

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: P433904

Luminaire Tested: **LAMR4B208R659035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433904
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: LAMR4B208R659035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1593.3 lumens
Efficiency: N/A
Efficacy: 77.3 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

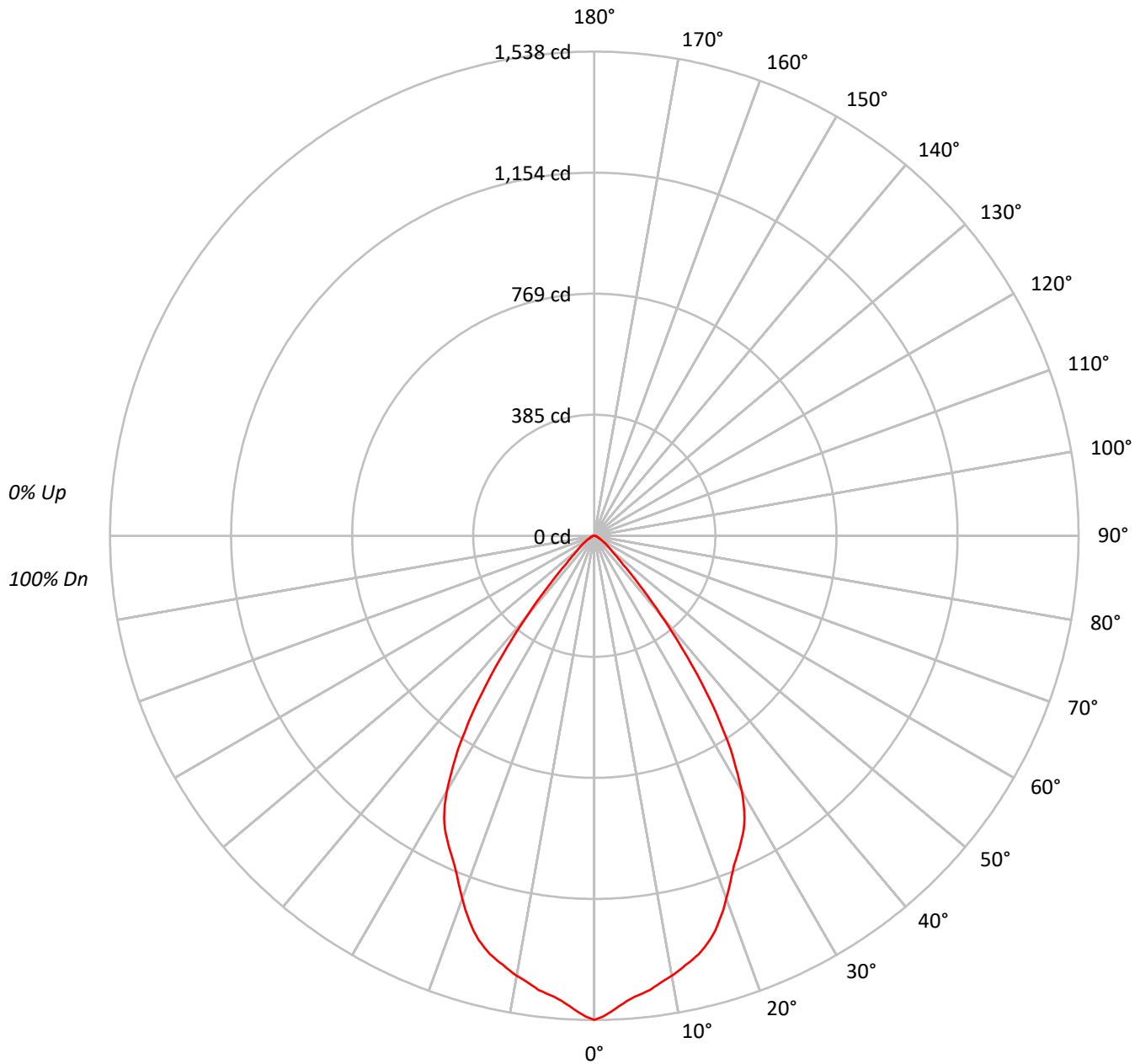
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	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°	758768
5°	728088
10°	710856
15°	691040
20°	643546
25°	594413
30°	533586
35°	391980
40°	211703
45°	91056
50°	50736
55°	35525
60°	22794
65°	17395
70°	14281
75°	12581
80°	14206
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	8.7
10°-20°	377.5	23.7
20°-30°	500.4	31.4
30°-40°	396.3	24.9
40°-50°	118.0	7.4
50°-60°	37.8	2.4
60°-70°	15.1	0.9
70°-80°	7.2	0.5
80°-90°	2.0	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°	1016.8	63.8
0°-40°	1413.1	88.7
0°-60°	1568.9	98.5
0°-90°	1593.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1538	
5°	1470	139
15°	1353	377
25°	1092	500
35°	651	396
45°	130	118
55°	41	38
65°	15	15
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1537.9
1°	1528.0
2°	1513.1
3°	1496.6
4°	1481.7
5°	1470.1
6°	1461.9
7°	1453.6
8°	1440.4
9°	1428.8
10°	1418.9
11°	1407.4
12°	1394.2
13°	1382.6
14°	1369.4
15°	1352.9
16°	1334.7
17°	1311.6
18°	1285.1
19°	1257.0
20°	1225.7
21°	1195.9
22°	1164.5
23°	1136.5
24°	1113.3
25°	1091.9
26°	1068.7
27°	1045.6
28°	1015.9
29°	979.5
30°	936.6
32.5°	806.1
35°	650.8
37.5°	482.3
40°	328.7
42.5°	208.1
45°	130.5
47.5°	87.5
50°	66.1
52.5°	52.9
55°	41.3
57.5°	31.4
60°	23.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	11.6
70°	9.9
72.5°	8.3
75°	6.6
77.5°	5.0
80°	5.0
82.5°	3.3
85°	1.7
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	18.2
65°	14.9



(END OF REPORT)