

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: P431004

Luminaire Tested: **LAMR4B112R309040DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B112R309040DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1309.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

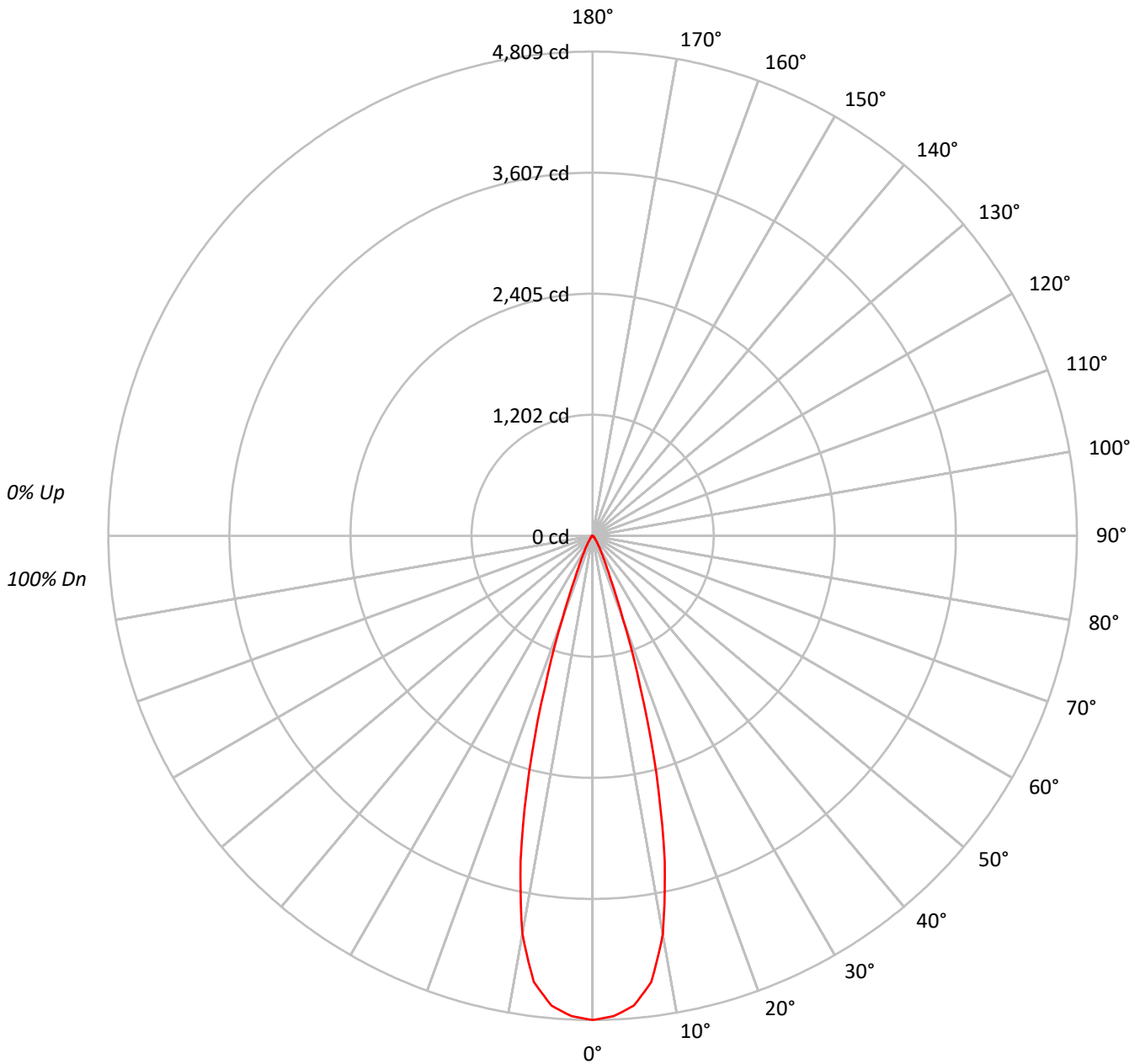
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431004

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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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96			96																
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94			93																	
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91			90																	
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88			87																	
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85			84																	
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82			81																	
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80			79																	
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78			77																	
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75			74																	
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73			72																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2372564
5°	2320758
10°	2012229
15°	1247182
20°	457103
25°	152809
30°	74973
35°	37403
40°	23186
45°	14722
50°	10516
55°	8516
60°	7401
65°	5837
70°	7213
75°	7053
80°	7103
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	32.6
10°-20°	644.8	49.2
20°-30°	157.2	12.0
30°-40°	43.0	3.3
40°-50°	17.3	1.3
50°-60°	9.3	0.7
60°-70°	5.6	0.4
70°-80°	4.3	0.3
80°-90°	1.0	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°	1229.0	93.9
0°-40°	1272.1	97.1
0°-60°	1298.7	99.2
0°-90°	1309.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4809	
5°	4686	427
15°	2442	645
25°	281	157
35°	62	43
45°	21	17
55°	10	9
65°	5	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4808.8
2.5°	4776.6
5°	4685.9
7.5°	4469.8
10°	4016.5
12.5°	3306.1
15°	2441.7
17.5°	1573.6
20°	870.6
22.5°	464.5
25°	280.7
27.5°	190.0
30°	131.6
32.5°	89.4
35°	62.1
37.5°	46.0
40°	36.0
42.5°	27.3
45°	21.1
47.5°	17.4
50°	13.7
52.5°	12.4
55°	9.9
57.5°	8.7
60°	7.5
62.5°	6.2
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	3.7
77.5°	3.7
80°	2.5
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)