

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: P433143

Luminaire Tested: **LAM4B408R359050DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433143
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: LAM4B408R359050DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.5 lumens
Efficiency: N/A
Efficacy: 89.5 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

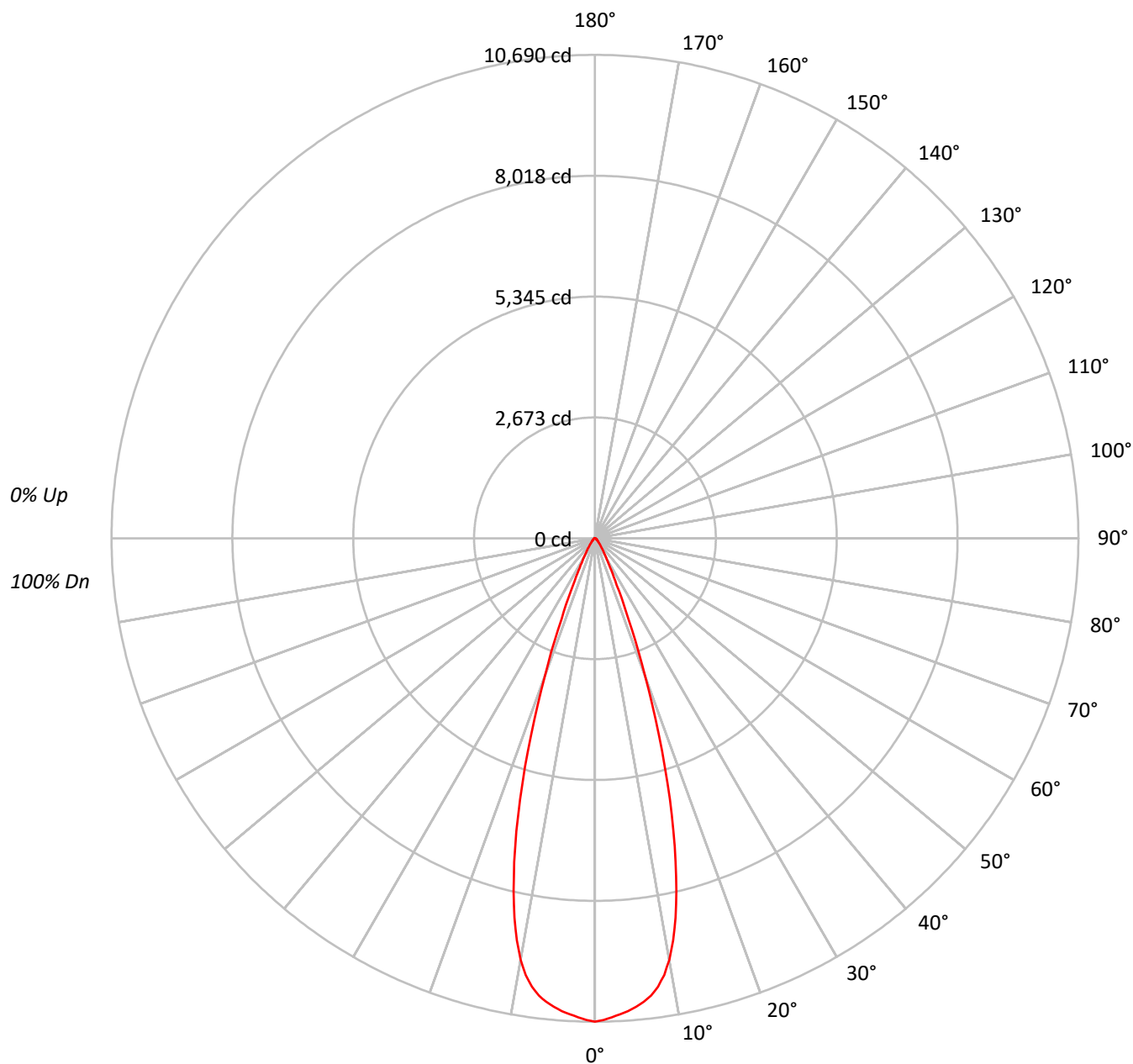
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433143

CATALOG NUMBER: LAM4B408R359050DE01021MW

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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5274129
5°	5152530
10°	4741627
15°	3427106
20°	1693003
25°	621088
30°	280067
35°	152443
40°	94484
45°	63983
50°	47896
55°	41031
60°	36214
65°	34206
70°	31736
75°	28022
80°	31254
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.7	26.2
10°-20°	1766.7	47.9
20°-30°	615.1	16.7
30°-40°	170.5	4.6
40°-50°	74.1	2.0
50°-60°	43.0	1.2
60°-70°	29.0	0.8
70°-80°	16.0	0.4
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°	3348.5	90.9
0°-40°	3519.0	95.5
0°-60°	3636.1	98.7
0°-90°	3685.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10690	
5°	10404	967
15°	6710	1767
25°	1141	615
35°	253	170
45°	92	74
55°	48	43
65°	29	29
75°	15	16
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10689.8
1°	10653.1
2°	10598.1
3°	10543.0
4°	10480.7
5°	10403.6
6°	10308.3
7°	10190.9
8°	10011.1
9°	9780.0
10°	9464.5
11°	9061.0
12°	8573.1
13°	8000.8
14°	7373.5
15°	6709.5
16°	6001.5
17°	5289.9
18°	4574.5
19°	3884.9
20°	3224.5
22.5°	1922.3
25°	1140.9
26°	950.1
27°	792.4
28°	671.3
29°	572.3
30°	491.6
32.5°	348.5
35°	253.1
37.5°	190.8
40°	146.7
42.5°	113.7
45°	91.7
47.5°	77.0
50°	62.4
52.5°	55.0
55°	47.7
57.5°	40.4
60°	36.7
62.5°	33.0
65°	29.3
67.5°	25.7



TEST NUMBER: P433143

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CANDELA DISTRIBUTION (continued):

	0°
75°	14.7
77.5°	11.0
80°	11.0
82.5°	7.3
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	22.0
72.5°	18.3



(END OF REPORT)