

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: P432209

Luminaire Tested: **LAM4B108R359727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432209
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: LAM4B108R359727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.3 lumens
Efficiency: N/A
Efficacy: 58.8 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

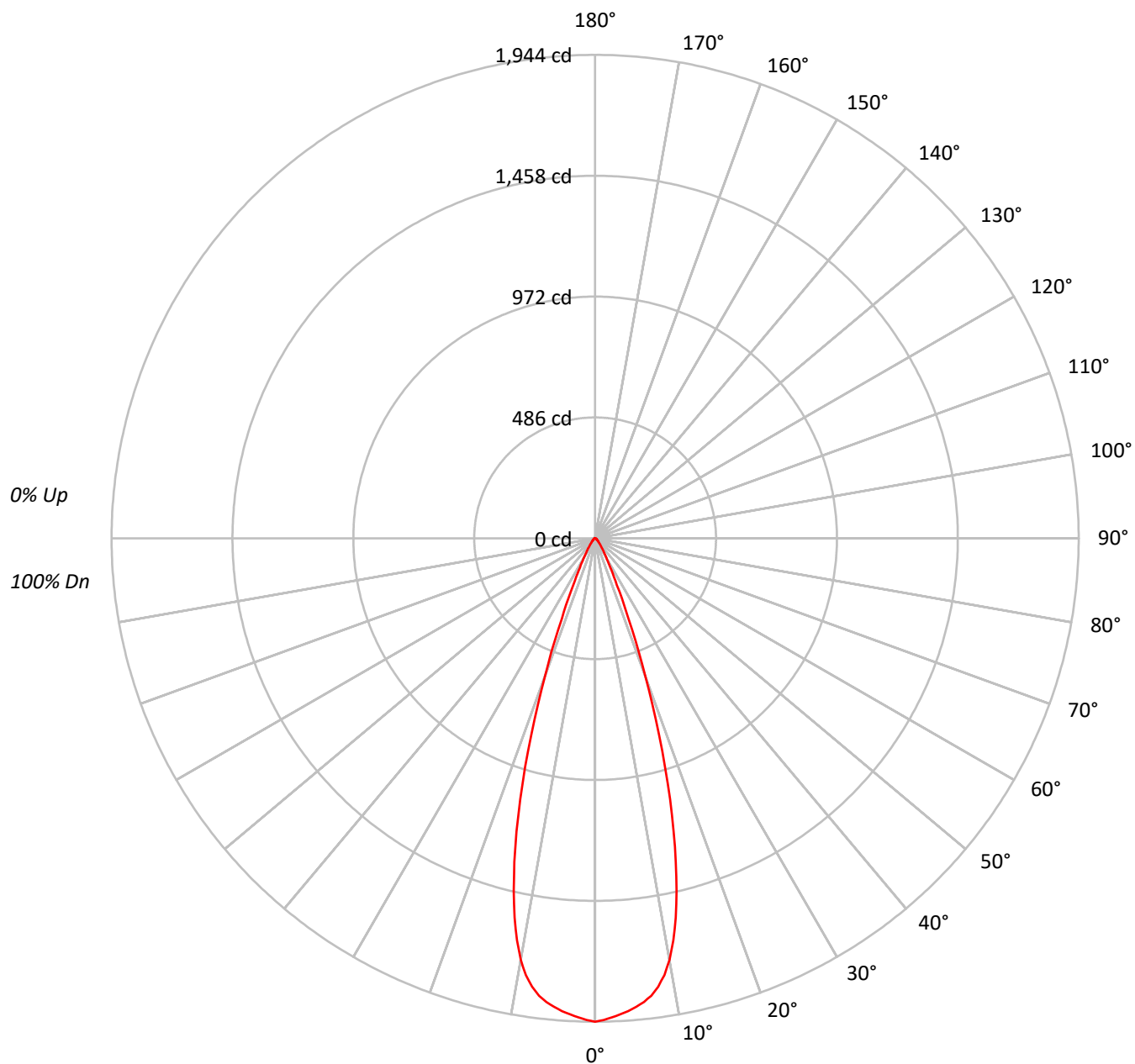
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	959229
5°	937089
10°	862355
15°	623310
20°	307938
25°	112960
30°	50932
35°	27706
40°	17196
45°	11652
50°	8673
55°	7484
60°	6611
65°	6187
70°	5770
75°	5147
80°	5683
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	26.2
10°-20°	321.3	47.9
20°-30°	111.9	16.7
30°-40°	31.0	4.6
40°-50°	13.5	2.0
50°-60°	7.8	1.2
60°-70°	5.3	0.8
70°-80°	2.9	0.4
80°-90°	0.8	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°	609.0	90.9
0°-40°	640.0	95.5
0°-60°	661.3	98.7
0°-90°	670.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1944	
5°	1892	176
15°	1220	321
25°	208	112
35°	46	31
45°	17	13
55°	9	8
65°	5	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1944.2
1°	1937.5
2°	1927.5
3°	1917.5
4°	1906.1
5°	1892.1
6°	1874.8
7°	1853.4
8°	1820.7
9°	1778.7
10°	1721.3
11°	1647.9
12°	1559.2
13°	1455.1
14°	1341.0
15°	1220.3
16°	1091.5
17°	962.1
18°	832.0
19°	706.5
20°	586.5
22.5°	349.6
25°	207.5
26°	172.8
27°	144.1
28°	122.1
29°	104.1
30°	89.4
32.5°	63.4
35°	46.0
37.5°	34.7
40°	26.7
42.5°	20.7
45°	16.7
47.5°	14.0
50°	11.3
52.5°	10.0
55°	8.7
57.5°	7.3
60°	6.7
62.5°	6.0
65°	5.3
67.5°	4.7



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CANDELA DISTRIBUTION (continued):

	0°
75°	2.7
77.5°	2.0
80°	2.0
82.5°	1.3
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	4.0
72.5°	3.3



(END OF REPORT)