

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: P431489

Luminaire Tested: **LAMR4B212R709727DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431489  
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: LAMR4B212R709727DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2027.8 lumens  
Efficiency: N/A  
Efficacy: 71.4 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

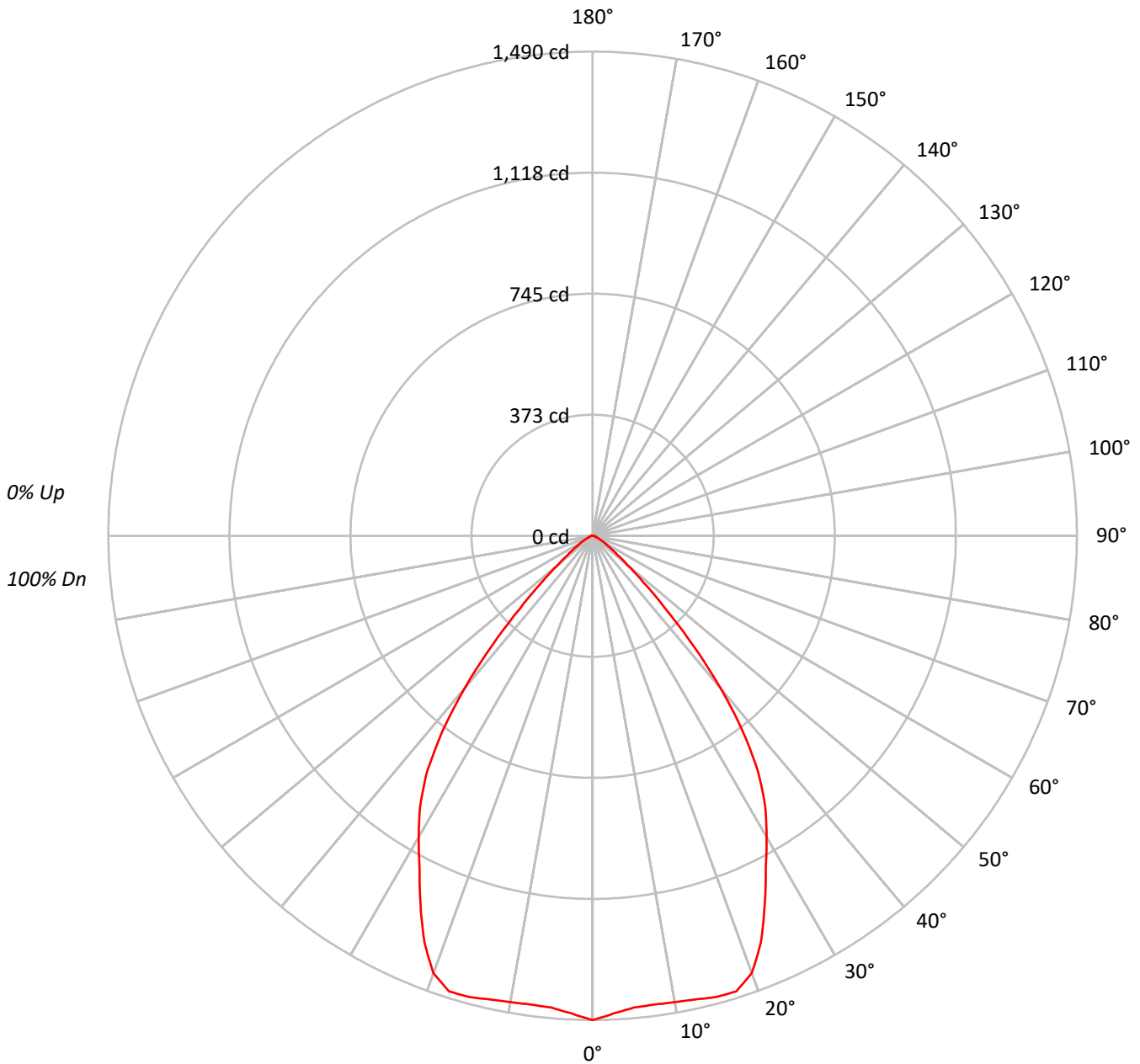
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	735382
5°	721699
10°	730044
15°	750699
20°	751967
25°	682222
30°	609585
35°	535389
40°	394165
45°	220766
50°	108687
55°	60901
60°	37003
65°	24283
70°	18032
75°	15822
80°	11933
85°	11888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	6.9
10°-20°	414.1	20.4
20°-30°	574.7	28.3
30°-40°	540.7	26.7
40°-50°	258.1	12.7
50°-60°	68.2	3.4
60°-70°	21.6	1.1
70°-80°	8.8	0.4
80°-90°	2.3	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°	1128.1	55.6
0°-40°	1668.8	82.3
0°-60°	1995.2	98.4
0°-90°	2027.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1490	
5°	1457	139
15°	1470	414
25°	1253	575
35°	889	541
45°	316	258
55°	71	68
65°	21	22
75°	8	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1490.5
2.5°	1471.8
5°	1457.2
7.5°	1455.1
10°	1457.2
12.5°	1461.4
15°	1469.7
17.5°	1469.7
20°	1432.2
22.5°	1353.1
25°	1253.2
27.5°	1153.3
30°	1070.0
32.5°	988.8
35°	888.9
37.5°	759.8
40°	612.0
42.5°	455.9
45°	316.4
47.5°	210.3
50°	141.6
52.5°	97.8
55°	70.8
57.5°	50.0
60°	37.5
62.5°	27.1
65°	20.8
67.5°	14.6
70°	12.5
72.5°	10.4
75°	8.3
77.5°	6.2
80°	4.2
82.5°	4.2
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)