

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: P431759

Luminaire Tested: **LAMR4B312R709024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R709024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.6 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

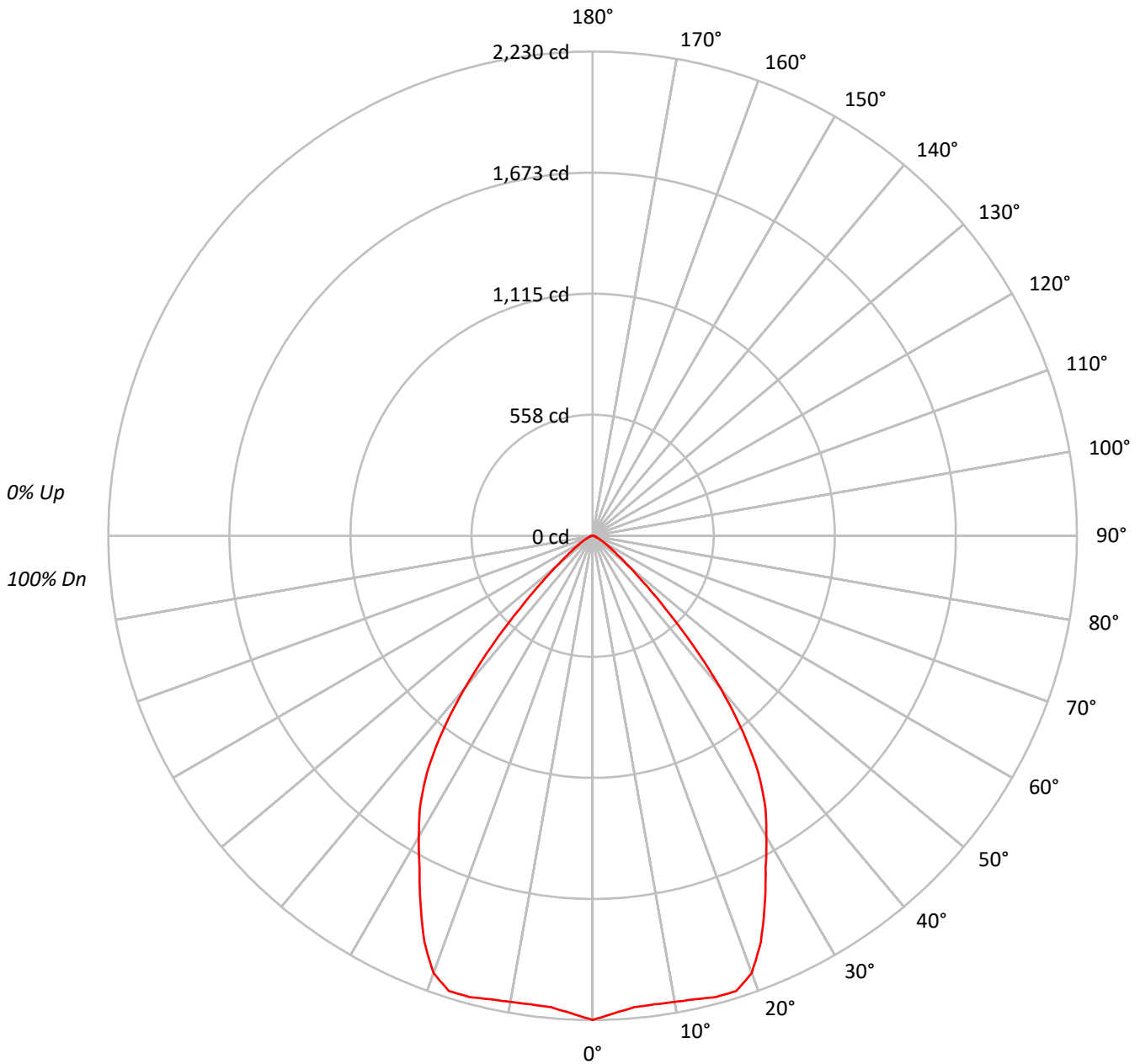
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431759

CATALOG NUMBER: LAMR4B312R709024DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P431759

CATALOG NUMBER: LAMR4B312R709024DE01021MMS

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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1100138
5°	1079676
10°	1092160
15°	1123061
20°	1124958
25°	1020611
30°	911928
35°	800945
40°	589702
45°	330312
50°	162570
55°	91093
60°	55357
65°	36307
70°	26976
75°	23828
80°	17616
85°	17549



TEST NUMBER: P431759

CATALOG NUMBER: LAMR4B312R709024DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	6.9
10°-20°	619.5	20.4
20°-30°	859.8	28.3
30°-40°	808.9	26.7
40°-50°	386.1	12.7
50°-60°	102.1	3.4
60°-70°	32.2	1.1
70°-80°	13.1	0.4
80°-90°	3.4	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°	1687.7	55.6
0°-40°	2496.6	82.3
0°-60°	2984.8	98.4
0°-90°	3033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2230	
5°	2180	208
15°	2199	620
25°	1875	860
35°	1330	809
45°	473	386
55°	106	102
65°	31	32
75°	12	13
85°	3	3
90°	0	



TEST NUMBER: P431759

CATALOG NUMBER: LAMR4B312R709024DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2229.8
2.5°	2201.8
5°	2180.0
7.5°	2176.9
10°	2180.0
12.5°	2186.2
15°	2198.7
17.5°	2198.7
20°	2142.6
22.5°	2024.3
25°	1874.8
27.5°	1725.3
30°	1600.7
32.5°	1479.3
35°	1329.8
37.5°	1136.7
40°	915.6
42.5°	682.0
45°	473.4
47.5°	314.5
50°	211.8
52.5°	146.4
55°	105.9
57.5°	74.7
60°	56.1
62.5°	40.5
65°	31.1
67.5°	21.8
70°	18.7
72.5°	15.6
75°	12.5
77.5°	9.3
80°	6.2
82.5°	6.2
85°	3.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)