

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: P433910

Luminaire Tested: **LAMR4B208R659050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433910
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: LAMR4B208R659050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1776.8 lumens
Efficiency: N/A
Efficacy: 86.3 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

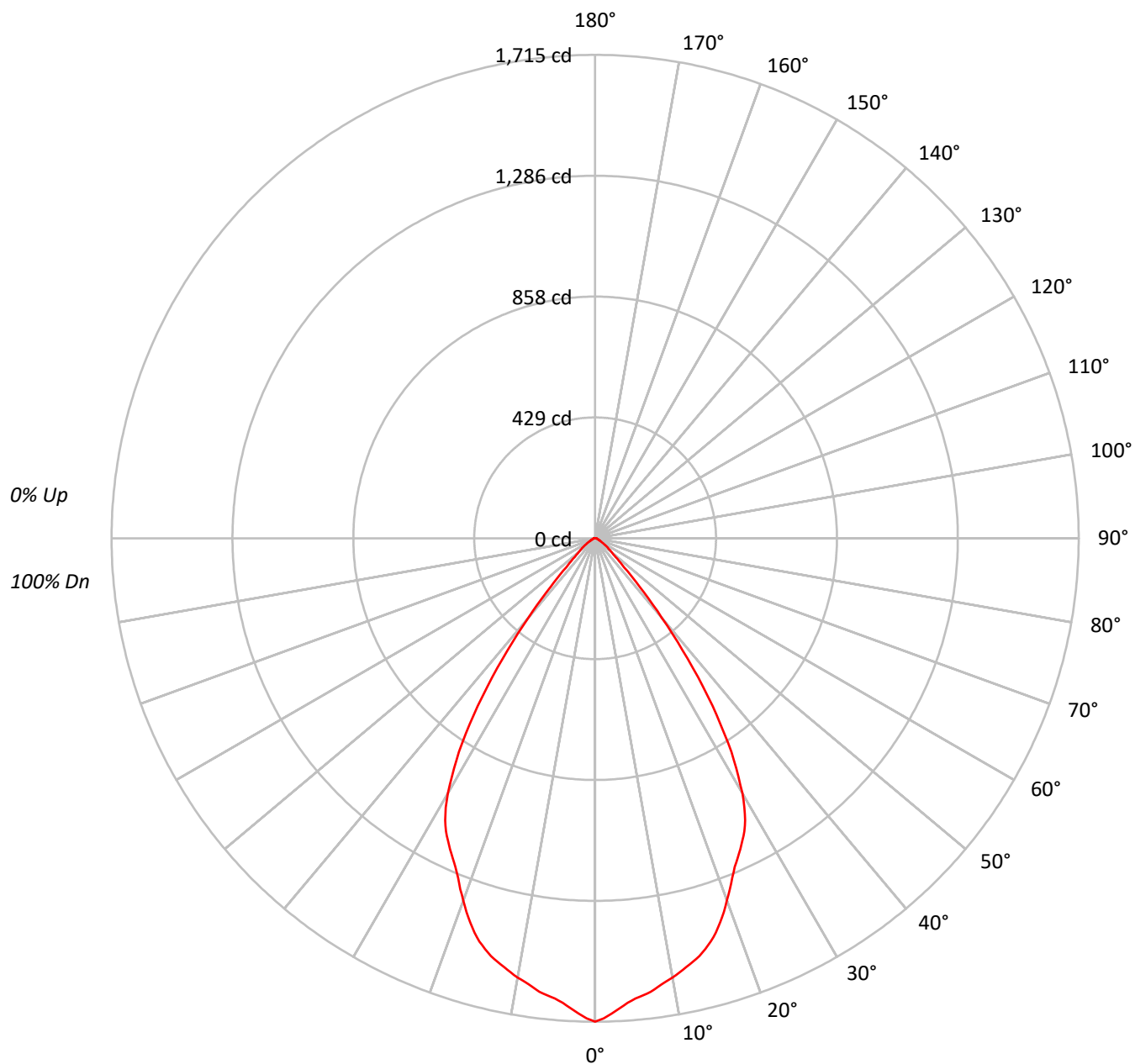
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	106	103		104	102	100			100	99	97			97
2	107	102	98	94	105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			86
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71	89	81	75	70		79	74	70			77	73	69			75
6	85	76	70	65	84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60	80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56	75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52	72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49	68	58	53	49		58	52	48			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	846146
5°	811986
10°	792768
15°	770620
20°	717682
25°	662897
30°	595058
35°	437153
40°	236113
45°	101522
50°	56569
55°	39654
60°	25458
65°	19379
70°	16012
75°	14106
80°	15627
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	8.7
10°-20°	421.0	23.7
20°-30°	558.1	31.4
30°-40°	441.9	24.9
40°-50°	131.6	7.4
50°-60°	42.1	2.4
60°-70°	16.8	0.9
70°-80°	8.0	0.5
80°-90°	2.2	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°	1134.0	63.8
0°-40°	1575.9	88.7
0°-60°	1749.7	98.5
0°-90°	1776.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1715	
5°	1640	155
15°	1509	421
25°	1218	558
35°	726	442
45°	146	132
55°	46	42
65°	17	17
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1715.0
1°	1704.0
2°	1687.4
3°	1669.0
4°	1652.4
5°	1639.5
6°	1630.3
7°	1621.1
8°	1606.4
9°	1593.5
10°	1582.4
11°	1569.5
12°	1554.8
13°	1541.9
14°	1527.1
15°	1508.7
16°	1488.5
17°	1462.7
18°	1433.2
19°	1401.9
20°	1366.9
21°	1333.7
22°	1298.7
23°	1267.4
24°	1241.6
25°	1217.7
26°	1191.9
27°	1166.1
28°	1132.9
29°	1092.4
30°	1044.5
32.5°	899.0
35°	725.8
37.5°	537.9
40°	366.6
42.5°	232.1
45°	145.5
47.5°	97.6
50°	73.7
52.5°	58.9
55°	46.1
57.5°	35.0
60°	25.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	12.9
70°	11.1
72.5°	9.2
75°	7.4
77.5°	5.5
80°	5.5
82.5°	3.7
85°	1.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	20.3
65°	16.6



(END OF REPORT)