

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: P431491

Luminaire Tested: **LAMR4B212R709730DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431491  
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: LAMR4B212R709730DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2135.8 lumens  
Efficiency: N/A  
Efficacy: 75.2 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

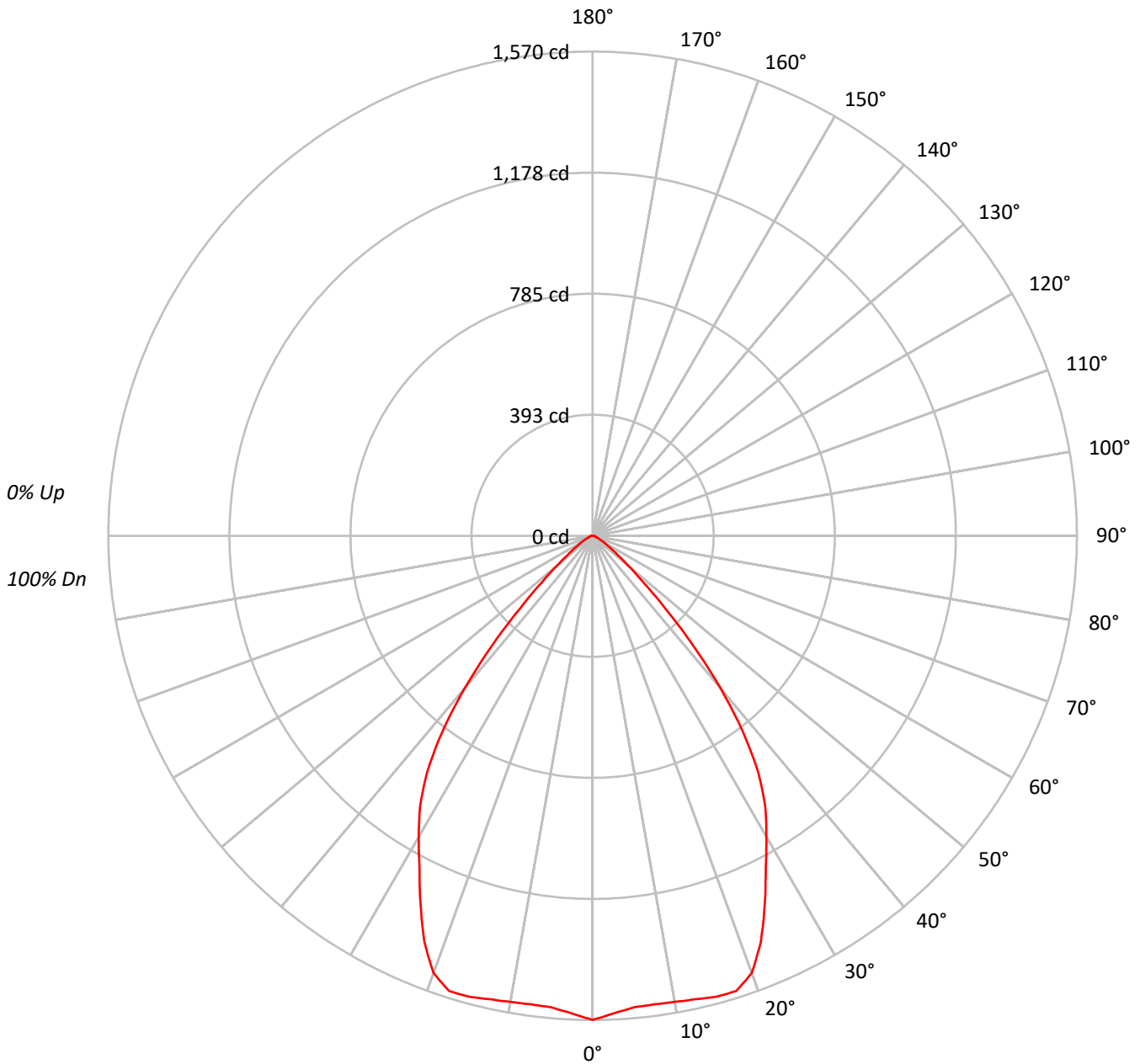
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

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

	0°
0°	774557
5°	760131
10°	768921
15°	790643
20°	792028
25°	718533
30°	642058
35°	563878
40°	415162
45°	232558
50°	114444
55°	64083
60°	38977
65°	25567
70°	19042
75°	16775
80°	12502
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	6.9
10°-20°	436.2	20.4
20°-30°	605.3	28.3
30°-40°	569.5	26.7
40°-50°	271.9	12.7
50°-60°	71.8	3.4
60°-70°	22.7	1.1
70°-80°	9.3	0.4
80°-90°	2.4	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°	1188.2	55.6
0°-40°	1757.7	82.3
0°-60°	2101.4	98.4
0°-90°	2135.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1570	
5°	1535	147
15°	1548	436
25°	1320	605
35°	936	570
45°	333	272
55°	74	72
65°	22	23
75°	9	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1569.9
2.5°	1550.1
5°	1534.8
7.5°	1532.6
10°	1534.8
12.5°	1539.2
15°	1547.9
17.5°	1547.9
20°	1508.5
22.5°	1425.2
25°	1319.9
27.5°	1214.7
30°	1127.0
32.5°	1041.5
35°	936.2
37.5°	800.3
40°	644.6
42.5°	480.2
45°	333.3
47.5°	221.4
50°	149.1
52.5°	103.0
55°	74.5
57.5°	52.6
60°	39.5
62.5°	28.5
65°	21.9
67.5°	15.3
70°	13.2
72.5°	11.0
75°	8.8
77.5°	6.6
80°	4.4
82.5°	4.4
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)