

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: P431000

Luminaire Tested: **LAMR4B112R309035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431000
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: LAMR4B112R309035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1295.2 lumens
Efficiency: N/A
Efficacy: 90.6 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

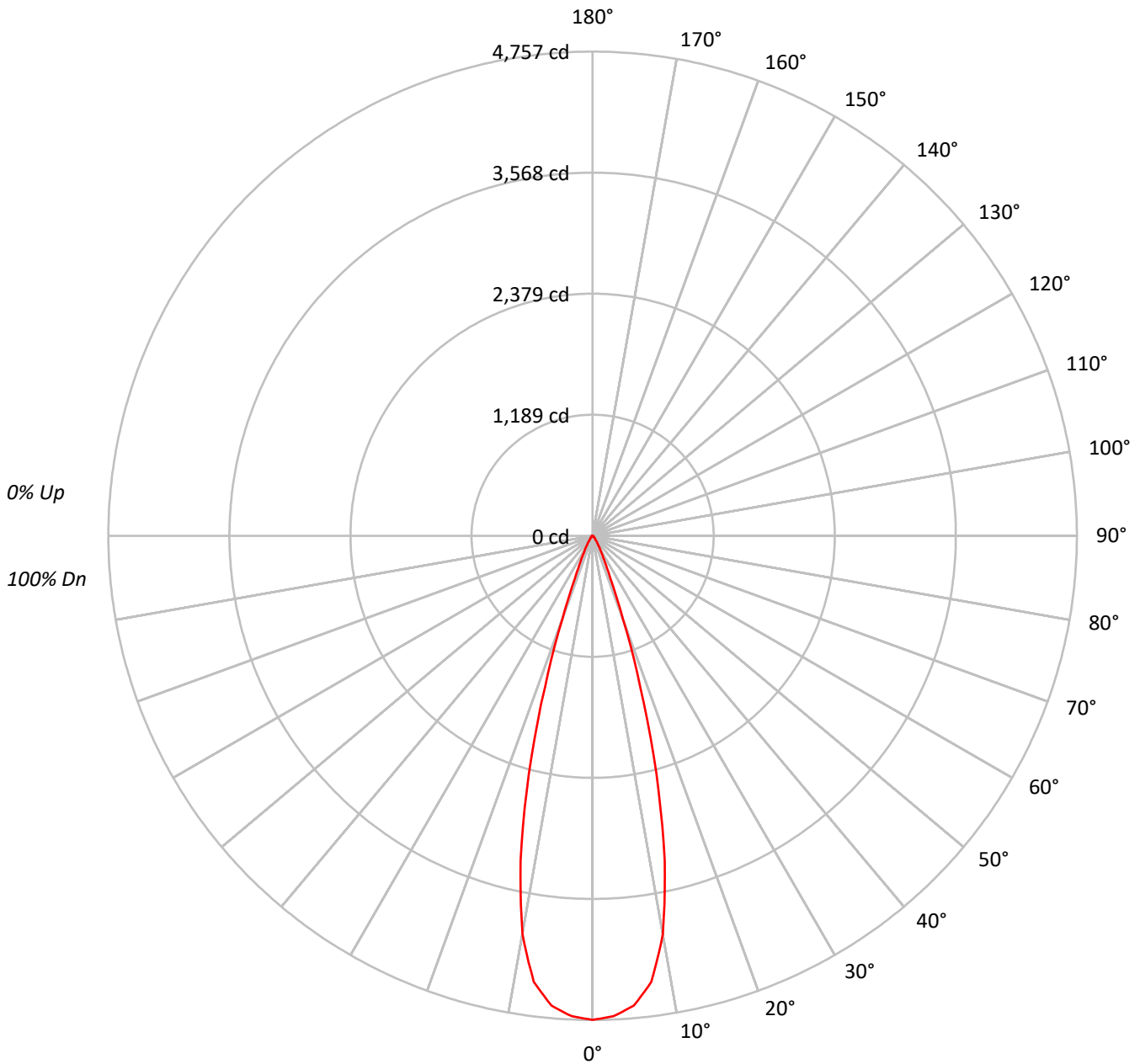
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																											
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	96	96	96	97	95	94	93	93																										
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	87																										
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87	84																										
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	81																										
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81	79																										
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	77																										
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77	74																										
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74	72																										
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72	70																										

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2346809
5°	2295549
10°	1990336
15°	1233595
20°	452115
25°	151121
30°	74176
35°	36982
40°	22929
45°	14583
50°	10362
55°	8430
60°	7302
65°	5720
70°	7068
75°	7053
80°	7103
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.4	32.6
10°-20°	637.7	49.2
20°-30°	155.5	12.0
30°-40°	42.6	3.3
40°-50°	17.1	1.3
50°-60°	9.2	0.7
60°-70°	5.5	0.4
70°-80°	4.2	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°	1215.6	93.9
0°-40°	1258.2	97.1
0°-60°	1284.5	99.2
0°-90°	1295.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4757	
5°	4635	422
15°	2415	638
25°	278	155
35°	61	43
45°	21	17
55°	10	9
65°	5	5
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4756.6
2.5°	4724.6
5°	4635.0
7.5°	4421.2
10°	3972.8
12.5°	3270.1
15°	2415.1
17.5°	1556.5
20°	861.1
22.5°	459.4
25°	277.6
27.5°	188.0
30°	130.2
32.5°	88.4
35°	61.4
37.5°	45.5
40°	35.6
42.5°	27.0
45°	20.9
47.5°	17.2
50°	13.5
52.5°	12.3
55°	9.8
57.5°	8.6
60°	7.4
62.5°	6.1
65°	4.9
67.5°	4.9
70°	4.9
72.5°	4.9
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)