

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: P431927

Luminaire Tested: **LAMR4B412R459024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B412R459024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4870.3 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

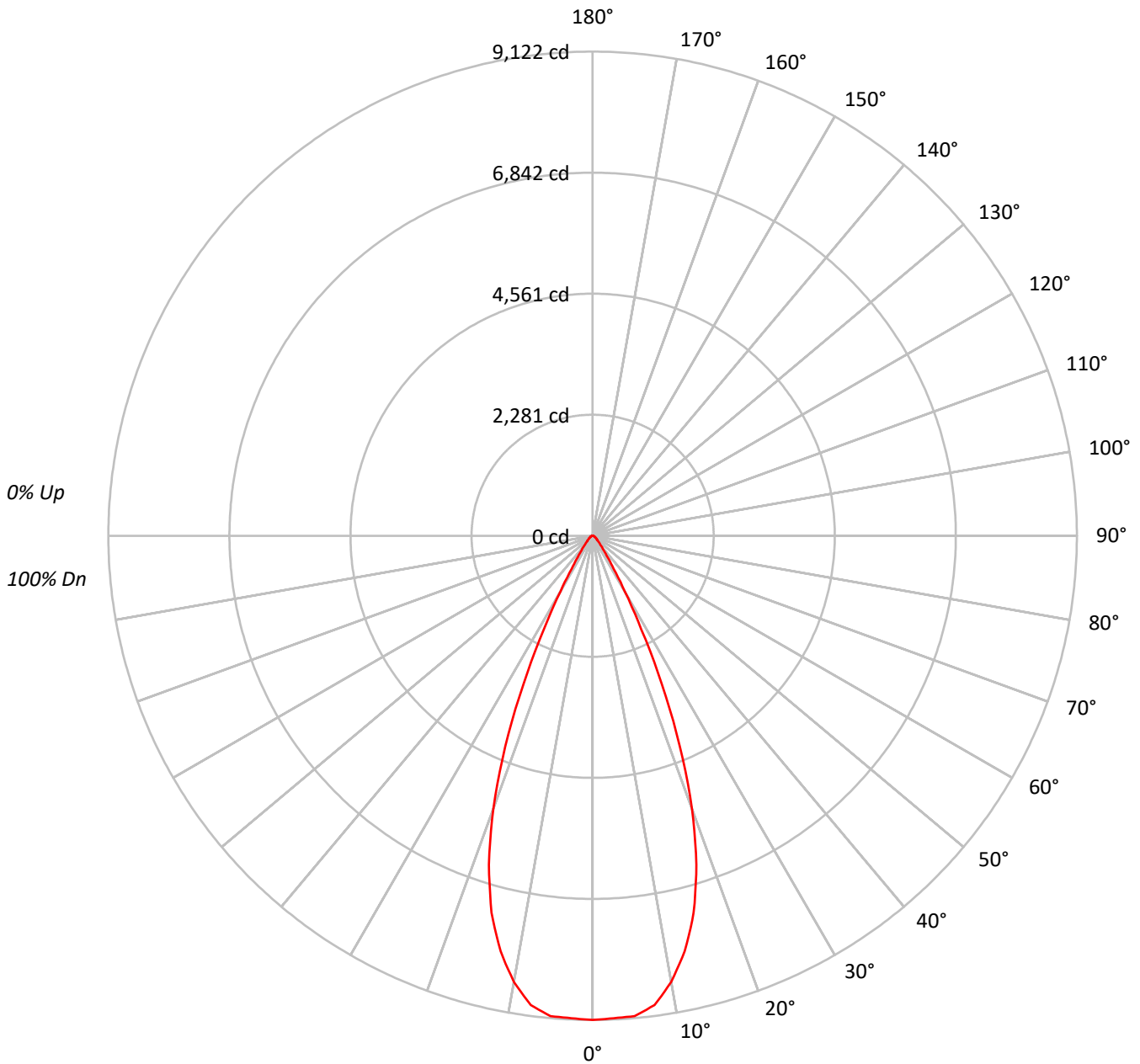
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431927

CATALOG NUMBER: LAMR4B412R459024DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431927

CATALOG NUMBER: LAMR4B412R459024DE01021MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	89	89	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	80	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63	63	63	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4500510
5°	4498980
10°	4276307
15°	3756357
20°	2873616
25°	1677574
30°	686609
35°	290371
40°	158310
45°	102220
50°	79826
55°	69073
60°	55949
65°	44129
70°	40968
75°	36029
80°	40346
85°	26606



TEST NUMBER: P431927

CATALOG NUMBER: LAMR4B412R459024DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.0	17.5
10°-20°	2002.1	41.1
20°-30°	1410.7	29.0
30°-40°	347.2	7.1
40°-50°	121.2	2.5
50°-60°	71.7	1.5
60°-70°	39.7	0.8
70°-80°	21.8	0.4
80°-90°	5.8	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°	4262.9	87.5
0°-40°	4610.1	94.7
0°-60°	4803.0	98.6
0°-90°	4870.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4870.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9122	
5°	9084	850
15°	7354	2002
25°	3082	1411
35°	482	347
45°	146	121
55°	80	72
65°	38	40
75°	19	22
85°	5	6
90°	0	



TEST NUMBER: P431927

CATALOG NUMBER: LAMR4B412R459024DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	9121.8
2.5°	9098.1
5°	9084.0
7.5°	8918.5
10°	8535.7
12.5°	8015.8
15°	7354.1
17.5°	6498.7
20°	5473.1
22.5°	4296.2
25°	3081.6
27.5°	1989.8
30°	1205.2
32.5°	732.6
35°	482.1
37.5°	340.3
40°	245.8
42.5°	189.1
45°	146.5
47.5°	122.9
50°	104.0
52.5°	89.8
55°	80.3
57.5°	70.9
60°	56.7
62.5°	47.3
65°	37.8
67.5°	33.1
70°	28.4
72.5°	23.6
75°	18.9
77.5°	18.9
80°	14.2
82.5°	9.5
85°	4.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)