

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: P433077

Luminaire Tested: **LAM4B408R209730DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R209730DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2951.8 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

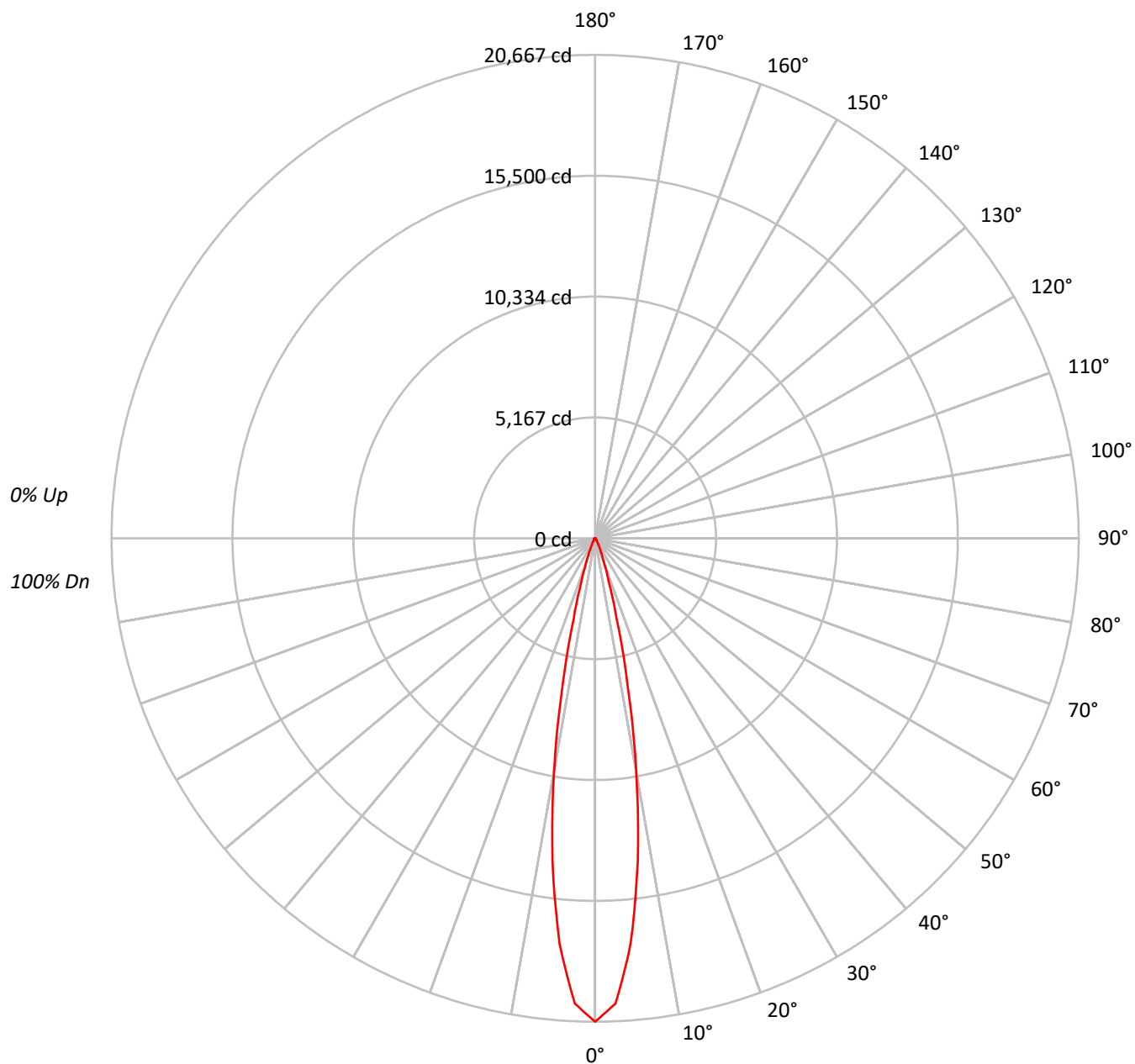
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97						
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94						
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91						
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89						
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87						
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85						
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83						
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81						
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80						
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10196626
5°	8618785
10°	5062361
15°	1812620
20°	599757
25°	238712
30°	114112
35°	65230
40°	47081
45°	39632
50°	45747
55°	37246
60°	18650
65°	15760
70°	19474
75°	20588
80°	15343
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1425.0	48.3
10°-20°	1111.2	37.6
20°-30°	230.6	7.8
30°-40°	72.7	2.5
40°-50°	46.8	1.6
50°-60°	37.5	1.3
60°-70°	14.7	0.5
70°-80°	11.0	0.4
80°-90°	2.2	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°	2766.8	93.7
0°-40°	2839.6	96.2
0°-60°	2923.9	99.1
0°-90°	2951.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20667	
5°	17402	###
15°	3549	1111
25°	438	231
35°	108	73
45°	57	47
55°	43	38
65°	14	15
75°	11	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20666.9
2.5°	19909.0
5°	17402.4
7.5°	13943.1
10°	10104.7
12.5°	6374.7
15°	3548.7
17.5°	1951.6
20°	1142.3
22.5°	698.4
25°	438.5
27.5°	289.6
30°	200.3
32.5°	140.8
35°	108.3
37.5°	86.6
40°	73.1
42.5°	62.3
45°	56.8
47.5°	56.8
50°	59.6
52.5°	56.8
55°	43.3
57.5°	29.8
60°	18.9
62.5°	16.2
65°	13.5
67.5°	13.5
70°	13.5
72.5°	13.5
75°	10.8
77.5°	8.1
80°	5.4
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)