

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: P431465

Luminaire Tested: **LAMR4B212R659727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R659727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.5 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

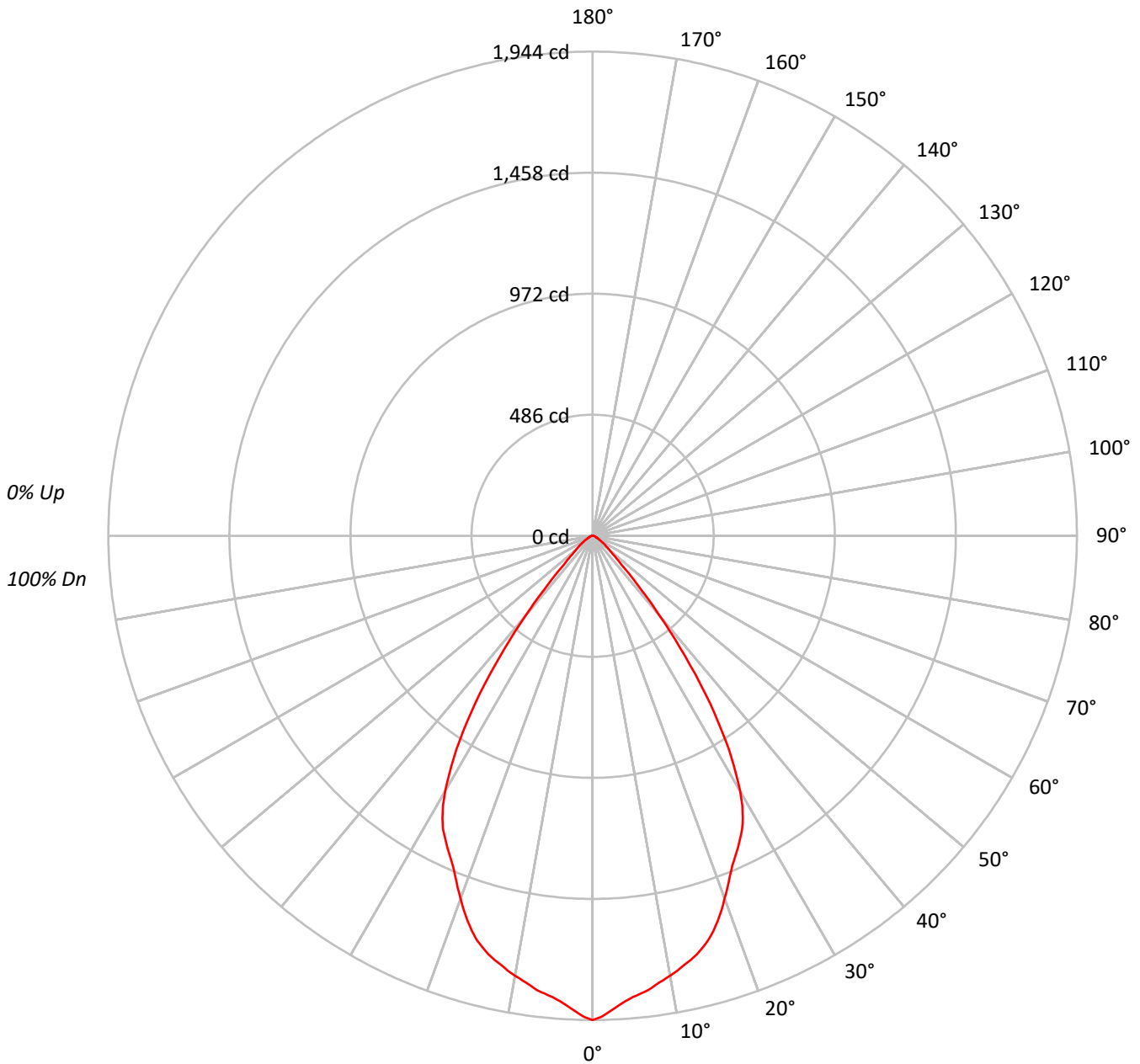
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50			50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	959377
5°	920597
10°	898827
15°	873696
20°	813660
25°	751522
30°	674645
35°	495637
40°	267672
45°	115128
50°	64091
55°	44901
60°	28813
65°	21948
70°	18032
75°	16013
80°	17900
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	8.7
10°-20°	477.3	23.7
20°-30°	632.7	31.4
30°-40°	501.1	24.9
40°-50°	149.2	7.4
50°-60°	47.8	2.4
60°-70°	19.1	0.9
70°-80°	9.1	0.5
80°-90°	2.6	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°	1285.7	63.8
0°-40°	1786.7	88.7
0°-60°	1983.7	98.5
0°-90°	2014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1944	
5°	1859	176
15°	1710	477
25°	1380	633
35°	823	501
45°	165	149
55°	52	48
65°	19	19
75°	8	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1944.5
1°	1931.9
2°	1913.1
3°	1892.2
4°	1873.4
5°	1858.8
6°	1848.4
7°	1837.9
8°	1821.2
9°	1806.6
10°	1794.1
11°	1779.5
12°	1762.8
13°	1748.1
14°	1731.4
15°	1710.5
16°	1687.6
17°	1658.3
18°	1624.9
19°	1589.4
20°	1549.7
21°	1512.1
22°	1472.4
23°	1436.9
24°	1407.7
25°	1380.5
26°	1351.3
27°	1322.1
28°	1284.5
29°	1238.5
30°	1184.2
32.5°	1019.2
35°	822.9
37.5°	609.9
40°	415.6
42.5°	263.2
45°	165.0
47.5°	110.7
50°	83.5
52.5°	66.8
55°	52.2
57.5°	39.7
60°	29.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	14.6
70°	12.5
72.5°	10.4
75°	8.4
77.5°	6.3
80°	6.3
82.5°	4.2
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		23.0
65°		18.8



(END OF REPORT)