

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: P433148

Luminaire Tested: **LAM4B408R359730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R359730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2915.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

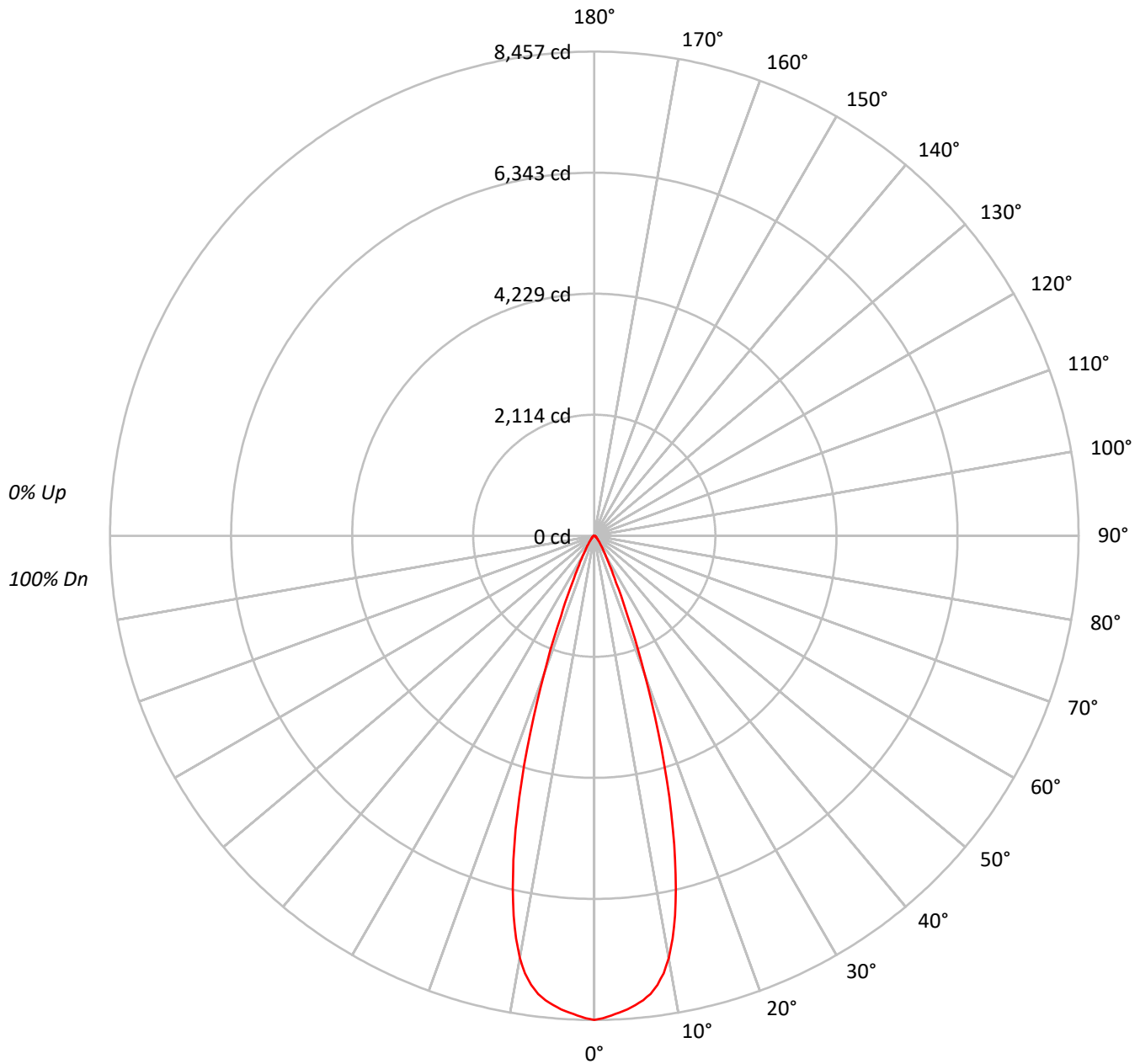
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433148

CATALOG NUMBER: LAM4B408R359730DE01021MMS

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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4172610
5°	4076420
10°	3751368
15°	2711395
20°	1339439
25°	491361
30°	221559
35°	120642
40°	74776
45°	50656
50°	37841
55°	32429
60°	28616
65°	27085
70°	25100
75°	22113
80°	24719
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.8	26.2
10°-20°	1397.7	47.9
20°-30°	486.6	16.7
30°-40°	134.9	4.6
40°-50°	58.6	2.0
50°-60°	34.0	1.2
60°-70°	23.0	0.8
70°-80°	12.6	0.4
80°-90°	3.5	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°	2649.2	90.9
0°-40°	2784.1	95.5
0°-60°	2876.6	98.7
0°-90°	2915.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8457	
5°	8231	765
15°	5308	1398
25°	903	487
35°	200	135
45°	73	59
55°	38	34
65°	23	23
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8457.2
1°	8428.2
2°	8384.7
3°	8341.1
4°	8291.8
5°	8230.8
6°	8155.4
7°	8062.5
8°	7920.3
9°	7737.5
10°	7487.9
11°	7168.6
12°	6782.6
13°	6329.9
14°	5833.6
15°	5308.3
16°	4748.1
17°	4185.1
18°	3619.1
19°	3073.5
20°	2551.1
22.5°	1520.8
25°	902.6
26°	751.7
27°	626.9
28°	531.1
29°	452.8
30°	388.9
32.5°	275.7
35°	200.3
37.5°	150.9
40°	116.1
42.5°	90.0
45°	72.6
47.5°	60.9
50°	49.3
52.5°	43.5
55°	37.7
57.5°	31.9
60°	29.0
62.5°	26.1
65°	23.2
67.5°	20.3



TEST NUMBER: P433148

CATALOG NUMBER: LAM4B408R359730DE01021MMS

CANDELA DISTRIBUTION (continued):

	0°
75°	11.6
77.5°	8.7
80°	8.7
82.5°	5.8
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°	17.4
72.5°	14.5



(END OF REPORT)