

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: P430085

Luminaire Tested: **LAM4B212R209030DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B212R209030DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2305.6 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

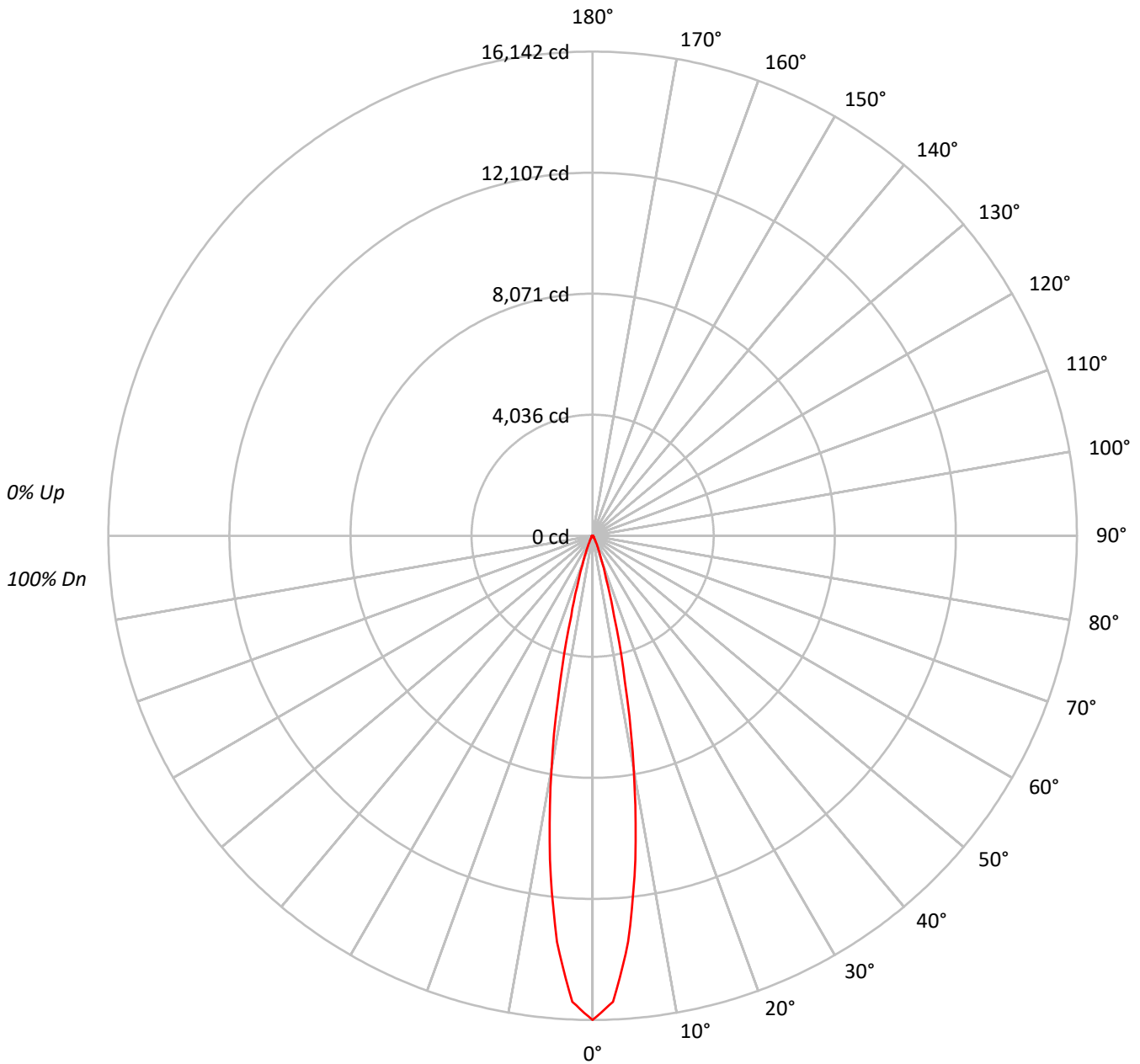
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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																		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	95	94	93	91	91	89	88	87	85	85	83	83	81	81	80											
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	93	91	91	89	88	87	85	85	83	83	81	81	80														
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93	91	91	89	88	87	85	85	83	83	81	81	80																
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	87	87	85	85	83	83	81	81	80																		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	85	85	83	83	81	81	80																				
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	83	83	81	81	80																						
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	81	81	80																								
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	81	80																									
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80																											
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78																											

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

	0°
0°	7964133
5°	6731779
10°	3954019
15°	1415740
20°	468444
25°	186452
30°	89159
35°	50955
40°	36776
45°	30980
50°	35692
55°	29074
60°	14604
65°	12375
70°	15291
75°	16203
80°	11933
85°	11888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1113.0	48.3
10°-20°	867.9	37.6
20°-30°	180.1	7.8
30°-40°	56.8	2.5
40°-50°	36.5	1.6
50°-60°	29.3	1.3
60°-70°	11.5	0.5
70°-80°	8.6	0.4
80°-90°	1.7	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°	2161.1	93.7
0°-40°	2217.9	96.2
0°-60°	2283.7	99.1
0°-90°	2305.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16142	
5°	13592	###
15°	2772	868
25°	342	180
35°	85	57
45°	44	37
55°	34	29
65°	11	12
75°	8	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16142.0
2.5°	15550.1
5°	13592.3
7.5°	10890.3
10°	7892.4
12.5°	4979.0
15°	2771.7
17.5°	1524.4
20°	892.2
22.5°	545.5
25°	342.5
27.5°	226.2
30°	156.5
32.5°	109.9
35°	84.6
37.5°	67.7
40°	57.1
42.5°	48.6
45°	44.4
47.5°	44.4
50°	46.5
52.5°	44.4
55°	33.8
57.5°	23.3
60°	14.8
62.5°	12.7
65°	10.6
67.5°	10.6
70°	10.6
72.5°	10.6
75°	8.5
77.5°	6.3
80°	4.2
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)