

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: P431454

Luminaire Tested: **LAMR4B212R659030DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R659030DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2217.7 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

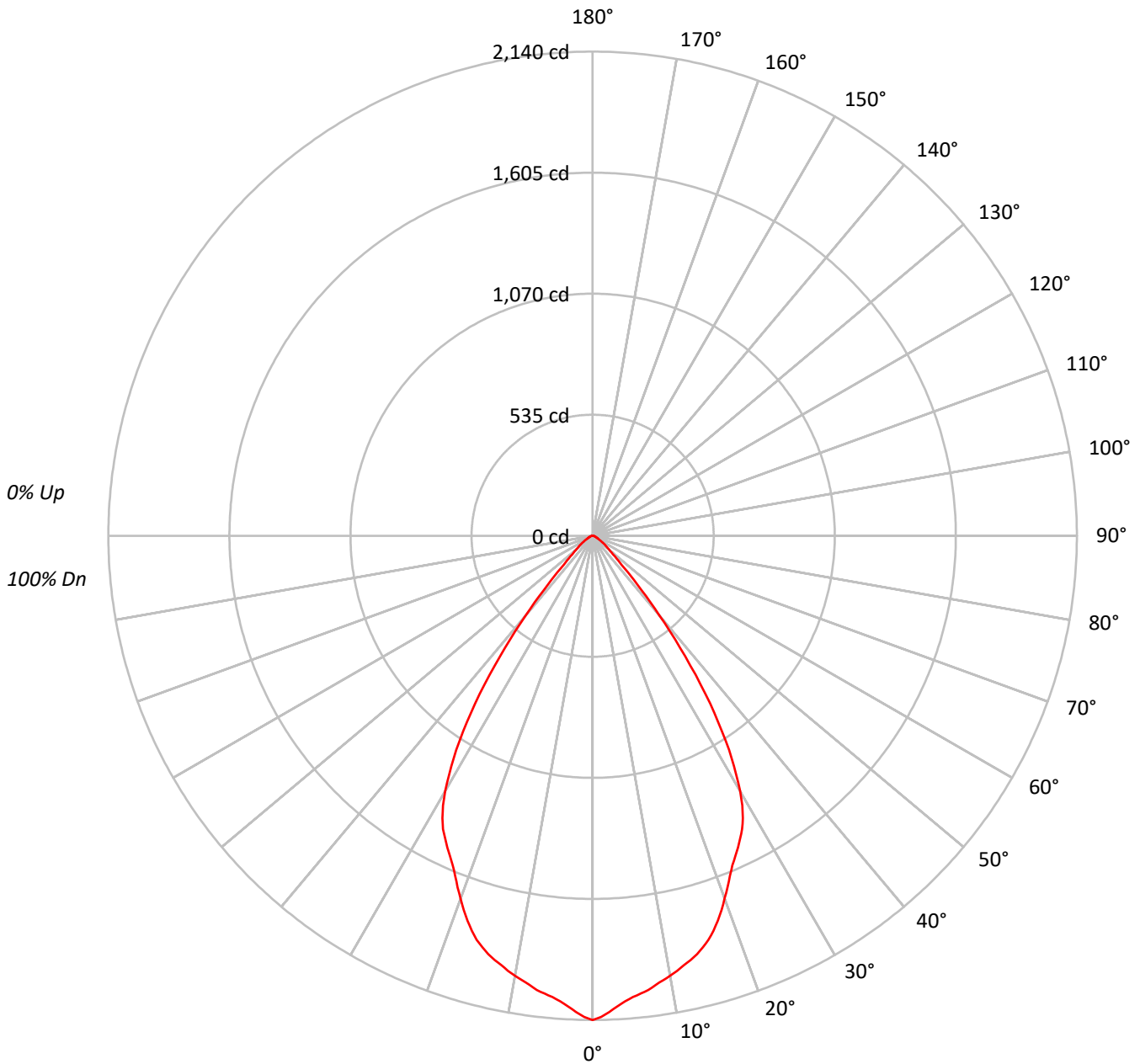
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431454

CATALOG NUMBER: LAMR4B212R659030DE010x1MW

Luminous Intensity Polar Plot





TEST NUMBER: P431454

CATALOG NUMBER: LAMR4B212R659030DE010x1MW

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50																			
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1056079
5°	1013459
10°	989457
15°	961806
20°	895724
25°	827355
30°	742668
35°	545628
40°	294658
45°	126710
50°	70616
55°	49460
60°	31774
65°	24166
70°	19907
75°	17538
80°	19605
85°	13020



TEST NUMBER: P431454

CATALOG NUMBER: LAMR4B212R659030DE010x1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	8.7
10°-20°	525.4	23.7
20°-30°	696.5	31.4
30°-40°	551.6	24.9
40°-50°	164.3	7.4
50°-60°	52.6	2.4
60°-70°	21.0	0.9
70°-80°	10.0	0.5
80°-90°	2.8	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°	1415.3	63.8
0°-40°	1966.9	88.7
0°-60°	2183.8	98.5
0°-90°	2217.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2140	
5°	2046	193
15°	1883	525
25°	1520	697
35°	906	552
45°	182	164
55°	58	53
65°	21	21
75°	9	10
85°	2	3
90°	0	



TEST NUMBER: P431454

CATALOG NUMBER: LAMR4B212R659030DE010x1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2140.5
1°	2126.7
2°	2106.1
3°	2083.1
4°	2062.4
5°	2046.3
6°	2034.8
7°	2023.3
8°	2004.9
9°	1988.8
10°	1975.0
11°	1958.9
12°	1940.5
13°	1924.4
14°	1906.0
15°	1883.0
16°	1857.7
17°	1825.6
18°	1788.8
19°	1749.7
20°	1706.0
21°	1664.6
22°	1620.9
23°	1581.8
24°	1549.6
25°	1519.8
26°	1487.6
27°	1455.4
28°	1414.0
29°	1363.4
30°	1303.6
32.5°	1122.0
35°	905.9
37.5°	671.4
40°	457.5
42.5°	289.7
45°	181.6
47.5°	121.9
50°	92.0
52.5°	73.6
55°	57.5
57.5°	43.7
60°	32.2



TEST NUMBER: P431454

CATALOG NUMBER: LAMR4B212R659030DE010x1MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	16.1
70°	13.8
72.5°	11.5
75°	9.2
77.5°	6.9
80°	6.9
82.5°	4.6
85°	2.3
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°		25.3
65°		20.7



(END OF REPORT)