

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: P433802

Luminaire Tested: **LAMR4B208R459027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433802
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: LAMR4B208R459027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1533.9 lumens
Efficiency: N/A
Efficacy: 74.5 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

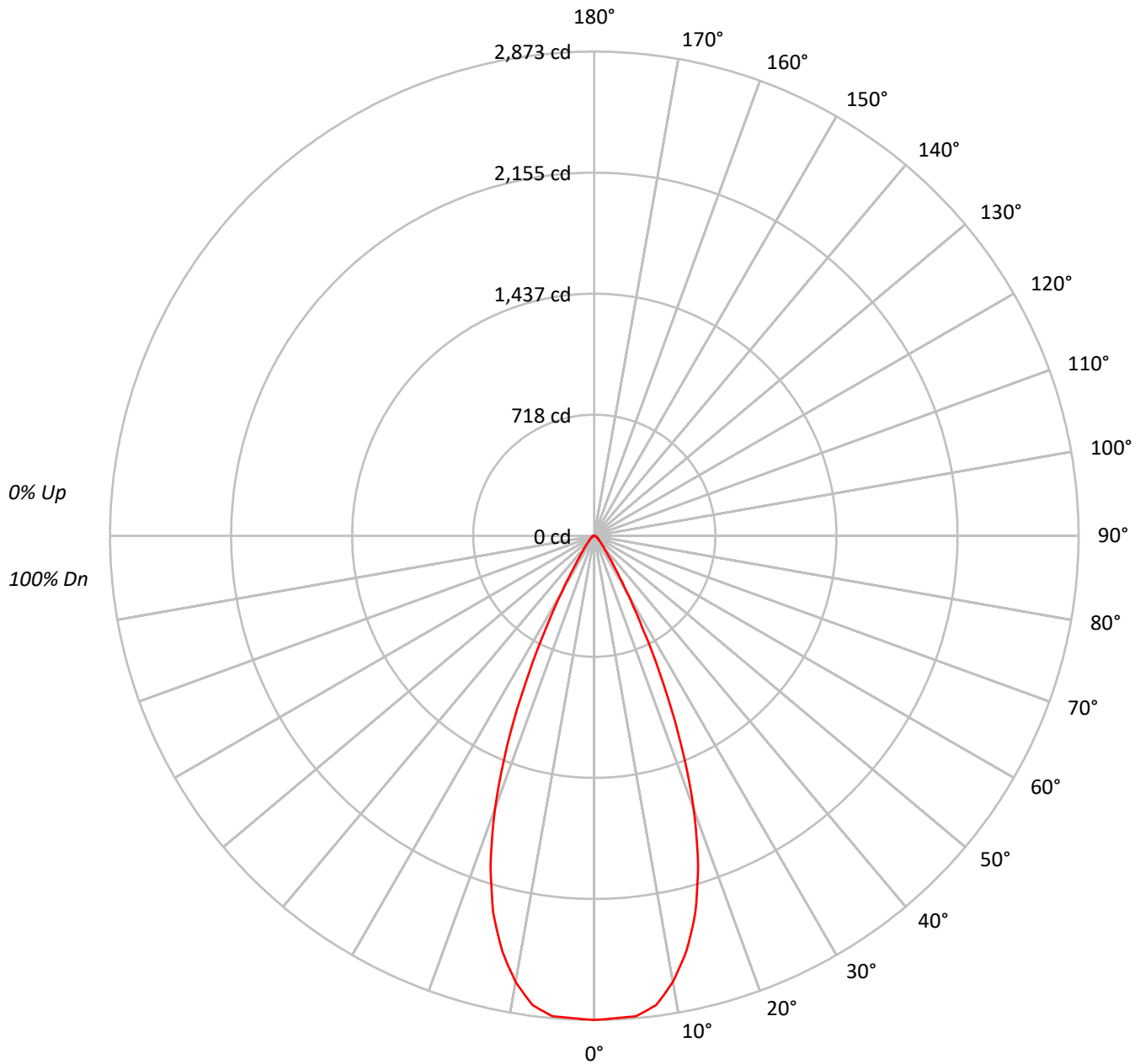
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433802

CATALOG NUMBER: LAMR4B208R459027DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433802

CATALOG NUMBER: LAMR4B208R459027DE010x1MMS

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°	1417430
5°	1416951
10°	1346813
15°	1183078
20°	905018
25°	528325
30°	216260
35°	91430
40°	49850
45°	32166
50°	25099
55°	21763
60°	17663
65°	13892
70°	12839
75°	11438
80°	12786
85°	8491



TEST NUMBER: P433802

CATALOG NUMBER: LAMR4B208R459027DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	17.5
10°-20°	630.6	41.1
20°-30°	444.3	29.0
30°-40°	109.4	7.1
40°-50°	38.1	2.5
50°-60°	22.6	1.5
60°-70°	12.5	0.8
70°-80°	6.9	0.4
80°-90°	1.8	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°	1342.6	87.5
0°-40°	1451.9	94.7
0°-60°	1512.6	98.6
0°-90°	1533.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2873	
5°	2861	268
15°	2316	631
25°	970	444
35°	152	109
45°	46	38
55°	25	23
65°	12	12
75°	6	7
85°	2	2
90°	0	



TEST NUMBER: P433802

CATALOG NUMBER: LAMR4B208R459027DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2872.9
2.5°	2865.4
5°	2861.0
7.5°	2808.9
10°	2688.3
12.5°	2524.6
15°	2316.2
17.5°	2046.7
20°	1723.7
22.5°	1353.1
25°	970.5
27.5°	626.7
30°	379.6
32.5°	230.7
35°	151.8
37.5°	107.2
40°	77.4
42.5°	59.5
45°	46.1
47.5°	38.7
50°	32.7
52.5°	28.3
55°	25.3
57.5°	22.3
60°	17.9
62.5°	14.9
65°	11.9
67.5°	10.4
70°	8.9
72.5°	7.4
75°	6.0
77.5°	6.0
80°	4.5
82.5°	3.0
85°	1.5
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)