

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: P431923

Luminaire Tested: **LAMR4B412R409730DE01021MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-7)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B412R409730DE01021MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 40 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5669.8 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.6  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

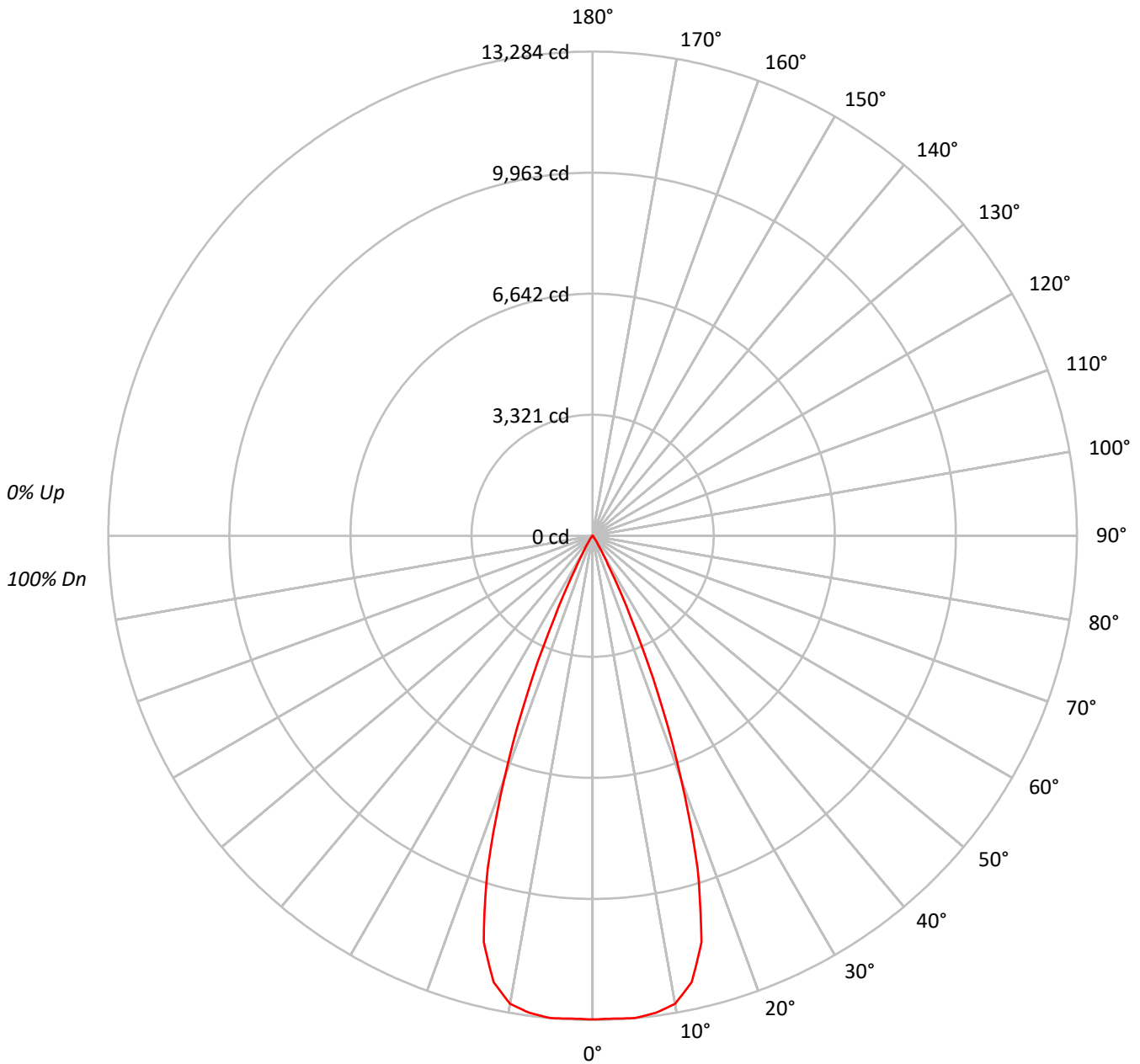
Input Watts (W): 54.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									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	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																											
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																											
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																											
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89																											
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86																											
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82																											
6	97	90	85	82	95	89	85	82	88	84	82	87	83	81	85	83	80	79																											
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77																											
8	91	83	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	74																											
9	88	81	76	73	87	80	76	73	79	75	73	79	75	73	78	75	72	71																											
10	85	78	73	71	84	77	73	70	77	73	70	76	73	70	75	72	70	69																											

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2137461
5°	2148342
10°	2133104
15°	1924388
20°	1214126
25°	437268
30°	91618
35°	27868
40°	5552
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°	1259.7	22.2
10°-20°	3012.2	53.1
20°-30°	1284.4	22.7
30°-40°	110.1	1.9
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°	5556.3	98.0
0°-40°	5666.5	99.9
0°-60°	5669.8	100.0
0°-90°	5669.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5669.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13268	
5°	13284	###
15°	11538	3012
25°	2460	1284
35°	142	110
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°	13267.6
2.5°	13255.6
5°	13284.4
7.5°	13205.1
10°	13039.4
12.5°	12544.5
15°	11538.0
17.5°	9572.9
20°	7081.8
22.5°	4662.8
25°	2459.9
27.5°	996.9
30°	492.5
32.5°	261.8
35°	141.7
37.5°	72.1
40°	26.4
42.5°	4.8
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)