

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: P433134

Luminaire Tested: **LAM4B408R359030DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433134
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: LAM4B408R359030DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.8 lumens
Efficiency: N/A
Efficacy: 76.6 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

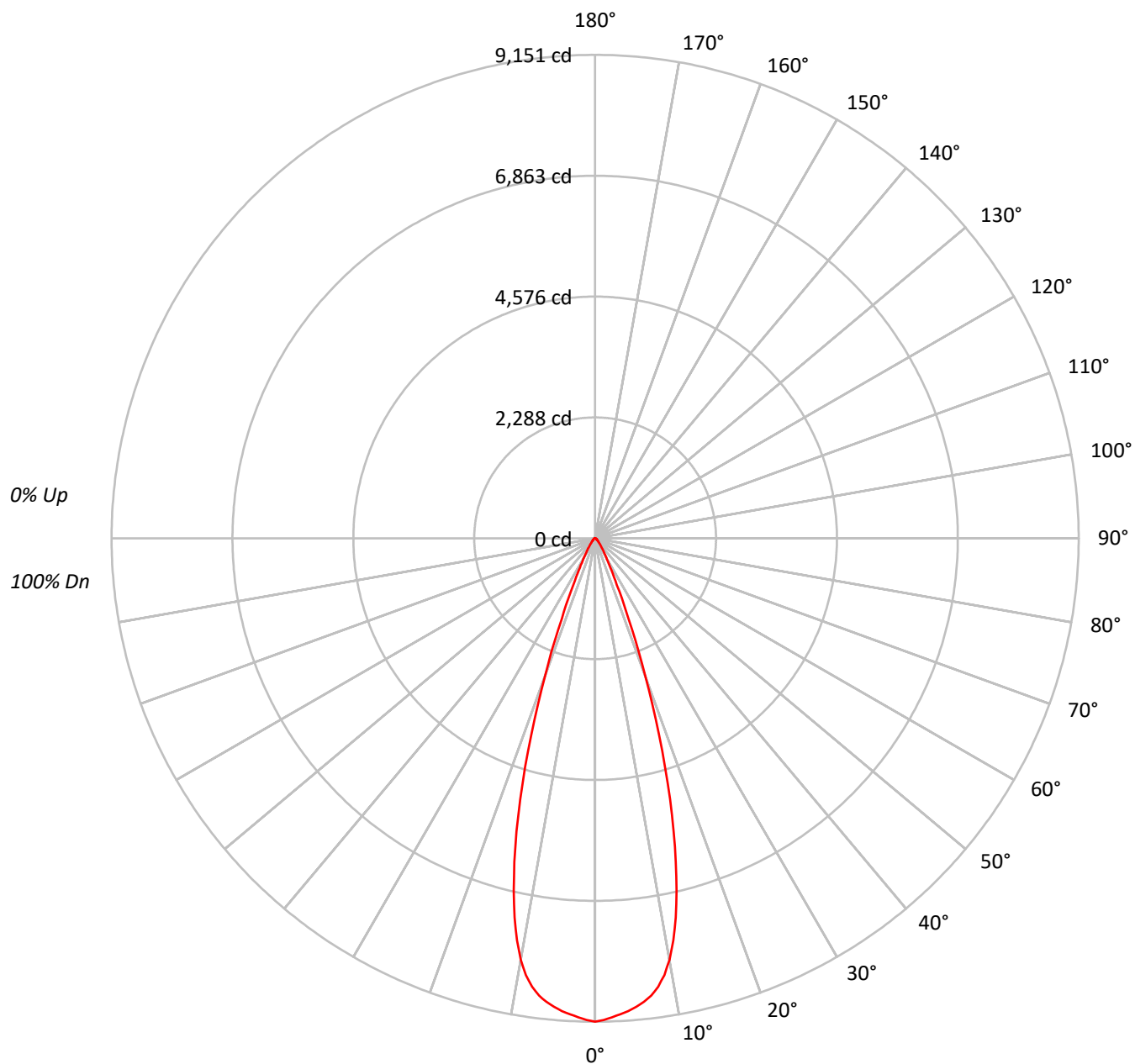
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433134

CATALOG NUMBER: LAM4B408R359030DE01021MW

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°	4514719
5°	4410625
10°	4058877
15°	2933637
20°	1449225
25°	531646
30°	239732
35°	130520
40°	80894
45°	54773
50°	40988
55°	35095
60°	30984
65°	29303
70°	27120
75°	24019
80°	26708
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.5	26.2
10°-20°	1512.3	47.9
20°-30°	526.5	16.7
30°-40°	145.9	4.6
40°-50°	63.4	2.0
50°-60°	36.8	1.2
60°-70°	24.9	0.8
70°-80°	13.7	0.4
80°-90°	3.8	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°	2866.4	90.9
0°-40°	3012.3	95.5
0°-60°	3112.5	98.7
0°-90°	3154.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9151	
5°	8906	828
15°	5743	1512
25°	977	527
35°	217	146
45°	78	63
55°	41	37
65°	25	25
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9150.6
1°	9119.2
2°	9072.1
3°	9025.0
4°	8971.6
5°	8905.6
6°	8824.0
7°	8723.5
8°	8569.6
9°	8371.8
10°	8101.7
11°	7756.3
12°	7338.7
13°	6848.8
14°	6311.8
15°	5743.4
16°	5137.4
17°	4528.2
18°	3915.8
19°	3325.5
20°	2760.2
22.5°	1645.5
25°	976.6
26°	813.3
27°	678.3
28°	574.7
29°	489.9
30°	420.8
32.5°	298.3
35°	216.7
37.5°	163.3
40°	125.6
42.5°	97.3
45°	78.5
47.5°	65.9
50°	53.4
52.5°	47.1
55°	40.8
57.5°	34.5
60°	31.4
62.5°	28.3
65°	25.1
67.5°	22.0



TEST NUMBER: P433134

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CANDELA DISTRIBUTION (continued):

	0°
75°	12.6
77.5°	9.4
80°	9.4
82.5°	6.3
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°	18.8
72.5°	15.7



(END OF REPORT)