

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: P430319

Luminaire Tested: **LAM4B212R709024DE010x1MMS**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430319  
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: LAM4B212R709024DE010x1MMS  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1969.1 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

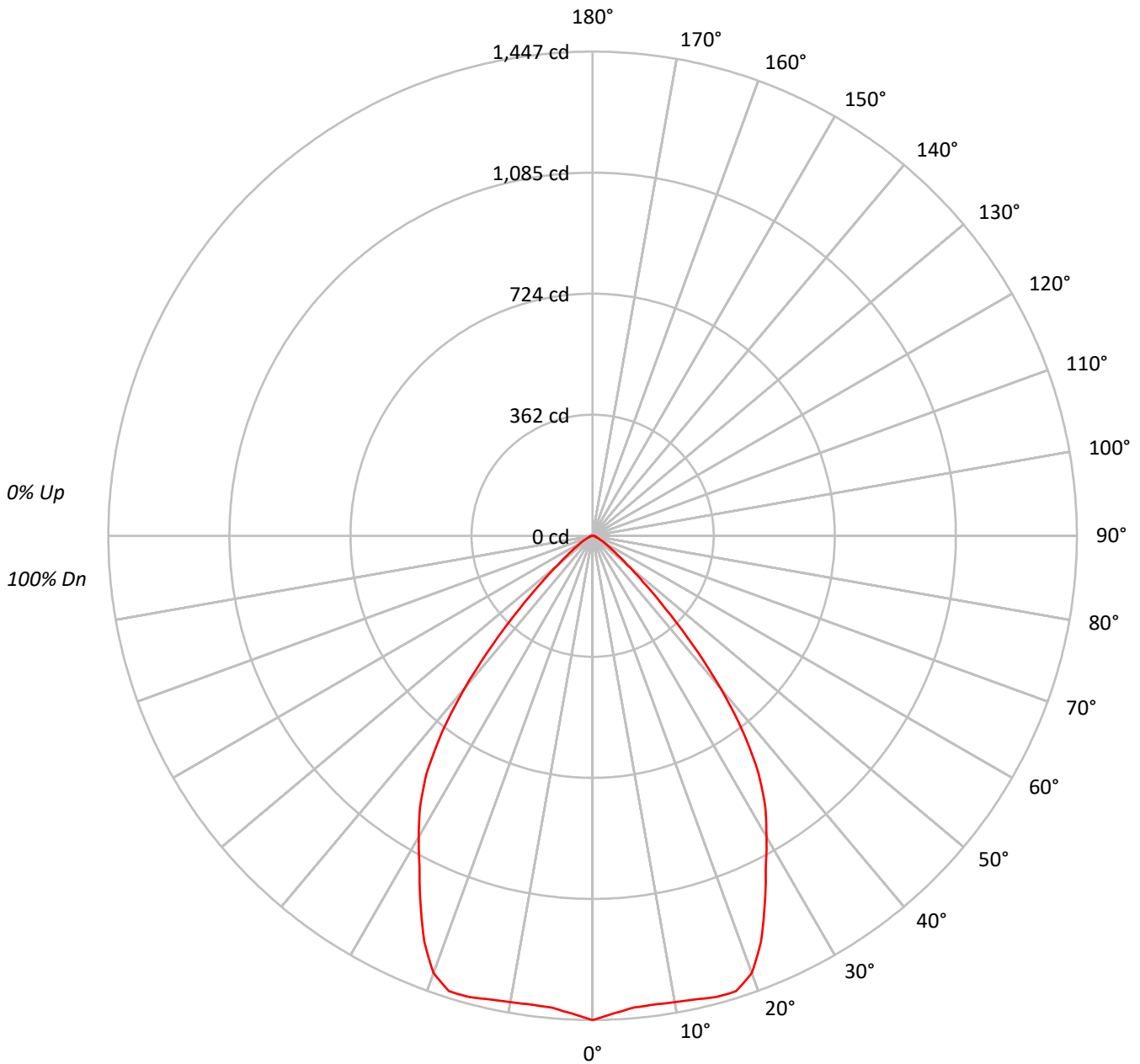
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
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°	714118
5°	700799
10°	708902
15°	728991
20°	730231
25°	662461
30°	591924
35°	519910
40°	382766
45°	214417
50°	105540
55°	59094
60°	35918
65°	23582
70°	17455
75°	15441
80°	11365
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.3	6.9
10°-20°	402.2	20.4
20°-30°	558.1	28.3
30°-40°	525.1	26.7
40°-50°	250.7	12.7
50°-60°	66.3	3.4
60°-70°	20.9	1.1
70°-80°	8.5	0.4
80°-90°	2.2	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°	1095.5	55.6
0°-40°	1620.6	82.3
0°-60°	1937.5	98.4
0°-90°	1969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1447	
5°	1415	135
15°	1427	402
25°	1217	558
35°	863	525
45°	307	251
55°	69	66
65°	20	21
75°	8	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1447.4
2.5°	1429.2
5°	1415.0
7.5°	1413.0
10°	1415.0
12.5°	1419.1
15°	1427.2
17.5°	1427.2
20°	1390.8
22.5°	1314.0
25°	1216.9
27.5°	1119.9
30°	1039.0
32.5°	960.2
35°	863.2
37.5°	737.8
40°	594.3
42.5°	442.7
45°	307.3
47.5°	204.2
50°	137.5
52.5°	95.0
55°	68.7
57.5°	48.5
60°	36.4
62.5°	26.3
65°	20.2
67.5°	14.2
70°	12.1
72.5°	10.1
75°	8.1
77.5°	6.1
80°	4.0
82.5°	4.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)