	1231449
20°	1146800
25°	1059263
30°	950896
35°	698554
40°	377291
45°	162295
50°	90342
55°	63309
60°	40654
65°	30937
70°	25533
75°	22494
80°	25003
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	8.7
10°-20°	672.7	23.7
20°-30°	891.8	31.4
30°-40°	706.2	24.9
40°-50°	210.3	7.4
50°-60°	67.3	2.4
60°-70°	26.9	0.9
70°-80°	12.8	0.5
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°	1812.1	63.8
0°-40°	2518.3	88.7
0°-60°	2796.0	98.5
0°-90°	2839.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2741	
5°	2620	248
15°	2411	673
25°	1946	892
35°	1160	706
45°	233	210
55°	74	67
65°	26	27
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2740.6
1°	2722.9
2°	2696.4
3°	2667.0
4°	2640.5
5°	2619.9
6°	2605.2
7°	2590.4
8°	2566.9
9°	2546.3
10°	2528.6
11°	2508.0
12°	2484.5
13°	2463.9
14°	2440.3
15°	2410.9
16°	2378.5
17°	2337.3
18°	2290.2
19°	2240.1
20°	2184.2
21°	2131.2
22°	2075.3
23°	2025.3
24°	1984.0
25°	1945.8
26°	1904.6
27°	1863.3
28°	1810.4
29°	1745.6
30°	1669.1
32.5°	1436.5
35°	1159.8
37.5°	859.6
40°	585.8
42.5°	370.9
45°	232.6
47.5°	156.0
50°	117.7
52.5°	94.2
55°	73.6
57.5°	55.9
60°	41.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	20.6
70°	17.7
72.5°	14.7
75°	11.8
77.5°	8.8
80°	8.8
82.5°	5.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	32.4
65°	26.5



(END OF REPORT)