

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: P431948

Luminaire Tested: **LAMR4B412R459730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431948
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: LAMR4B412R459730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5282.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

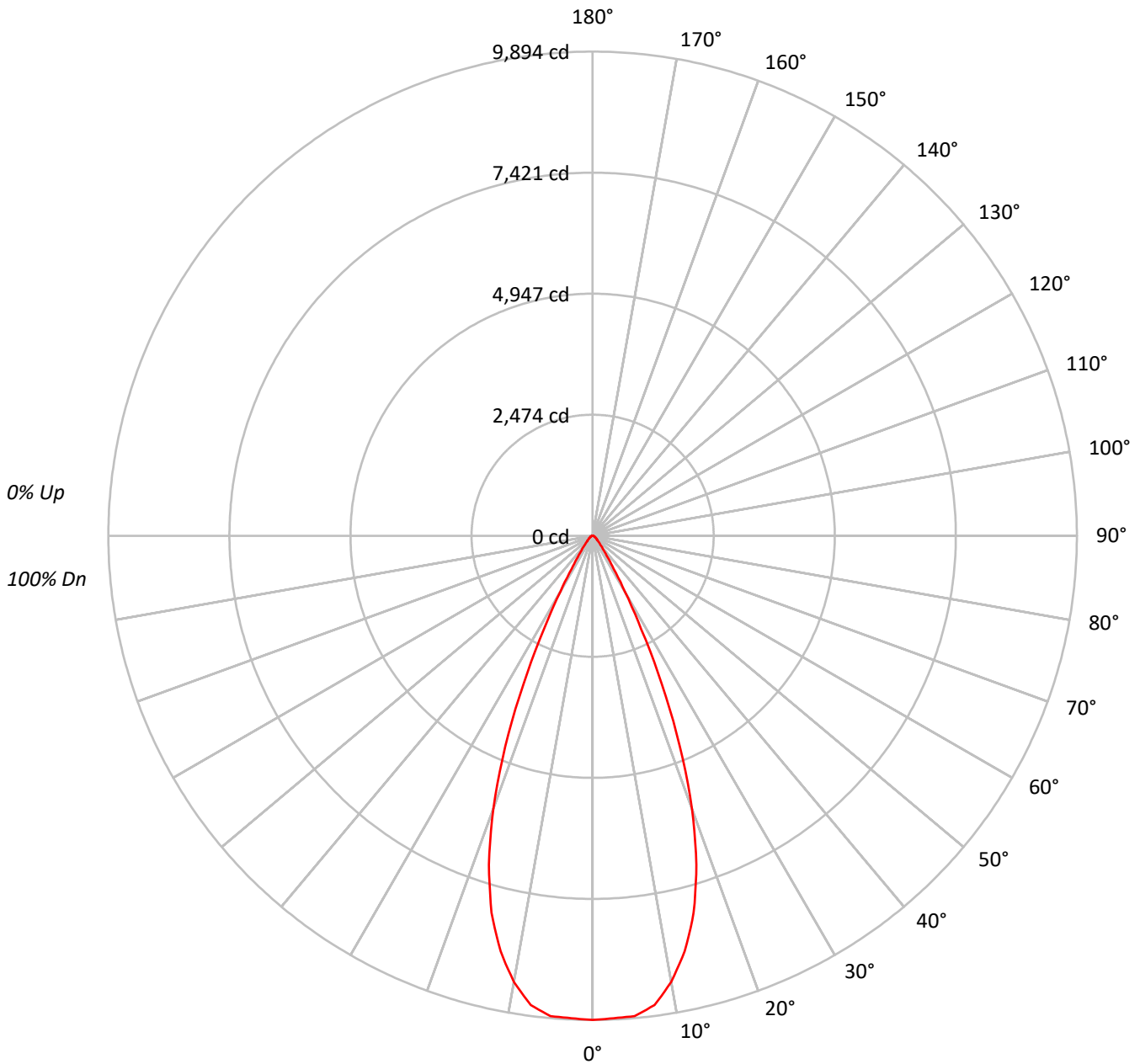
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431948

CATALOG NUMBER: LAMR4B412R459730DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431948

CATALOG NUMBER: LAMR4B412R459730DE01021MMS

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°	4881300
5°	4879640
10°	4638172
15°	4074218
20°	3116764
25°	1819495
30°	744719
35°	314945
40°	171707
45°	110872
50°	86581
55°	74922
60°	60686
65°	47865
70°	44430
75°	39079
80°	43755
85°	28871



TEST NUMBER: P431948

CATALOG NUMBER: LAMR4B412R459730DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.0	17.5
10°-20°	2171.5	41.1
20°-30°	1530.0	29.0
30°-40°	376.6	7.1
40°-50°	131.4	2.5
50°-60°	77.8	1.5
60°-70°	43.1	0.8
70°-80°	23.7	0.4
80°-90°	6.3	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°	4623.5	87.5
0°-40°	5000.2	94.7
0°-60°	5209.3	98.6
0°-90°	5282.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5282.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9894	
5°	9853	922
15°	7976	2172
25°	3342	1530
35°	523	377
45°	159	131
55°	87	78
65°	41	43
75°	20	24
85°	5	6
90°	0	



TEST NUMBER: P431948

CATALOG NUMBER: LAMR4B412R459730DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	9893.6
2.5°	9868.0
5°	9852.6
7.5°	9673.2
10°	9258.0
12.5°	8694.1
15°	7976.4
17.5°	7048.6
20°	5936.2
22.5°	4659.7
25°	3342.3
27.5°	2158.1
30°	1307.2
32.5°	794.6
35°	522.9
37.5°	369.1
40°	266.6
42.5°	205.0
45°	158.9
47.5°	133.3
50°	112.8
52.5°	97.4
55°	87.1
57.5°	76.9
60°	61.5
62.5°	51.3
65°	41.0
67.5°	35.9
70°	30.8
72.5°	25.6
75°	20.5
77.5°	20.5
80°	15.4
82.5°	10.3
85°	5.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)