

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: P433121

Luminaire Tested: **LAM4B408R309727DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R309727DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2777.1 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

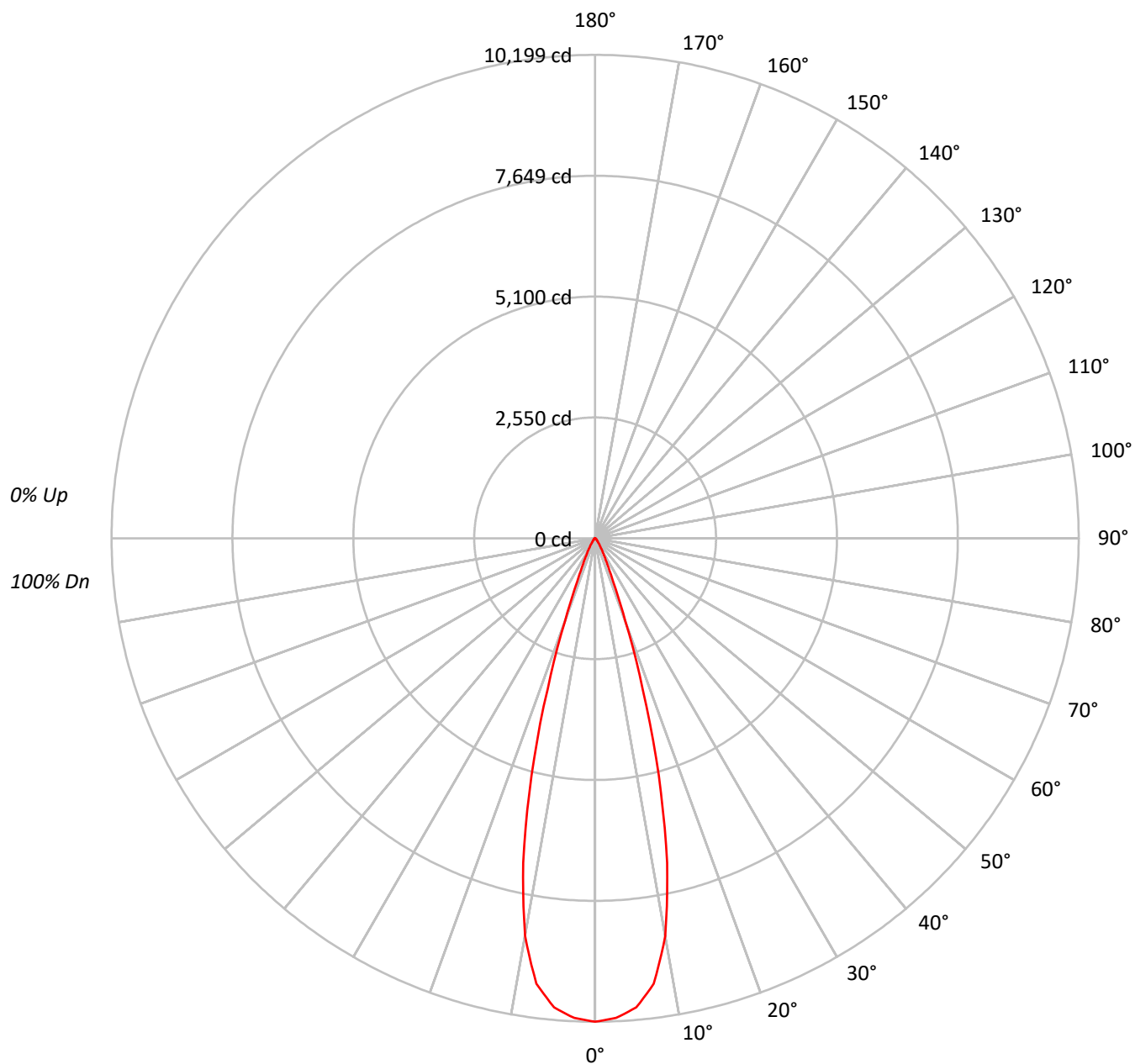
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	100	102	100	98		100	98	96		97
3	107	103	99	96	105	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	94	91	95	92	90		93	91	89		92
5	101	95	91	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	97	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	88	84	81	87	83	81		86	83	80		85
8	92	86	81	79	91	85	81	78	84	81	78		83	80	78		83
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		80
10	88	81	77	74	87	80	77	74	80	76	74		79	76	74		78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5031830
5°	4921886
10°	4267539
15°	2645044
20°	969440
25°	324072
30°	159062
35°	79324
40°	49206
45°	31259
50°	22259
55°	18150
60°	15591
65°	12258
70°	15147
75°	15060
80°	15059
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.7	32.6
10°-20°	1367.4	49.2
20°-30°	333.4	12.0
30°-40°	91.3	3.3
40°-50°	36.8	1.3
50°-60°	19.7	0.7
60°-70°	11.7	0.4
70°-80°	9.0	0.3
80°-90°	2.1	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°	2606.5	93.9
0°-40°	2697.8	97.1
0°-60°	2754.2	99.2
0°-90°	2777.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10199	
5°	9938	906
15°	5178	1367
25°	595	333
35°	132	91
45°	45	37
55°	21	20
65°	10	12
75°	8	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10198.7
2.5°	10130.2
5°	9937.9
7.5°	9479.6
10°	8518.2
12.5°	7011.6
15°	5178.4
17.5°	3337.2
20°	1846.4
22.5°	985.1
25°	595.3
27.5°	403.0
30°	279.2
32.5°	189.6
35°	131.7
37.5°	97.5
40°	76.4
42.5°	57.9
45°	44.8
47.5°	36.9
50°	29.0
52.5°	26.3
55°	21.1
57.5°	18.4
60°	15.8
62.5°	13.2
65°	10.5
67.5°	10.5
70°	10.5
72.5°	10.5
75°	7.9
77.5°	7.9
80°	5.3
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)