

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: P433812

Luminaire Tested: **LAMR4B208R459040DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R459040DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

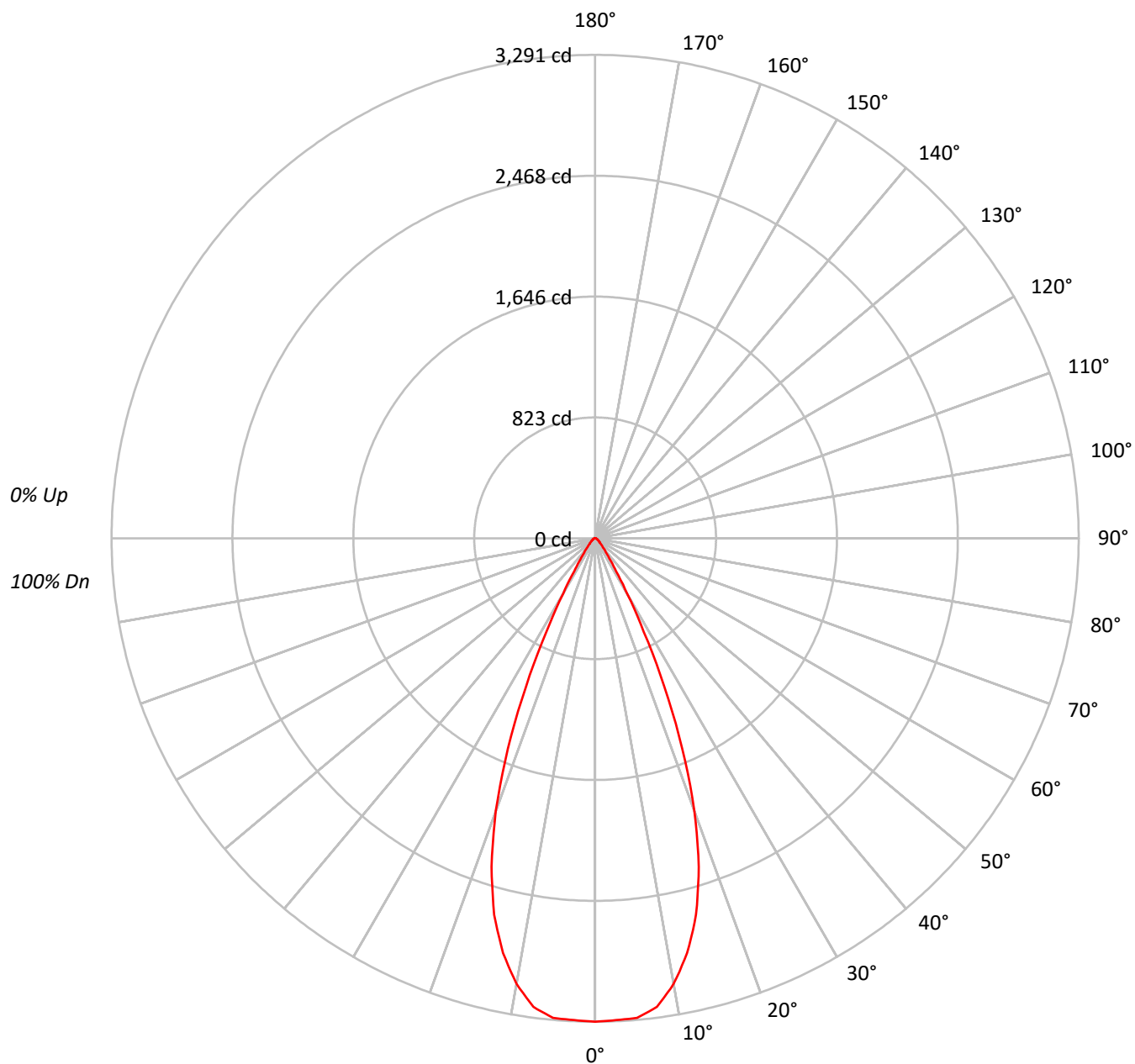
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433812

CATALOG NUMBER: LAMR4B208R459040DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P433812

CATALOG NUMBER: LAMR4B208R459040DE010x1MW

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	114	112	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1623909
5°	1623377
10°	1543051
15°	1355417
20°	1036909
25°	605301
30°	247765
35°	104801
40°	57128
45°	36911
50°	28784
55°	24945
60°	20229
65°	15877
70°	14714
75°	12963
80°	14490
85°	9624



TEST NUMBER: P433812

CATALOG NUMBER: LAMR4B208R459040DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	17.5
10°-20°	722.4	41.1
20°-30°	509.0	29.0
30°-40°	125.3	7.1
40°-50°	43.7	2.5
50°-60°	25.9	1.5
60°-70°	14.3	0.8
70°-80°	7.9	0.4
80°-90°	2.1	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°	1538.2	87.5
0°-40°	1663.5	94.7
0°-60°	1733.1	98.6
0°-90°	1757.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3291	
5°	3278	307
15°	2654	722
25°	1112	509
35°	174	125
45°	53	44
55°	29	26
65°	14	14
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P433812

CATALOG NUMBER: LAMR4B208R459040DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3291.4
2.5°	3282.9
5°	3277.8
7.5°	3218.1
10°	3080.0
12.5°	2892.4
15°	2653.6
17.5°	2344.9
20°	1974.9
22.5°	1550.2
25°	1111.9
27.5°	718.0
30°	434.9
32.5°	264.3
35°	174.0
37.5°	122.8
40°	88.7
42.5°	68.2
45°	52.9
47.5°	44.3
50°	37.5
52.5°	32.4
55°	29.0
57.5°	25.6
60°	20.5
62.5°	17.1
65°	13.6
67.5°	11.9
70°	10.2
72.5°	8.5
75°	6.8
77.5°	6.8
80°	5.1
82.5°	3.4
85°	1.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)