

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: P433112

Luminaire Tested: **LAM4B408R309035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433112
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: LAM4B408R309035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.9 lumens
Efficiency: N/A
Efficacy: 81.9 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

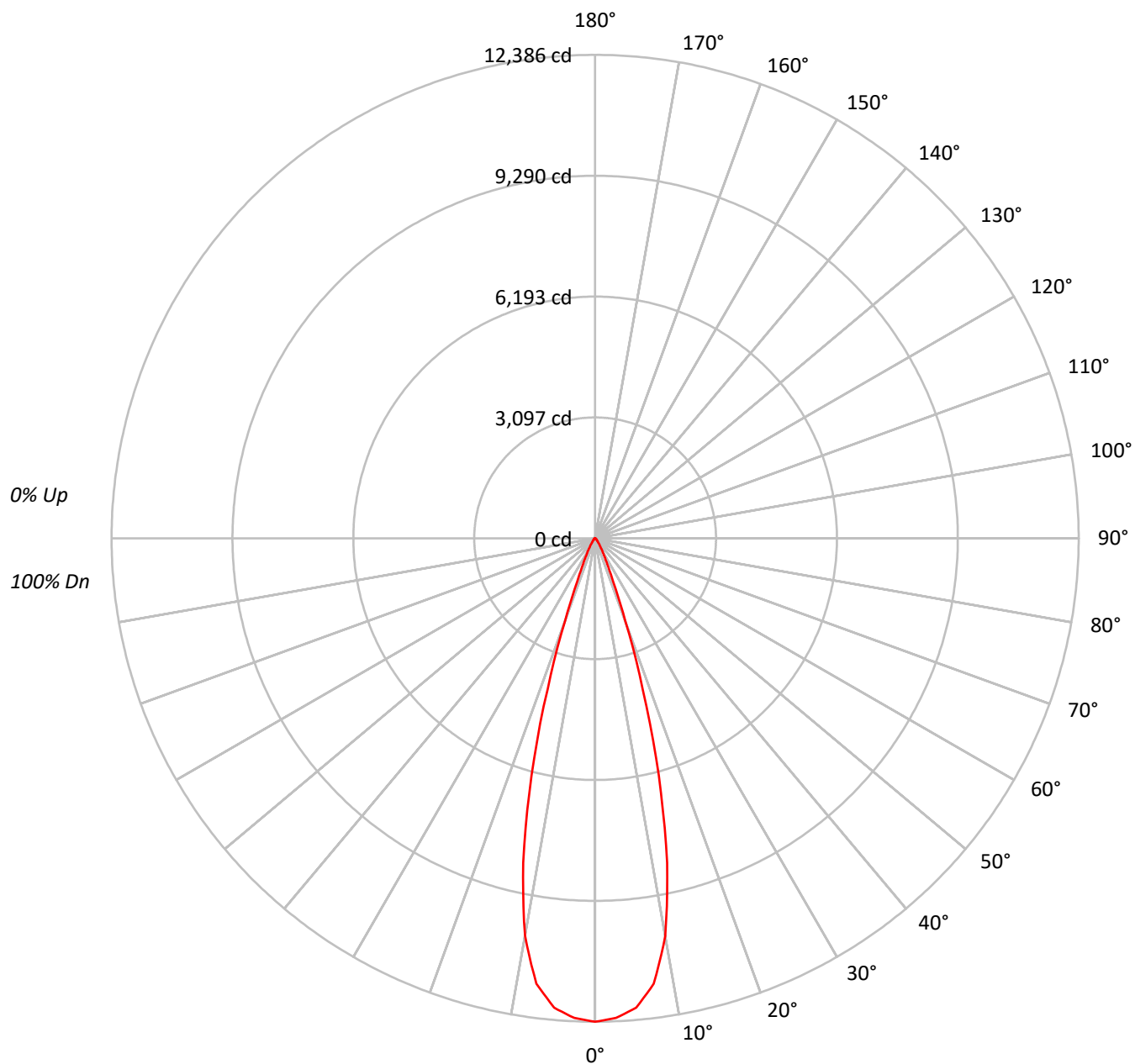
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6111098
5°	5977591
10°	5182899
15°	3212372
20°	1177358
25°	393590
30°	193187
35°	96309
40°	59769
45°	37957
50°	27018
55°	22021
60°	18946
65°	14943
70°	18465
75°	18300
80°	18184
85°	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1100.0	32.6
10°-20°	1660.7	49.2
20°-30°	404.9	12.0
30°-40°	110.9	3.3
40°-50°	44.6	1.3
50°-60°	23.9	0.7
60°-70°	14.3	0.4
70°-80°	11.0	0.3
80°-90°	2.6	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°	3165.6	93.9
0°-40°	3276.5	97.1
0°-60°	3345.0	99.2
0°-90°	3372.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12386	
5°	12070	###
15°	6289	1661
25°	723	405
35°	160	111
45°	54	45
55°	26	24
65°	13	14
75°	10	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12386.2
2.5°	12303.0
5°	12069.5
7.5°	11512.9
10°	10345.3
12.5°	8515.5
15°	6289.1
17.5°	4053.0
20°	2242.4
22.5°	1196.4
25°	723.0
27.5°	489.4
30°	339.1
32.5°	230.3
35°	159.9
37.5°	118.4
40°	92.8
42.5°	70.4
45°	54.4
47.5°	44.8
50°	35.2
52.5°	32.0
55°	25.6
57.5°	22.4
60°	19.2
62.5°	16.0
65°	12.8
67.5°	12.8
70°	12.8
72.5°	12.8
75°	9.6
77.5°	9.6
80°	6.4
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)