

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: P431845

Luminaire Tested: **LAMR4B412R259050DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-5)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B412R259050DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 25 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5958.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.41
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

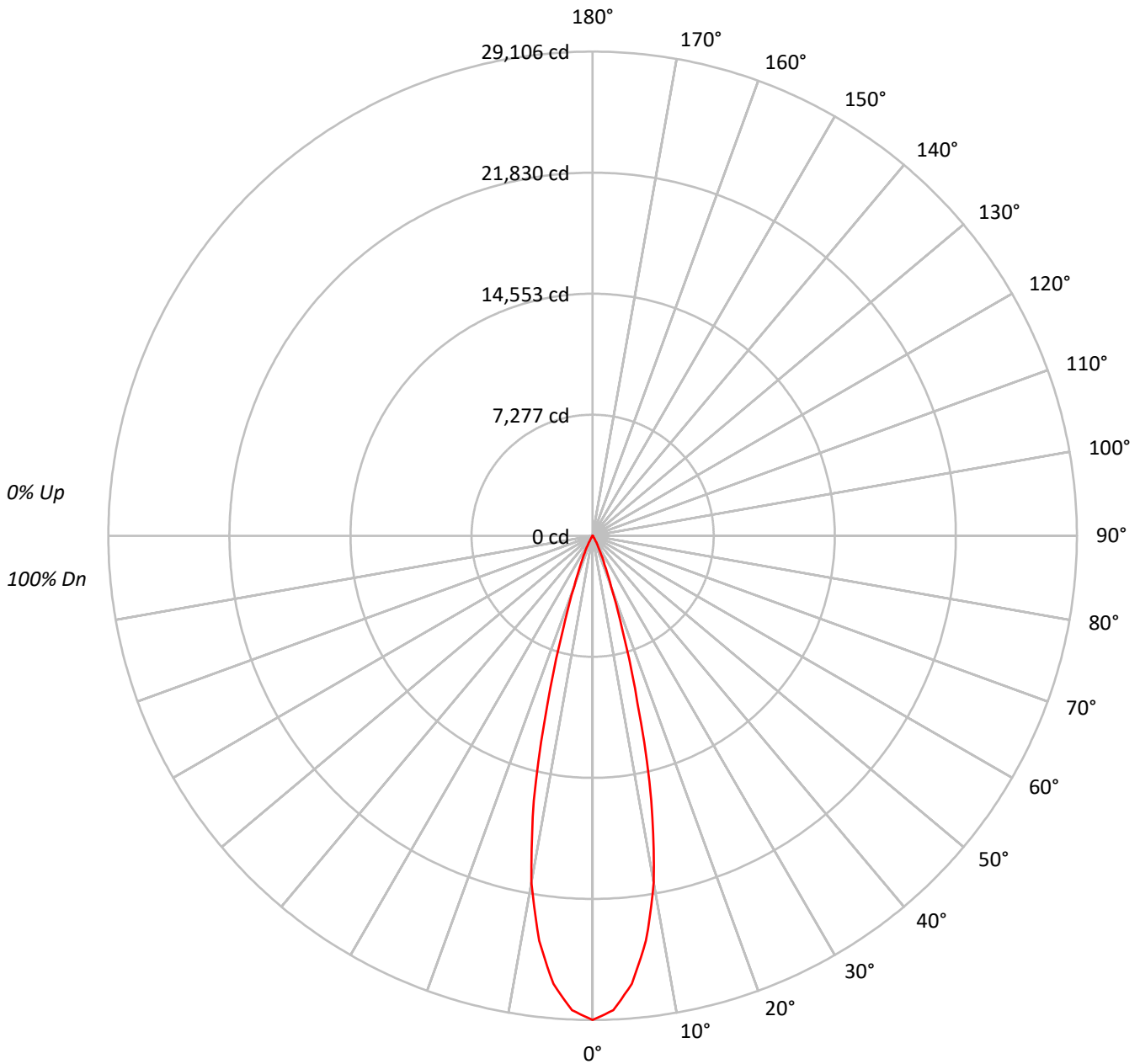
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	94	92
3	109	104	101	99	107	103	100	98	101	98	96	99	96	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90	89	88	88
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88	87	86	85
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	85	84	83	83
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	83	82	81	81
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	80	80	80
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	79	79	78
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78	77	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4689087
5°	4372418
10°	3462281
15°	1742473
20°	559144
25°	195534
30°	65500
35°	13138
40°	4332
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2393.7	40.2
10°-20°	2903.4	48.7
20°-30°	590.8	9.9
30°-40°	66.9	1.1
40°-50°	3.3	0.1
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°	5887.9	98.8
0°-40°	5954.7	99.9
0°-60°	5958.0	100.0
0°-90°	5958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5958.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29106	
5°	27037	###
15°	10447	2903
25°	1100	591
35°	67	67
45°	0	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	29106.0
2.5°	28543.2
5°	27037.1
7.5°	24551.9
10°	21164.5
12.5°	16312.2
15°	10447.3
17.5°	5885.5
20°	3261.4
22.5°	1858.2
25°	1100.0
27.5°	657.9
30°	352.1
32.5°	154.2
35°	66.8
37.5°	41.1
40°	20.6
42.5°	7.7
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



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— 0°-180°







(END OF REPORT)