

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: P433114

Luminaire Tested: **LAM4B408R309040DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433114
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: LAM4B408R309040DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.6 lumens
Efficiency: N/A
Efficacy: 87.1 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

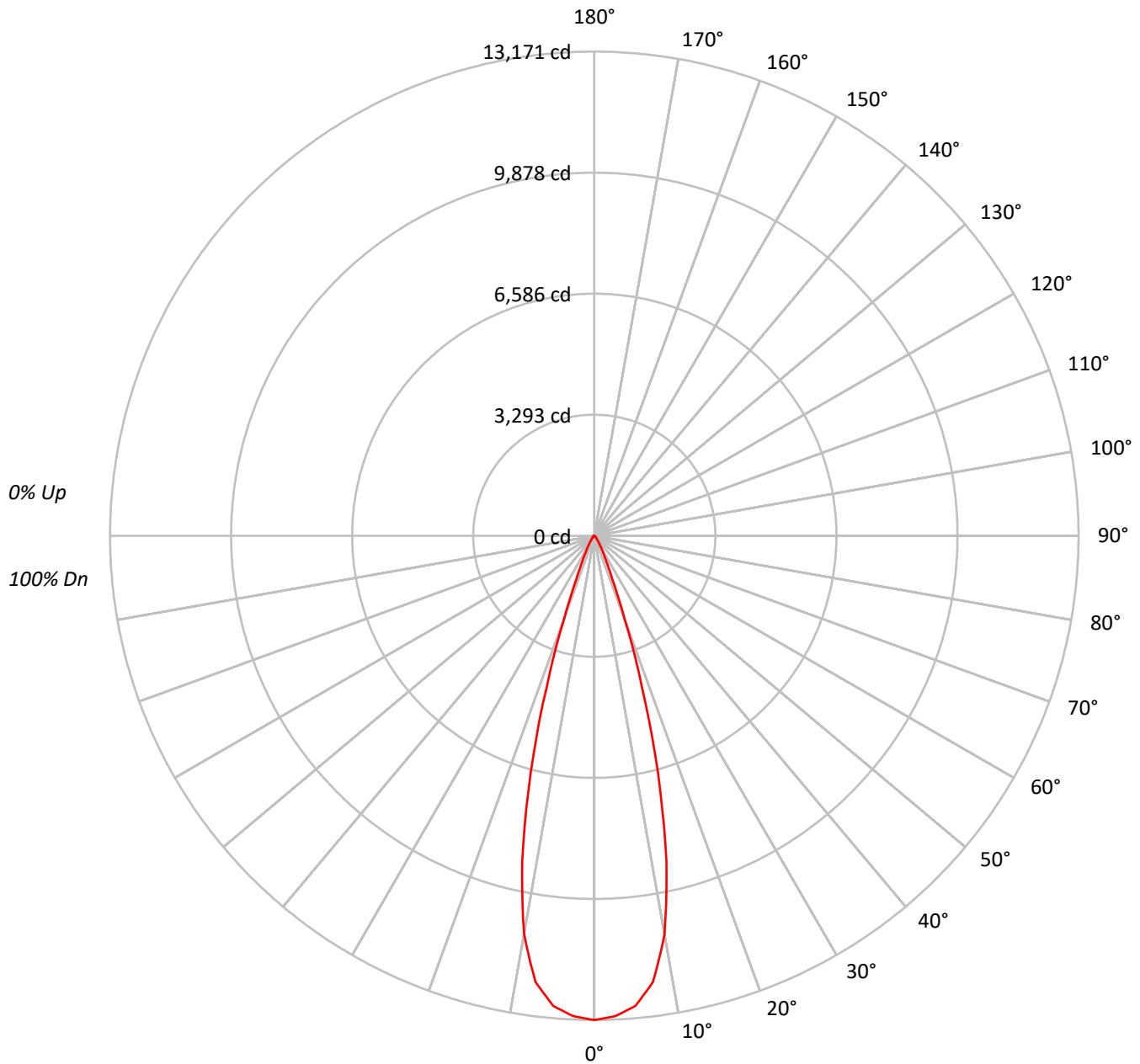
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6498450
5°	6356468
10°	5511399
15°	3415971
20°	1252019
25°	418522
30°	205436
35°	102452
40°	63504
45°	40330
50°	28707
55°	23397
60°	20130
65°	15877
70°	19619
75°	19444
80°	19321
85°	19247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1169.7	32.6
10°-20°	1766.0	49.2
20°-30°	430.6	12.0
30°-40°	117.9	3.3
40°-50°	47.4	1.3
50°-60°	25.4	0.7
60°-70°	15.1	0.4
70°-80°	11.7	0.3
80°-90°	2.8	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°	3366.3	93.9
0°-40°	3484.2	97.1
0°-60°	3557.0	99.2
0°-90°	3586.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3586.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13171	
5°	12834	###
15°	6688	1766
25°	769	431
35°	170	118
45°	58	47
55°	27	25
65°	14	15
75°	10	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13171.3
2.5°	13082.9
5°	12834.5
7.5°	12242.6
10°	11001.0
12.5°	9055.3
15°	6687.7
17.5°	4309.9
20°	2384.6
22.5°	1272.2
25°	768.8
27.5°	520.5
30°	360.6
32.5°	244.9
35°	170.1
37.5°	125.9
40°	98.6
42.5°	74.8
45°	57.8
47.5°	47.6
50°	37.4
52.5°	34.0
55°	27.2
57.5°	23.8
60°	20.4
62.5°	17.0
65°	13.6
67.5°	13.6
70°	13.6
72.5°	13.6
75°	10.2
77.5°	10.2
80°	6.8
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)