

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: P433952

Luminaire Tested: **LAMR4B308R109035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R109035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.8 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

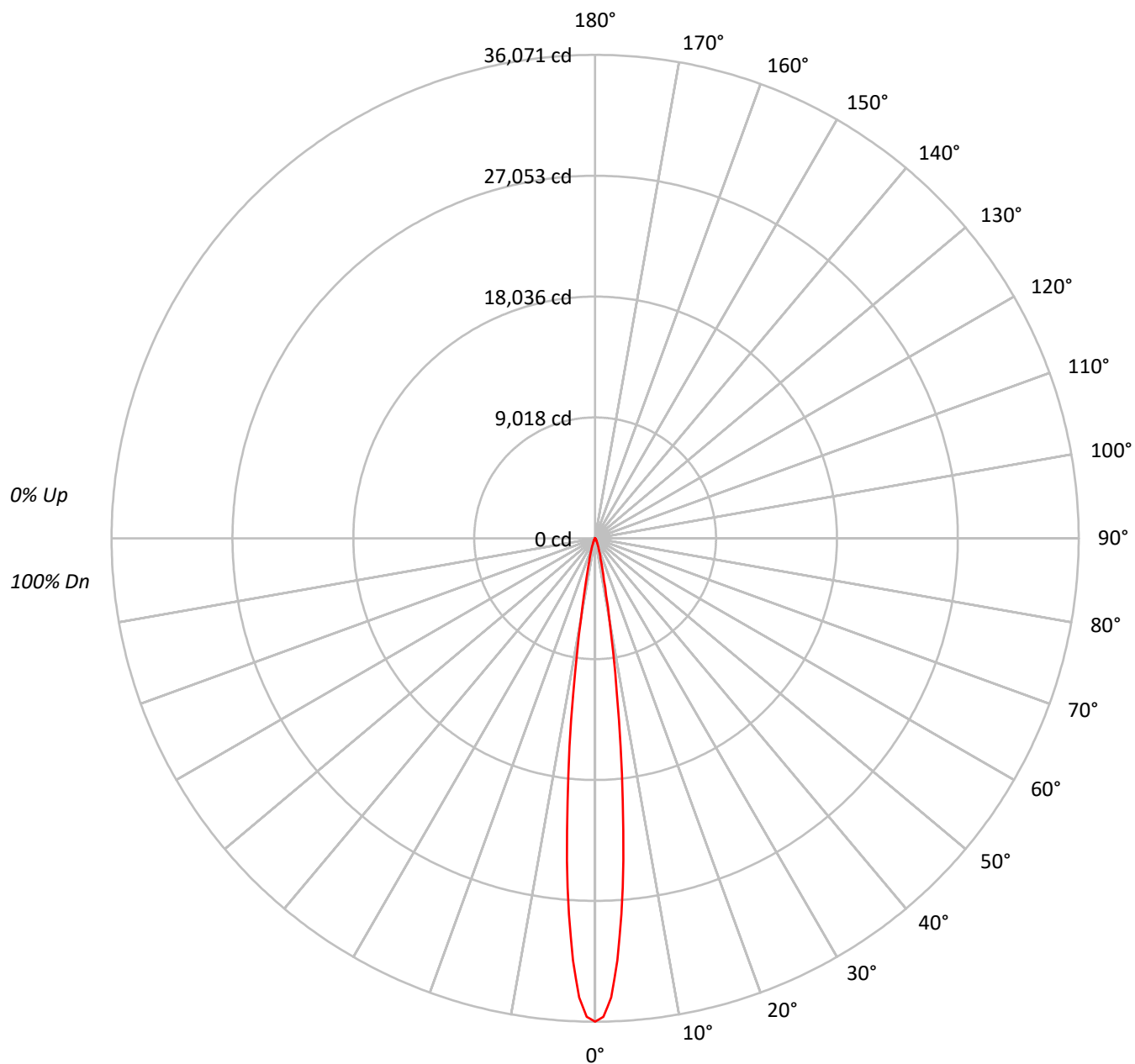
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	99			99
3	110	106	103	101	108	105	102	100		102	100	98			100	98	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			96
6	103	98	95	93	102	98	95	92		97	94	92			95	93	91			94
7	102	97	93	91	101	96	93	91		95	92	90			94	92	90			93
8	100	95	92	89	99	94	91	89		94	91	89			93	90	89			92
9	98	93	90	88	98	93	90	88		92	90	88			92	89	88			91
10	97	92	89	87	96	92	89	87		91	88	87			90	88	86			90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17796496
5°	11954142
10°	3050883
15°	789774
20°	353879
25°	168324
30°	90355
35°	52521
40°	40833
45°	22118
50°	18268
55°	13677
60°	15689
65°	9223
70°	11396
75°	15060
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1658.8	67.4
10°-20°	528.1	21.5
20°-30°	154.3	6.3
30°-40°	58.7	2.4
40°-50°	27.9	1.1
50°-60°	16.8	0.7
60°-70°	8.8	0.4
70°-80°	7.3	0.3
80°-90°	0.0	0.0
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°	2341.2	95.1
0°-40°	2399.9	97.5
0°-60°	2444.7	99.3
0°-90°	2460.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	36071	
5°	24137	###
15°	1546	528
25°	309	154
35°	87	59
45°	32	28
55°	16	17
65°	8	9
75°	8	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	36070.6
1°	35721.7
2°	34278.6
3°	31527.1
4°	28125.4
5°	24136.9
6°	19728.2
7°	15660.5
8°	11695.8
9°	8524.0
10°	6089.7
11°	4313.6
12°	3195.5
13°	2426.4
14°	1926.8
15°	1546.2
17.5°	1007.0
20°	674.0
22.5°	452.0
25°	309.2
27.5°	214.1
30°	158.6
32.5°	111.0
35°	87.2
37.5°	71.4
40°	63.4
42.5°	47.6
45°	31.7
47.5°	23.8
50°	23.8
52.5°	23.8
55°	15.9
57.5°	15.9
60°	15.9
62.5°	7.9
65°	7.9
67.5°	7.9
70°	7.9
72.5°	7.9
75°	7.9
77.5°	7.9
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)