

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: P433068

Luminaire Tested: **LAM4B408R209040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R209040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

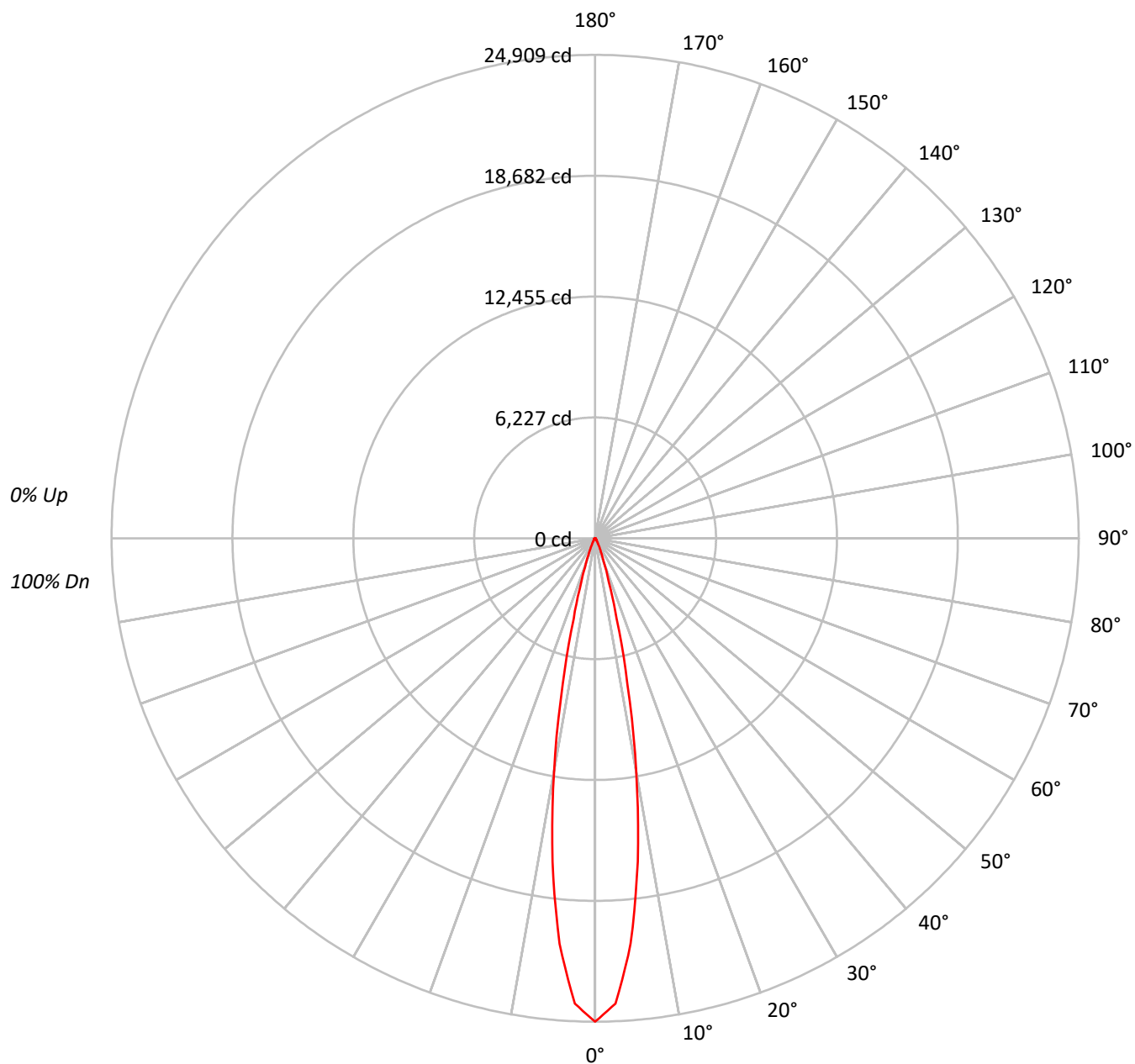
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433068

CATALOG NUMBER: LAM4B408R209040DE01021MW

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	115	113	111	110		113	111	109	108		107	106	105		103	102	101		100	99	99
2	112	108	105	103		110	106	104	102		103	101	100		101	99	97		98	97	95
3	108	104	100	98		107	103	100	97		100	98	96		98	96	94		96	94	93
4	105	100	97	94		104	99	96	93		97	94	92		96	93	91		94	92	90
5	103	97	93	90		101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	88		99	94	90	87		92	89	87		91	88	86		90	88	86
7	98	92	88	85		97	91	88	85		90	87	85		89	86	84		88	86	84
8	96	90	86	83		95	89	86	83		88	85	83		87	85	82		87	84	82
9	94	88	84	81		93	87	84	81		86	83	81		86	83	81		85	82	81
10	92	86	82	80		91	85	82	80		85	82	79		84	81	79		83	81	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12289394
5°	10387720
10°	6101366
15°	2184624
20°	722827
25°	287707
30°	137527
35°	78601
40°	56742
45°	47795
50°	55111
55°	44901
60°	22498
65°	19029
70°	23513
75°	24782
80°	18468
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1717.4	48.3
10°-20°	1339.3	37.6
20°-30°	278.0	7.8
30°-40°	87.6	2.5
40°-50°	56.4	1.6
50°-60°	45.3	1.3
60°-70°	17.8	0.5
70°-80°	13.3	0.4
80°-90°	2.7	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°	3334.7	93.7
0°-40°	3422.3	96.2
0°-60°	3524.0	99.1
0°-90°	3557.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24909	
5°	20974	###
15°	4277	1339
25°	528	278
35°	130	88
45°	68	56
55°	52	45
65°	16	18
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	24908.6
2.5°	23995.1
5°	20974.1
7.5°	16804.7
10°	12178.6
12.5°	7683.0
15°	4277.0
17.5°	2352.2
20°	1376.7
22.5°	841.7
25°	528.5
27.5°	349.1
30°	241.4
32.5°	169.6
35°	130.5
37.5°	104.4
40°	88.1
42.5°	75.0
45°	68.5
47.5°	68.5
50°	71.8
52.5°	68.5
55°	52.2
57.5°	35.9
60°	22.8
62.5°	19.6
65°	16.3
67.5°	16.3
70°	16.3
72.5°	16.3
75°	13.0
77.5°	9.8
80°	6.5
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)