

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: P433475

Luminaire Tested: **LAMR4B108R409040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-7)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R409040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 40 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 938.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.6
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

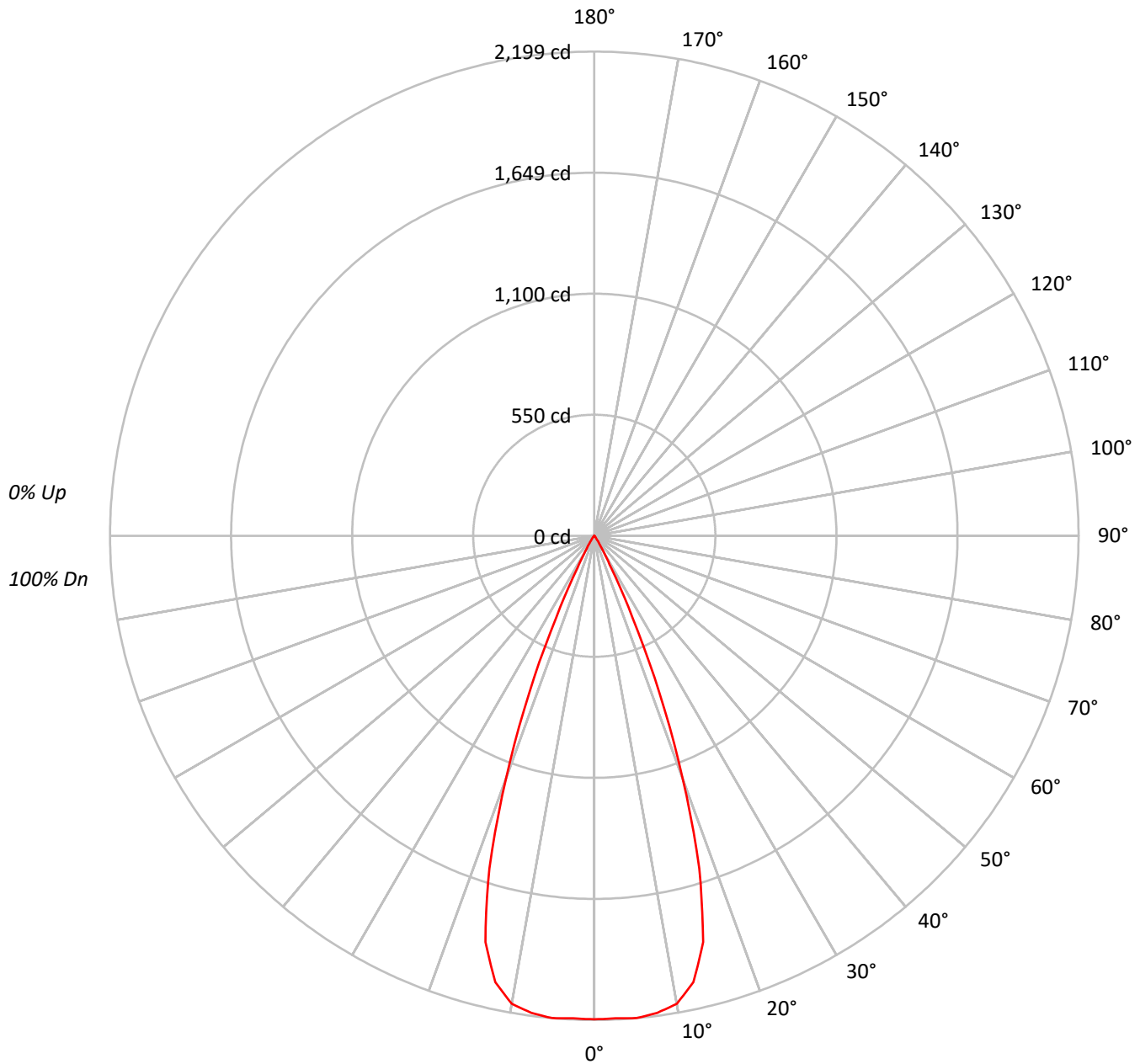
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433475

CATALOG NUMBER: LAMR4B108R409040DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P433475

CATALOG NUMBER: LAMR4B108R409040DE010x1MMS

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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	85	82	95	89	85	82	88	84	82		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	83	79	76	90	83	79	76	82	78	75		81	78	75		80
9	88	81	76	73	87	80	76	73	79	75	73		79	75	73		78
10	85	78	73	71	84	77	73	70	77	73	70		76	73	70		75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	353800
5°	355588
10°	353074
15°	318530
20°	200966
25°	72383
30°	15161
35°	4622
40°	925
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P433475

CATALOG NUMBER: LAMR4B108R409040DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	22.2
10°-20°	498.6	53.1
20°-30°	212.6	22.7
30°-40°	18.2	1.9
40°-50°	0.5	0.1
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°	919.7	98.0
0°-40°	937.9	99.9
0°-60°	938.5	100.0
0°-90°	938.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2196	
5°	2199	209
15°	1910	499
25°	407	213
35°	24	18
45°	0	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P433475

CATALOG NUMBER: LAMR4B108R409040DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2196.1
2.5°	2194.1
5°	2198.8
7.5°	2185.7
10°	2158.3
12.5°	2076.4
15°	1909.8
17.5°	1584.5
20°	1172.2
22.5°	771.8
25°	407.2
27.5°	165.0
30°	81.5
32.5°	43.3
35°	23.5
37.5°	11.9
40°	4.4
42.5°	0.8
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)