

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: P434459

Luminaire Tested: **LAMR4B408R509040DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434459
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: LAMR4B408R509040DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 50 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3814.1 lumens
Efficiency: N/A
Efficacy: 92.6 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

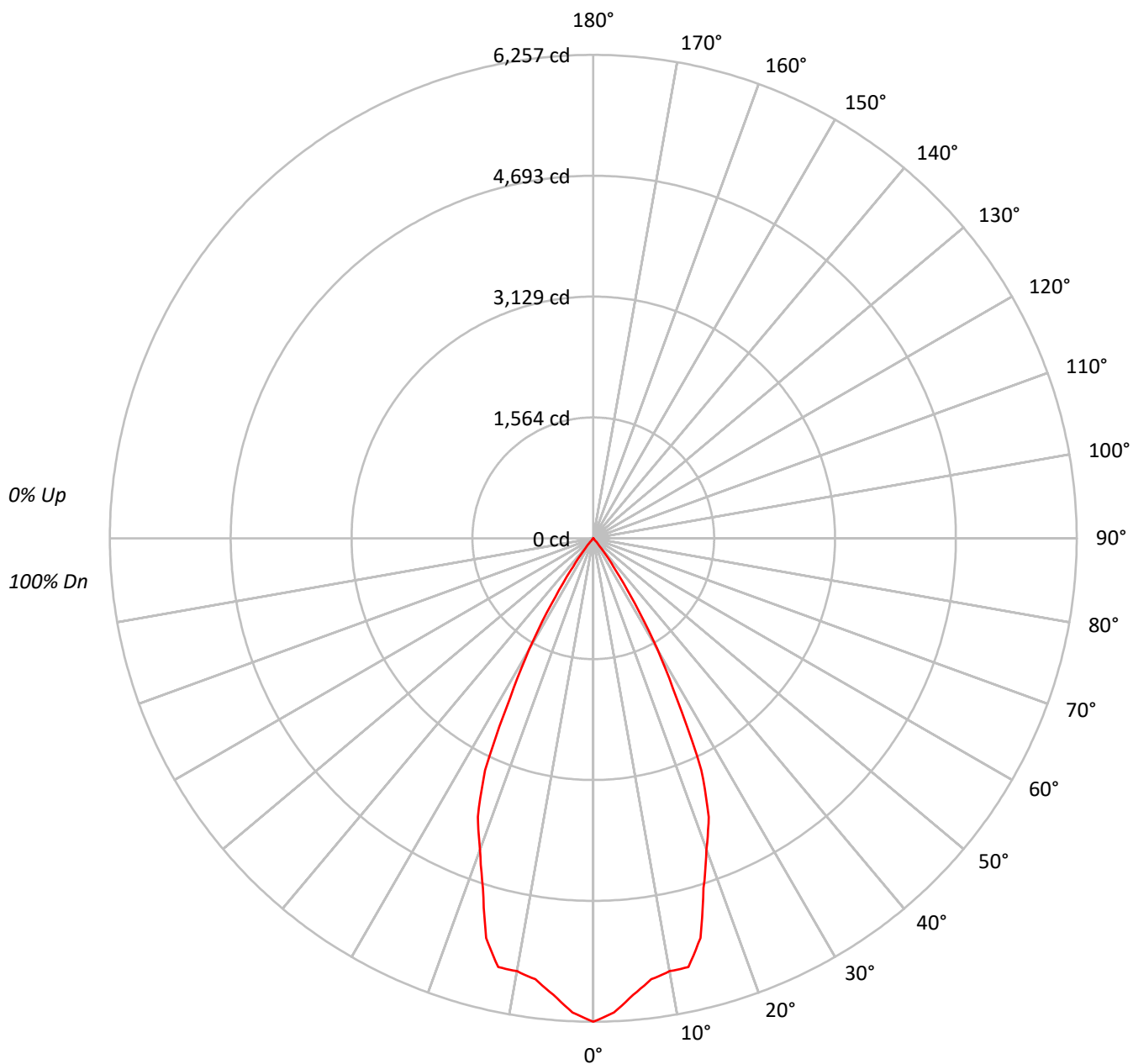
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434459

CATALOG NUMBER: LAMR4B408R509040DE01021MMS

Luminous Intensity Polar Plot





TEST NUMBER: P434459

CATALOG NUMBER: LAMR4B408R509040DE01021MMS

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90		
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	84	80	87	83	79	85	81	79	84	80	78	77		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63		
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	68	64	61	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1008059
5°	959043
10°	930855
15°	893144
20°	734805
25°	588736
30°	307130
35°	99044
40°	16824
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P434459

CATALOG NUMBER: LAMR4B408R509040DE01021MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.4	14.6
10°-20°	1449.3	38.0
20°-30°	1409.9	37.0
30°-40°	388.1	10.2
40°-50°	8.5	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°	3417.6	89.6
0°-40°	3805.6	99.8
0°-60°	3814.1	100.0
0°-90°	3814.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6257	
5°	5930	558
15°	5355	1449
25°	3312	1410
35°	504	388
45°	0	8
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P434459

CATALOG NUMBER: LAMR4B408R509040DE01021MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	6257.2
2.5°	6145.5
5°	5930.3
7.5°	5756.9
10°	5690.2
12.5°	5685.2
15°	5355.0
17.5°	4746.3
20°	4286.0
22.5°	3904.1
25°	3312.0
27.5°	2331.4
30°	1651.0
32.5°	998.9
35°	503.6
37.5°	225.1
40°	80.0
42.5°	6.7
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)