

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: P433901

Luminaire Tested: **LAMR4B208R659030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433901
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: LAMR4B208R659030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 73.8 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

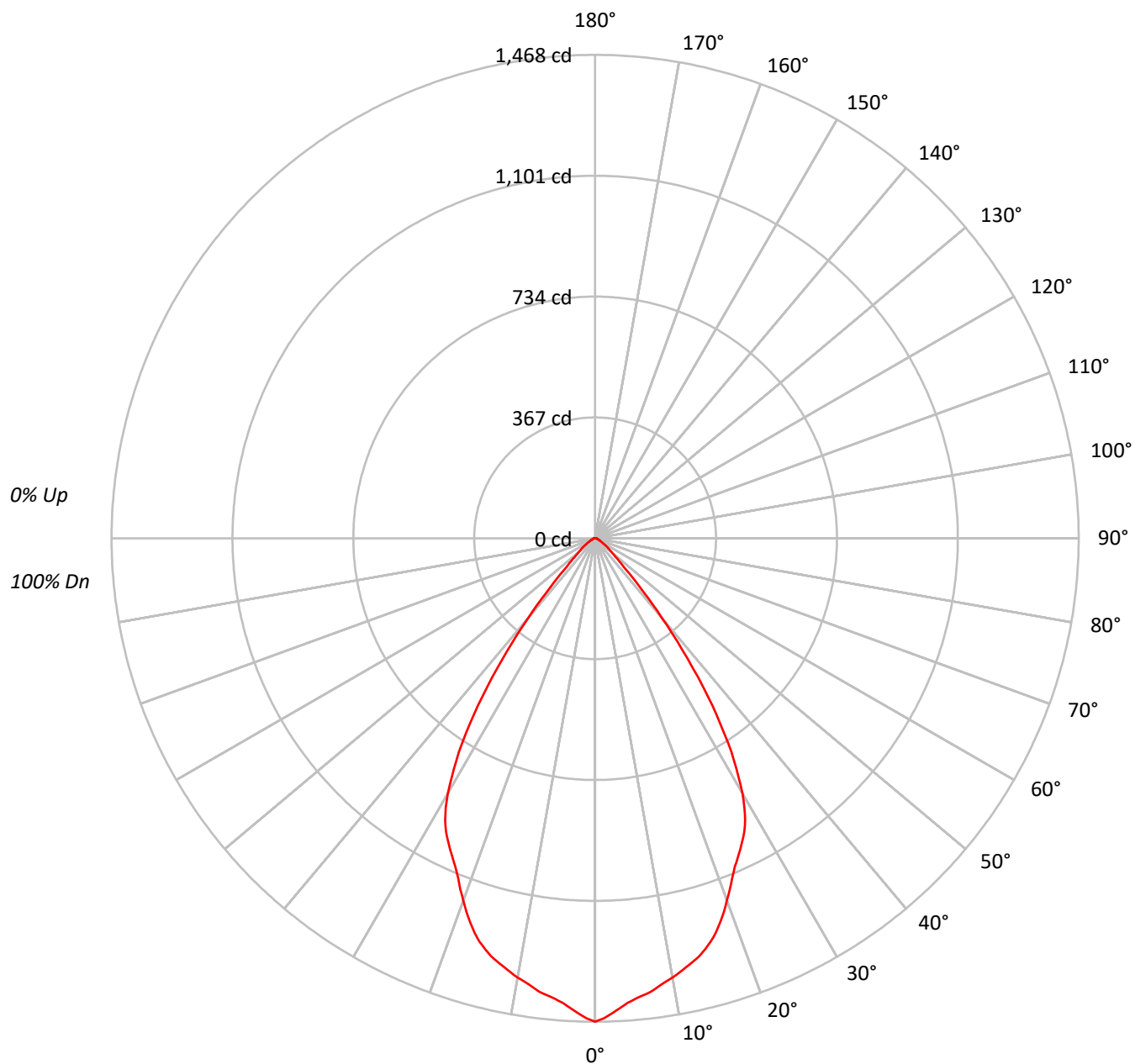
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67		
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50		
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	724331
5°	695054
10°	678642
15°	659678
20°	614353
25°	567412
30°	509374
35°	374212
40°	202106
45°	86939
50°	48433
55°	33891
60°	21807
65°	16578
70°	13704
75°	12010
80°	13354
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	8.7
10°-20°	360.4	23.7
20°-30°	477.7	31.4
30°-40°	378.3	24.9
40°-50°	112.7	7.4
50°-60°	36.1	2.4
60°-70°	14.4	0.9
70°-80°	6.9	0.5
80°-90°	1.9	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°	970.7	63.8
0°-40°	1349.0	88.7
0°-60°	1497.8	98.5
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1468	
5°	1403	133
15°	1292	360
25°	1042	478
35°	621	378
45°	125	113
55°	39	36
65°	14	14
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1468.1
1°	1458.6
2°	1444.4
3°	1428.7
4°	1414.5
5°	1403.4
6°	1395.6
7°	1387.7
8°	1375.1
9°	1364.0
10°	1354.6
11°	1343.5
12°	1330.9
13°	1319.9
14°	1307.3
15°	1291.5
16°	1274.1
17°	1252.1
18°	1226.8
19°	1200.0
20°	1170.1
21°	1141.7
22°	1111.7
23°	1084.9
24°	1062.8
25°	1042.3
26°	1020.3
27°	998.2
28°	969.8
29°	935.1
30°	894.1
32.5°	769.5
35°	621.3
37.5°	460.5
40°	313.8
42.5°	198.7
45°	124.6
47.5°	83.6
50°	63.1
52.5°	50.5
55°	39.4
57.5°	30.0
60°	22.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	11.0
70°	9.5
72.5°	7.9
75°	6.3
77.5°	4.7
80°	4.7
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	17.3
65°	14.2



(END OF REPORT)