

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: P432078

Luminaire Tested: **LAM4B108R109030DE010x1MW**

Issue Date: 11/23/2020

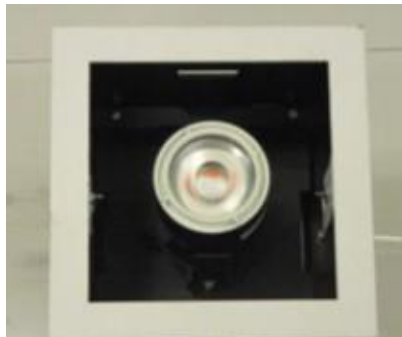
Test Information

Test Method: LM-41-14
Report Number: P432078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R109030DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.2 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

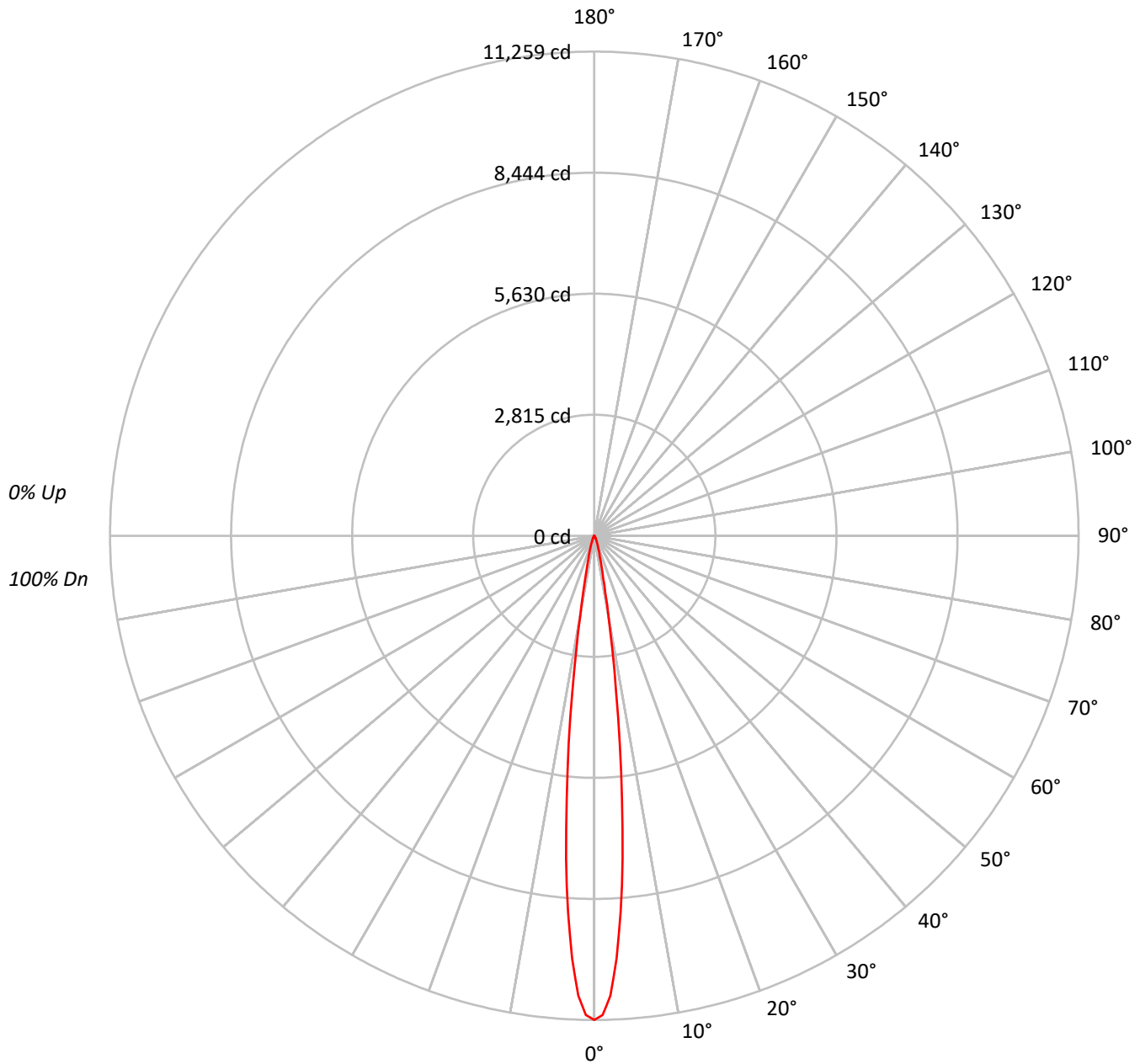
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5554960
5°	3731320
10°	952283
15°	246504
20°	110469
25°	52533
30°	28200
35°	16383
40°	12752
45°	6908
50°	5680
55°	4301
60°	4934
65°	2919
70°	3606
75°	4766
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	67.4
10°-20°	164.8	21.5
20°-30°	48.1	6.3
30°-40°	18.3	2.4
40°-50°	8.7	1.1
50°-60°	5.3	0.7
60°-70°	2.8	0.4
70°-80°	2.3	0.3
80°-90°	0.0	0.0
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°	730.8	95.1
0°-40°	749.1	97.5
0°-60°	763.1	99.3
0°-90°	768.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11259	
5°	7534	518
15°	483	165
25°	96	48
35°	27	18
45°	10	9
55°	5	5
65°	2	3
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11259.0
1°	11150.1
2°	10699.6
3°	9840.8
4°	8779.0
5°	7534.0
6°	6157.9
7°	4888.2
8°	3650.7
9°	2660.7
10°	1900.8
11°	1346.4
12°	997.4
13°	757.4
14°	601.4
15°	482.6
17.5°	314.3
20°	210.4
22.5°	141.1
25°	96.5
27.5°	66.8
30°	49.5
32.5°	34.7
35°	27.2
37.5°	22.3
40°	19.8
42.5°	14.9
45°	9.9
47.5°	7.4
50°	7.4
52.5°	7.4
55°	5.0
57.5°	5.0
60°	5.0
62.5°	2.5
65°	2.5
67.5°	2.5
70°	2.5
72.5°	2.5
75°	2.5
77.5°	2.5
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)