

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: P434468

Luminaire Tested: **LAMR4B408R509730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434468
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: LAMR4B408R509730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 50 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.6 lumens
Efficiency: N/A
Efficacy: 76.8 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

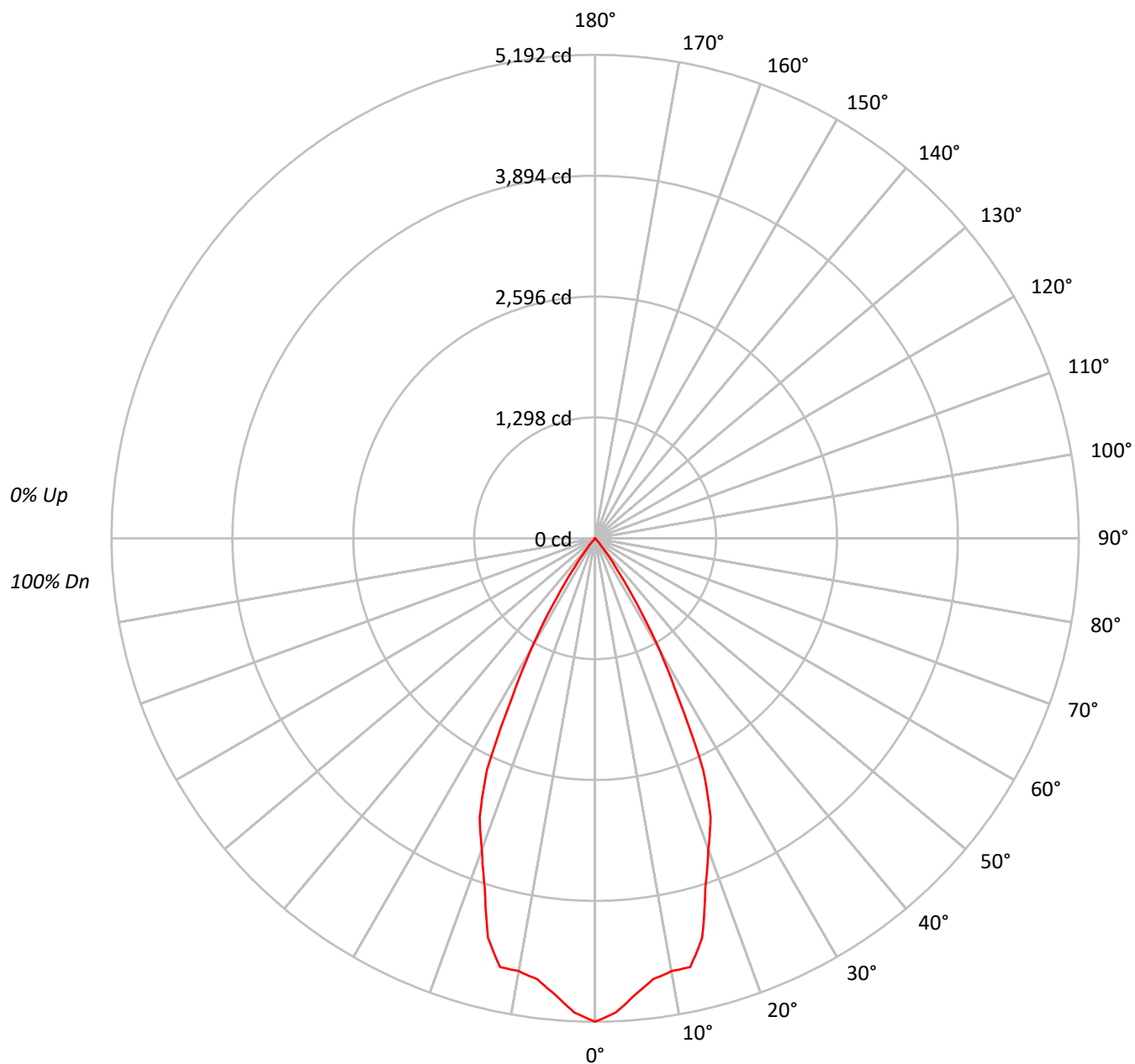
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434468

CATALOG NUMBER: LAMR4B408R509730DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P434468

CATALOG NUMBER: LAMR4B408R509730DE01021MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	836403
5°	795723
10°	772337
15°	741051
20°	609669
25°	488480
30°	254838
35°	82189
40°	13964
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P434468

CATALOG NUMBER: LAMR4B408R509730DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	14.6
10°-20°	1202.4	38.0
20°-30°	1169.8	37.0
30°-40°	322.0	10.2
40°-50°	7.0	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°	2835.6	89.6
0°-40°	3157.6	99.8
0°-60°	3164.6	100.0
0°-90°	3164.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5192	
5°	4920	463
15°	4443	1202
25°	2748	1170
35°	418	322
45°	0	7
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P434468

CATALOG NUMBER: LAMR4B408R509730DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	5191.7
2.5°	5098.9
5°	4920.4
7.5°	4776.5
10°	4721.2
12.5°	4717.0
15°	4443.1
17.5°	3938.0
20°	3556.1
22.5°	3239.2
25°	2748.0
27.5°	1934.4
30°	1369.9
32.5°	828.8
35°	417.9
37.5°	186.8
40°	66.4
42.5°	5.5
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)