

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: P433010

Luminaire Tested: **LAM4B408R109027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433010
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: LAM4B408R109027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.8 lumens
Efficiency: N/A
Efficacy: 73.6 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

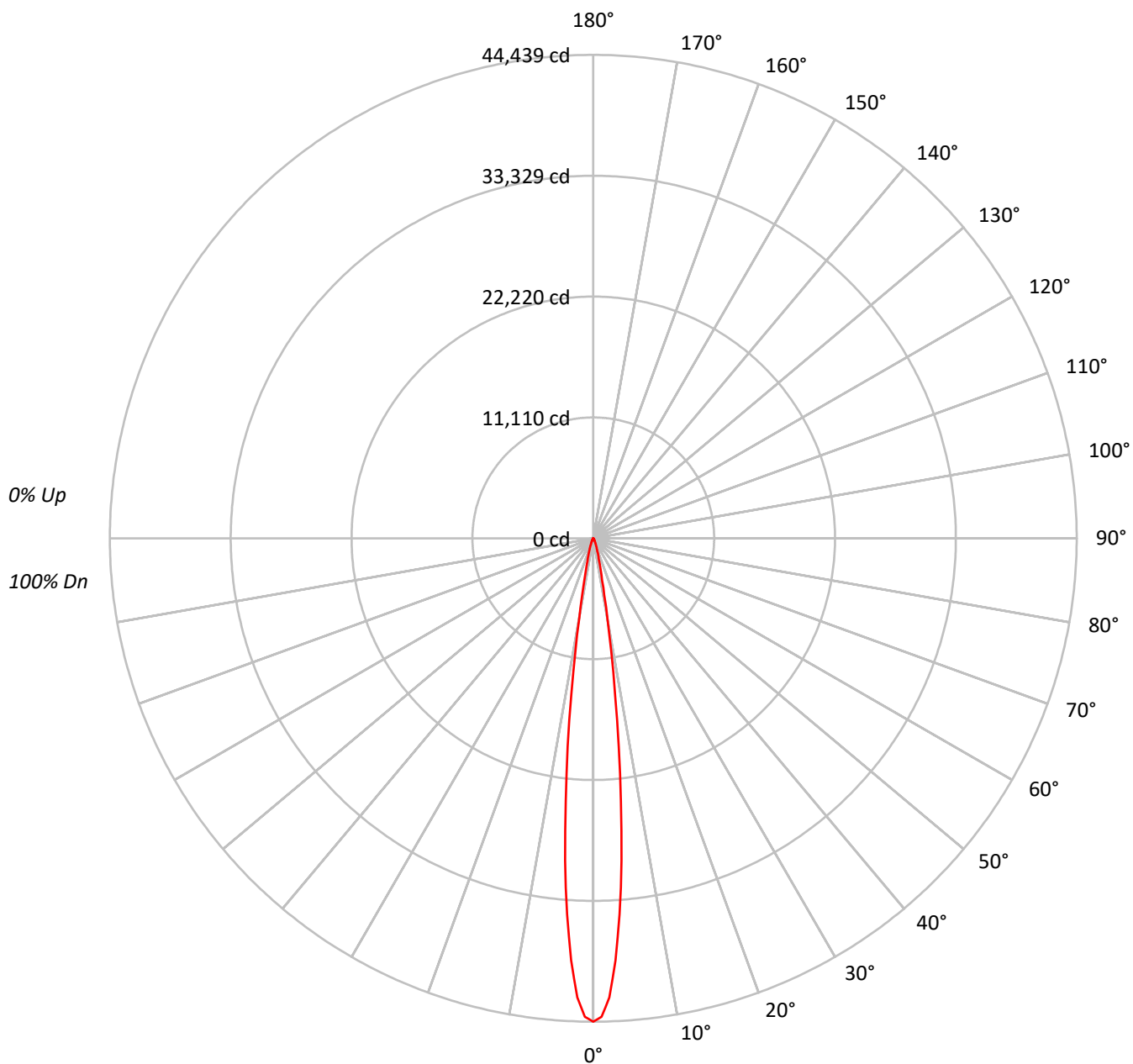
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433010

CATALOG NUMBER: LAM4B408R109027DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433010

CATALOG NUMBER: LAM4B408R109027DE01021MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21925442
5°	14727621
10°	3758733
15°	973044
20°	435996
25°	207410
30°	111320
35°	64748
40°	50366
45°	27282
50°	22490
55°	16774
60°	19242
65°	11441
70°	14137
75°	18681
80°	0
85°	0



TEST NUMBER: P433010

CATALOG NUMBER: LAM4B408R109027DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2043.7	67.4
10°-20°	650.7	21.5
20°-30°	190.0	6.3
30°-40°	72.3	2.4
40°-50°	34.4	1.1
50°-60°	20.7	0.7
60°-70°	10.9	0.4
70°-80°	9.1	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°	2884.4	95.1
0°-40°	2956.7	97.5
0°-60°	3011.8	99.3
0°-90°	3031.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	44439	
5°	29737	###
15°	1905	651
25°	381	190
35°	108	72
45°	39	34
55°	20	21
65°	10	11
75°	10	9
85°	0	0
90°	0	



TEST NUMBER: P433010

CATALOG NUMBER: LAM4B408R109027DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	44439.3
1°	44009.5
2°	42231.5
3°	38841.7
4°	34650.8
5°	29736.9
6°	24305.4
7°	19293.8
8°	14409.3
9°	10501.7
10°	7502.6
11°	5314.4
12°	3936.9
13°	2989.3
14°	2373.9
15°	1905.0
17.5°	1240.7
20°	830.4
22.5°	556.8
25°	381.0
27.5°	263.8
30°	195.4
32.5°	136.8
35°	107.5
37.5°	87.9
40°	78.2
42.5°	58.6
45°	39.1
47.5°	29.3
50°	29.3
52.5°	29.3
55°	19.5
57.5°	19.5
60°	19.5
62.5°	9.8
65°	9.8
67.5°	9.8
70°	9.8
72.5°	9.8
75°	9.8
77.5°	9.8
80°	0.0
82.5°	0.0



TEST NUMBER: P433010

CATALOG NUMBER: LAM4B408R109027DE01021MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)