

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: P432211

Luminaire Tested: **LAM4B108R359730DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R359730DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 718.2 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

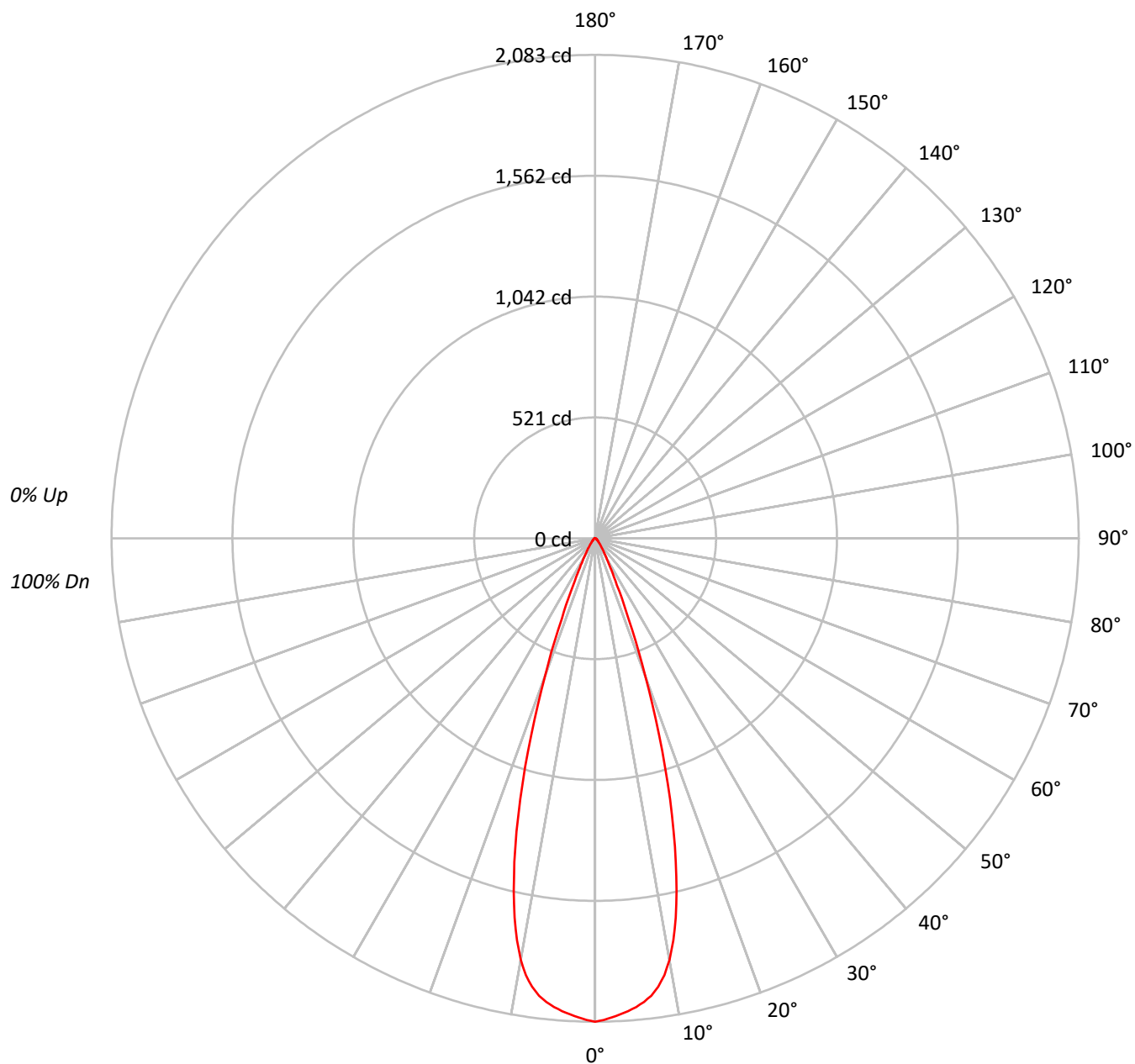
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1027858
5°	1004148
10°	924077
15°	667901
20°	329937
25°	121017
30°	54578
35°	29694
40°	18420
45°	12490
50°	9364
55°	8000
60°	7006
65°	6654
70°	6203
75°	5528
80°	5967
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	26.2
10°-20°	344.3	47.9
20°-30°	119.9	16.7
30°-40°	33.2	4.6
40°-50°	14.5	2.0
50°-60°	8.4	1.2
60°-70°	5.6	0.8
70°-80°	3.1	0.4
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°	652.6	90.9
0°-40°	685.8	95.5
0°-60°	708.6	98.7
0°-90°	718.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	718.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2083	
5°	2028	188
15°	1308	344
25°	222	120
35°	49	33
45°	18	14
55°	9	8
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2083.3
1°	2076.1
2°	2065.4
3°	2054.7
4°	2042.5
5°	2027.5
6°	2008.9
7°	1986.0
8°	1951.0
9°	1906.0
10°	1844.5
11°	1765.8
12°	1670.8
13°	1559.2
14°	1437.0
15°	1307.6
16°	1169.6
17°	1030.9
18°	891.5
19°	757.1
20°	628.4
22.5°	374.6
25°	222.3
26°	185.2
27°	154.4
28°	130.8
29°	111.5
30°	95.8
32.5°	67.9
35°	49.3
37.5°	37.2
40°	28.6
42.5°	22.2
45°	17.9
47.5°	15.0
50°	12.2
52.5°	10.7
55°	9.3
57.5°	7.9
60°	7.1
62.5°	6.4
65°	5.7
67.5°	5.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	2.9
77.5°	2.1
80°	2.1
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	4.3
72.5°	3.6



(END OF REPORT)