

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: P433028

Luminaire Tested: **LAM4B408R109730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R109730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2881.9 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

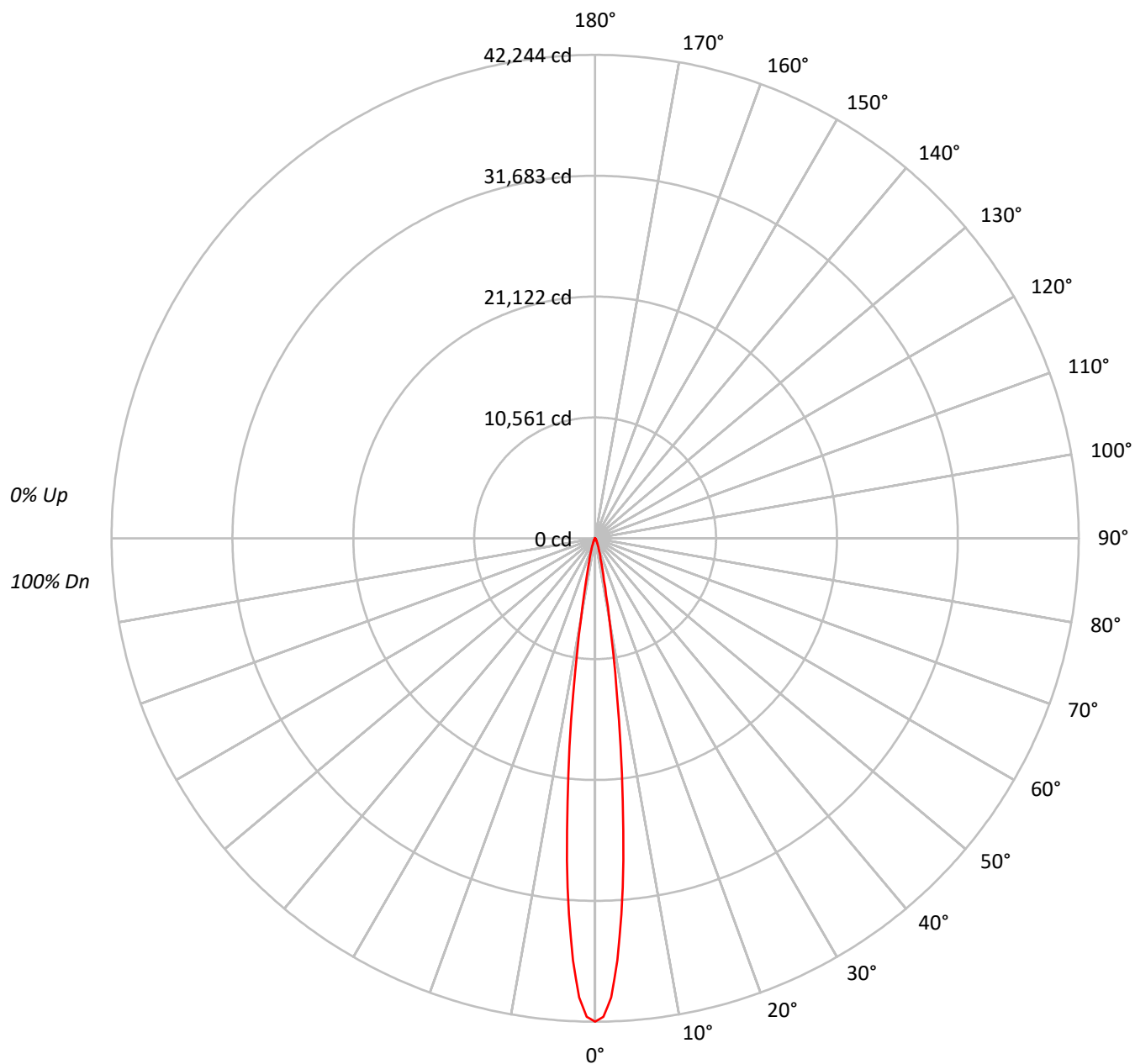
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111		113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105		111	108	106	104		105	103	102		102	101	99		99	98	97
3	110	106	103	101		108	105	102	100		102	100	98		100	98	97		98	97	95
4	108	103	100	97		106	102	99	97		100	98	96		98	96	95		97	95	94
5	105	101	97	95		104	100	97	94		98	96	94		97	95	93		96	94	92
6	103	98	95	93		102	98	95	92		97	94	92		95	93	91		94	92	91
7	102	97	93	91		101	96	93	91		95	92	90		94	92	90		93	91	90
8	100	95	92	89		99	94	91	89		94	91	89		93	90	89		92	90	88
9	98	93	90	88		98	93	90	88		92	90	88		92	89	88		91	89	87
10	97	92	89	87		96	92	89	87		91	88	87		90	88	86		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20842128
5°	13999930
10°	3573016
15°	924928
20°	414417
25°	197176
30°	105794
35°	61495
40°	47854
45°	25886
50°	21415
55°	15999
60°	18354
65°	10857
70°	13416
75°	17728
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1942.7	67.4
10°-20°	618.5	21.5
20°-30°	180.6	6.3
30°-40°	68.7	2.4
40°-50°	32.7	1.1
50°-60°	19.7	0.7
60°-70°	10.3	0.4
70°-80°	8.6	0.3
80°-90°	0.0	0.0
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°	2741.9	95.1
0°-40°	2810.6	97.5
0°-60°	2863.0	99.3
0°-90°	2881.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	42244	
5°	28268	###
15°	1811	619
25°	362	181
35°	102	69
45°	37	33
55°	19	20
65°	9	10
75°	9	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	42243.6
1°	41835.0
2°	40144.8
3°	36922.5
4°	32938.6
5°	28267.6
6°	23104.4
7°	18340.5
8°	13697.4
9°	9982.8
10°	7131.9
11°	5051.8
12°	3742.4
13°	2841.6
14°	2256.6
15°	1810.8
17.5°	1179.4
20°	789.3
22.5°	529.3
25°	362.2
27.5°	250.7
30°	185.7
32.5°	130.0
35°	102.1
37.5°	83.6
40°	74.3
42.5°	55.7
45°	37.1
47.5°	27.9
50°	27.9
52.5°	27.9
55°	18.6
57.5°	18.6
60°	18.6
62.5°	9.3
65°	9.3
67.5°	9.3
70°	9.3
72.5°	9.3
75°	9.3
77.5°	9.3
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)