

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: P433598

Luminaire Tested: **LAMR4B108R659050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R659050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 884.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

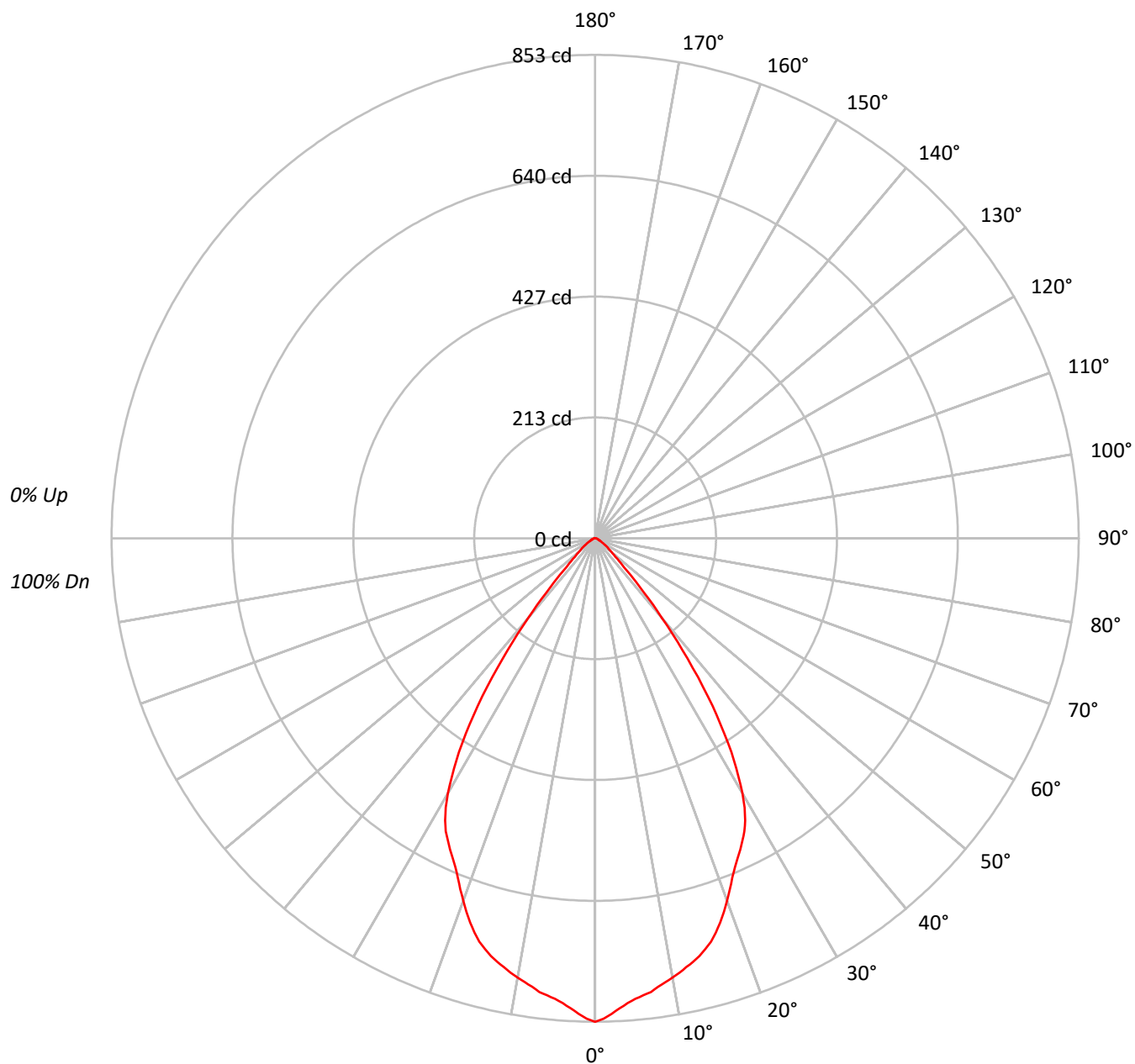
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433598

CATALOG NUMBER: LAMR4B108R659050DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433598

CATALOG NUMBER: LAMR4B108R659050DE010x1MMS

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	105	111	108	106	103		104	102	100			100	99	97			97
2	107	102	98	94	105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			86
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71	89	81	75	70		79	74	70			77	73	69			75
6	85	76	70	65	84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60	80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56	75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52	72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49	68	58	53	49		58	52	48			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	421001
5°	403987
10°	394430
15°	383395
20°	357082
25°	329788
30°	296076
35°	217492
40°	117477
45°	50517
50°	28170
55°	19698
60°	12631
65°	9573
70°	7934
75°	7053
80°	7671
85°	5095



TEST NUMBER: P433598

CATALOG NUMBER: LAMR4B108R659050DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	8.7
10°-20°	209.5	23.7
20°-30°	277.7	31.4
30°-40°	219.9	24.9
40°-50°	65.5	7.4
50°-60°	21.0	2.4
60°-70°	8.4	0.9
70°-80°	4.0	0.5
80°-90°	1.1	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°	564.2	63.8
0°-40°	784.1	88.7
0°-60°	870.5	98.5
0°-90°	884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	884.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	853	
5°	816	77
15°	751	209
25°	606	278
35°	361	220
45°	72	66
55°	23	21
65°	8	8
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P433598

CATALOG NUMBER: LAMR4B108R659050DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	853.3
1°	847.8
2°	839.5
3°	830.4
4°	822.1
5°	815.7
6°	811.1
7°	806.6
8°	799.2
9°	792.8
10°	787.3
11°	780.9
12°	773.6
13°	767.1
14°	759.8
15°	750.6
16°	740.6
17°	727.7
18°	713.1
19°	697.5
20°	680.1
21°	663.6
22°	646.2
23°	630.6
24°	617.7
25°	605.8
26°	593.0
27°	580.2
28°	563.7
29°	543.5
30°	519.7
32.5°	447.3
35°	361.1
37.5°	267.6
40°	182.4
42.5°	115.5
45°	72.4
47.5°	48.6
50°	36.7
52.5°	29.3
55°	22.9
57.5°	17.4
60°	12.8



TEST NUMBER: P433598

CATALOG NUMBER: LAMR4B108R659050DE010x1MMS

CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.4
70°	5.5
72.5°	4.6
75°	3.7
77.5°	2.7
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°	10.1
65°	8.2



(END OF REPORT)