

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: P433272

Luminaire Tested: **LAM4B408R659024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433272
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: LAM4B408R659024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.4 lumens
Efficiency: N/A
Efficacy: 66.5 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

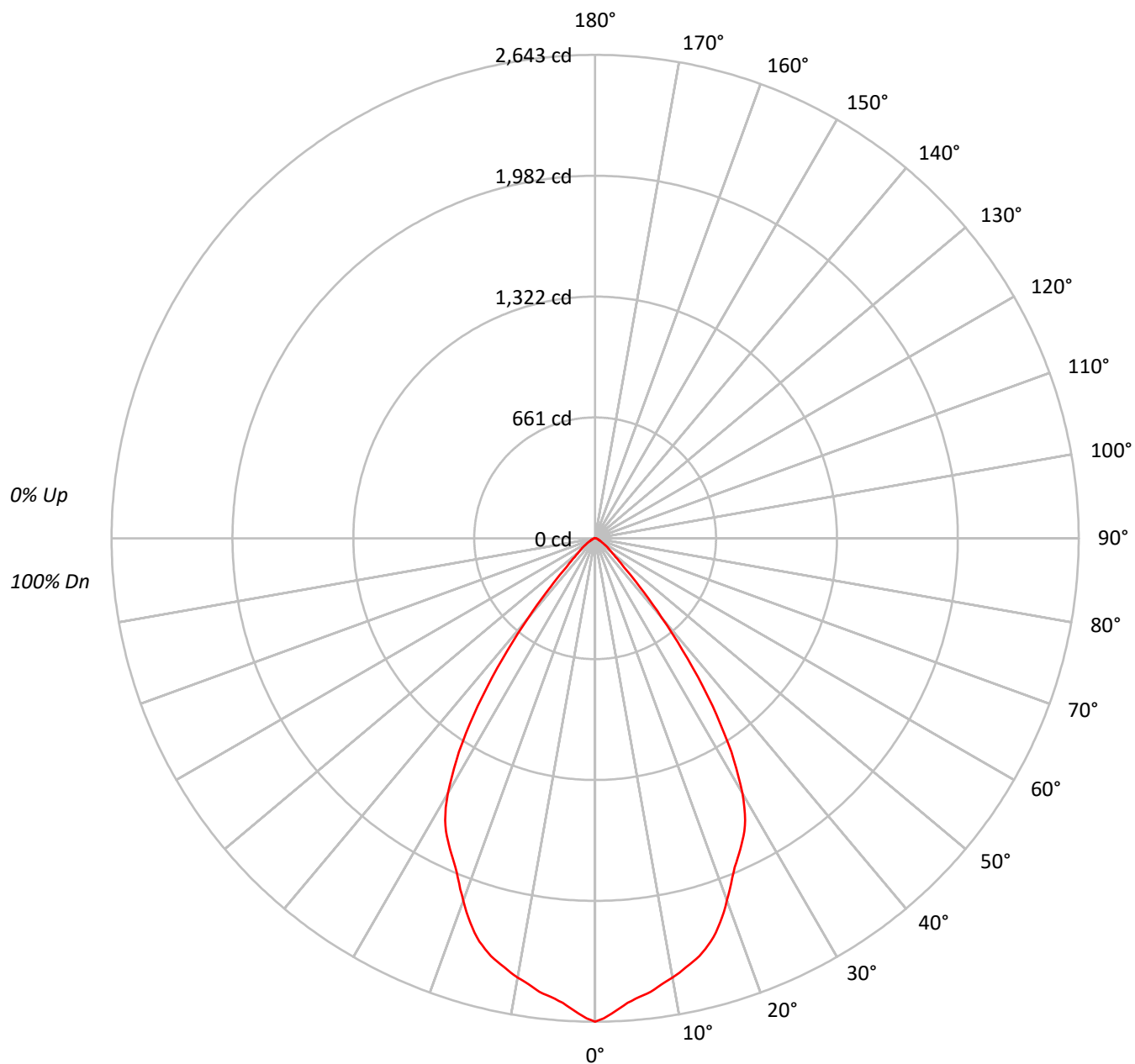
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93						
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85						
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79						
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72						
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67						
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62						
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58						
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54						
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50						
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1304150
5°	1251483
10°	1221866
15°	1187726
20°	1106109
25°	1021646
30°	917112
35°	673739
40°	363895
45°	156504
50°	87195
55°	61073
60°	39174
65°	29886
70°	24523
75°	21732
80°	24151
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	8.7
10°-20°	648.8	23.7
20°-30°	860.1	31.4
30°-40°	681.1	24.9
40°-50°	202.9	7.4
50°-60°	65.0	2.4
60°-70°	25.9	0.9
70°-80°	12.4	0.5
80°-90°	3.5	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°	1747.7	63.8
0°-40°	2428.9	88.7
0°-60°	2696.7	98.5
0°-90°	2738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2643	
5°	2527	239
15°	2325	649
25°	1877	860
35°	1119	681
45°	224	203
55°	71	65
65°	26	26
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2643.3
1°	2626.2
2°	2600.7
3°	2572.3
4°	2546.7
5°	2526.9
6°	2512.7
7°	2498.5
8°	2475.8
9°	2455.9
10°	2438.9
11°	2419.0
12°	2396.3
13°	2376.4
14°	2353.7
15°	2325.3
16°	2294.1
17°	2254.3
18°	2208.9
19°	2160.6
20°	2106.7
21°	2055.6
22°	2001.6
23°	1953.4
24°	1913.6
25°	1876.7
26°	1837.0
27°	1797.2
28°	1746.1
29°	1683.6
30°	1609.8
32.5°	1385.5
35°	1118.6
37.5°	829.0
40°	565.0
42.5°	357.7
45°	224.3
47.5°	150.5
50°	113.6
52.5°	90.9
55°	71.0
57.5°	53.9
60°	39.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.9
70°	17.0
72.5°	14.2
75°	11.4
77.5°	8.5
80°	8.5
82.5°	5.7
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	31.2
65°	25.6



(END OF REPORT)