

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: P431225

Luminaire Tested: **LAMR4B212R159727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-6)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R159727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 15 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2076.8 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

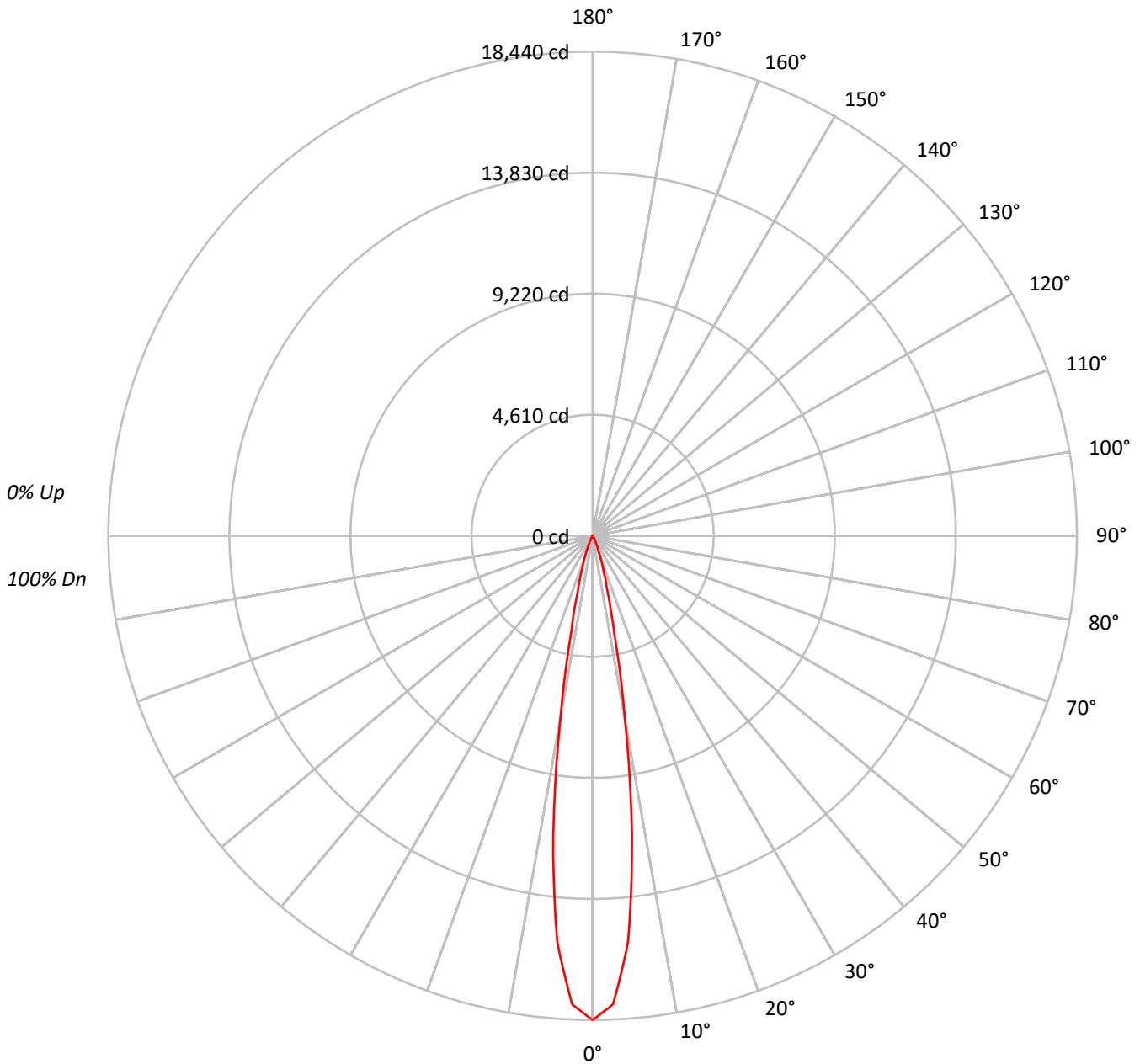
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431225

CATALOG NUMBER: LAMR4B212R159727DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431225

CATALOG NUMBER: LAMR4B212R159727DE010x1MMS

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																
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100	100	100																
	1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98	98	98	98	98	98	98	98	98															
	2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96	96	96	96	96	96	96	96	96															
	3	110	106	103	101	108	105	102	100	103	100	98	100	99	97	98	97	96	94	94	94	94	94	94	94	94	94	94	94	94															
	4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	92	92	92	92	92	92	92	92	92	92	92	92															
	5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	90	90	90	90	90	90	90	90	90	90	90	90															
	6	103	98	95	92	102	98	94	92	96	94	92	95	93	91	94	92	91	89	89	89	89	89	89	89	89	89	89	89	89															
	7	101	96	93	90	100	96	92	90	95	92	90	94	91	89	93	91	89	87	87	87	87	87	87	87	87	87	87	87	87															
	8	99	94	91	89	99	94	91	89	93	90	88	92	90	88	91	89	88	86	86	86	86	86	86	86	86	86	86	86	86															
	9	98	92	89	87	97	92	89	87	91	89	87	91	88	87	90	88	86	84	84	84	84	84	84	84	84	84	84	84	84															
	10	96	91	88	86	95	91	88	86	90	87	85	89	87	85	89	87	85	83	83	83	83	83	83	83	83	83	83	83	83															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2970706
5°	2507165
10°	1151831
15°	359159
20°	146361
25°	48013
30°	14882
35°	3147
40°	799
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P431225

CATALOG NUMBER: LAMR4B212R159727DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1196.3	57.6
10°-20°	713.0	34.3
20°-30°	151.1	7.3
30°-40°	15.9	0.8
40°-50°	0.5	0.0
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°	2060.4	99.2
0°-40°	2076.3	100.0
0°-60°	2076.8	100.0
0°-90°	2076.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18440	
5°	15503	###
15°	2153	713
25°	270	151
35°	16	16
45°	0	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P431225

CATALOG NUMBER: LAMR4B212R159727DE010x1MMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	18439.7
2.5°	17857.1
5°	15503.2
7.5°	11476.8
10°	7041.0
12.5°	3757.2
15°	2153.4
17.5°	1352.5
20°	853.7
22.5°	503.5
25°	270.1
27.5°	152.5
30°	80.0
32.5°	40.5
35°	16.0
37.5°	8.5
40°	3.8
42.5°	0.9
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)