

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: P433355

Luminaire Tested: **LAMR4B108R159040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-6)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R159040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 15 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 869.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

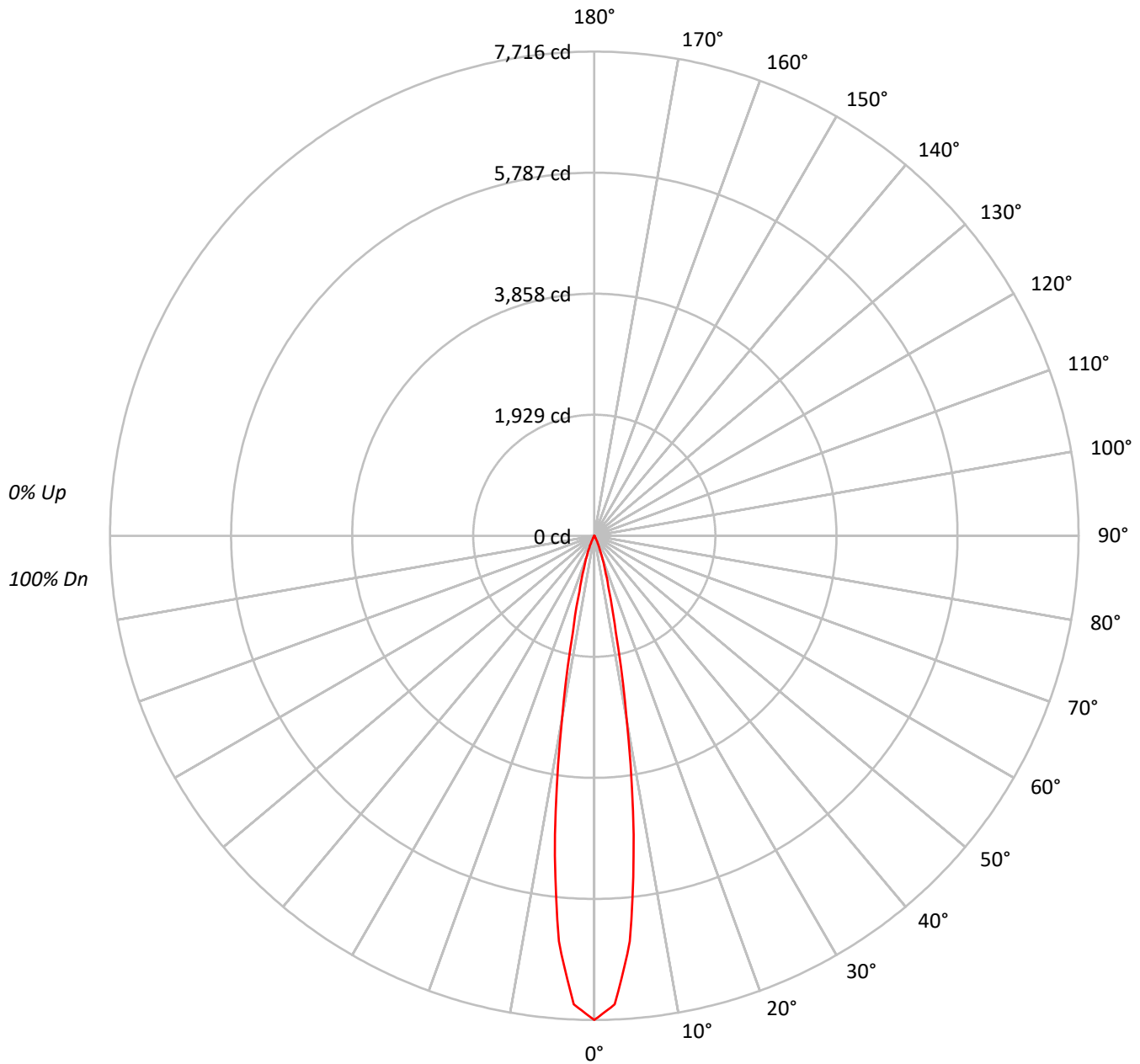
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433355

CATALOG NUMBER: LAMR4B108R159040DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433355

CATALOG NUMBER: LAMR4B108R159040DE010x1MMS

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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98		
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96		
3	110	106	103	101	108	105	102	100	103	100	98	100	99	97	98	97	96	94		
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93		
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91		
6	103	98	95	92	102	98	94	92	96	94	92	95	93	91	94	92	91	90		
7	101	96	93	90	100	96	92	90	95	92	90	94	91	89	93	91	89	88		
8	99	94	91	89	99	94	91	89	93	90	88	92	90	88	91	89	88	87		
9	98	92	89	87	97	92	89	87	91	89	87	91	88	87	90	88	86	86		
10	96	91	88	86	95	91	88	86	90	87	85	89	87	85	89	87	85	84		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1243061
5°	1049089
10°	481966
15°	150292
20°	61239
25°	20087
30°	6232
35°	1318
40°	336
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P433355

CATALOG NUMBER: LAMR4B108R159040DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	57.6
10°-20°	298.3	34.3
20°-30°	63.2	7.3
30°-40°	6.6	0.8
40°-50°	0.2	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	862.1	99.2
0°-40°	868.8	100.0
0°-60°	869.0	100.0
0°-90°	869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	869.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7716	
5°	6487	501
15°	901	298
25°	113	63
35°	7	7
45°	0	0
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P433355

CATALOG NUMBER: LAMR4B108R159040DE010x1MMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	7715.9
2.5°	7472.1
5°	6487.1
7.5°	4802.3
10°	2946.2
12.5°	1572.2
15°	901.1
17.5°	565.9
20°	357.2
22.5°	210.7
25°	113.0
27.5°	63.8
30°	33.5
32.5°	16.9
35°	6.7
37.5°	3.5
40°	1.6
42.5°	0.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)