

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: P432371

Luminaire Tested: **LAM4B108R709040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R709040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 848.5 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

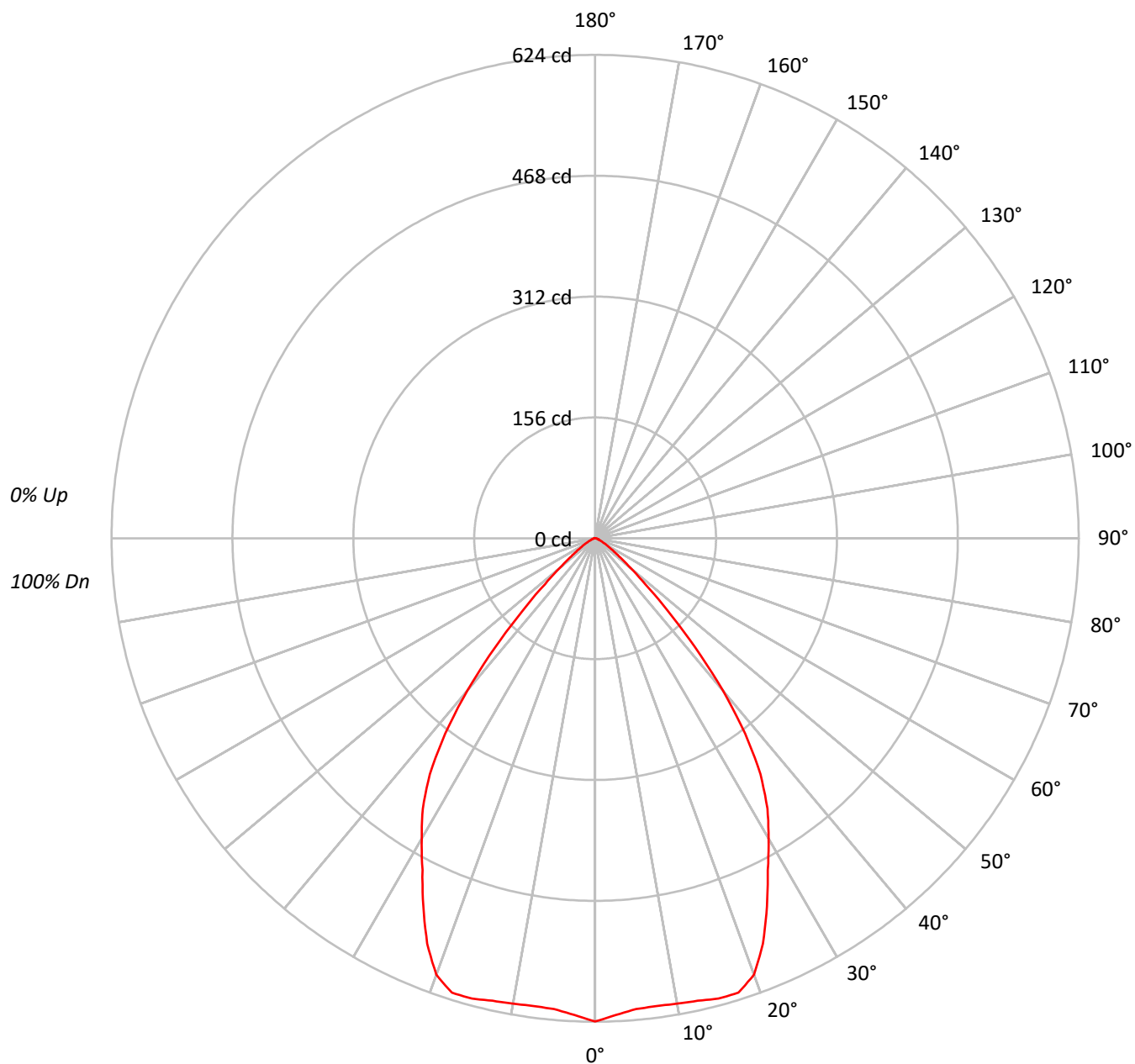
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92						
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84						
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76						
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70						
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58						
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54						
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50						
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46						
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	307721
5°	302012
10°	305504
15°	314132
20°	314659
25°	285475
30°	255057
35°	224058
40°	164944
45°	92381
50°	45440
55°	25461
60°	15492
65°	10157
70°	7501
75°	6672
80°	4830
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	6.9
10°-20°	173.3	20.4
20°-30°	240.5	28.3
30°-40°	226.3	26.7
40°-50°	108.0	12.7
50°-60°	28.5	3.4
60°-70°	9.0	1.1
70°-80°	3.7	0.4
80°-90°	0.9	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°	472.1	55.6
0°-40°	698.3	82.3
0°-60°	834.9	98.4
0°-90°	848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	624	
5°	610	58
15°	615	173
25°	524	240
35°	372	226
45°	132	108
55°	30	29
65°	9	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	623.7
2.5°	615.9
5°	609.8
7.5°	608.9
10°	609.8
12.5°	611.5
15°	615.0
17.5°	615.0
20°	599.3
22.5°	566.2
25°	524.4
27.5°	482.6
30°	447.7
32.5°	413.8
35°	372.0
37.5°	317.9
40°	256.1
42.5°	190.8
45°	132.4
47.5°	88.0
50°	59.2
52.5°	40.9
55°	29.6
57.5°	20.9
60°	15.7
62.5°	11.3
65°	8.7
67.5°	6.1
70°	5.2
72.5°	4.4
75°	3.5
77.5°	2.6
80°	1.7
82.5°	1.7
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)