

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: P432753

Luminaire Tested: **LAM4B308R209035DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432753
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: LAM4B308R209035DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2520.5 lumens
Efficiency: N/A
Efficacy: 79.0 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

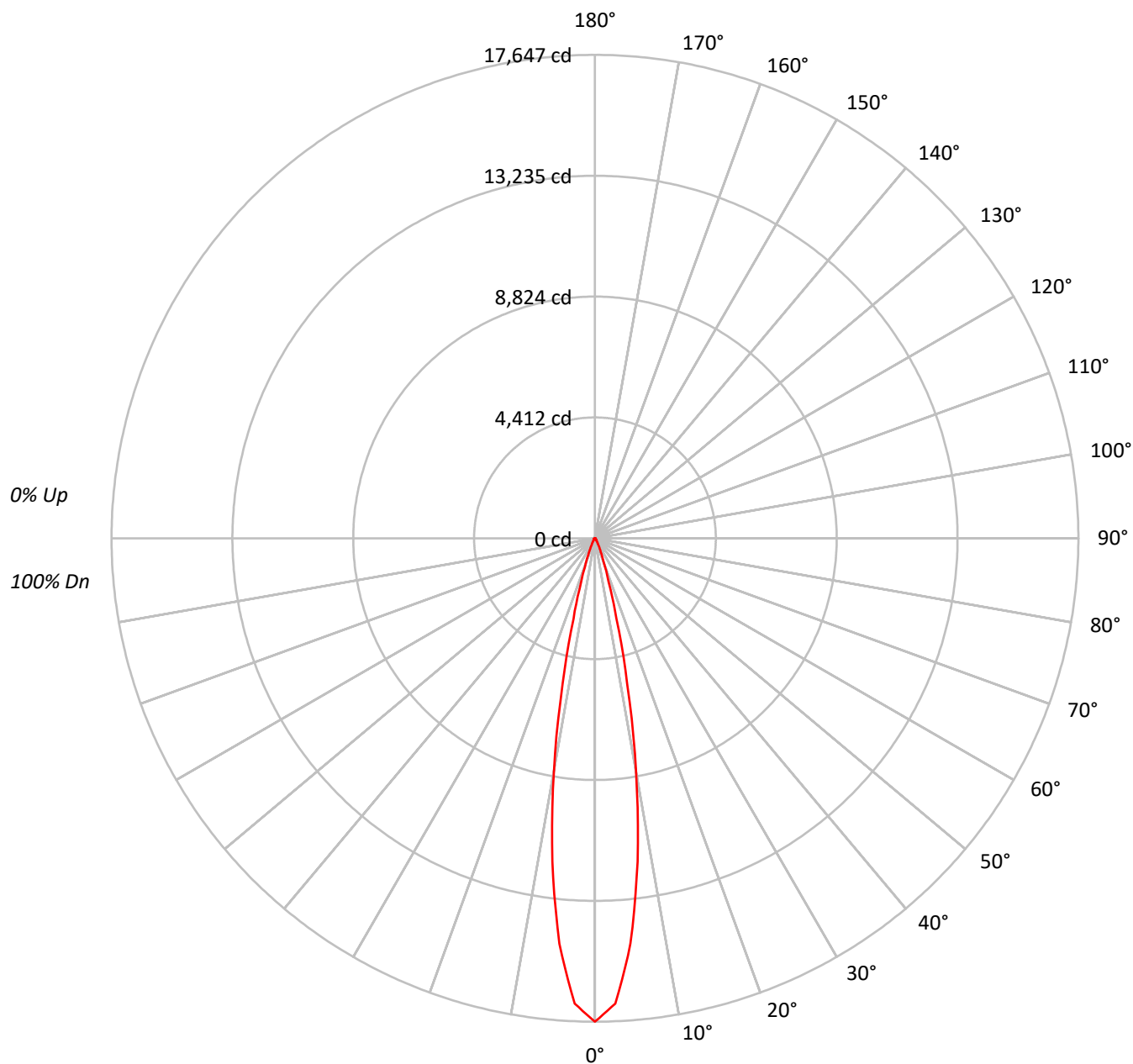
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	96	94	96	94	93	91						
4	105	100	97	94	104	99	96	93	97	94	92	95	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°	8706620
5°	7359329
10°	4322598
15°	1547727
20°	512127
25°	203817
30°	97420
35°	55713
40°	40189
45°	33841
50°	38992
55°	31827
60°	15985
65°	13542
70°	16734
75°	17538
80°	13070
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.7	48.3
10°-20°	948.9	37.6
20°-30°	196.9	7.8
30°-40°	62.1	2.5
40°-50°	39.9	1.6
50°-60°	32.1	1.3
60°-70°	12.6	0.5
70°-80°	9.4	0.4
80°-90°	1.9	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°	2362.5	93.7
0°-40°	2424.6	96.2
0°-60°	2496.6	99.1
0°-90°	2520.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2520.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17647	
5°	14859	###
15°	3030	949
25°	374	197
35°	92	62
45°	48	40
55°	37	32
65°	12	13
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17646.9
2.5°	16999.7
5°	14859.4
7.5°	11905.6
10°	8628.1
12.5°	5443.1
15°	3030.1
17.5°	1666.5
20°	975.4
22.5°	596.3
25°	374.4
27.5°	247.3
30°	171.0
32.5°	120.2
35°	92.5
37.5°	74.0
40°	62.4
42.5°	53.2
45°	48.5
47.5°	48.5
50°	50.8
52.5°	48.5
55°	37.0
57.5°	25.4
60°	16.2
62.5°	13.9
65°	11.6
67.5°	11.6
70°	11.6
72.5°	11.6
75°	9.2
77.5°	6.9
80°	4.6
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)