

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: P434554

Luminaire Tested: **LAMR4B408R709040DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434554
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: LAMR4B408R709040DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3444.7 lumens
Efficiency: N/A
Efficacy: 83.6 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

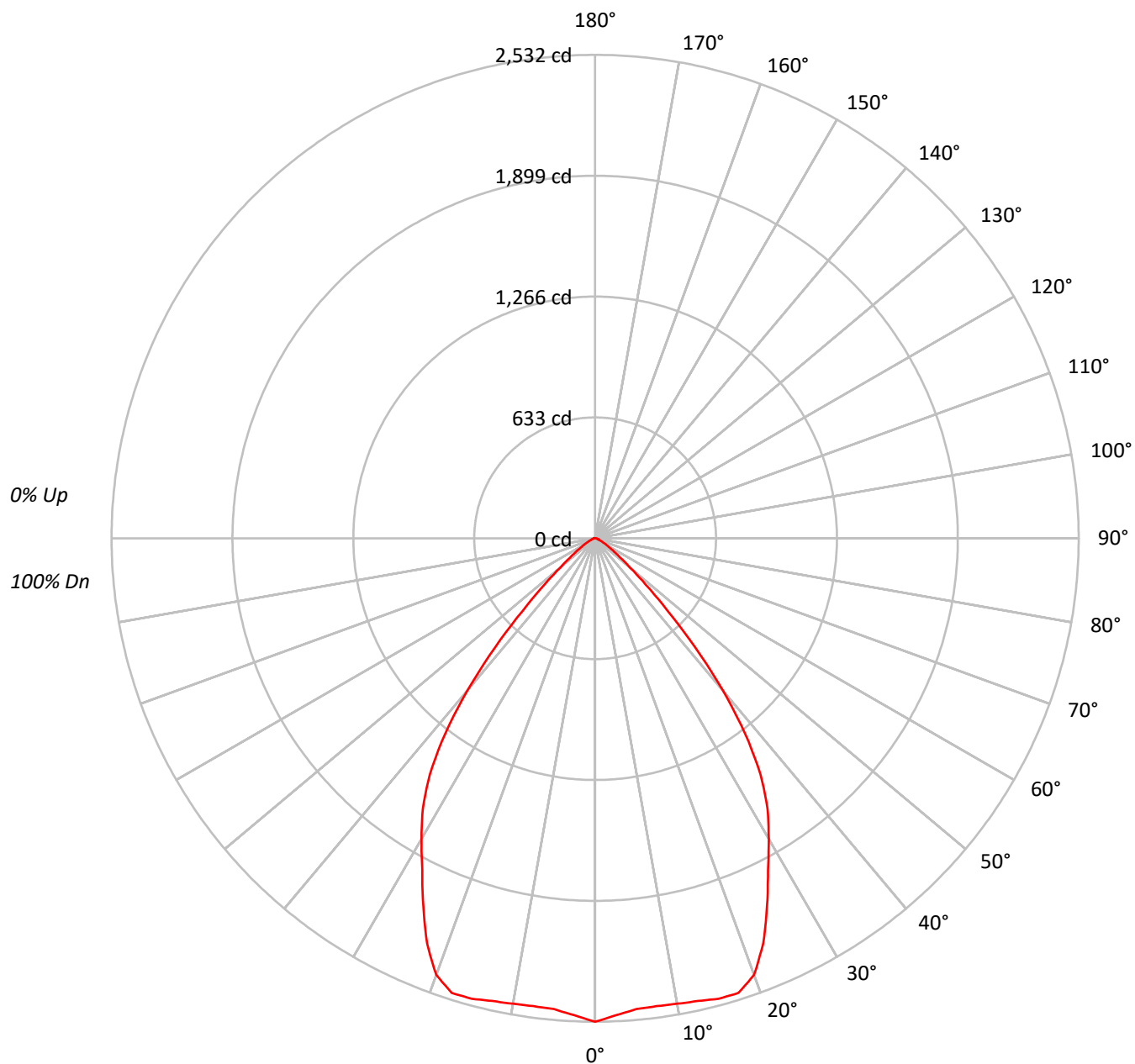
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434554

CATALOG NUMBER: LAMR4B408R709040DE01021MB

Luminous Intensity Polar Plot





TEST NUMBER: P434554

CATALOG NUMBER: LAMR4B408R709040DE01021MB

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1249237
5°	1225977
10°	1240152
15°	1275224
20°	1277378
25°	1158885
30°	1035497
35°	909481
40°	669630
45°	375037
50°	184599
55°	103394
60°	62857
65°	41327
70°	30582
75°	26878
80°	20173
85°	19813



TEST NUMBER: P434554

CATALOG NUMBER: LAMR4B408R709040DE01021MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	6.9
10°-20°	703.5	20.4
20°-30°	976.3	28.3
30°-40°	918.5	26.7
40°-50°	438.5	12.7
50°-60°	115.9	3.4
60°-70°	36.6	1.1
70°-80°	14.9	0.4
80°-90°	3.8	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°	1916.4	55.6
0°-40°	2834.9	82.3
0°-60°	3389.3	98.4
0°-90°	3444.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3444.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2532	
5°	2475	237
15°	2497	703
25°	2129	976
35°	1510	919
45°	538	438
55°	120	116
65°	35	37
75°	14	15
85°	4	4
90°	0	



TEST NUMBER: P434554

CATALOG NUMBER: LAMR4B408R709040DE01021MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	2532.0
2.5°	2500.1
5°	2475.4
7.5°	2471.8
10°	2475.4
12.5°	2482.4
15°	2496.6
17.5°	2496.6
20°	2432.9
22.5°	2298.6
25°	2128.8
27.5°	1959.1
30°	1817.6
32.5°	1679.7
35°	1510.0
37.5°	1290.7
40°	1039.7
42.5°	774.4
45°	537.5
47.5°	357.2
50°	240.5
52.5°	166.2
55°	120.2
57.5°	84.9
60°	63.7
62.5°	46.0
65°	35.4
67.5°	24.8
70°	21.2
72.5°	17.7
75°	14.1
77.5°	10.6
80°	7.1
82.5°	7.1
85°	3.5
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)