

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: P433616

Luminaire Tested: **LAMR4B108R709035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433616
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: LAMR4B108R709035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 797.9 lumens
Efficiency: N/A
Efficacy: 70.0 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

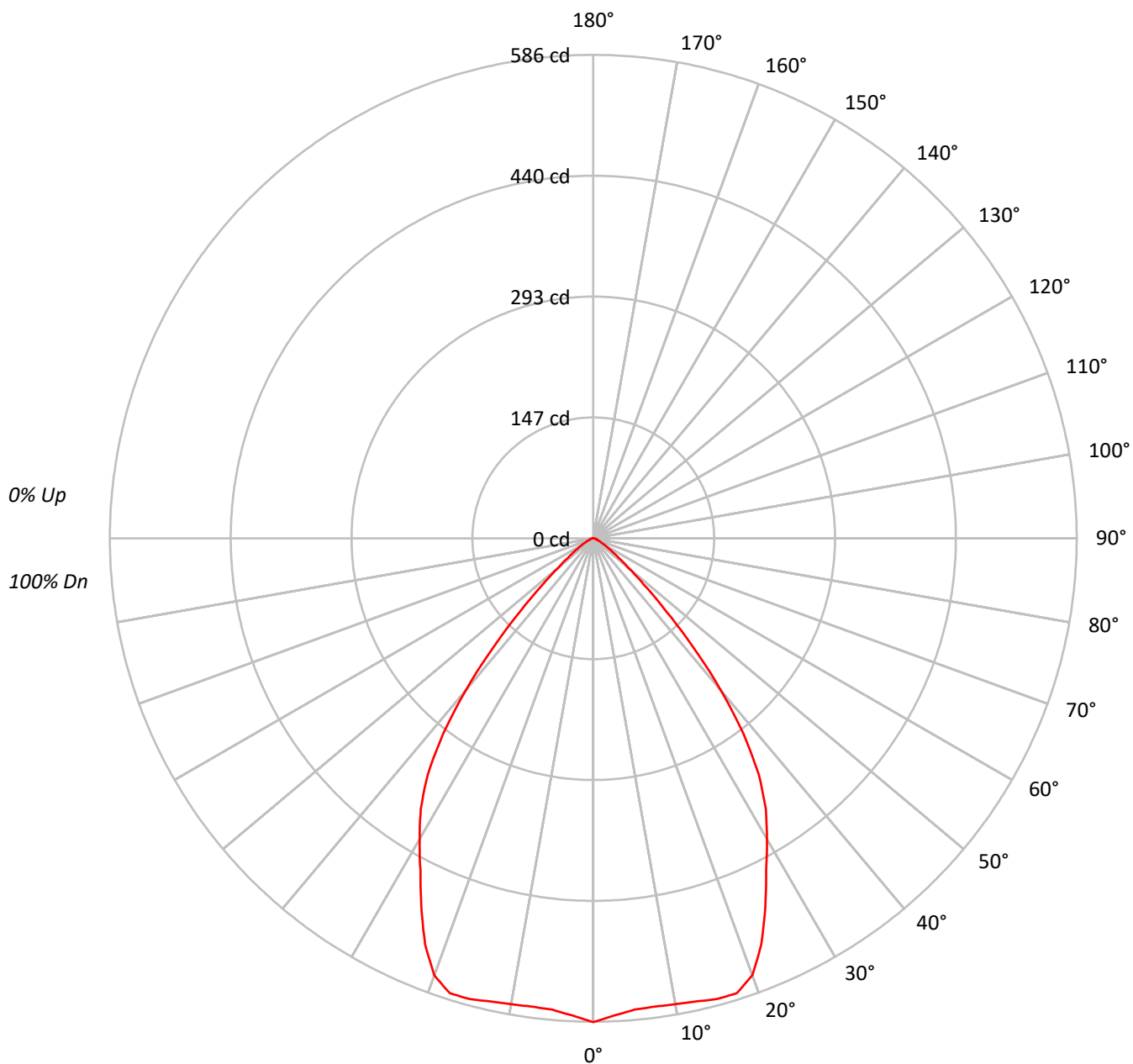
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433616

CATALOG NUMBER: LAMR4B108R709035DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433616

CATALOG NUMBER: LAMR4B108R709035DE010x1MMS

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	289367
5°	283984
10°	287268
15°	295386
20°	295915
25°	268436
30°	239846
35°	210686
40°	155090
45°	86869
50°	42753
55°	23999
60°	14505
65°	9573
70°	7068
75°	6291
80°	4546
85°	4529



TEST NUMBER: P433616

CATALOG NUMBER: LAMR4B108R709035DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	6.9
10°-20°	163.0	20.4
20°-30°	226.1	28.3
30°-40°	212.8	26.7
40°-50°	101.6	12.7
50°-60°	26.9	3.4
60°-70°	8.4	1.1
70°-80°	3.5	0.4
80°-90°	0.9	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°	443.9	55.6
0°-40°	656.7	82.3
0°-60°	785.1	98.4
0°-90°	797.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	586	
5°	573	55
15°	578	163
25°	493	226
35°	350	213
45°	124	102
55°	28	27
65°	8	8
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P433616

CATALOG NUMBER: LAMR4B108R709035DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	586.5
2.5°	579.1
5°	573.4
7.5°	572.6
10°	573.4
12.5°	575.1
15°	578.3
17.5°	578.3
20°	563.6
22.5°	532.5
25°	493.1
27.5°	453.8
30°	421.0
32.5°	389.1
35°	349.8
37.5°	299.0
40°	240.8
42.5°	179.4
45°	124.5
47.5°	82.7
50°	55.7
52.5°	38.5
55°	27.9
57.5°	19.7
60°	14.7
62.5°	10.6
65°	8.2
67.5°	5.7
70°	4.9
72.5°	4.1
75°	3.3
77.5°	2.5
80°	1.6
82.5°	1.6
85°	0.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)