

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: P432968

Luminaire Tested: **LAM4B308R659035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432968
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: LAM4B308R659035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2424.3 lumens
Efficiency: N/A
Efficacy: 76.0 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

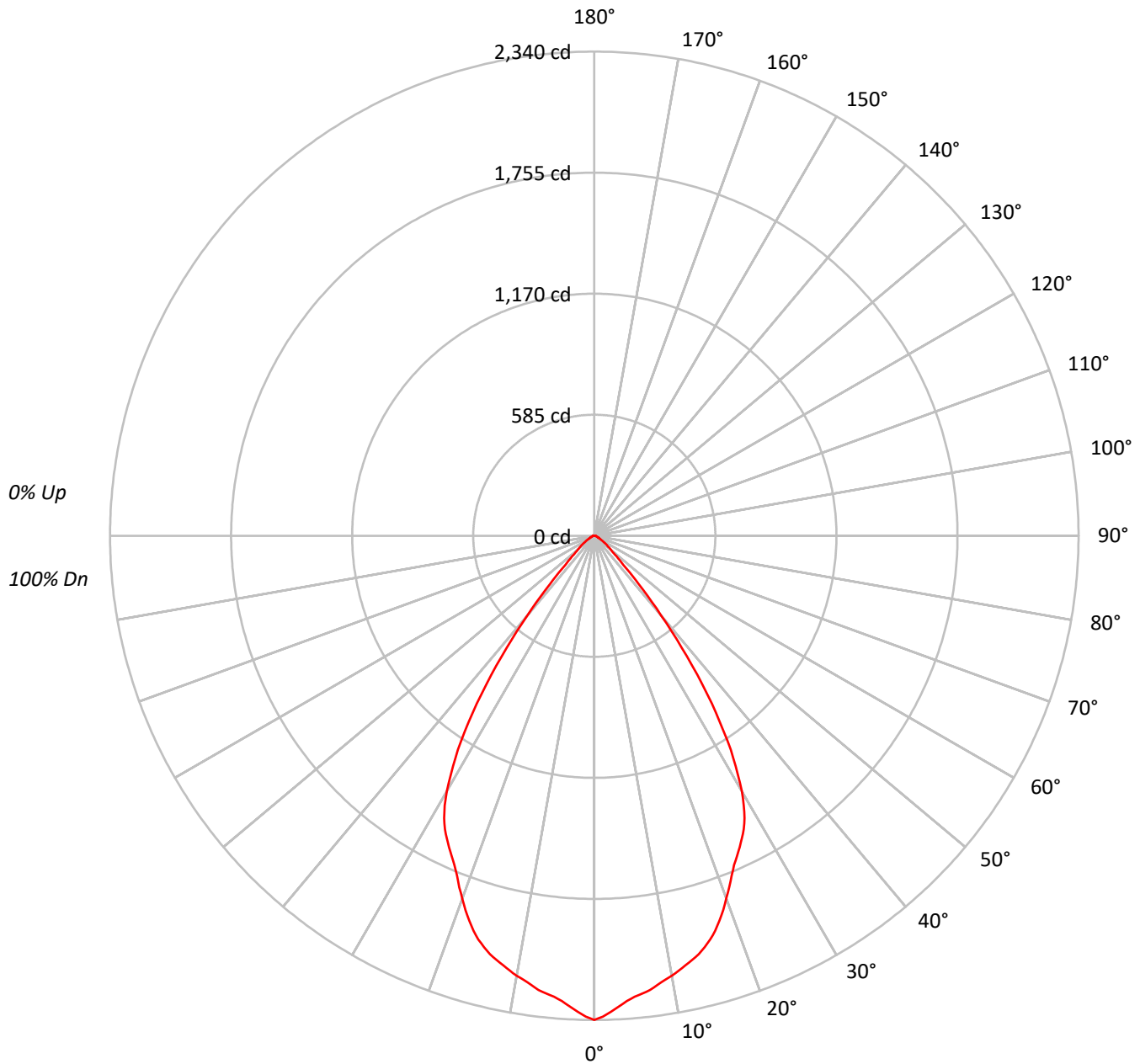
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	106	103		104	102	100		100	99	97		97	96	94
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	81		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	68
6	85	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	51
10	69	59	53	49		68	58	53	49		58	52	48		57	52	48		56	51	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1154557
5°	1107906
10°	1081689
15°	1051500
20°	979206
25°	904440
30°	811944
35°	596463
40°	322159
45°	138572
50°	77140
55°	54019
60°	34734
65°	26384
70°	21782
75°	19253
80°	21309
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	8.7
10°-20°	574.4	23.7
20°-30°	761.4	31.4
30°-40°	603.0	24.9
40°-50°	179.6	7.4
50°-60°	57.5	2.4
60°-70°	22.9	0.9
70°-80°	10.9	0.5
80°-90°	3.1	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°	1547.3	63.8
0°-40°	2150.3	88.7
0°-60°	2387.4	98.5
0°-90°	2424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2340	
5°	2237	211
15°	2059	574
25°	1661	761
35°	990	603
45°	199	180
55°	63	57
65°	23	23
75°	10	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2340.1
1°	2325.0
2°	2302.4
3°	2277.3
4°	2254.6
5°	2237.0
6°	2224.5
7°	2211.9
8°	2191.8
9°	2174.2
10°	2159.1
11°	2141.5
12°	2121.4
13°	2103.8
14°	2083.7
15°	2058.6
16°	2030.9
17°	1995.7
18°	1955.5
19°	1912.8
20°	1865.0
21°	1819.8
22°	1772.0
23°	1729.3
24°	1694.1
25°	1661.4
26°	1626.3
27°	1591.1
28°	1545.8
29°	1490.5
30°	1425.2
32.5°	1226.6
35°	990.3
37.5°	733.9
40°	500.2
42.5°	316.7
45°	198.6
47.5°	133.2
50°	100.5
52.5°	80.4
55°	62.8
57.5°	47.8
60°	35.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	17.6
70°	15.1
72.5°	12.6
75°	10.1
77.5°	7.5
80°	7.5
82.5°	5.0
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	27.6
65°	22.6



(END OF REPORT)