

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: P432974

Luminaire Tested: **LAM4B308R659050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R659050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2703.6 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

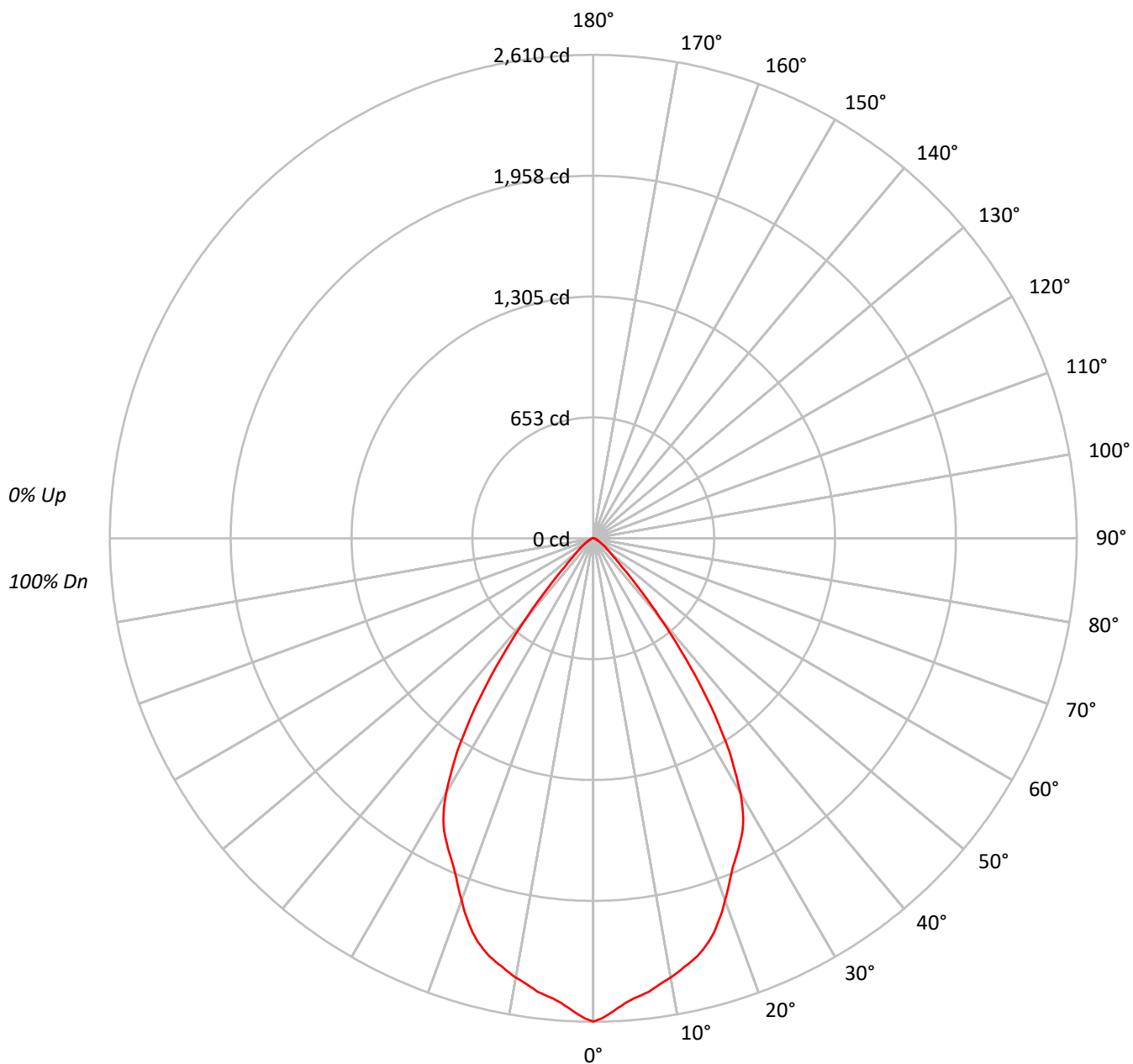
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1287573
5°	1235585
10°	1206336
15°	1172607
20°	1092038
25°	1008689
30°	905490
35°	665186
40°	359257
45°	154481
50°	86044
55°	60299
60°	38681
65°	29419
70°	24235
75°	21350
80°	23867
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	8.7
10°-20°	640.6	23.7
20°-30°	849.2	31.4
30°-40°	672.5	24.9
40°-50°	200.3	7.4
50°-60°	64.1	2.4
60°-70°	25.6	0.9
70°-80°	12.2	0.5
80°-90°	3.4	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°	1725.5	63.8
0°-40°	2398.0	88.7
0°-60°	2662.4	98.5
0°-90°	2703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2703.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2610	
5°	2495	236
15°	2296	641
25°	1853	849
35°	1104	672
45°	221	200
55°	70	64
65°	25	26
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2609.7
1°	2592.9
2°	2567.7
3°	2539.6
4°	2514.4
5°	2494.8
6°	2480.8
7°	2466.7
8°	2444.3
9°	2424.7
10°	2407.9
11°	2388.3
12°	2365.8
13°	2346.2
14°	2323.8
15°	2295.7
16°	2264.9
17°	2225.7
18°	2180.8
19°	2133.2
20°	2079.9
21°	2029.5
22°	1976.2
23°	1928.5
24°	1889.3
25°	1852.9
26°	1813.6
27°	1774.4
28°	1723.9
29°	1662.2
30°	1589.4
32.5°	1367.9
35°	1104.4
37.5°	818.5
40°	557.8
42.5°	353.2
45°	221.4
47.5°	148.6
50°	112.1
52.5°	89.7
55°	70.1
57.5°	53.3
60°	39.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.6
70°	16.8
72.5°	14.0
75°	11.2
77.5°	8.4
80°	8.4
82.5°	5.6
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	30.8
65°	25.2



(END OF REPORT)