

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: P433146

Luminaire Tested: **LAM4B408R359727DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R359727DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.1 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

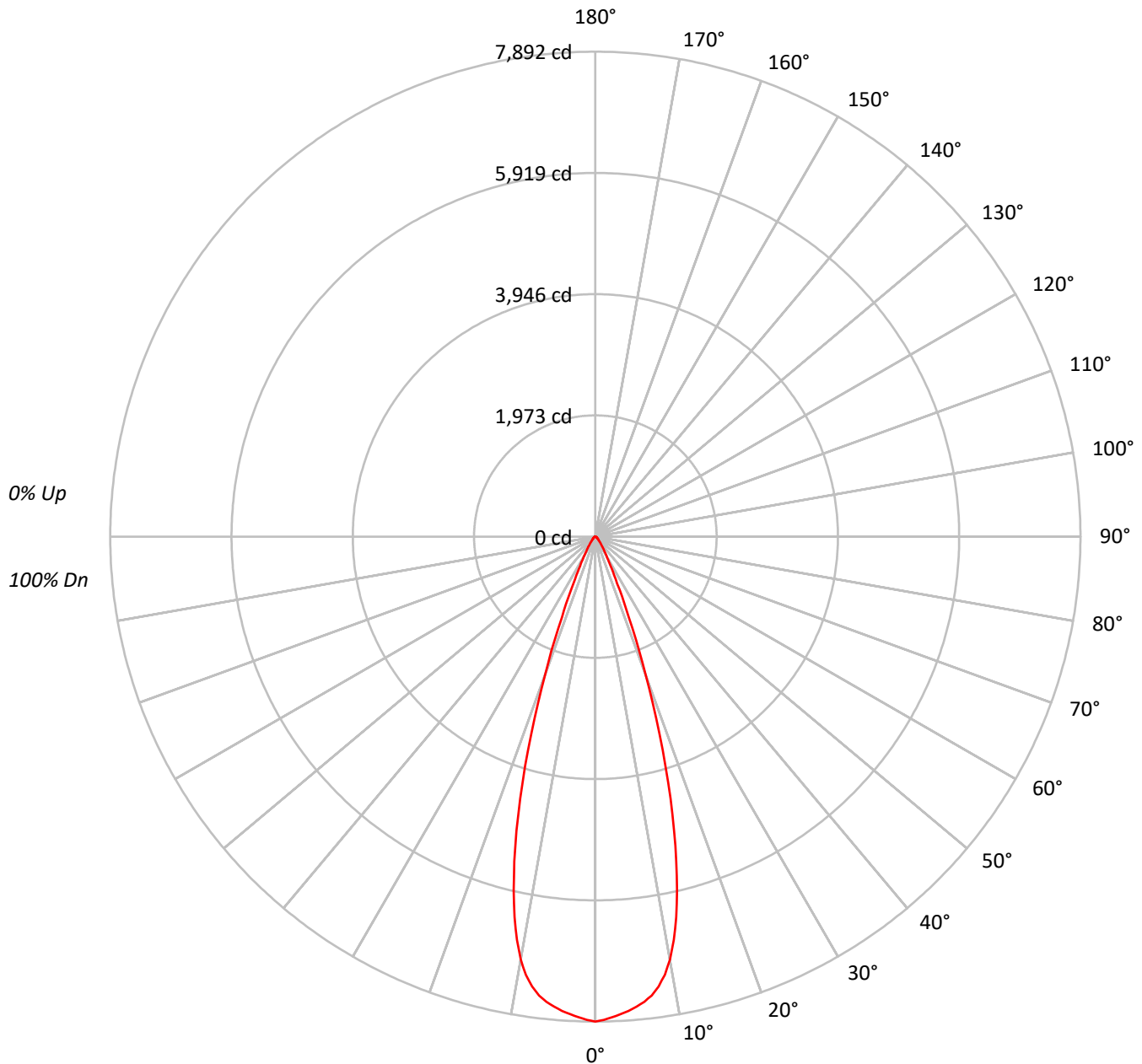
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3893998
5°	3804273
10°	3500873
15°	2530322
20°	1250024
25°	458535
30°	206746
35°	112571
40°	69752
45°	47237
50°	35308
55°	30278
60°	26741
65°	25333
70°	23513
75°	20588
80°	23014
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.7	26.2
10°-20°	1304.4	47.9
20°-30°	454.1	16.7
30°-40°	125.9	4.6
40°-50°	54.7	2.0
50°-60°	31.7	1.2
60°-70°	21.5	0.8
70°-80°	11.8	0.4
80°-90°	3.3	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°	2472.3	90.9
0°-40°	2598.1	95.5
0°-60°	2684.6	98.7
0°-90°	2721.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7892	
5°	7681	714
15°	4954	1304
25°	842	454
35°	187	126
45°	68	55
55°	35	32
65°	22	21
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7892.5
1°	7865.5
2°	7824.8
3°	7784.2
4°	7738.2
5°	7681.3
6°	7610.9
7°	7524.2
8°	7391.5
9°	7220.8
10°	6987.9
11°	6690.0
12°	6329.7
13°	5907.2
14°	5444.1
15°	4953.8
16°	4431.1
17°	3905.6
18°	3377.5
19°	2868.3
20°	2380.8
22.5°	1419.2
25°	842.3
26°	701.5
27°	585.0
28°	495.7
29°	422.5
30°	362.9
32.5°	257.3
35°	186.9
37.5°	140.8
40°	108.3
42.5°	84.0
45°	67.7
47.5°	56.9
50°	46.0
52.5°	40.6
55°	35.2
57.5°	29.8
60°	27.1
62.5°	24.4
65°	21.7
67.5°	19.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	10.8
77.5°	8.1
80°	8.1
82.5°	5.4
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	16.3
72.5°	13.5



(END OF REPORT)