

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: P433118

Luminaire Tested: **LAM4B408R309050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433118
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: LAM4B408R309050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3761.4 lumens
Efficiency: N/A
Efficacy: 91.3 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

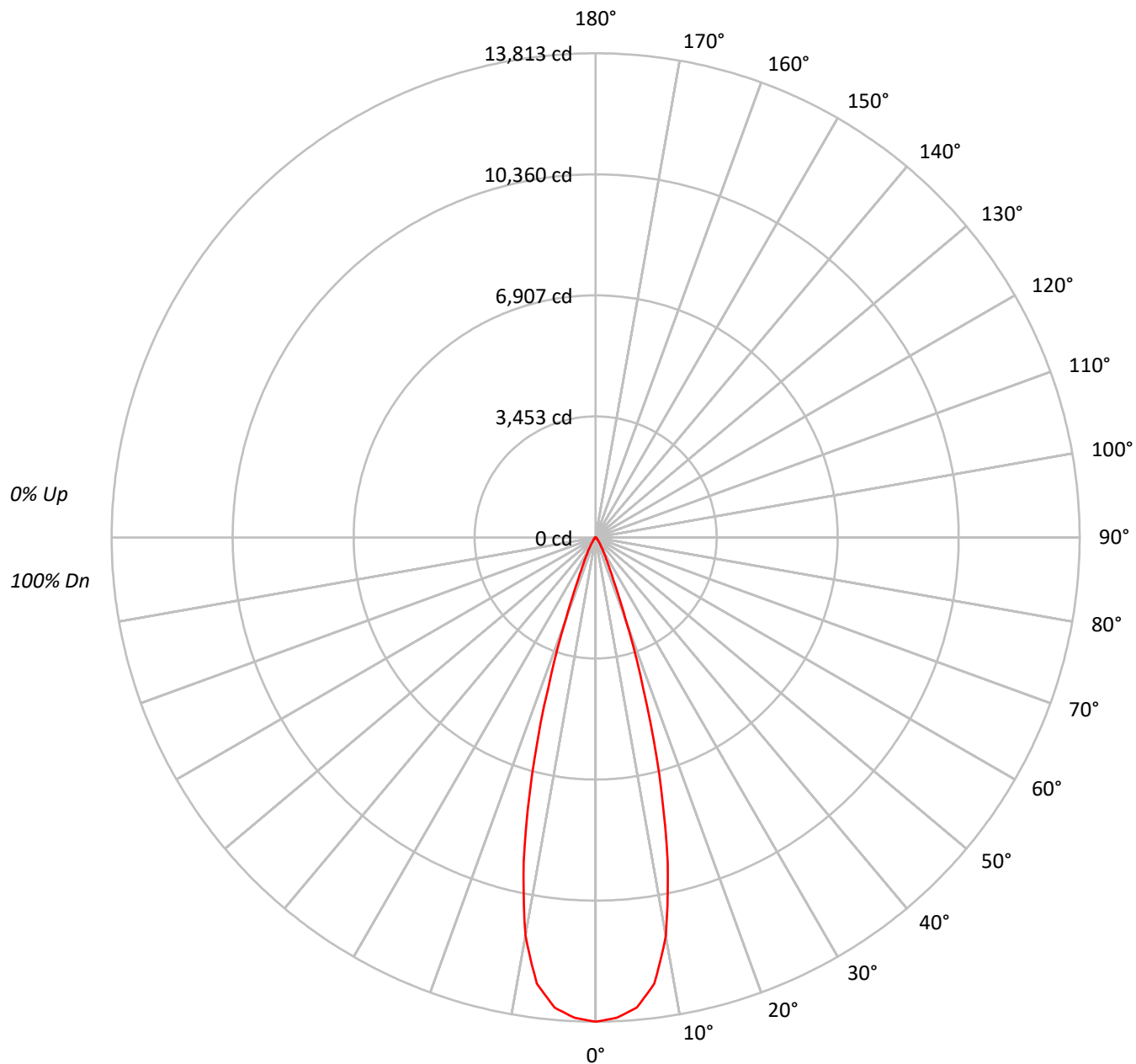
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6815150
5°	6666305
10°	5780030
15°	3582435
20°	1313029
25°	438882
30°	215463
35°	107451
40°	66660
45°	42283
50°	30088
55°	24515
60°	21117
65°	16694
70°	20628
75°	20397
80°	20173
85°	20379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1226.7	32.6
10°-20°	1852.0	49.2
20°-30°	451.6	12.0
30°-40°	123.7	3.3
40°-50°	49.8	1.3
50°-60°	26.6	0.7
60°-70°	15.9	0.4
70°-80°	12.2	0.3
80°-90°	2.9	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°	3530.3	93.9
0°-40°	3654.0	97.1
0°-60°	3730.4	99.2
0°-90°	3761.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13813	
5°	13460	###
15°	7014	1852
25°	806	452
35°	178	124
45°	61	50
55°	28	27
65°	14	16
75°	11	12
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13813.2
2.5°	13720.5
5°	13460.1
7.5°	12839.3
10°	11537.2
12.5°	9496.6
15°	7013.6
17.5°	4520.0
20°	2500.8
22.5°	1334.2
25°	806.2
27.5°	545.8
30°	378.2
32.5°	256.9
35°	178.4
37.5°	132.0
40°	103.5
42.5°	78.5
45°	60.6
47.5°	49.9
50°	39.2
52.5°	35.7
55°	28.5
57.5°	25.0
60°	21.4
62.5°	17.8
65°	14.3
67.5°	14.3
70°	14.3
72.5°	14.3
75°	10.7
77.5°	10.7
80°	7.1
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)