

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: P431351

Luminaire Tested: **LAMR4B212R459024DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431351  
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: LAMR4B212R459024DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2029.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 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

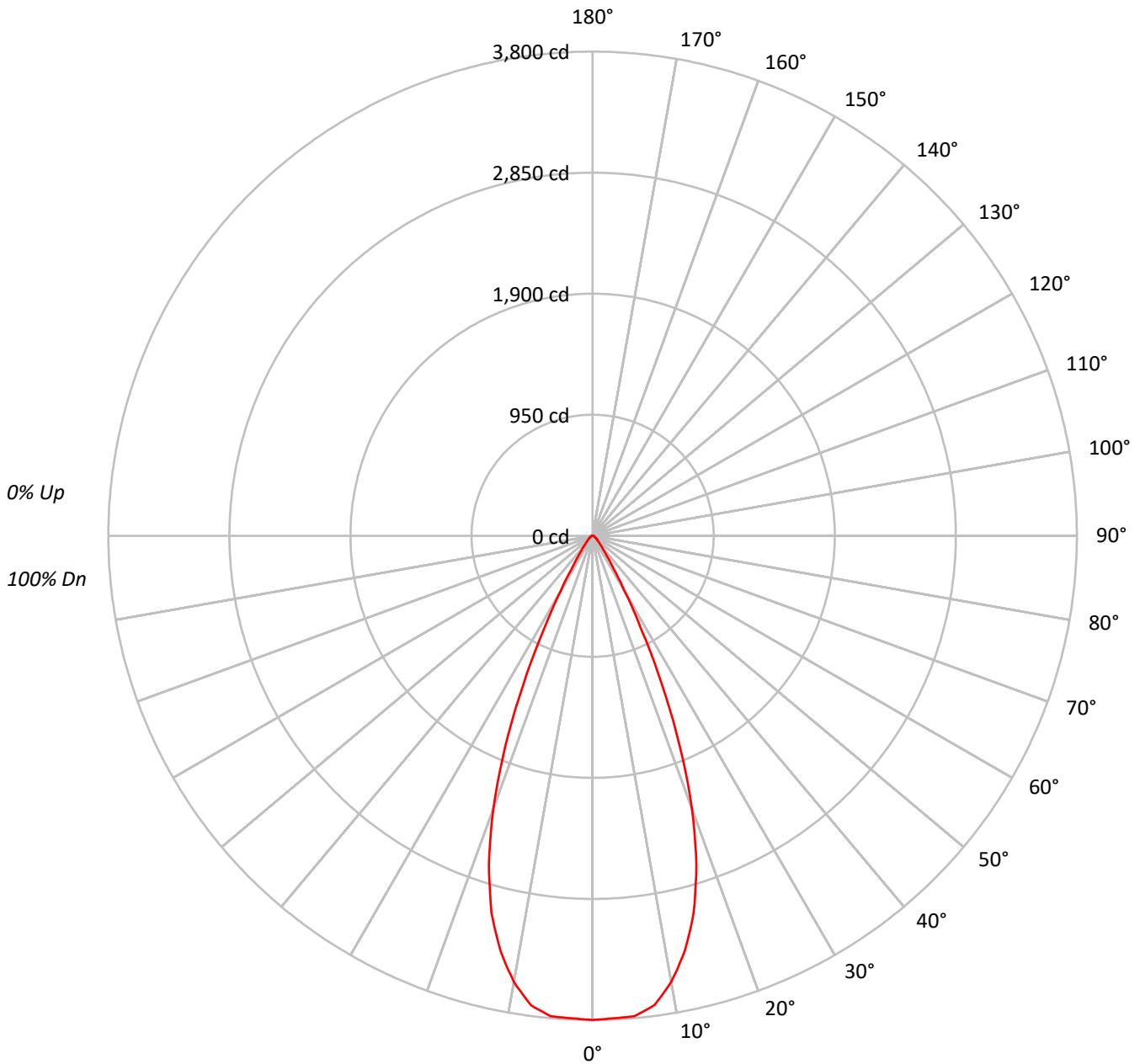
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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																			
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°	1874990
5°	1874377
10°	1781573
15°	1564991
20°	1197204
25°	698880
30°	286049
35°	120943
40°	65952
45°	42562
50°	33235
55°	28816
60°	23288
65°	18445
70°	17022
75°	15060
80°	16763
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.1	17.5
10°-20°	834.1	41.1
20°-30°	587.7	29.0
30°-40°	144.7	7.1
40°-50°	50.5	2.5
50°-60°	29.9	1.5
60°-70°	16.6	0.8
70°-80°	9.1	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°	1776.0	87.5
0°-40°	1920.6	94.7
0°-60°	2001.0	98.6
0°-90°	2029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3800	
5°	3785	354
15°	3064	834
25°	1284	588
35°	201	145
45°	61	50
55°	34	30
65°	16	17
75°	8	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3800.3
2.5°	3790.5
5°	3784.6
7.5°	3715.6
10°	3556.1
12.5°	3339.5
15°	3063.9
17.5°	2707.5
20°	2280.2
22.5°	1789.9
25°	1283.8
27.5°	829.0
30°	502.1
32.5°	305.2
35°	200.8
37.5°	141.8
40°	102.4
42.5°	78.8
45°	61.0
47.5°	51.2
50°	43.3
52.5°	37.4
55°	33.5
57.5°	29.5
60°	23.6
62.5°	19.7
65°	15.8
67.5°	13.8
70°	11.8
72.5°	9.8
75°	7.9
77.5°	7.9
80°	5.9
82.5°	3.9
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)