

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: P433008

Luminaire Tested: **LAM4B408R109024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R109024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2779.7 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

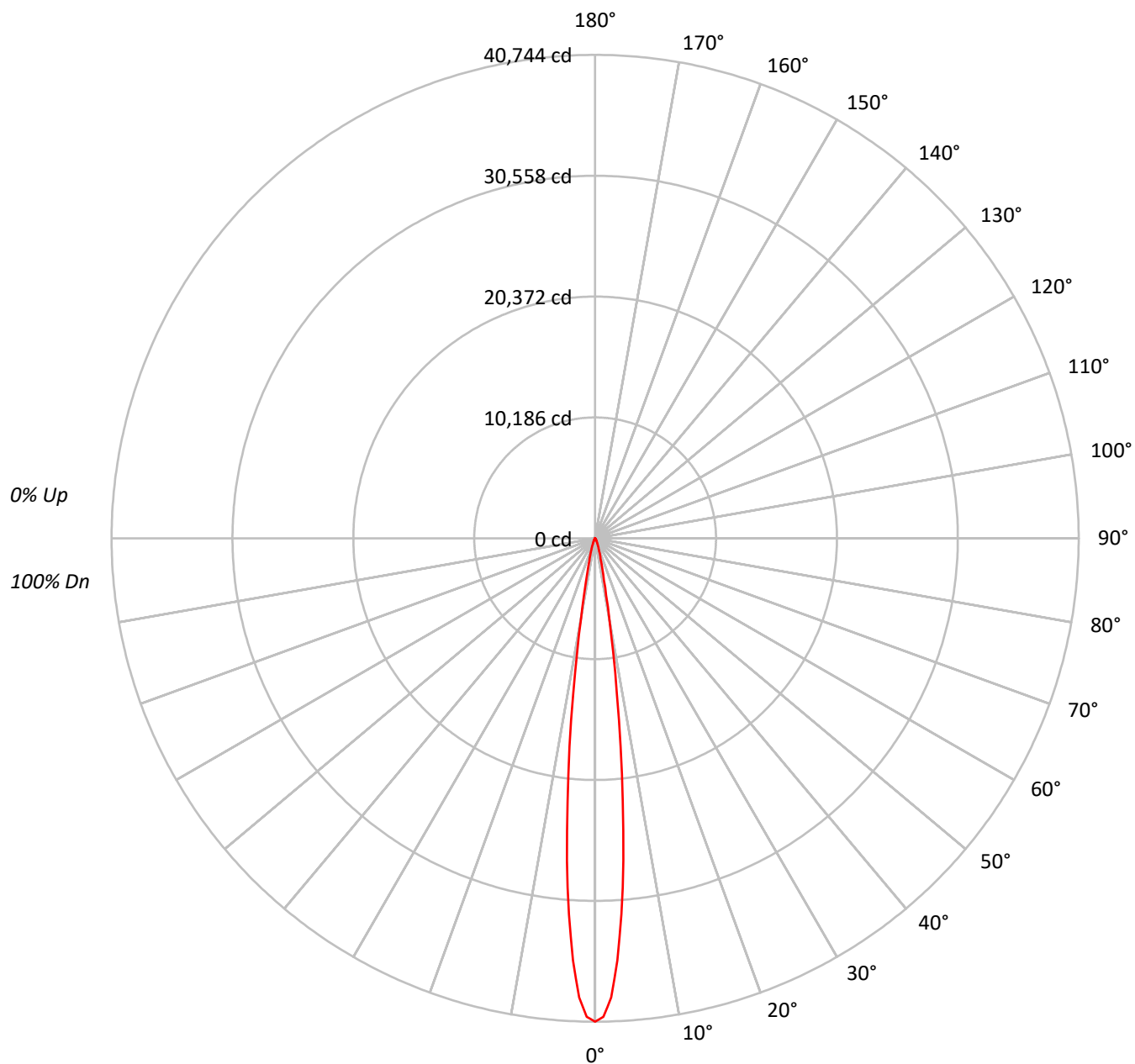
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111		113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105		111	108	106	104		105	103	102		102	101	99		99	98	97
3	110	106	103	101		108	105	102	100		102	100	98		100	98	97		98	97	95
4	108	103	100	97		106	102	99	97		100	98	96		98	96	95		97	95	94
5	105	101	97	95		104	100	97	94		98	96	94		97	95	93		96	94	92
6	103	98	95	93		102	98	95	92		97	94	92		95	93	91		94	92	91
7	102	97	93	91		101	96	93	91		95	92	90		94	92	90		93	91	90
8	100	95	92	89		99	94	91	89		94	91	89		93	90	89		92	90	88
9	98	93	90	88		98	93	90	88		92	90	88		92	89	88		91	89	87
10	97	92	89	87		96	92	89	87		91	88	87		90	88	86		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20102256
5°	13502982
10°	3446165
15°	892136
20°	399716
25°	190153
30°	102034
35°	59327
40°	46179
45°	24979
50°	20647
55°	15397
60°	17663
65°	10507
70°	12983
75°	17156
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1873.7	67.4
10°-20°	596.6	21.5
20°-30°	174.2	6.3
30°-40°	66.3	2.4
40°-50°	31.6	1.1
50°-60°	19.0	0.7
60°-70°	10.0	0.4
70°-80°	8.3	0.3
80°-90°	0.0	0.0
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°	2644.5	95.1
0°-40°	2710.8	97.5
0°-60°	2761.3	99.3
0°-90°	2779.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	40744	
5°	27264	###
15°	1747	597
25°	349	174
35°	98	66
45°	36	32
55°	18	19
65°	9	10
75°	9	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	40744.0
1°	40349.9
2°	38719.8
3°	35611.8
4°	31769.4
5°	27264.2
6°	22284.3
7°	17689.5
8°	13211.1
9°	9628.4
10°	6878.7
11°	4872.4
12°	3609.5
13°	2740.7
14°	2176.5
15°	1746.6
17.5°	1137.5
20°	761.3
22.5°	510.5
25°	349.3
27.5°	241.8
30°	179.1
32.5°	125.4
35°	98.5
37.5°	80.6
40°	71.7
42.5°	53.7
45°	35.8
47.5°	26.9
50°	26.9
52.5°	26.9
55°	17.9
57.5°	17.9
60°	17.9
62.5°	9.0
65°	9.0
67.5°	9.0
70°	9.0
72.5°	9.0
75°	9.0
77.5°	9.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)