

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: P431429

Luminaire Tested: **LAMR4B212R609030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431429
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: LAMR4B212R609030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2169.7 lumens
Efficiency: N/A
Efficacy: 76.4 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

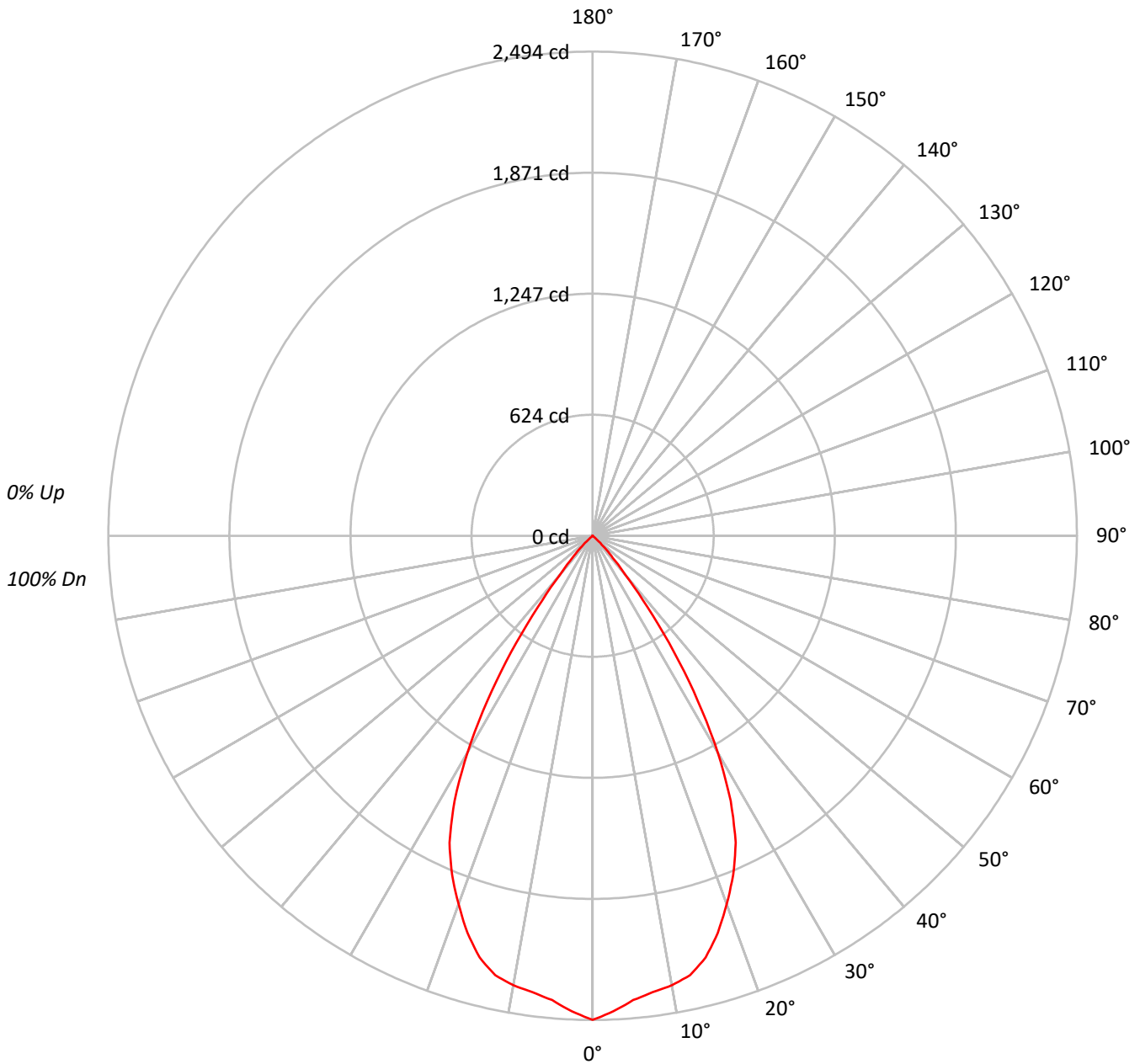
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	60	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°	1230242
5°	1188981
10°	1177879
15°	1148702
20°	1060063
25°	949351
30°	734578
35°	440044
40°	169066
45°	61820
50°	2456
55°	1806
60°	2072
65°	1284
70°	1587
75°	2097
80°	3125
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	10.5
10°-20°	625.6	28.8
20°-30°	780.5	36.0
30°-40°	454.6	21.0
40°-50°	75.9	3.5
50°-60°	2.0	0.1
60°-70°	1.5	0.1
70°-80°	1.2	0.1
80°-90°	0.4	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°	1634.1	75.3
0°-40°	2088.7	96.3
0°-60°	2166.6	99.9
0°-90°	2169.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2494	
5°	2401	228
15°	2249	626
25°	1744	780
35°	731	455
45°	89	76
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2493.5
2.5°	2452.4
5°	2400.7
7.5°	2371.2
10°	2351.1
12.5°	2318.5
15°	2248.9
17.5°	2144.5
20°	2019.0
22.5°	1891.5
25°	1743.9
27.5°	1539.3
30°	1289.4
32.5°	1010.0
35°	730.6
37.5°	460.7
40°	262.5
42.5°	153.9
45°	88.6
47.5°	30.6
50°	3.2
52.5°	2.1
55°	2.1
57.5°	2.1
60°	2.1
62.5°	2.1
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)