

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: P429930

Luminaire Tested: **LAM4B112R459727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P429930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B112R459727DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

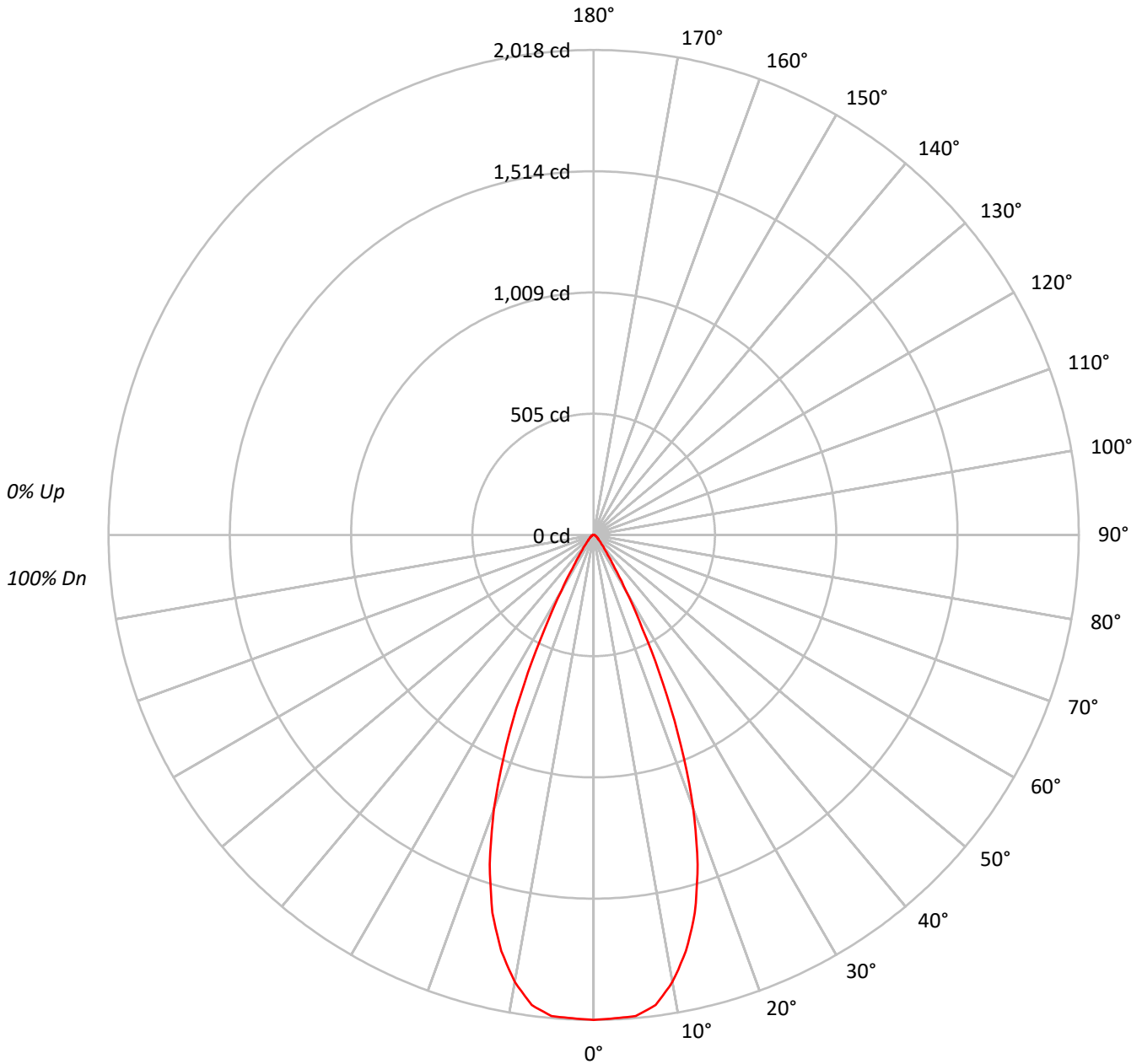
Lumens per Lamp: N/A
Luminaire Lumens: 1077.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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				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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89			
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76			
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	995788
5°	995431
10°	946171
15°	831097
20°	635828
25°	371161
30°	151940
35°	64266
40°	35037
45°	22607
50°	17654
55°	15311
60°	12334
65°	9806
70°	9088
75°	8006
80°	8808
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	17.5
10°-20°	443.0	41.1
20°-30°	312.1	29.0
30°-40°	76.8	7.1
40°-50°	26.8	2.5
50°-60°	15.9	1.5
60°-70°	8.8	0.8
70°-80°	4.8	0.4
80°-90°	1.3	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°	943.2	87.5
0°-40°	1020.0	94.7
0°-60°	1062.7	98.6
0°-90°	1077.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2018	
5°	2010	188
15°	1627	443
25°	682	312
35°	107	77
45°	32	27
55°	18	16
65°	8	9
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2018.3
2.5°	2013.0
5°	2009.9
7.5°	1973.3
10°	1888.6
12.5°	1773.6
15°	1627.1
17.5°	1437.9
20°	1211.0
22.5°	950.6
25°	681.8
27.5°	440.3
30°	266.7
32.5°	162.1
35°	106.7
37.5°	75.3
40°	54.4
42.5°	41.8
45°	32.4
47.5°	27.2
50°	23.0
52.5°	19.9
55°	17.8
57.5°	15.7
60°	12.5
62.5°	10.5
65°	8.4
67.5°	7.3
70°	6.3
72.5°	5.2
75°	4.2
77.5°	4.2
80°	3.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)