

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: P433311

Luminaire Tested: **LAM4B408R709050DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R709050DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

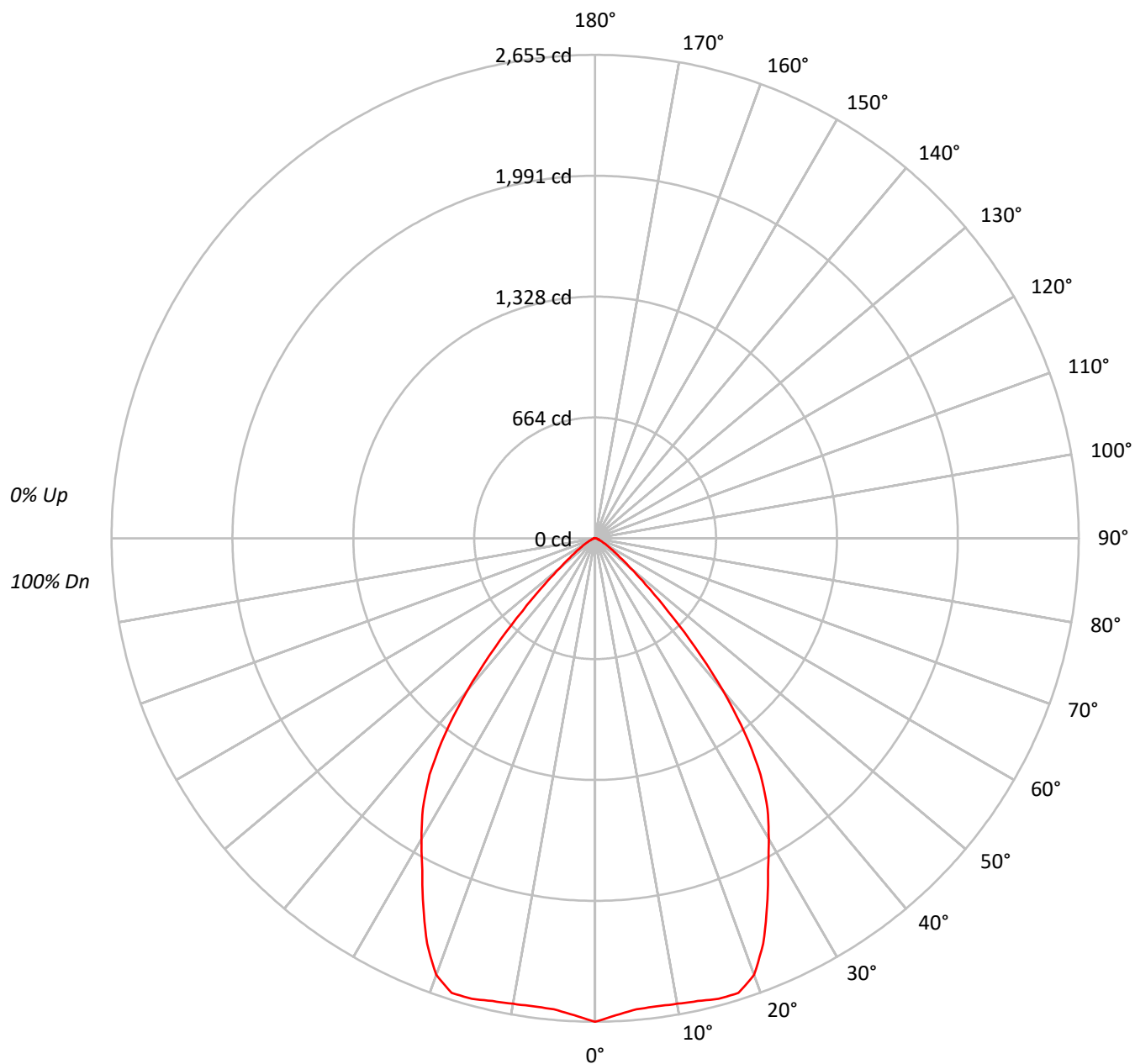
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1310120
5°	1285706
10°	1300572
15°	1337386
20°	1339649
25°	1215392
30°	1085973
35°	953811
40°	702220
45°	393318
50°	193579
55°	108469
60°	65916
65°	43312
70°	32169
75°	28213
80°	21025
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	6.9
10°-20°	737.8	20.4
20°-30°	1023.9	28.3
30°-40°	963.3	26.7
40°-50°	459.8	12.7
50°-60°	121.6	3.4
60°-70°	38.4	1.1
70°-80°	15.6	0.4
80°-90°	4.0	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°	2009.8	55.6
0°-40°	2973.1	82.3
0°-60°	3554.5	98.4
0°-90°	3612.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2655	
5°	2596	248
15°	2618	738
25°	2233	1024
35°	1584	963
45°	564	460
55°	126	122
65°	37	38
75°	15	16
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2655.4
2.5°	2622.0
5°	2596.0
7.5°	2592.3
10°	2596.0
12.5°	2603.4
15°	2618.3
17.5°	2618.3
20°	2551.5
22.5°	2410.6
25°	2232.6
27.5°	2054.6
30°	1906.2
32.5°	1761.6
35°	1583.6
37.5°	1353.6
40°	1090.3
42.5°	812.2
45°	563.7
47.5°	374.6
50°	252.2
52.5°	174.3
55°	126.1
57.5°	89.0
60°	66.8
62.5°	48.2
65°	37.1
67.5°	26.0
70°	22.3
72.5°	18.5
75°	14.8
77.5°	11.1
80°	7.4
82.5°	7.4
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)