

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: P431546

Luminaire Tested: **LAMR4B312R259027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-5)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R259027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 25 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3432.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.41
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

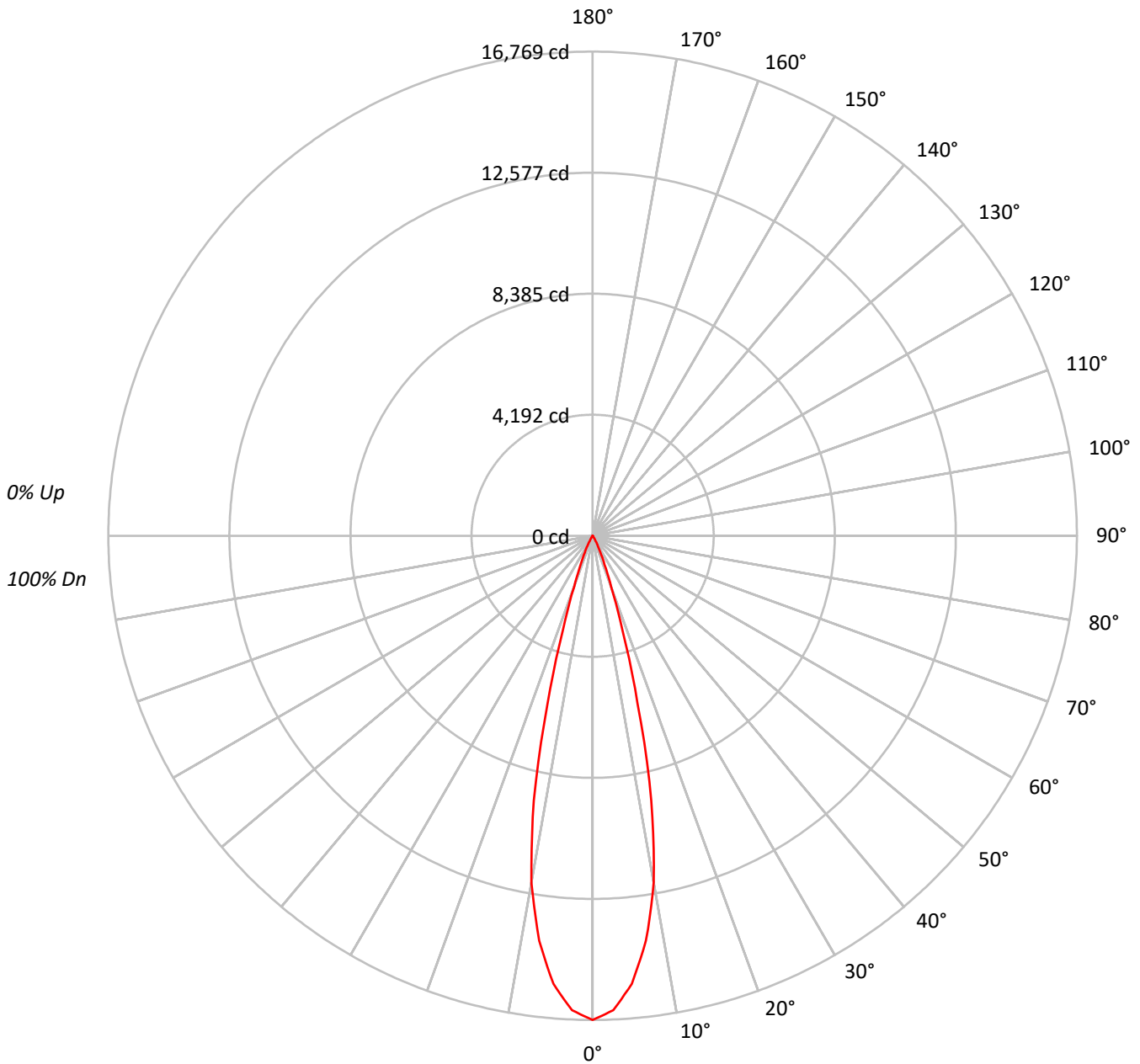
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	99	99	99	97
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	96	96	96	95
3	109	104	101	99	107	103	100	98	101	98	96	99	96	95	96	95	93	93	93	93	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	91	91	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	89	89	89	88
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	86	86	86	85
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	84	84	84	83
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	82	82	82	81
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	81	81	81	80
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	79	79	79	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2701566
5°	2519132
10°	1994756
15°	1003907
20°	322142
25°	112645
30°	37745
35°	7572
40°	2482
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.1	40.2
10°-20°	1672.7	48.7
20°-30°	340.4	9.9
30°-40°	38.5	1.1
40°-50°	1.9	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	3392.2	98.8
0°-40°	3430.8	99.9
0°-60°	3432.6	100.0
0°-90°	3432.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16769	
5°	15577	###
15°	6019	1673
25°	634	340
35°	38	39
45°	0	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16769.1
2.5°	16444.9
5°	15577.2
7.5°	14145.3
10°	12193.7
12.5°	9398.1
15°	6019.1
17.5°	3390.8
20°	1879.0
22.5°	1070.6
25°	633.7
27.5°	379.1
30°	202.9
32.5°	88.8
35°	38.5
37.5°	23.7
40°	11.8
42.5°	4.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)