

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: P434455

Luminaire Tested: **LAMR4B408R509035DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R509035DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 50 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.74
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

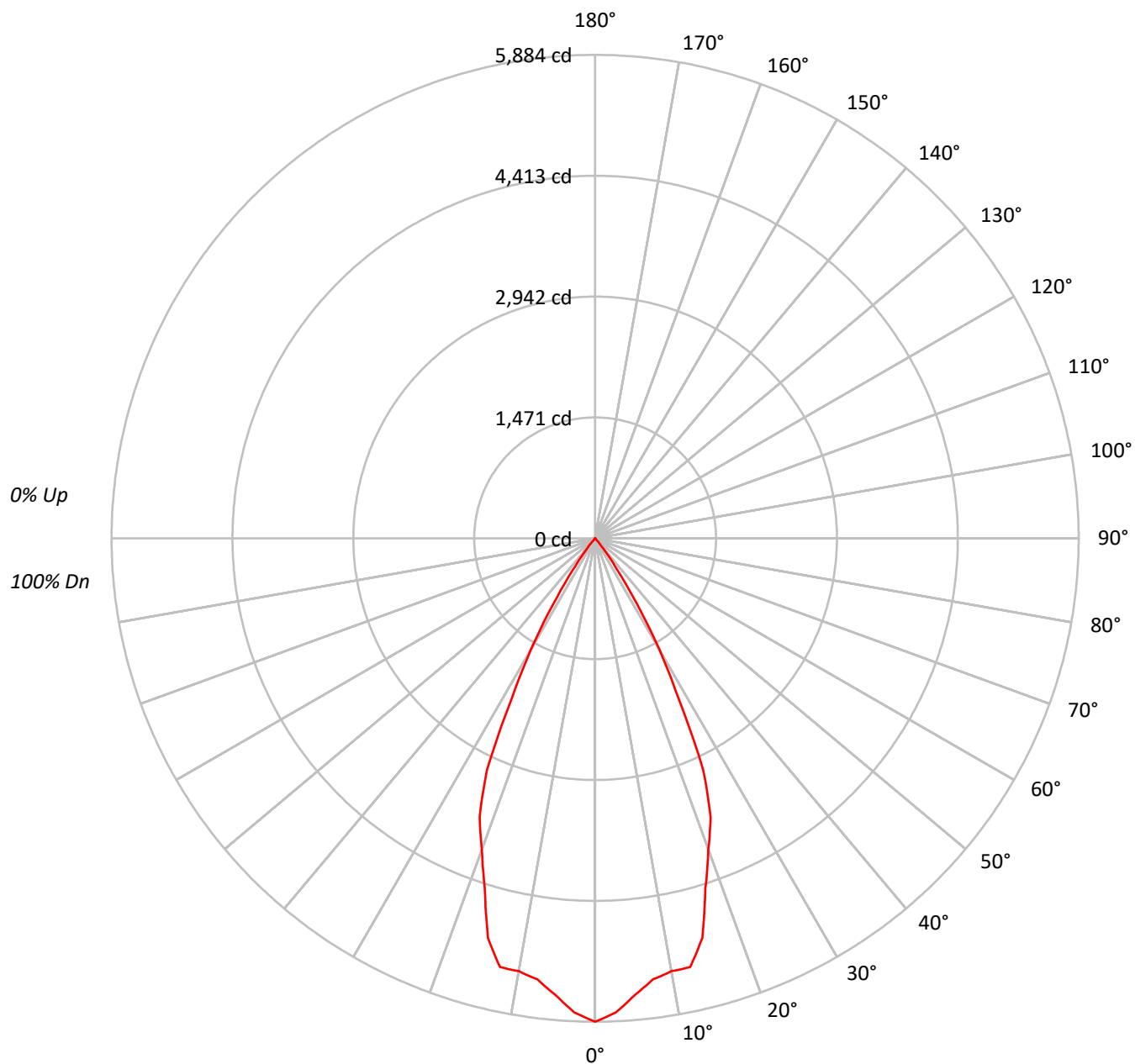
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434455

CATALOG NUMBER: LAMR4B408R509035DE01021MB

Luminous Intensity Polar Plot





TEST NUMBER: P434455

CATALOG NUMBER: LAMR4B408R509035DE01021MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	105	102	99	107	104	100	98	100	98	96		97	95	93		95
3	105	99	95	92	103	98	94	91	95	92	89		93	90	88		91
4	101	94	89	86	99	93	89	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	84	80	87	83	79		85	81	79		84
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	64		71	67	64		70
10	79	70	65	62	78	70	65	62	69	64	61		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	947967
5°	901876
10°	875365
15°	839906
20°	691001
25°	553646
30°	288825
35°	93144
40°	15836
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P434455

CATALOG NUMBER: LAMR4B408R509035DE01021MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.1	14.6
10°-20°	1362.9	38.0
20°-30°	1325.9	37.0
30°-40°	365.0	10.2
40°-50°	8.0	0.2
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°	3213.9	89.6
0°-40°	3578.8	99.8
0°-60°	3586.8	100.0
0°-90°	3586.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3586.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5884	
5°	5577	525
15°	5036	1363
25°	3115	1326
35°	474	365
45°	0	8
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P434455

CATALOG NUMBER: LAMR4B408R509035DE01021MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	5884.2
2.5°	5779.1
5°	5576.8
7.5°	5413.7
10°	5351.0
12.5°	5346.3
15°	5035.8
17.5°	4463.3
20°	4030.5
22.5°	3671.4
25°	3114.6
27.5°	2192.5
30°	1552.6
32.5°	939.4
35°	473.6
37.5°	211.7
40°	75.3
42.5°	6.3
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)