

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: P433935

Luminaire Tested: **LAMR4B208R709050DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R709050DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1788.6 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

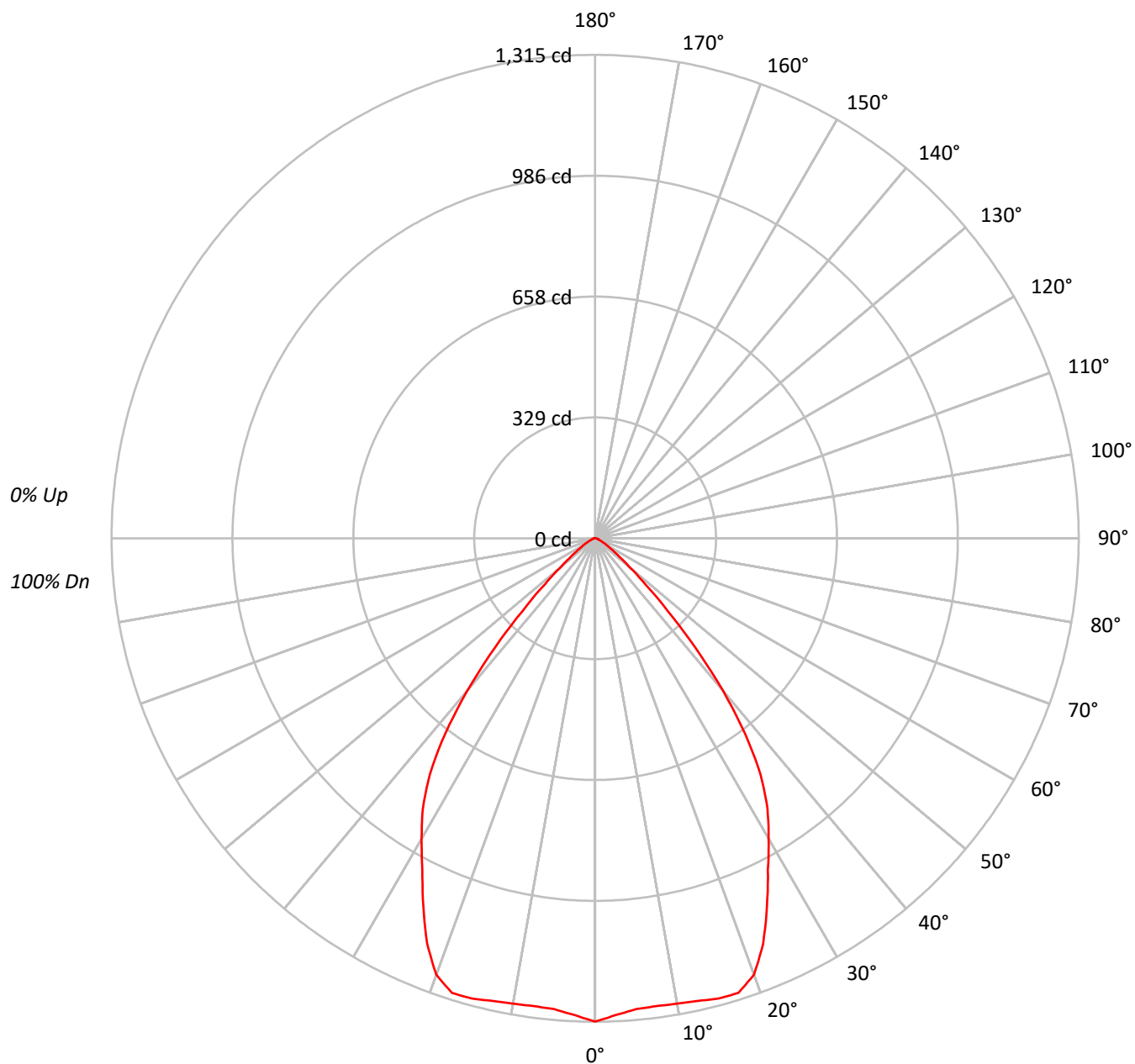
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433935

CATALOG NUMBER: LAMR4B208R709050DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P433935

CATALOG NUMBER: LAMR4B208R709050DE010x1MW

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	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	52	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	648646
5°	636563
10°	643923
15°	662129
20°	663288
25°	601762
30°	537688
35°	472207
40°	347664
45°	194740
50°	95869
55°	53675
60°	32662
65°	21481
70°	15868
75°	13916
80°	10513
85°	10190



TEST NUMBER: P433935

CATALOG NUMBER: LAMR4B208R709050DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	6.9
10°-20°	365.3	20.4
20°-30°	506.9	28.3
30°-40°	476.9	26.7
40°-50°	227.7	12.7
50°-60°	60.2	3.4
60°-70°	19.0	1.1
70°-80°	7.7	0.4
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°	995.1	55.6
0°-40°	1472.0	82.3
0°-60°	1759.8	98.4
0°-90°	1788.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1315	
5°	1285	123
15°	1296	365
25°	1105	507
35°	784	477
45°	279	228
55°	62	60
65°	18	19
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P433935

CATALOG NUMBER: LAMR4B208R709050DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1314.7
2.5°	1298.1
5°	1285.3
7.5°	1283.5
10°	1285.3
12.5°	1289.0
15°	1296.3
17.5°	1296.3
20°	1263.3
22.5°	1193.5
25°	1105.4
27.5°	1017.2
30°	943.8
32.5°	872.2
35°	784.0
37.5°	670.2
40°	539.8
42.5°	402.1
45°	279.1
47.5°	185.4
50°	124.9
52.5°	86.3
55°	62.4
57.5°	44.1
60°	33.1
62.5°	23.9
65°	18.4
67.5°	12.9
70°	11.0
72.5°	9.2
75°	7.3
77.5°	5.5
80°	3.7
82.5°	3.7
85°	1.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)