

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: P431356

Luminaire Tested: **LAMR4B212R459030DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431356  
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: LAMR4B212R459030DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2300.2 lumens  
Efficiency: N/A  
Efficacy: 81.0 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

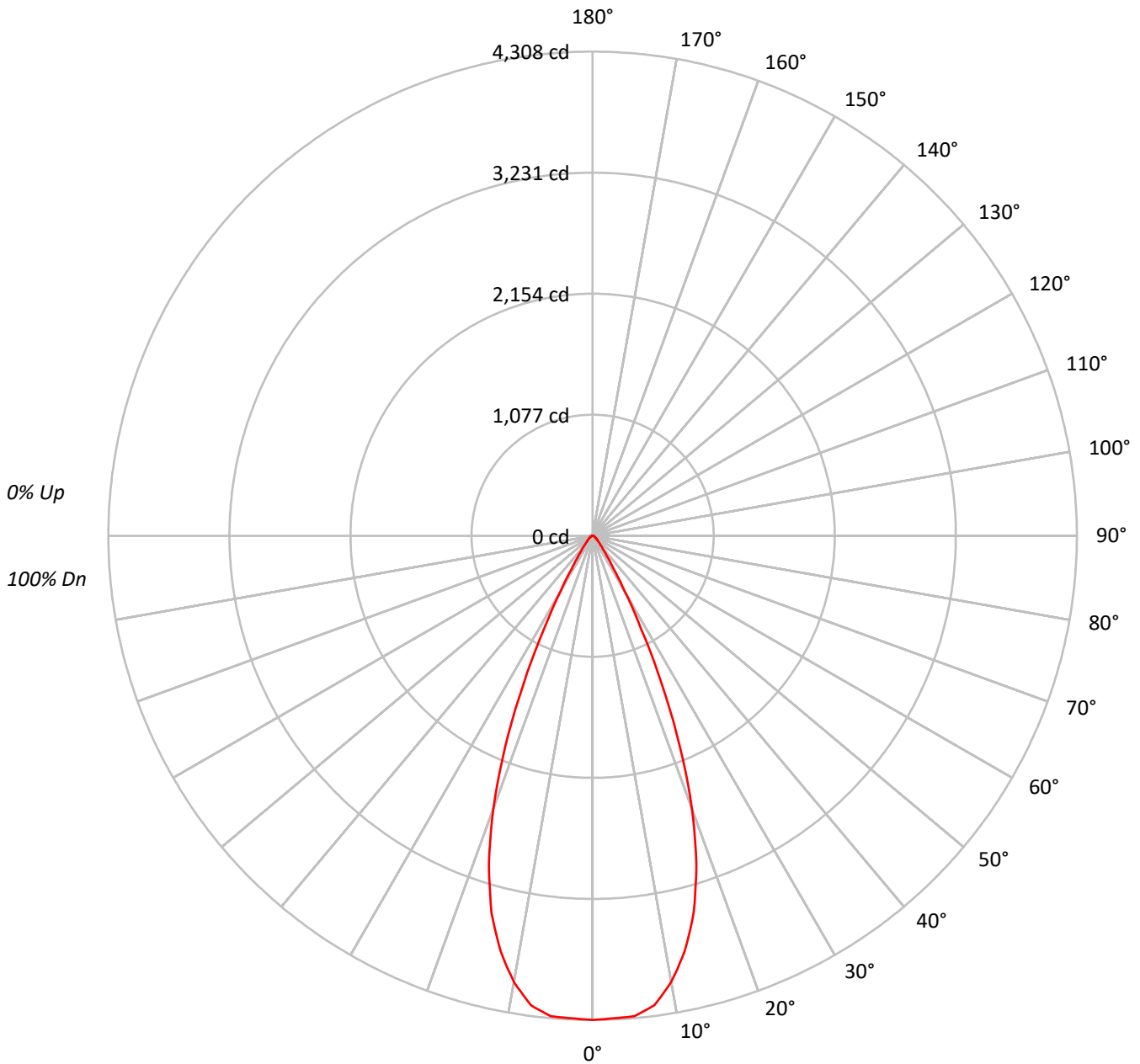
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																										
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	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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																																				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																																				
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85																																				
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80																																				
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76																																				
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73																																				
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																																				
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																																				
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63																																				
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61																																				

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

	0°
0°	2125578
5°	2124881
10°	2019694
15°	1774157
20°	1357185
25°	792297
30°	324276
35°	137145
40°	74776
45°	48284
50°	37687
55°	32601
60°	26445
65°	20897
70°	19330
75°	16966
80°	19036
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.5	17.5
10°-20°	945.6	41.1
20°-30°	666.3	29.0
30°-40°	164.0	7.1
40°-50°	57.2	2.5
50°-60°	33.9	1.5
60°-70°	18.7	0.8
70°-80°	10.3	0.4
80°-90°	2.7	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°	2013.3	87.5
0°-40°	2177.3	94.7
0°-60°	2268.4	98.6
0°-90°	2300.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4308	
5°	4290	401
15°	3473	946
25°	1455	666
35°	228	164
45°	69	57
55°	38	34
65°	18	19
75°	9	10
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4308.2
2.5°	4297.1
5°	4290.4
7.5°	4212.2
10°	4031.4
12.5°	3785.9
15°	3473.4
17.5°	3069.3
20°	2584.9
22.5°	2029.1
25°	1455.4
27.5°	939.8
30°	569.2
32.5°	346.0
35°	227.7
37.5°	160.7
40°	116.1
42.5°	89.3
45°	69.2
47.5°	58.0
50°	49.1
52.5°	42.4
55°	37.9
57.5°	33.5
60°	26.8
62.5°	22.3
65°	17.9
67.5°	15.6
70°	13.4
72.5°	11.2
75°	8.9
77.5°	8.9
80°	6.7
82.5°	4.5
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)