

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: P431839

Luminaire Tested: **LAMR4B412R259035DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-5)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B412R259035DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 25 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6057.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.41
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

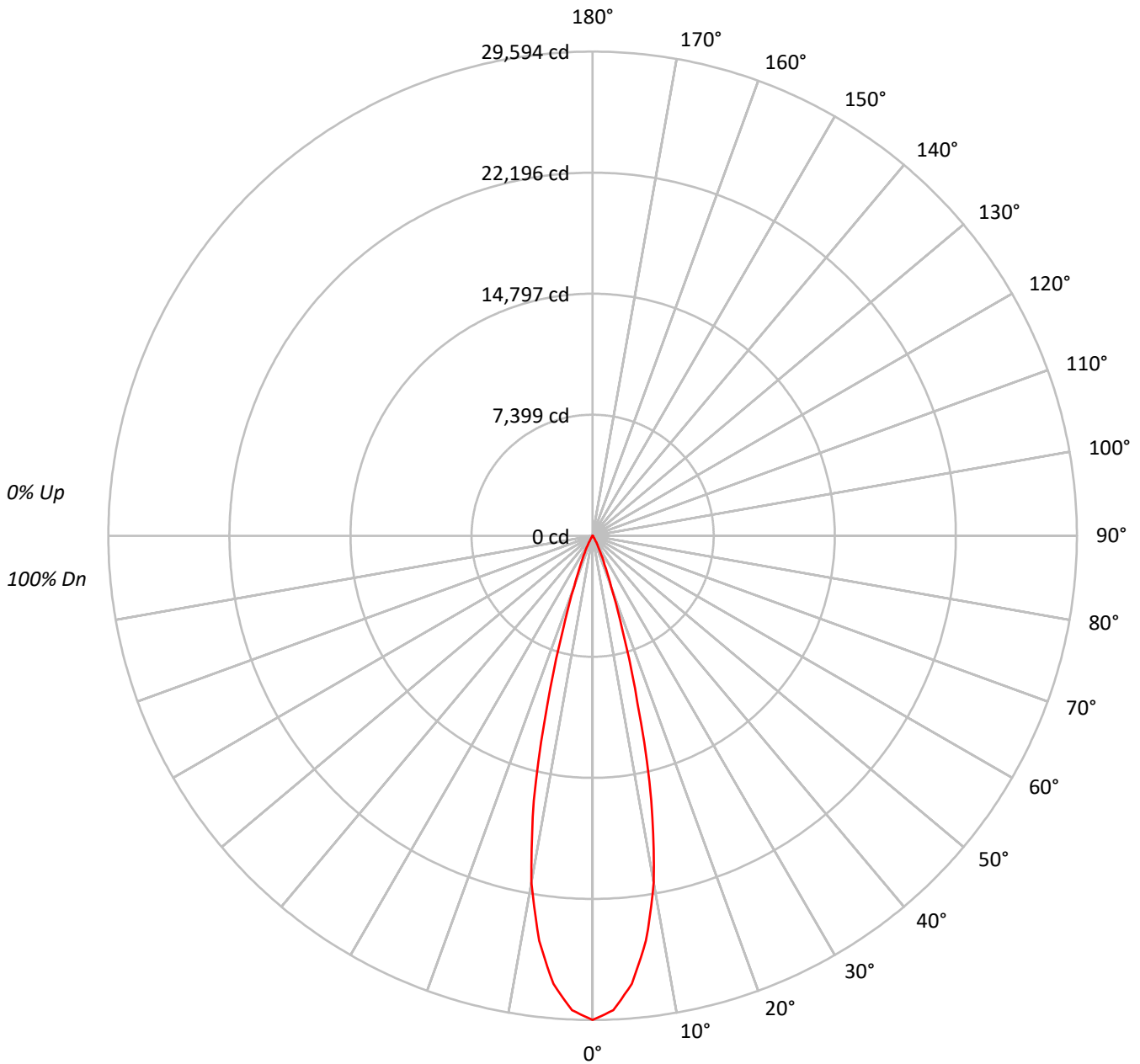
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431839

CATALOG NUMBER: LAMR4B412R259035DE01021MB

Luminous Intensity Polar Plot





TEST NUMBER: P431839

CATALOG NUMBER: LAMR4B412R259035DE01021MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																											
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95																											
3	109	104	101	99	107	103	100	98	101	98	96	99	96	95	96	95	93	92																											
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90																											
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88																											
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	85																											
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	83																											
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81																											
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80																											
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4767674
5°	4445709
10°	3520306
15°	1771677
20°	568522
25°	198805
30°	66598
35°	13354
40°	4395
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P431839

CATALOG NUMBER: LAMR4B412R259035DE01021MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2433.8	40.2
10°-20°	2952.0	48.7
20°-30°	600.7	9.9
30°-40°	68.0	1.1
40°-50°	3.3	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°	5986.5	98.8
0°-40°	6054.5	99.9
0°-60°	6057.9	100.0
0°-90°	6057.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6057.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29594	
5°	27490	###
15°	10622	2952
25°	1118	601
35°	68	68
45°	0	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P431839

CATALOG NUMBER: LAMR4B412R259035DE01021MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	29593.8
2.5°	29021.6
5°	27490.3
7.5°	24963.4
10°	21519.2
12.5°	16585.6
15°	10622.4
17.5°	5984.1
20°	3316.1
22.5°	1889.3
25°	1118.4
27.5°	669.0
30°	358.0
32.5°	156.8
35°	67.9
37.5°	41.8
40°	20.9
42.5°	7.8
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)