

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: P434115

Luminaire Tested: **LAMR4B308R459027DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R459027DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

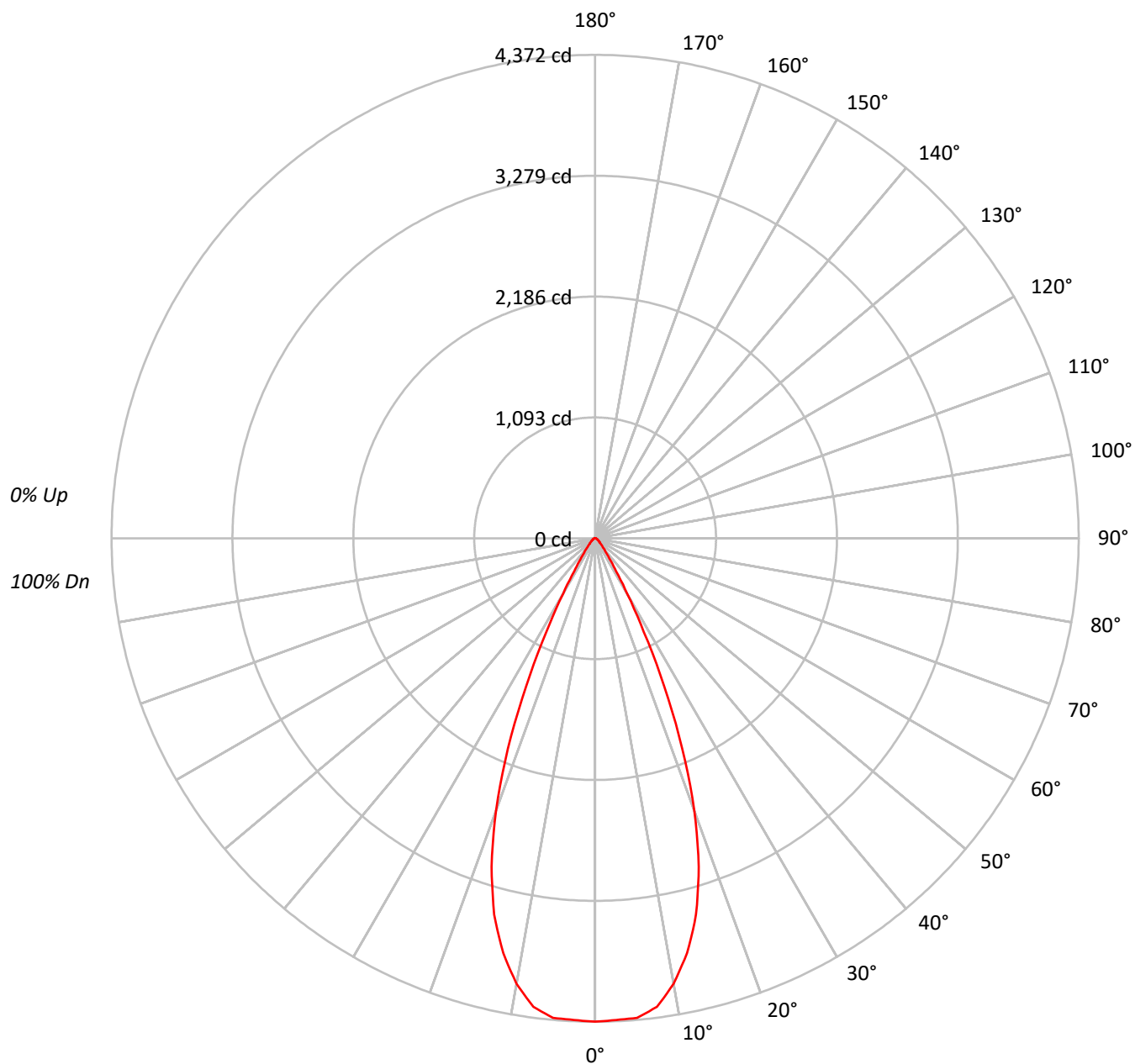
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2156809
5°	2156083
10°	2049403
15°	1800207
20°	1377137
25°	803946
30°	329062
35°	139133
40°	75870
45°	48982
50°	38225
55°	33117
60°	26840
65°	21131
70°	19619
75°	17347
80°	19321
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	17.5
10°-20°	959.5	41.1
20°-30°	676.1	29.0
30°-40°	166.4	7.1
40°-50°	58.1	2.5
50°-60°	34.4	1.5
60°-70°	19.0	0.8
70°-80°	10.5	0.4
80°-90°	2.8	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°	2042.9	87.5
0°-40°	2209.3	94.7
0°-60°	2301.8	98.6
0°-90°	2334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4372	
5°	4353	407
15°	3524	959
25°	1477	676
35°	231	166
45°	70	58
55°	38	34
65°	18	19
75°	9	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4371.5
2.5°	4360.2
5°	4353.4
7.5°	4274.1
10°	4090.7
12.5°	3841.5
15°	3524.4
17.5°	3114.4
20°	2622.9
22.5°	2058.9
25°	1476.8
27.5°	953.6
30°	577.6
32.5°	351.1
35°	231.0
37.5°	163.1
40°	117.8
42.5°	90.6
45°	70.2
47.5°	58.9
50°	49.8
52.5°	43.0
55°	38.5
57.5°	34.0
60°	27.2
62.5°	22.7
65°	18.1
67.5°	15.9
70°	13.6
72.5°	11.3
75°	9.1
77.5°	9.1
80°	6.8
82.5°	4.5
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)