

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: P433020

Luminaire Tested: **LAM4B408R109040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433020
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: LAM4B408R109040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.4 lumens
Efficiency: N/A
Efficacy: 84.3 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

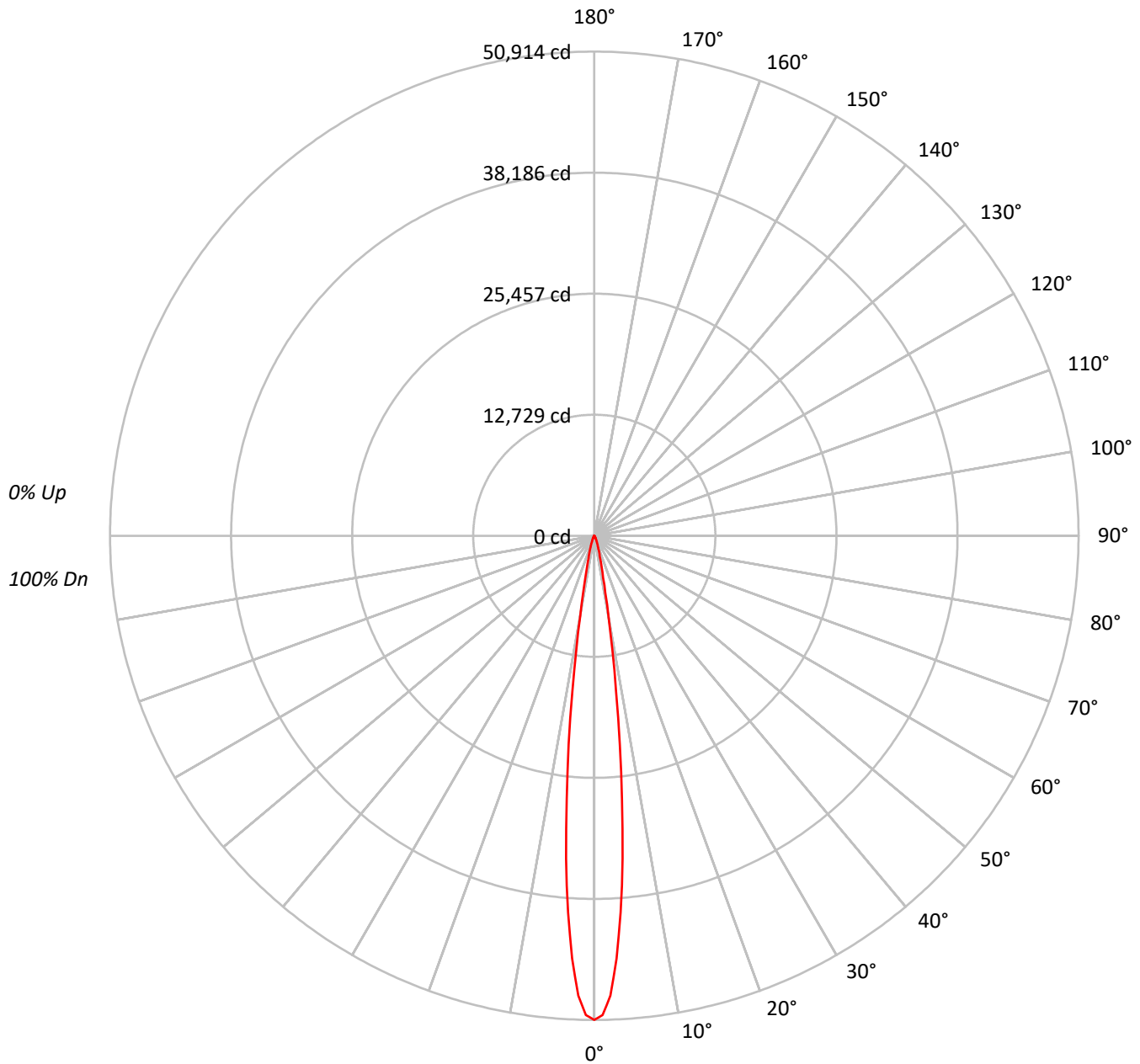
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25119729
5°	16873304
10°	4306366
15°	1114786
20°	499474
25°	237624
30°	127500
35°	74144
40°	57643
45°	31259
50°	25790
55°	19268
60°	22103
65°	13075
70°	16157
75°	21350
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2341.4	67.4
10°-20°	745.5	21.5
20°-30°	217.7	6.3
30°-40°	82.8	2.4
40°-50°	39.5	1.1
50°-60°	23.7	0.7
60°-70°	12.5	0.4
70°-80°	10.3	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°	3304.6	95.1
0°-40°	3387.4	97.5
0°-60°	3450.6	99.3
0°-90°	3473.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	50914	
5°	34069	###
15°	2182	745
25°	436	218
35°	123	83
45°	45	39
55°	22	24
65°	11	12
75°	11	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	50913.6
1°	50421.2
2°	48384.2
3°	44500.5
4°	39699.0
5°	34069.3
6°	27846.4
7°	22104.7
8°	16508.6
9°	12031.7
10°	8595.7
11°	6088.6
12°	4510.5
13°	3424.8
14°	2719.7
15°	2182.5
17.5°	1421.4
20°	951.3
22.5°	638.0
25°	436.5
27.5°	302.2
30°	223.8
32.5°	156.7
35°	123.1
37.5°	100.7
40°	89.5
42.5°	67.2
45°	44.8
47.5°	33.6
50°	33.6
52.5°	33.6
55°	22.4
57.5°	22.4
60°	22.4
62.5°	11.2
65°	11.2
67.5°	11.2
70°	11.2
72.5°	11.2
75°	11.2
77.5°	11.2
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)