

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: P431526

Luminaire Tested: **LAMR4B312R209030DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431526
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: LAMR4B312R209030DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

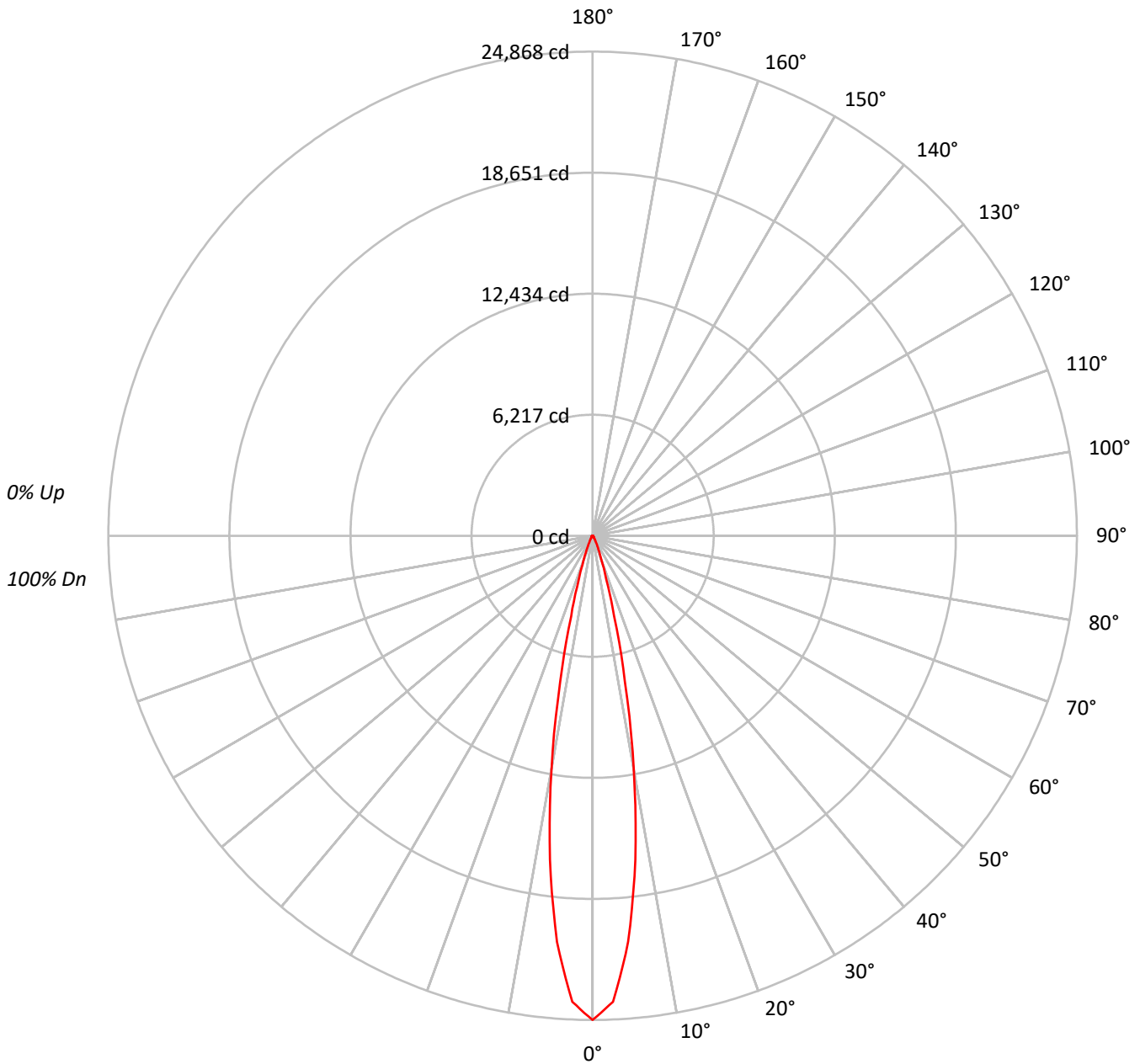
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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				100															
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97				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°	12269412
5°	10370832
10°	6091446
15°	2181099
20°	721672
25°	287271
30°	137299
35°	78480
40°	56613
45°	47726
50°	55034
55°	44815
60°	22498
65°	19029
70°	23513
75°	24782
80°	18468
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1714.6	48.3
10°-20°	1337.1	37.6
20°-30°	277.5	7.8
30°-40°	87.5	2.5
40°-50°	56.3	1.6
50°-60°	45.2	1.3
60°-70°	17.7	0.5
70°-80°	13.3	0.4
80°-90°	2.7	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°	3329.3	93.7
0°-40°	3416.8	96.2
0°-60°	3518.3	99.1
0°-90°	3552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24868	
5°	20940	###
15°	4270	1337
25°	528	278
35°	130	87
45°	68	56
55°	52	45
65°	16	18
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	24868.1
2.5°	23956.1
5°	20940.0
7.5°	16777.4
10°	12158.8
12.5°	7670.5
15°	4270.1
17.5°	2348.4
20°	1374.5
22.5°	840.3
25°	527.7
27.5°	348.5
30°	241.0
32.5°	169.4
35°	130.3
37.5°	104.2
40°	87.9
42.5°	74.9
45°	68.4
47.5°	68.4
50°	71.7
52.5°	68.4
55°	52.1
57.5°	35.8
60°	22.8
62.5°	19.5
65°	16.3
67.5°	16.3
70°	16.3
72.5°	16.3
75°	13.0
77.5°	9.8
80°	6.5
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)