

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: P433908

Luminaire Tested: **LAMR4B208R659040DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433908
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: LAMR4B208R659040DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1694.3 lumens
Efficiency: N/A
Efficacy: 82.2 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

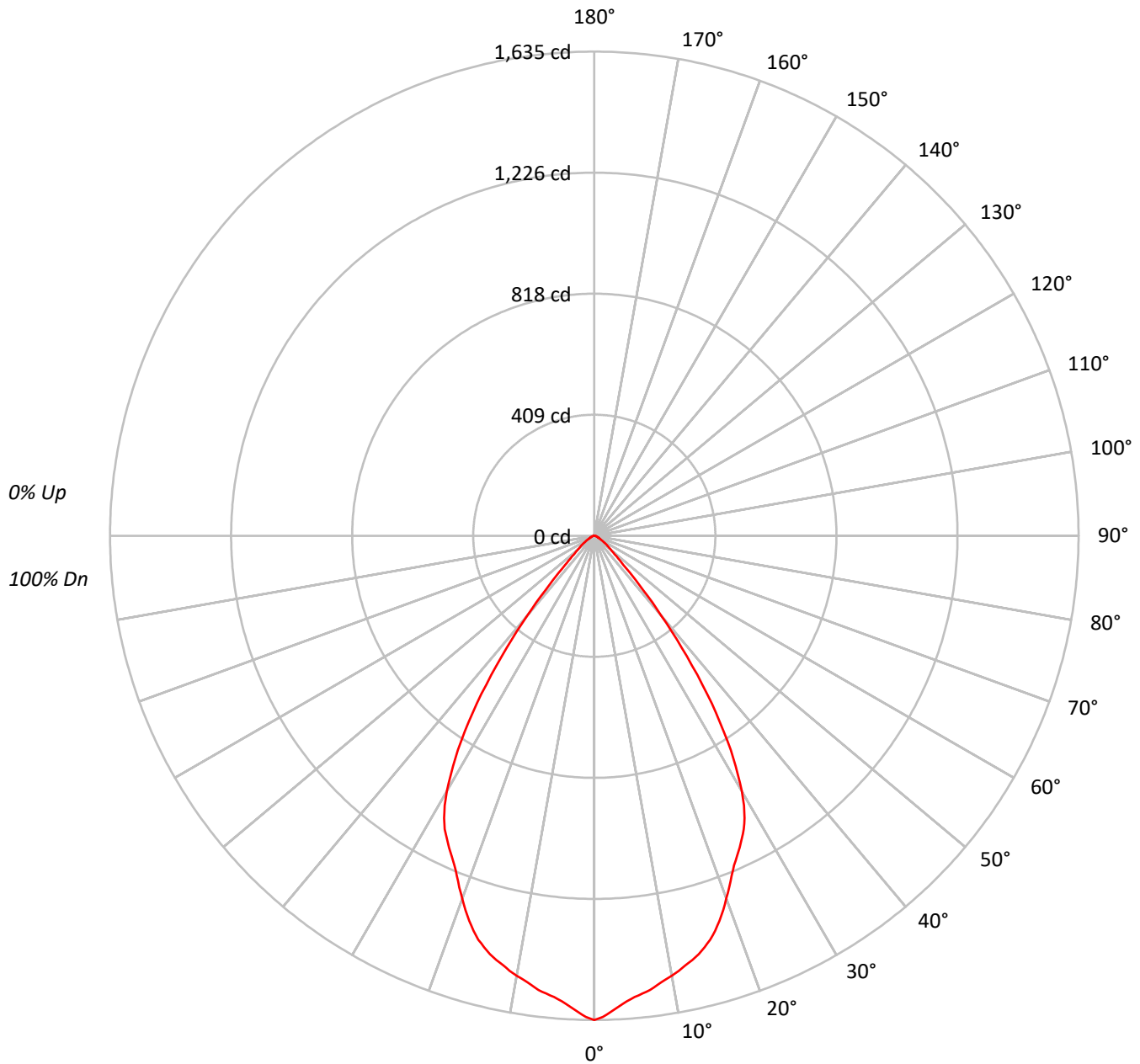
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433908

CATALOG NUMBER: LAMR4B208R659040DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P433908

CATALOG NUMBER: LAMR4B208R659040DE010x1MW

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°	806824
5°	774246
10°	755945
15°	734814
20°	684342
25°	632084
30°	567427
35°	416855
40°	225164
45°	96847
50°	53960
55°	37762
60°	24274
65°	18445
70°	15147
75°	13344
80°	15059
85°	10190



TEST NUMBER: P433908

CATALOG NUMBER: LAMR4B208R659040DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	8.7
10°-20°	401.4	23.7
20°-30°	532.1	31.4
30°-40°	421.4	24.9
40°-50°	125.5	7.4
50°-60°	40.2	2.4
60°-70°	16.0	0.9
70°-80°	7.6	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°	1081.3	63.8
0°-40°	1502.7	88.7
0°-60°	1668.4	98.5
0°-90°	1694.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1635	
5°	1563	148
15°	1439	401
25°	1161	532
35°	692	421
45°	139	126
55°	44	40
65°	16	16
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P433908

CATALOG NUMBER: LAMR4B208R659040DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1635.3
1°	1624.8
2°	1609.0
3°	1591.4
4°	1575.6
5°	1563.3
6°	1554.5
7°	1545.8
8°	1531.7
9°	1519.4
10°	1508.9
11°	1496.6
12°	1482.5
13°	1470.2
14°	1456.2
15°	1438.6
16°	1419.3
17°	1394.7
18°	1366.6
19°	1336.7
20°	1303.4
21°	1271.7
22°	1238.4
23°	1208.5
24°	1183.9
25°	1161.1
26°	1136.5
27°	1111.9
28°	1080.3
29°	1041.6
30°	996.0
32.5°	857.2
35°	692.1
37.5°	512.9
40°	349.6
42.5°	221.3
45°	138.8
47.5°	93.1
50°	70.3
52.5°	56.2
55°	43.9
57.5°	33.4
60°	24.6



TEST NUMBER: P433908

CATALOG NUMBER: LAMR4B208R659040DE010x1MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	12.3
70°	10.5
72.5°	8.8
75°	7.0
77.5°	5.3
80°	5.3
82.5°	3.5
85°	1.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	19.3
65°	15.8



(END OF REPORT)