

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: P431369

Luminaire Tested: **LAMR4B212R459727DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B212R459727DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2089.5 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

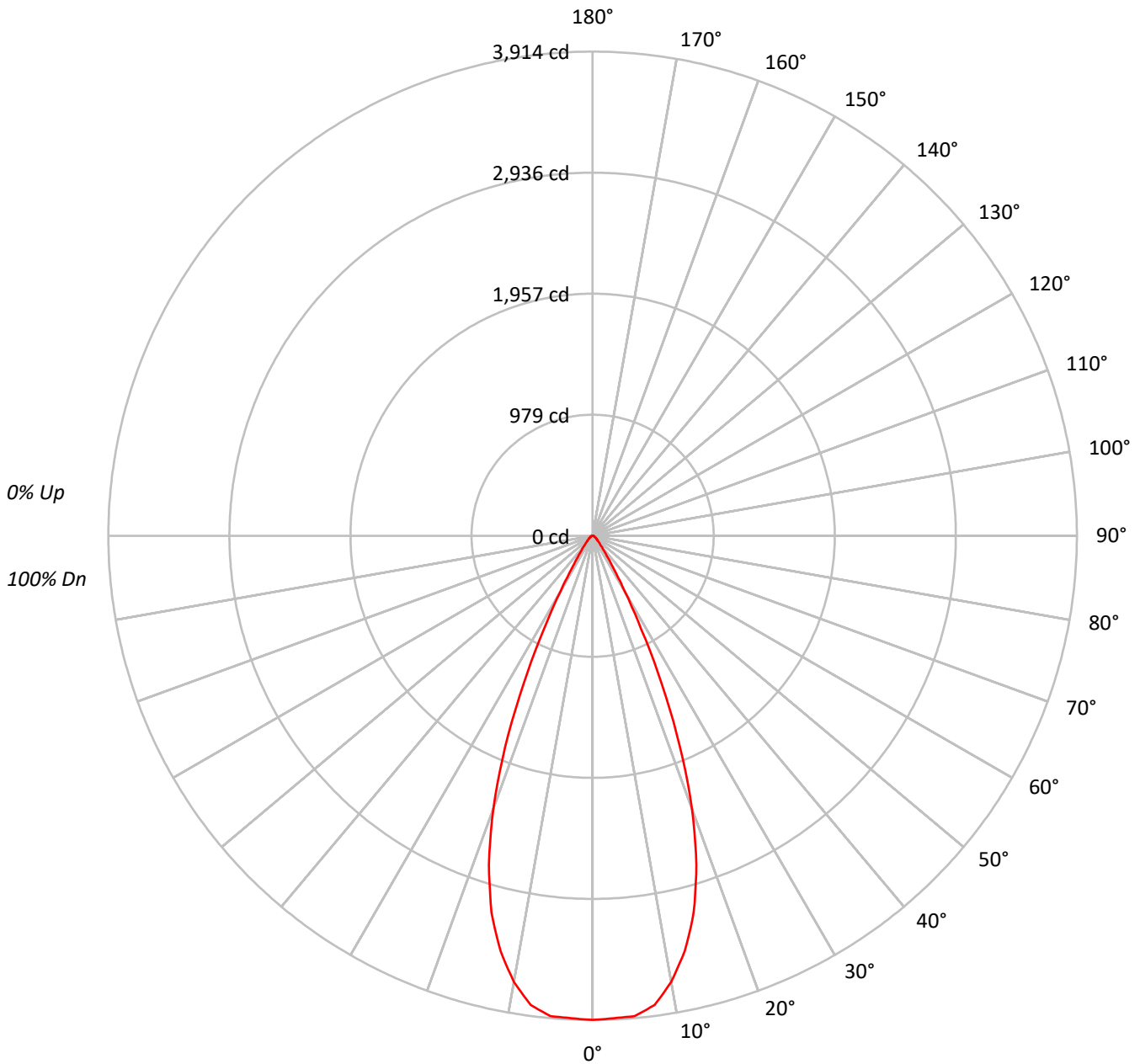
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	89	89	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	80	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63	63	63	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61	61	61	61

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

	0°
0°	1930890
5°	1930243
10°	1834678
15°	1611626
20°	1232907
25°	719730
30°	294595
35°	124557
40°	67884
45°	43888
50°	34233
55°	29676
60°	23978
65°	18912
70°	17599
75°	15441
80°	17332
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.7	17.5
10°-20°	859.0	41.1
20°-30°	605.2	29.0
30°-40°	149.0	7.1
40°-50°	52.0	2.5
50°-60°	30.8	1.5
60°-70°	17.0	0.8
70°-80°	9.4	0.4
80°-90°	2.5	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°	1828.9	87.5
0°-40°	1977.9	94.7
0°-60°	2060.6	98.6
0°-90°	2089.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3914	
5°	3897	365
15°	3155	859
25°	1322	605
35°	207	149
45°	63	52
55°	34	31
65°	16	17
75°	8	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3913.6
2.5°	3903.4
5°	3897.4
7.5°	3826.4
10°	3662.1
12.5°	3439.1
15°	3155.2
17.5°	2788.2
20°	2348.2
22.5°	1843.2
25°	1322.1
27.5°	853.7
30°	517.1
32.5°	314.3
35°	206.8
37.5°	146.0
40°	105.4
42.5°	81.1
45°	62.9
47.5°	52.7
50°	44.6
52.5°	38.5
55°	34.5
57.5°	30.4
60°	24.3
62.5°	20.3
65°	16.2
67.5°	14.2
70°	12.2
72.5°	10.1
75°	8.1
77.5°	8.1
80°	6.1
82.5°	4.1
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)