

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: P431829

Luminaire Tested: **LAMR4B412R209730DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B412R209730DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5294.8 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

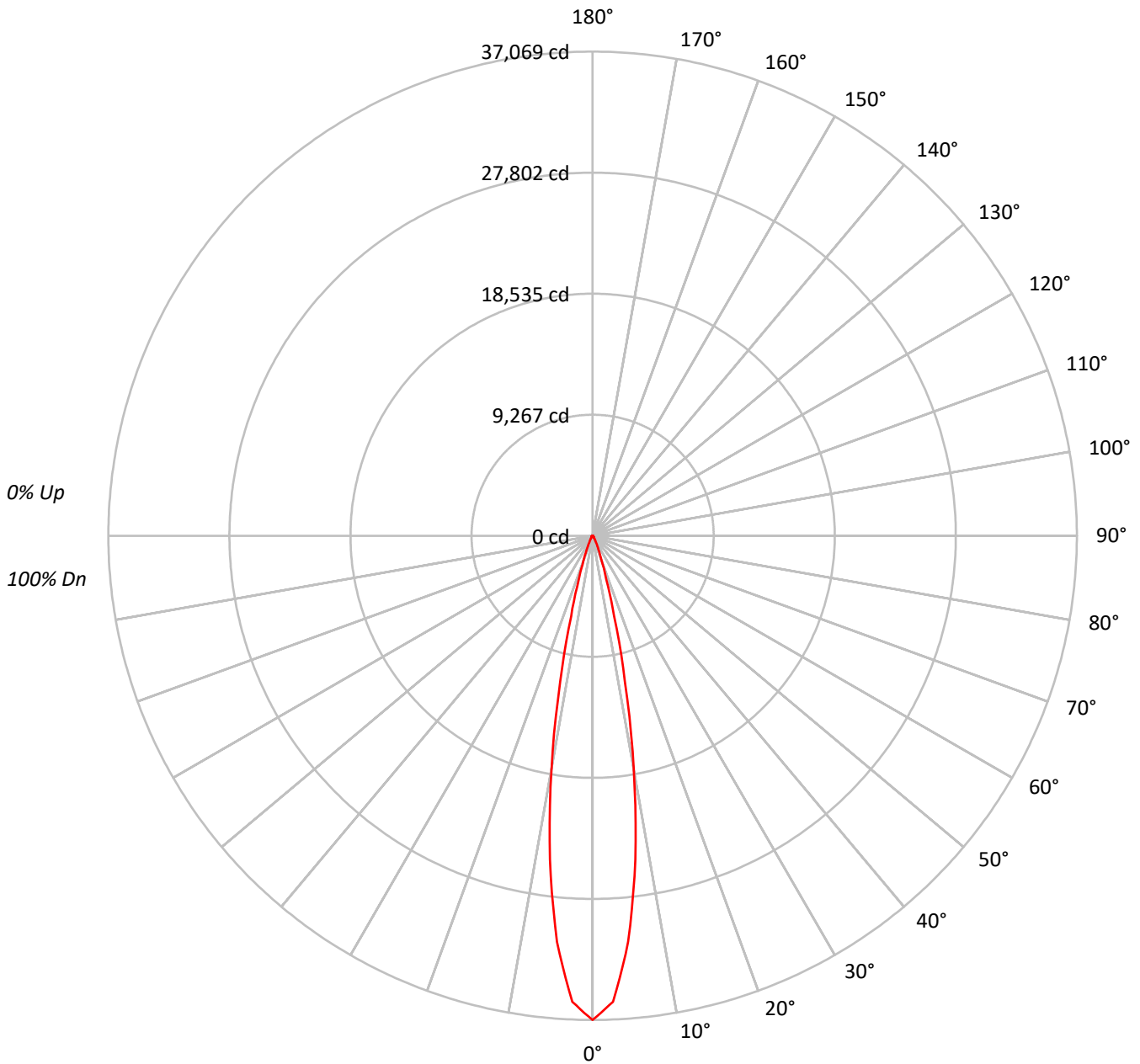
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18289235
5°	15459176
10°	9080156
15°	3251192
20°	1075762
25°	428158
30°	204695
35°	116968
40°	84436
45°	71170
50°	81976
55°	66836
60°	33550
65°	28369
70°	35054
75°	36982
80°	27560
85°	27738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2555.9	48.3
10°-20°	1993.2	37.6
20°-30°	413.7	7.8
30°-40°	130.4	2.5
40°-50°	83.9	1.6
50°-60°	67.4	1.3
60°-70°	26.5	0.5
70°-80°	19.9	0.4
80°-90°	4.0	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°	4962.8	93.7
0°-40°	5093.2	96.2
0°-60°	5244.5	99.1
0°-90°	5294.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5294.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	37069	
5°	31214	###
15°	6365	1993
25°	786	414
35°	194	130
45°	102	84
55°	78	67
65°	24	26
75°	19	20
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	37069.3
2.5°	35709.9
5°	31214.0
7.5°	25009.1
10°	18124.4
12.5°	11434.0
15°	6365.1
17.5°	3500.6
20°	2048.9
22.5°	1252.6
25°	786.5
27.5°	519.5
30°	359.3
32.5°	252.5
35°	194.2
37.5°	155.4
40°	131.1
42.5°	111.7
45°	102.0
47.5°	102.0
50°	106.8
52.5°	102.0
55°	77.7
57.5°	53.4
60°	34.0
62.5°	29.1
65°	24.3
67.5°	24.3
70°	24.3
72.5°	24.3
75°	19.4
77.5°	14.6
80°	9.7
82.5°	4.9
85°	4.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)