

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: P434112

Luminaire Tested: **LAMR4B308R459024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434112
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: LAMR4B308R459024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 67.1 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

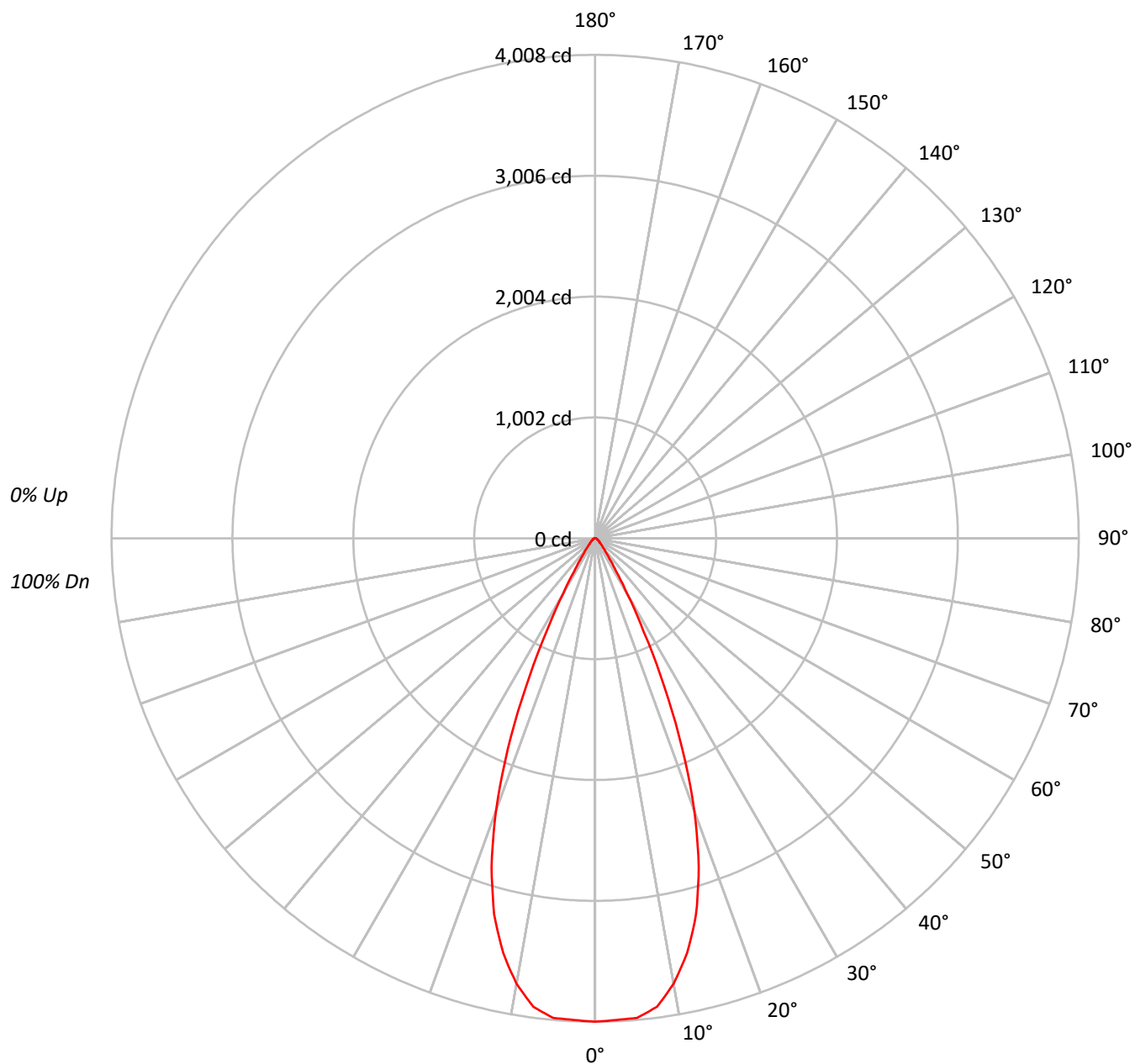
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1977465
5°	1976797
10°	1878966
15°	1650497
20°	1262625
25°	737096
30°	301716
35°	127568
40°	69559
45°	44935
50°	35078
55°	30364
60°	24570
65°	19379
70°	18032
75°	15822
80°	17616
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	17.5
10°-20°	879.7	41.1
20°-30°	619.8	29.0
30°-40°	152.6	7.1
40°-50°	53.2	2.5
50°-60°	31.5	1.5
60°-70°	17.4	0.8
70°-80°	9.6	0.4
80°-90°	2.6	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°	1873.0	87.5
0°-40°	2025.6	94.7
0°-60°	2110.4	98.6
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4008	
5°	3991	374
15°	3231	880
25°	1354	620
35°	212	153
45°	64	53
55°	35	32
65°	17	17
75°	8	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4008.0
2.5°	3997.6
5°	3991.4
7.5°	3918.7
10°	3750.5
12.5°	3522.1
15°	3231.3
17.5°	2855.4
20°	2404.8
22.5°	1887.7
25°	1354.0
27.5°	874.3
30°	529.6
32.5°	321.9
35°	211.8
37.5°	149.5
40°	108.0
42.5°	83.1
45°	64.4
47.5°	54.0
50°	45.7
52.5°	39.5
55°	35.3
57.5°	31.2
60°	24.9
62.5°	20.8
65°	16.6
67.5°	14.5
70°	12.5
72.5°	10.4
75°	8.3
77.5°	8.3
80°	6.2
82.5°	4.2
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)