

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: P431837

Luminaire Tested: **LAMR4B412R259030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431837
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: LAMR4B412R259030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 25 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5606.2 lumens
Efficiency: N/A
Efficacy: 103.6 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

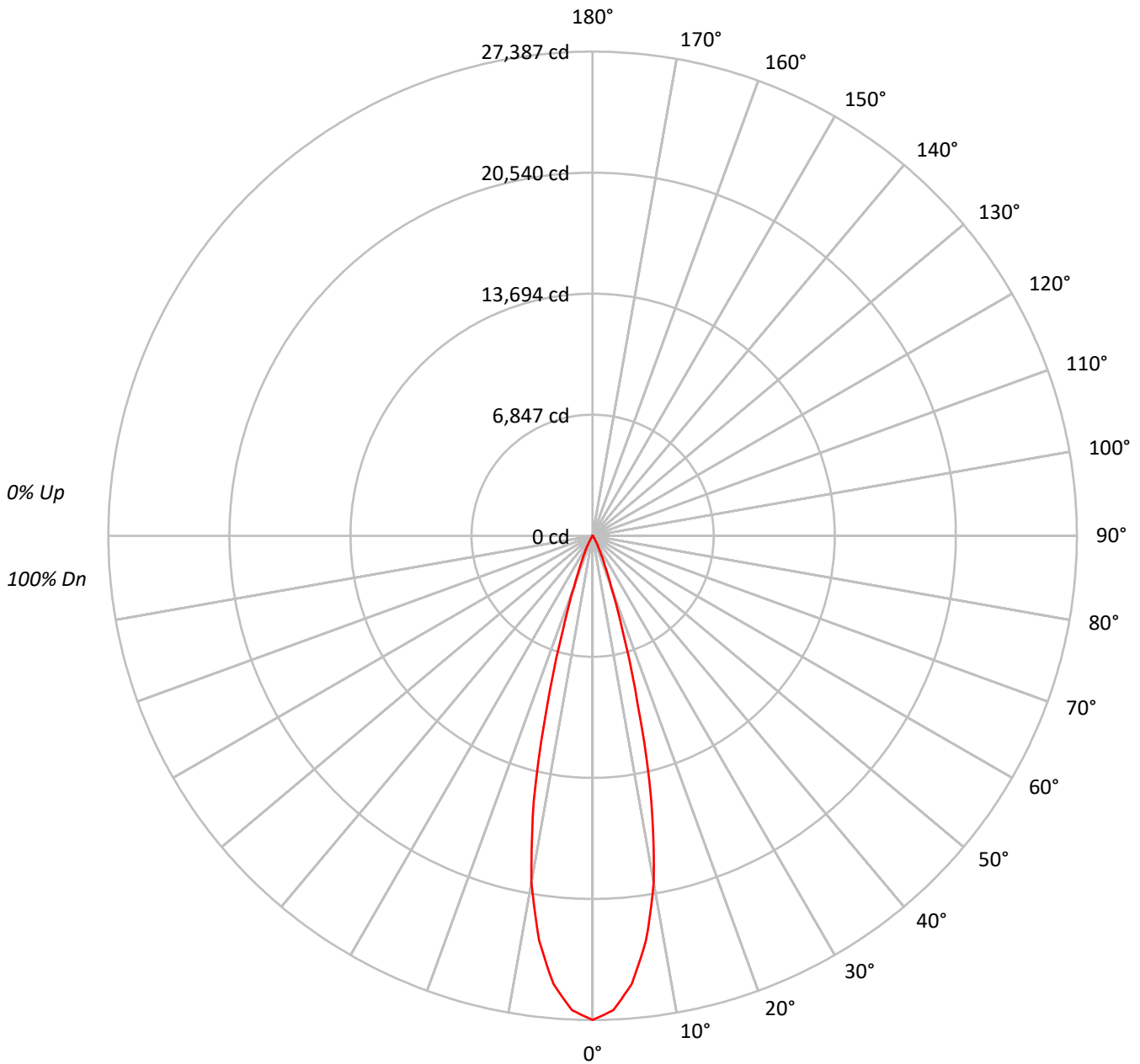
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431837

CATALOG NUMBER: LAMR4B412R259030DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431837

CATALOG NUMBER: LAMR4B412R259030DE01021MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4412166
5°	4114201
10°	3257811
15°	1639566
20°	526125
25°	183980
30°	61631
35°	12371
40°	4059
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P431837

CATALOG NUMBER: LAMR4B412R259030DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2252.3	40.2
10°-20°	2731.9	48.7
20°-30°	555.9	9.9
30°-40°	62.9	1.1
40°-50°	3.1	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°	5540.1	98.8
0°-40°	5603.1	99.9
0°-60°	5606.2	100.0
0°-90°	5606.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5606.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27387	
5°	25440	###
15°	9830	2732
25°	1035	556
35°	63	63
45°	0	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P431837

CATALOG NUMBER: LAMR4B412R259030DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	27387.1
2.5°	26857.5
5°	25440.4
7.5°	23101.9
10°	19914.6
12.5°	15348.9
15°	9830.3
17.5°	5537.9
20°	3068.8
22.5°	1748.4
25°	1035.0
27.5°	619.1
30°	331.3
32.5°	145.1
35°	62.9
37.5°	38.7
40°	19.3
42.5°	7.3
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)