

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: P433283

Luminaire Tested: **LAM4B408R659040DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433283
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: LAM4B408R659040DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3421.9 lumens
Efficiency: N/A
Efficacy: 83.1 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

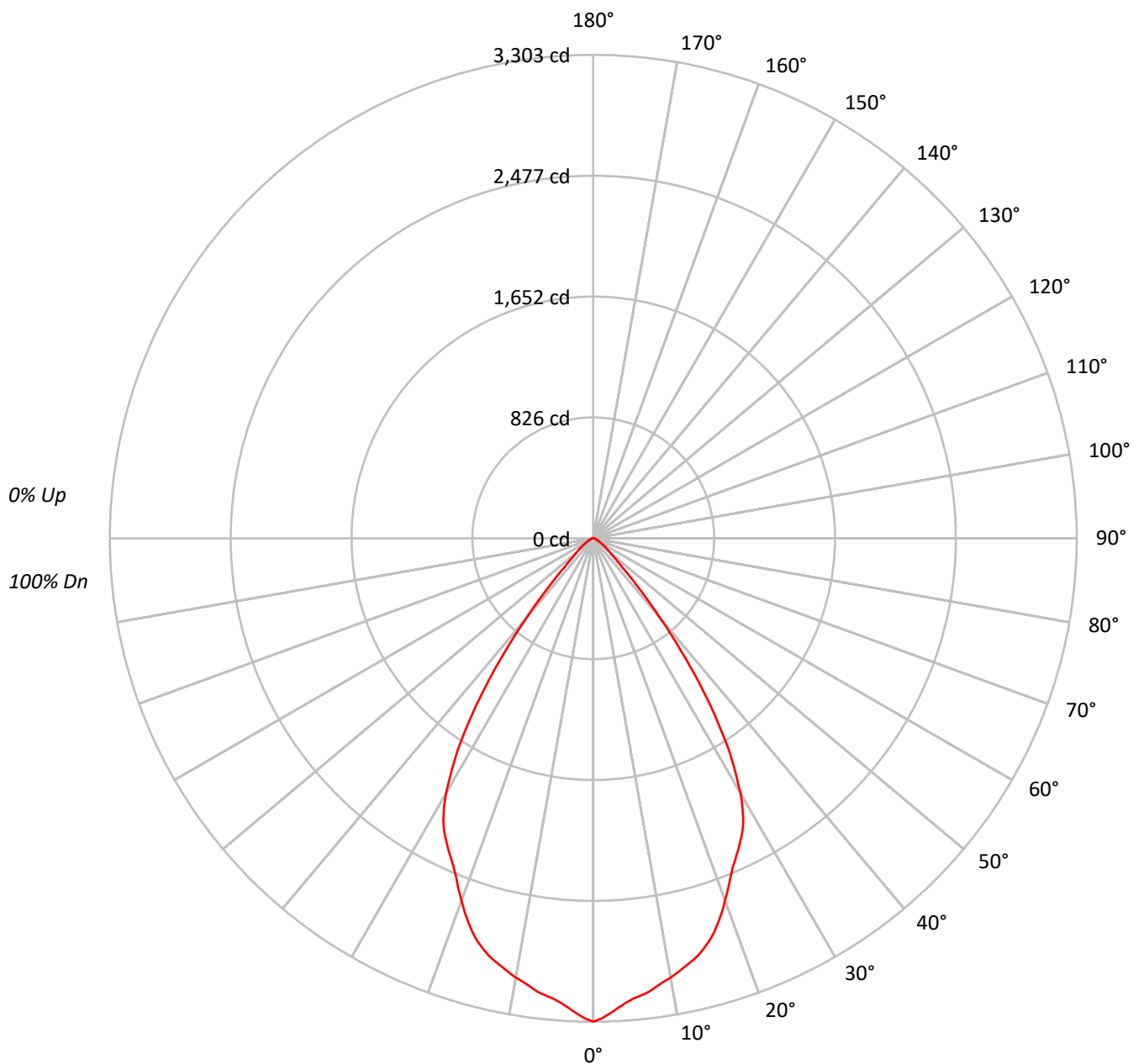
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1629633
5°	1563846
10°	1526819
15°	1484185
20°	1382177
25°	1276635
30°	1146020
35°	841902
40°	454707
45°	195578
50°	108917
55°	76298
60°	49042
65°	37241
70°	30726
75°	27069
80°	30117
85°	19813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.4	8.7
10°-20°	810.8	23.7
20°-30°	1074.8	31.4
30°-40°	851.1	24.9
40°-50°	253.5	7.4
50°-60°	81.2	2.4
60°-70°	32.4	0.9
70°-80°	15.4	0.5
80°-90°	4.3	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°	2184.0	63.8
0°-40°	3035.1	88.7
0°-60°	3369.8	98.5
0°-90°	3421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3303	
5°	3158	298
15°	2906	811
25°	2345	1075
35°	1398	851
45°	280	254
55°	89	81
65°	32	32
75°	14	15
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3303.0
1°	3281.8
2°	3249.8
3°	3214.3
4°	3182.4
5°	3157.6
6°	3139.8
7°	3122.1
8°	3093.7
9°	3068.9
10°	3047.6
11°	3022.8
12°	2994.4
13°	2969.5
14°	2941.2
15°	2905.7
16°	2866.7
17°	2817.0
18°	2760.2
19°	2699.9
20°	2632.5
21°	2568.6
22°	2501.2
23°	2440.9
24°	2391.2
25°	2345.1
26°	2295.5
27°	2245.8
28°	2181.9
29°	2103.9
30°	2011.6
32.5°	1731.3
35°	1397.8
37.5°	1036.0
40°	706.0
42.5°	447.0
45°	280.3
47.5°	188.0
50°	141.9
52.5°	113.5
55°	88.7
57.5°	67.4
60°	49.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	24.8
70°	21.3
72.5°	17.7
75°	14.2
77.5°	10.6
80°	10.6
82.5°	7.1
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	39.0
65°	31.9



(END OF REPORT)