

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: P432180

Luminaire Tested: **LAM4B108R309040DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432180
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: LAM4B108R309040DE010x1MW
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: 883.5 lumens
Efficiency: N/A
Efficacy: 77.5 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

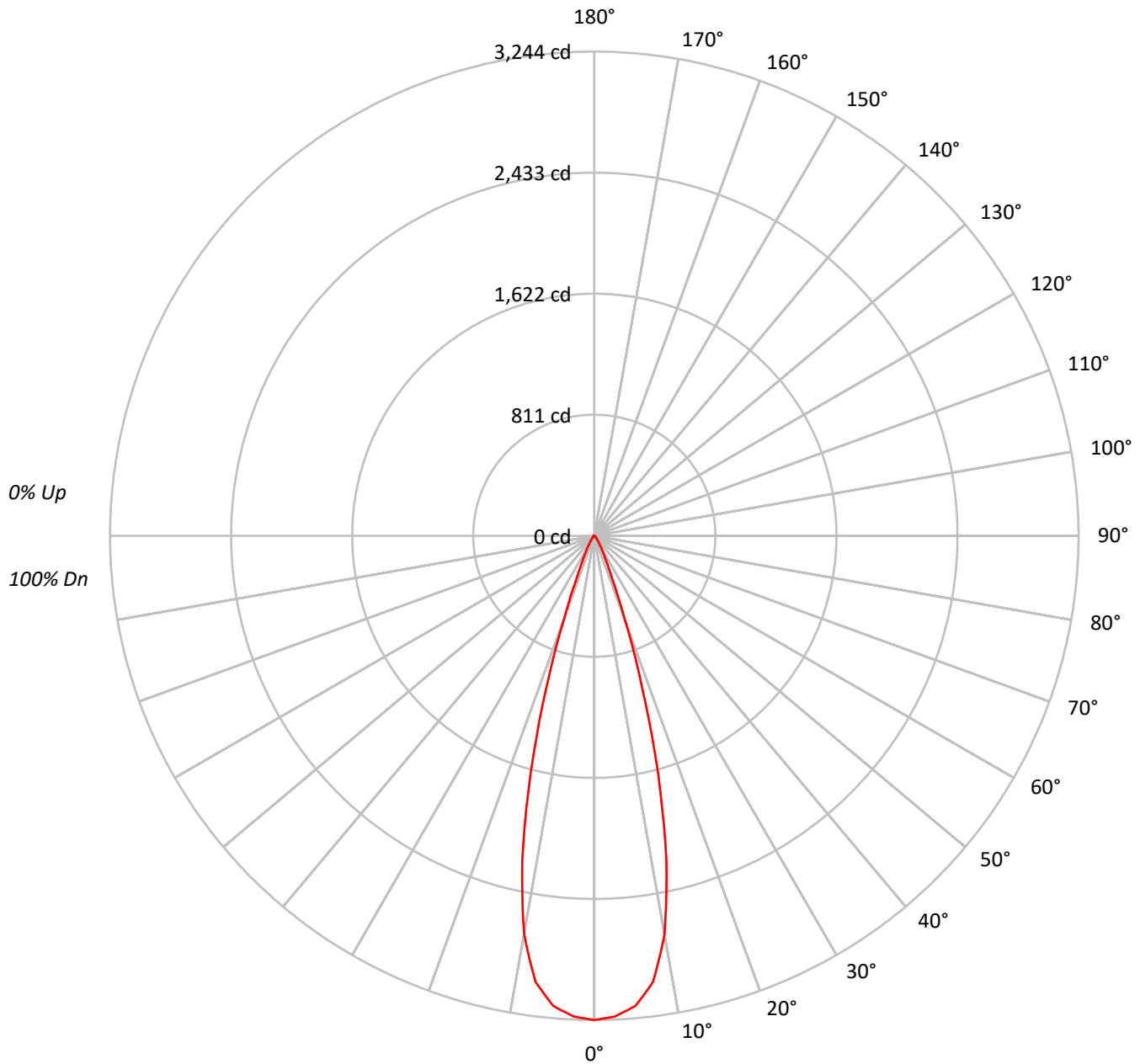
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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		
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°	1600770
5°	1565778
10°	1357635
15°	841466
20°	308411
25°	103106
30°	50590
35°	25237
40°	15651
45°	9908
50°	7062
55°	5763
60°	4934
65°	3969
70°	4905
75°	4766
80°	4830
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	32.6
10°-20°	435.0	49.2
20°-30°	106.1	12.0
30°-40°	29.0	3.3
40°-50°	11.7	1.3
50°-60°	6.3	0.7
60°-70°	3.8	0.4
70°-80°	2.9	0.3
80°-90°	0.7	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°	829.2	93.9
0°-40°	858.3	97.1
0°-60°	876.2	99.2
0°-90°	883.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3244	
5°	3162	288
15°	1647	435
25°	189	106
35°	42	29
45°	14	12
55°	7	6
65°	3	4
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3244.5
2.5°	3222.7
5°	3161.5
7.5°	3015.7
10°	2709.9
12.5°	2230.6
15°	1647.4
17.5°	1061.7
20°	587.4
22.5°	313.4
25°	189.4
27.5°	128.2
30°	88.8
32.5°	60.3
35°	41.9
37.5°	31.0
40°	24.3
42.5°	18.4
45°	14.2
47.5°	11.7
50°	9.2
52.5°	8.4
55°	6.7
57.5°	5.9
60°	5.0
62.5°	4.2
65°	3.4
67.5°	3.4
70°	3.4
72.5°	3.4
75°	2.5
77.5°	2.5
80°	1.7
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)