

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: P433367

Luminaire Tested: **LAMR4B108R209024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433367
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: LAMR4B108R209024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 701.3 lumens
Efficiency: N/A
Efficacy: 61.5 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

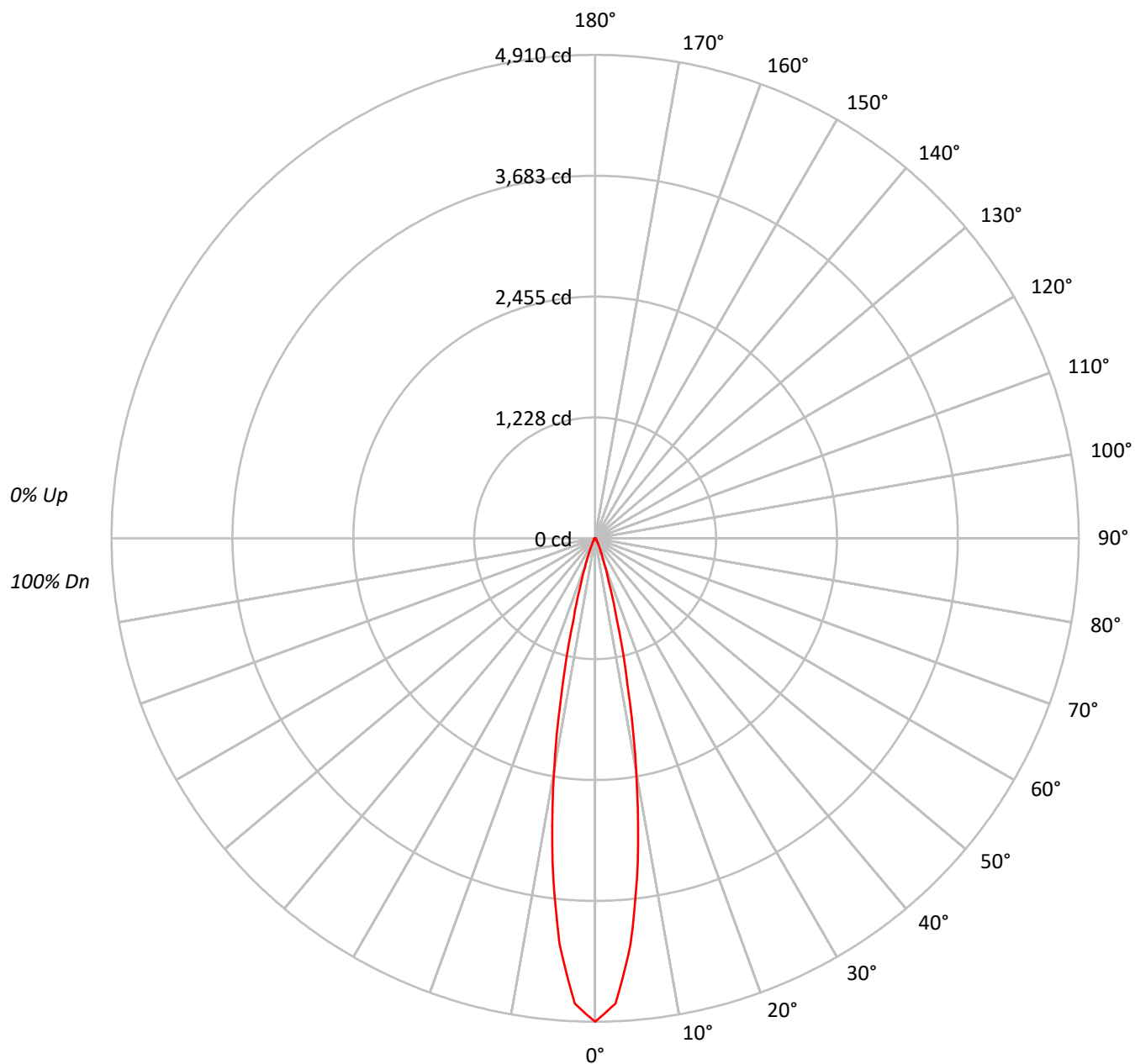
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2422592
5°	2047719
10°	1202728
15°	430642
20°	142497
25°	56725
30°	27118
35°	15479
40°	11207
45°	9420
50°	10823
55°	8860
60°	4440
65°	3736
70°	4616
75°	4956
80°	3694
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	48.3
10°-20°	264.0	37.6
20°-30°	54.8	7.8
30°-40°	17.3	2.5
40°-50°	11.1	1.6
50°-60°	8.9	1.3
60°-70°	3.5	0.5
70°-80°	2.6	0.4
80°-90°	0.5	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°	657.4	93.7
0°-40°	674.6	96.2
0°-60°	694.7	99.1
0°-90°	701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4910	
5°	4135	339
15°	843	264
25°	104	55
35°	26	17
45°	14	11
55°	10	9
65°	3	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4910.2
2.5°	4730.1
5°	4134.6
7.5°	3312.7
10°	2400.7
12.5°	1514.5
15°	843.1
17.5°	463.7
20°	271.4
22.5°	165.9
25°	104.2
27.5°	68.8
30°	47.6
32.5°	33.4
35°	25.7
37.5°	20.6
40°	17.4
42.5°	14.8
45°	13.5
47.5°	13.5
50°	14.1
52.5°	13.5
55°	10.3
57.5°	7.1
60°	4.5
62.5°	3.9
65°	3.2
67.5°	3.2
70°	3.2
72.5°	3.2
75°	2.6
77.5°	1.9
80°	1.3
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)