

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: P432203

Luminaire Tested: **LAM4B108R359040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432203
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: LAM4B108R359040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 865.7 lumens
Efficiency: N/A
Efficacy: 75.9 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

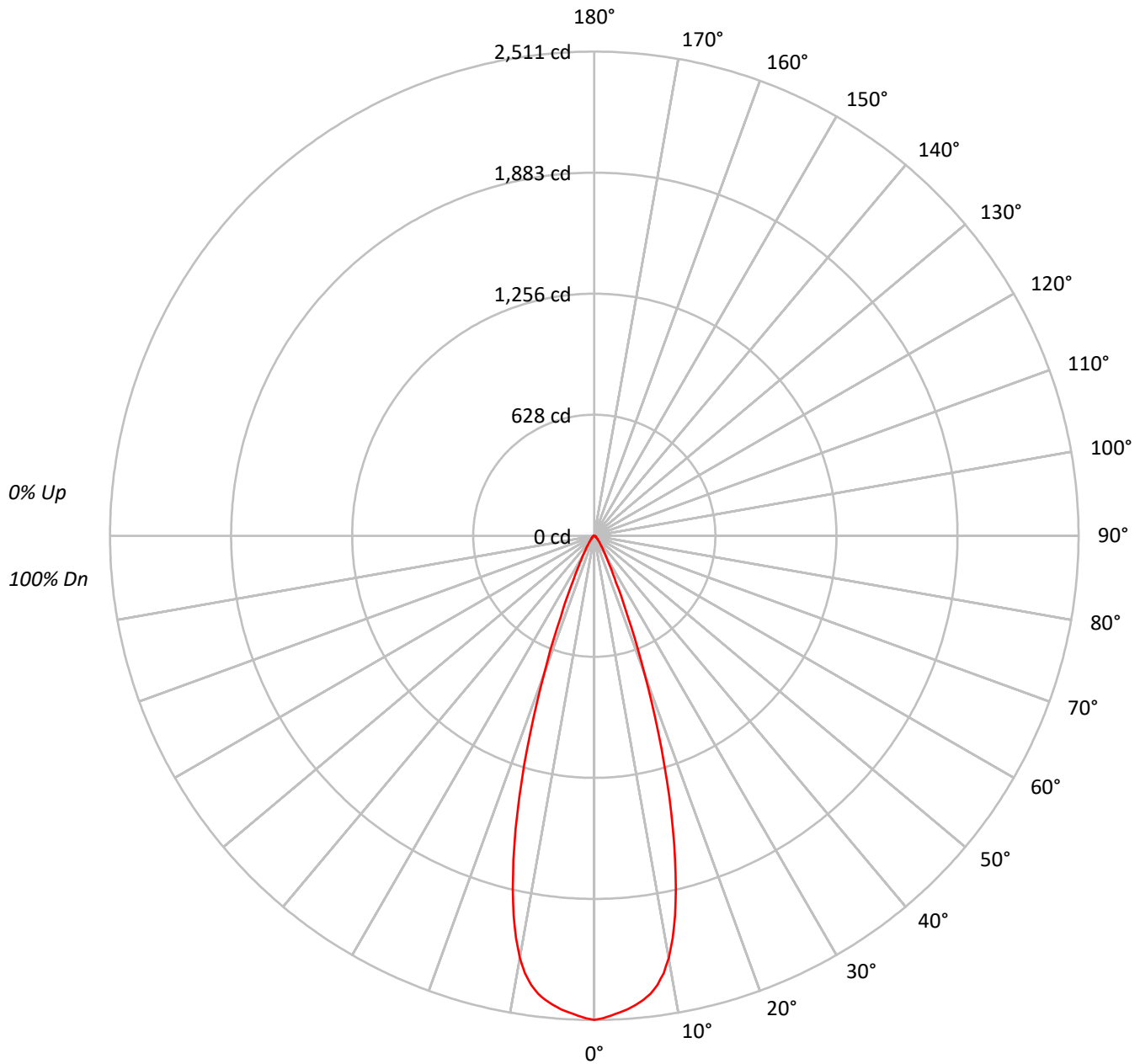
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	105	103		102	101	100		99	98	97
2	110	106	103	100		108	104	101	99		101	99	97		98	96	95		96	94	93
3	106	101	97	94		104	100	96	93		97	94	92		95	92	90		93	91	89
4	102	96	92	89		101	95	91	88		93	90	87		91	88	86		90	87	85
5	99	92	88	84		97	91	87	84		90	86	83		88	85	83		87	84	82
6	96	89	84	81		94	88	84	80		87	83	80		85	82	79		84	81	79
7	92	85	81	77		91	85	80	77		84	80	77		82	79	76		81	78	76
8	90	82	78	74		88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72		86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69		83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1238777
5°	1210228
10°	1113752
15°	804996
20°	397668
25°	145895
30°	65801
35°	35837
40°	22220
45°	15001
50°	11206
55°	9634
60°	8486
65°	8055
70°	7501
75°	6481
80°	7387
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	26.2
10°-20°	415.0	47.9
20°-30°	144.5	16.7
30°-40°	40.1	4.6
40°-50°	17.4	2.0
50°-60°	10.1	1.2
60°-70°	6.8	0.8
70°-80°	3.7	0.4
80°-90°	1.1	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°	786.5	90.9
0°-40°	826.6	95.5
0°-60°	854.1	98.7
0°-90°	865.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2511	
5°	2444	227
15°	1576	415
25°	268	144
35°	60	40
45°	22	17
55°	11	10
65°	7	7
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2510.8
1°	2502.2
2°	2489.3
3°	2476.4
4°	2461.7
5°	2443.6
6°	2421.2
7°	2393.7
8°	2351.4
9°	2297.2
10°	2223.1
11°	2128.3
12°	2013.7
13°	1879.3
14°	1731.9
15°	1576.0
16°	1409.7
17°	1242.5
18°	1074.5
19°	912.5
20°	757.4
22.5°	451.5
25°	268.0
26°	223.2
27°	186.1
28°	157.7
29°	134.4
30°	115.5
32.5°	81.9
35°	59.5
37.5°	44.8
40°	34.5
42.5°	26.7
45°	21.5
47.5°	18.1
50°	14.6
52.5°	12.9
55°	11.2
57.5°	9.5
60°	8.6
62.5°	7.8
65°	6.9
67.5°	6.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	3.4
77.5°	2.6
80°	2.6
82.5°	1.7
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°	5.2
72.5°	4.3



(END OF REPORT)