

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: P433194

Luminaire Tested: **LAM4B408R459727DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R459727DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2748.4 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

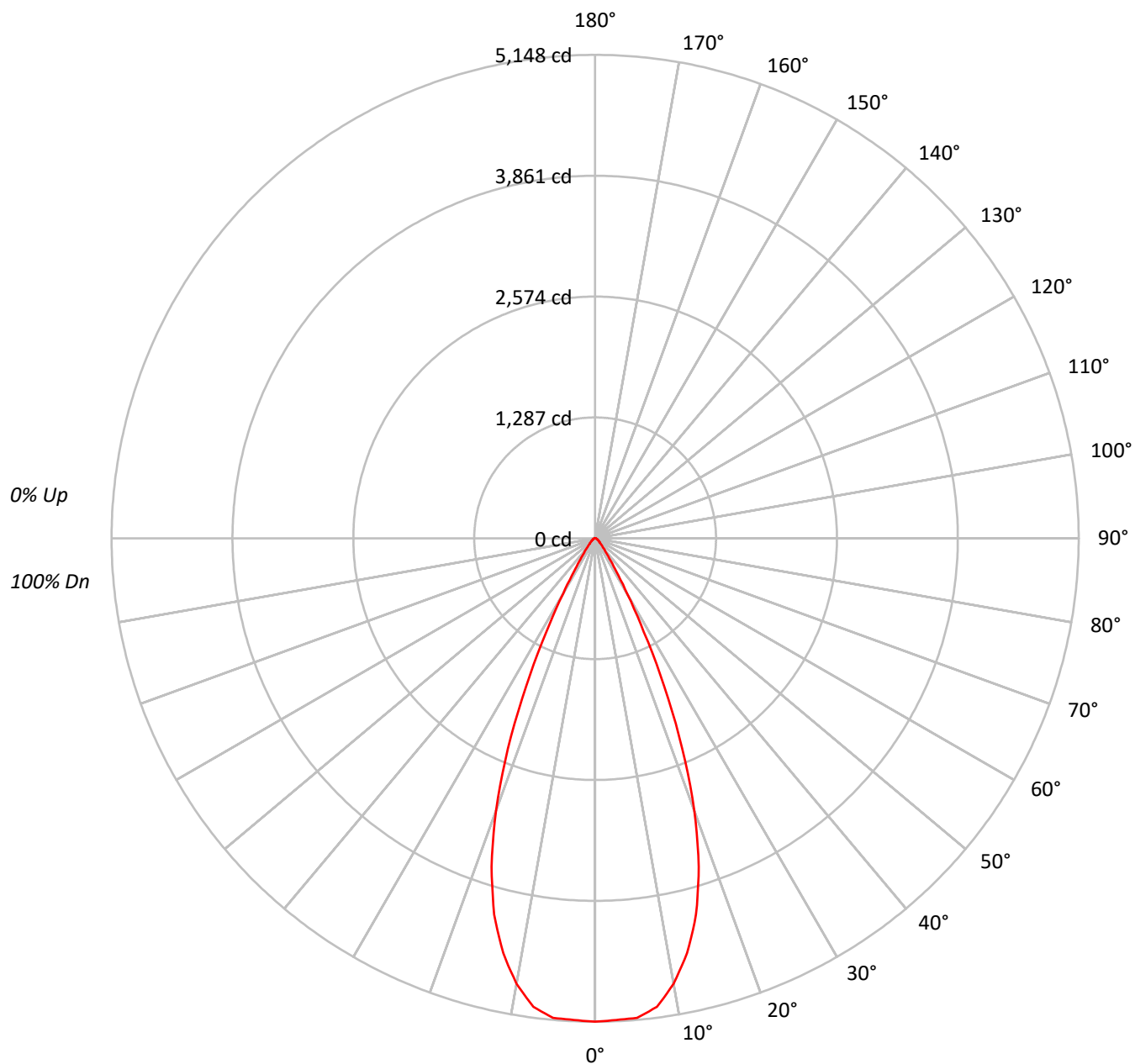
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2539721
5°	2538873
10°	2413222
15°	2119805
20°	1621650
25°	946684
30°	387457
35°	163827
40°	89331
45°	57703
50°	45056
55°	38966
60°	31576
65°	24866
70°	23081
75°	20397
80°	22730
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	17.5
10°-20°	1129.8	41.1
20°-30°	796.1	29.0
30°-40°	195.9	7.1
40°-50°	68.4	2.5
50°-60°	40.5	1.5
60°-70°	22.4	0.8
70°-80°	12.3	0.4
80°-90°	3.3	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°	2405.6	87.5
0°-40°	2601.5	94.7
0°-60°	2710.4	98.6
0°-90°	2748.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5148	
5°	5126	480
15°	4150	1130
25°	1739	796
35°	272	196
45°	83	68
55°	45	40
65°	21	22
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5147.6
2.5°	5134.3
5°	5126.3
7.5°	5032.9
10°	4816.9
12.5°	4523.5
15°	4150.1
17.5°	3667.3
20°	3088.6
22.5°	2424.4
25°	1739.0
27.5°	1122.9
30°	680.1
32.5°	413.4
35°	272.0
37.5°	192.0
40°	138.7
42.5°	106.7
45°	82.7
47.5°	69.3
50°	58.7
52.5°	50.7
55°	45.3
57.5°	40.0
60°	32.0
62.5°	26.7
65°	21.3
67.5°	18.7
70°	16.0
72.5°	13.3
75°	10.7
77.5°	10.7
80°	8.0
82.5°	5.3
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)