

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: P429843

Luminaire Tested: **LAM4B112R309027DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P429843
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: LAM4B112R309027DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

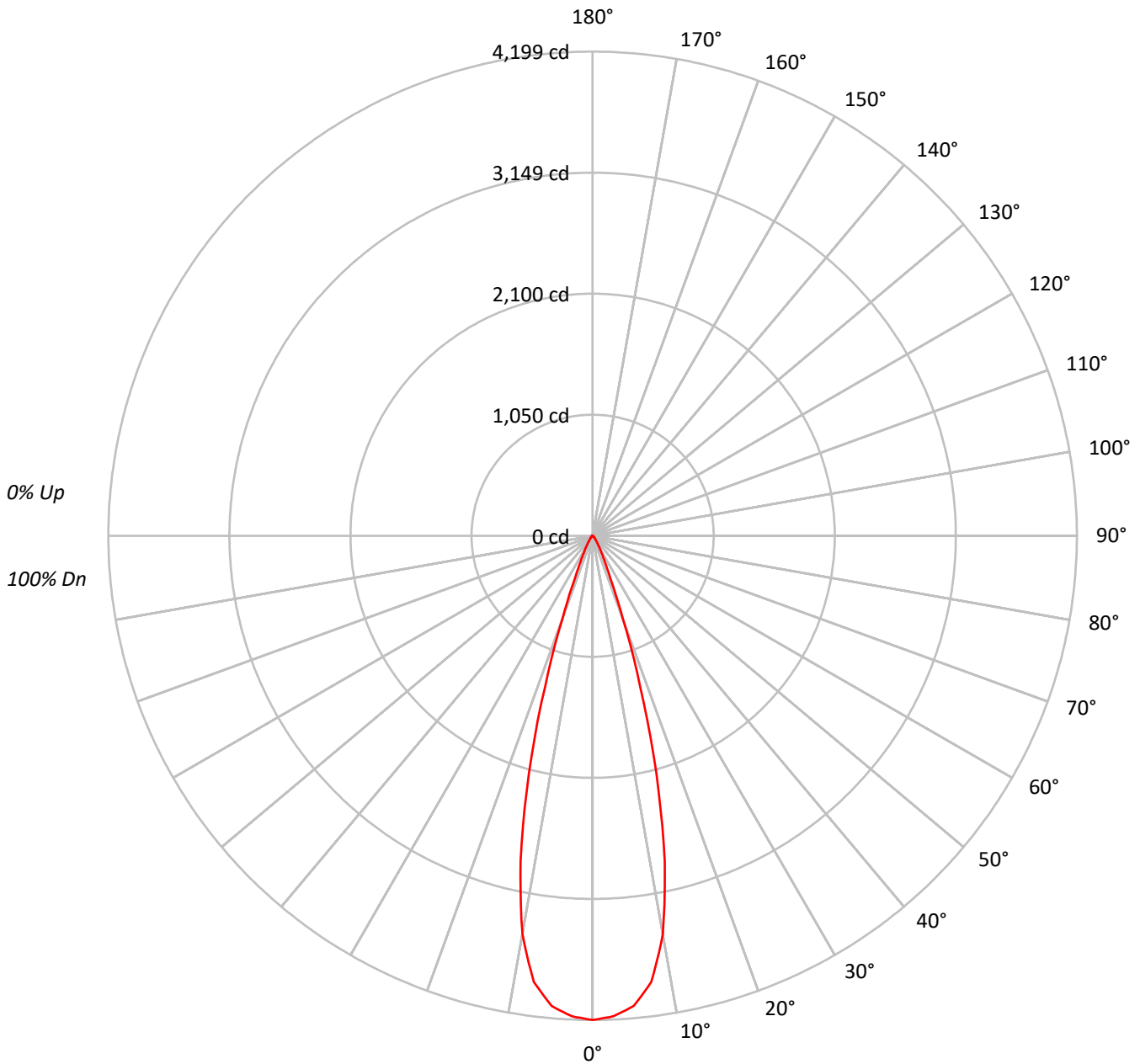
Lumens per Lamp: N/A
Luminaire Lumens: 1143.5 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2071849
5°	2026621
10°	1757175
15°	1089094
20°	399191
25°	133429
30°	65516
35°	32645
40°	20288
45°	12838
50°	9134
55°	7484
60°	6414
65°	5020
70°	6203
75°	6291
80°	6251
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	32.6
10°-20°	563.0	49.2
20°-30°	137.3	12.0
30°-40°	37.6	3.3
40°-50°	15.1	1.3
50°-60°	8.1	0.7
60°-70°	4.8	0.4
70°-80°	3.7	0.3
80°-90°	0.9	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°	1073.2	93.9
0°-40°	1110.8	97.1
0°-60°	1134.1	99.2
0°-90°	1143.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4199	
5°	4092	373
15°	2132	563
25°	245	137
35°	54	38
45°	18	15
55°	9	8
65°	4	5
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4199.3
2.5°	4171.1
5°	4092.0
7.5°	3903.3
10°	3507.4
12.5°	2887.0
15°	2132.2
17.5°	1374.1
20°	760.3
22.5°	405.6
25°	245.1
27.5°	165.9
30°	115.0
32.5°	78.1
35°	54.2
37.5°	40.1
40°	31.5
42.5°	23.9
45°	18.4
47.5°	15.2
50°	11.9
52.5°	10.8
55°	8.7
57.5°	7.6
60°	6.5
62.5°	5.4
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	3.3
77.5°	3.3
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)