

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: P431027

Luminaire Tested: **LAMR4B112R359040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R359040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1283.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

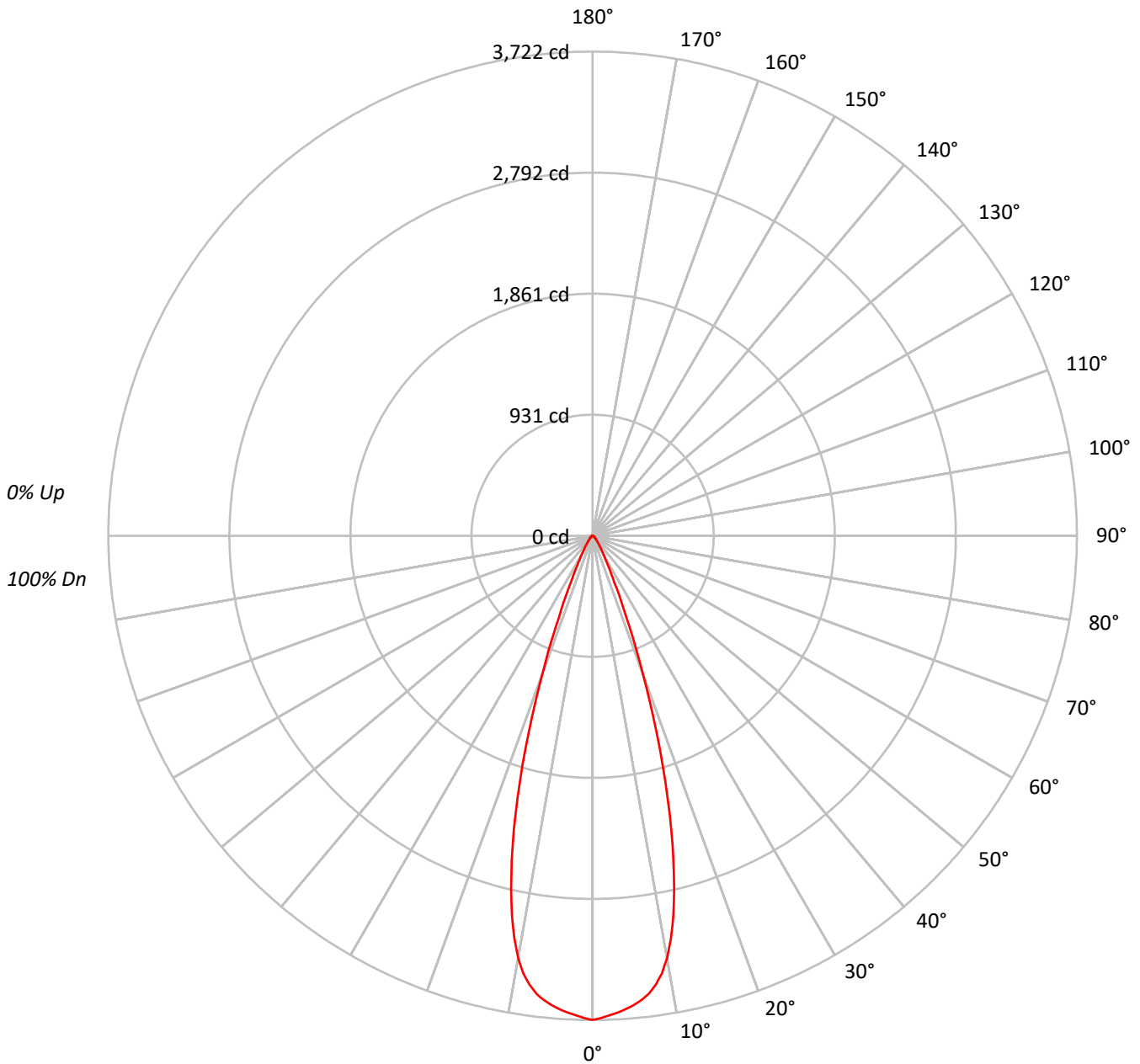
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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																											
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96																											
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																											
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87																											
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84																											
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																											
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78																											
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75																											
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																											
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70																											
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1836112
5°	1793748
10°	1650714
15°	1193089
20°	589414
25°	216229
30°	97477
35°	53063
40°	32912
45°	22258
50°	16656
55°	14279
60°	12631
65°	11908
70°	11108
75°	9722
80°	10797
85°	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	26.2
10°-20°	615.1	47.9
20°-30°	214.1	16.7
30°-40°	59.3	4.6
40°-50°	25.8	2.0
50°-60°	15.0	1.2
60°-70°	10.1	0.8
70°-80°	5.6	0.4
80°-90°	1.6	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°	1165.7	90.9
0°-40°	1225.1	95.5
0°-60°	1265.8	98.7
0°-90°	1283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3722	
5°	3622	337
15°	2336	615
25°	397	214
35°	88	59
45°	32	26
55°	17	15
65°	10	10
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3721.5
1°	3708.7
2°	3689.5
3°	3670.4
4°	3648.7
5°	3621.8
6°	3588.6
7°	3547.8
8°	3485.2
9°	3404.7
10°	3294.9
11°	3154.4
12°	2984.6
13°	2785.3
14°	2567.0
15°	2335.8
16°	2089.3
17°	1841.6
18°	1592.5
19°	1352.4
20°	1122.6
22.5°	669.2
25°	397.2
26°	330.8
27°	275.9
28°	233.7
29°	199.2
30°	171.1
32.5°	121.3
35°	88.1
37.5°	66.4
40°	51.1
42.5°	39.6
45°	31.9
47.5°	26.8
50°	21.7
52.5°	19.2
55°	16.6
57.5°	14.0
60°	12.8
62.5°	11.5
65°	10.2
67.5°	8.9



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CANDELA DISTRIBUTION (continued):

	0°
75°	5.1
77.5°	3.8
80°	3.8
82.5°	2.6
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







70°	7.7
72.5°	6.4



(END OF REPORT)