

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: P431185

Luminaire Tested: **LAMR4B112R709027DE010x1MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P431185  
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: LAMR4B112R709027DE010x1MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1098.3 lumens  
Efficiency: N/A  
Efficacy: 76.8 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

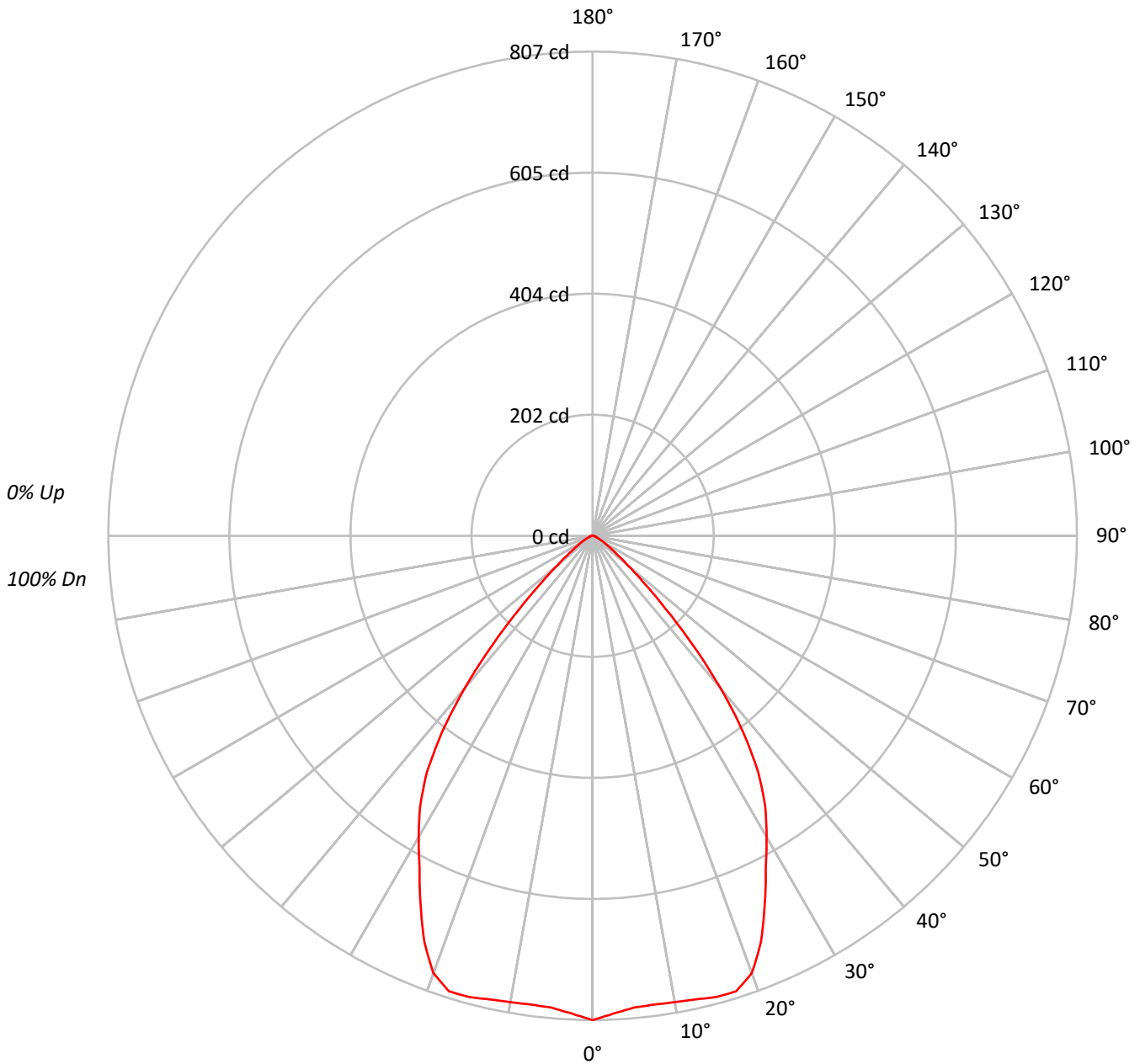
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100																
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54			54																
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50																
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46																
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43			43																

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

	0°
0°	398256
5°	390862
10°	395382
15°	406584
20°	407276
25°	369473
30°	330144
35°	289950
40°	213506
45°	119593
50°	58872
55°	32945
60°	20031
65°	13192
70°	9809
75°	8578
80°	6535
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	6.9
10°-20°	224.3	20.4
20°-30°	311.3	28.3
30°-40°	292.8	26.7
40°-50°	139.8	12.7
50°-60°	37.0	3.4
60°-70°	11.7	1.1
70°-80°	4.8	0.4
80°-90°	1.2	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°	611.0	55.6
0°-40°	903.8	82.3
0°-60°	1080.6	98.4
0°-90°	1098.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	807	
5°	789	75
15°	796	224
25°	679	311
35°	481	293
45°	171	140
55°	38	37
65°	11	12
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	807.2
2.5°	797.1
5°	789.2
7.5°	788.1
10°	789.2
12.5°	791.5
15°	796.0
17.5°	796.0
20°	775.7
22.5°	732.8
25°	678.7
27.5°	624.6
30°	579.5
32.5°	535.5
35°	481.4
37.5°	411.5
40°	331.5
42.5°	246.9
45°	171.4
47.5°	113.9
50°	76.7
52.5°	53.0
55°	38.3
57.5°	27.1
60°	20.3
62.5°	14.7
65°	11.3
67.5°	7.9
70°	6.8
72.5°	5.6
75°	4.5
77.5°	3.4
80°	2.3
82.5°	2.3
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)