

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: P431157

Luminaire Tested: **LAMR4B112R609730DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R609730DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1070.4 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

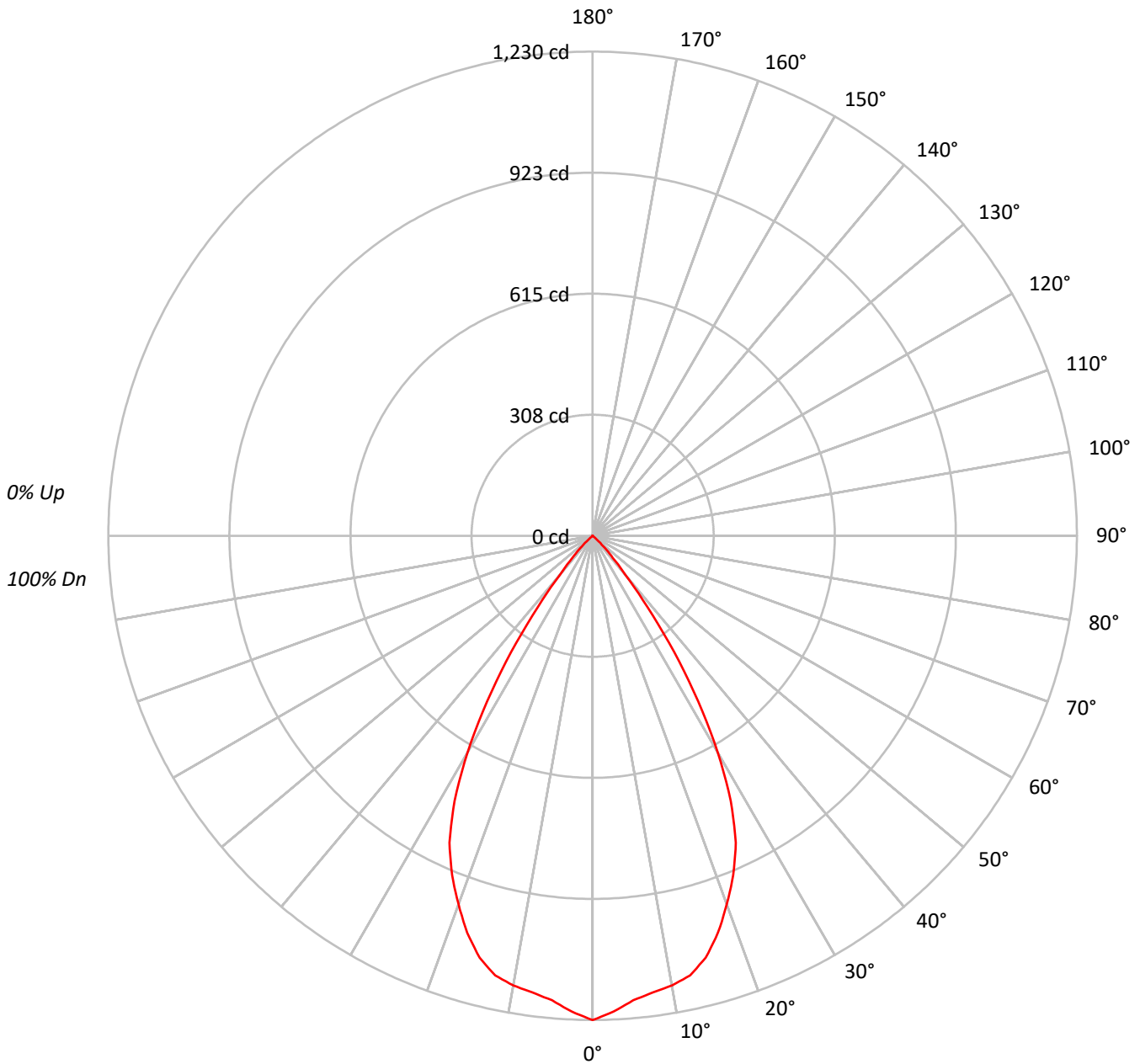
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82			82
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77			77
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72			72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67			67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63			63
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59			59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56			56
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	607005
5°	586640
10°	581149
15°	566766
20°	523048
25°	468388
30°	362447
35°	217131
40°	83406
45°	30491
50°	1228
55°	860
60°	987
65°	584
70°	721
75°	953
80°	1421
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	10.5
10°-20°	308.7	28.8
20°-30°	385.1	36.0
30°-40°	224.3	21.0
40°-50°	37.4	3.5
50°-60°	1.0	0.1
60°-70°	0.7	0.1
70°-80°	0.5	0.0
80°-90°	0.2	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°	806.2	75.3
0°-40°	1030.6	96.3
0°-60°	1069.0	99.9
0°-90°	1070.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1230	
5°	1184	112
15°	1110	309
25°	860	385
35°	360	224
45°	44	37
55°	1	1
65°	0	1
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1230.3
2.5°	1210.0
5°	1184.5
7.5°	1169.9
10°	1160.0
12.5°	1143.9
15°	1109.6
17.5°	1058.1
20°	996.2
22.5°	933.2
25°	860.4
27.5°	759.5
30°	636.2
32.5°	498.4
35°	360.5
37.5°	227.3
40°	129.5
42.5°	75.9
45°	43.7
47.5°	15.1
50°	1.6
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	0.5
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)