

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: P433280

Luminaire Tested: **LAM4B408R659035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433280
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: LAM4B408R659035DE01021MMS
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: 3218.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

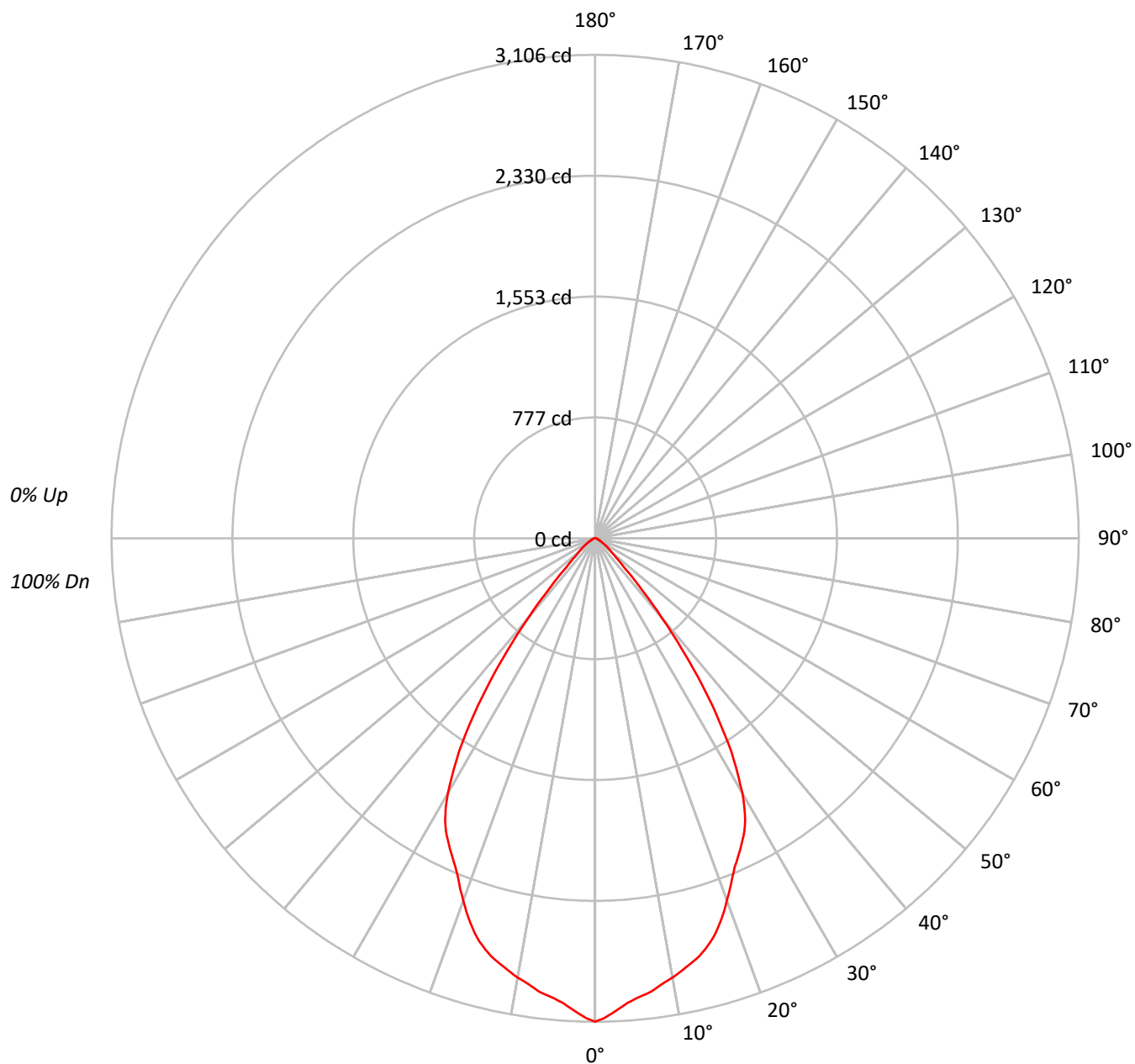
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1532536
5°	1470637
10°	1435789
15°	1395718
20°	1299798
25°	1200530
30°	1077712
35°	791730
40°	427592
45°	183925
50°	102470
55°	71739
60°	46082
65°	35023
70°	28851
75°	25353
80°	28413
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	8.7
10°-20°	762.4	23.7
20°-30°	1010.7	31.4
30°-40°	800.4	24.9
40°-50°	238.4	7.4
50°-60°	76.3	2.4
60°-70°	30.5	0.9
70°-80°	14.5	0.5
80°-90°	4.1	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°	2053.8	63.8
0°-40°	2854.2	88.7
0°-60°	3168.9	98.5
0°-90°	3218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3218.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3106	
5°	2969	281
15°	2732	762
25°	2205	1011
35°	1314	800
45°	264	238
55°	83	76
65°	30	30
75°	13	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3106.2
1°	3086.1
2°	3056.1
3°	3022.7
4°	2992.7
5°	2969.4
6°	2952.7
7°	2936.0
8°	2909.3
9°	2886.0
10°	2865.9
11°	2842.6
12°	2815.9
13°	2792.5
14°	2765.8
15°	2732.5
16°	2695.8
17°	2649.1
18°	2595.7
19°	2539.0
20°	2475.6
21°	2415.5
22°	2352.1
23°	2295.4
24°	2248.7
25°	2205.3
26°	2158.6
27°	2111.9
28°	2051.9
29°	1978.5
30°	1891.7
32.5°	1628.1
35°	1314.5
37.5°	974.2
40°	663.9
42.5°	420.4
45°	263.6
47.5°	176.8
50°	133.5
52.5°	106.8
55°	83.4
57.5°	63.4
60°	46.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	23.4
70°	20.0
72.5°	16.7
75°	13.3
77.5°	10.0
80°	10.0
82.5°	6.7
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	36.7
65°	30.0



(END OF REPORT)