

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: P433196

Luminaire Tested: **LAM4B408R459730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R459730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

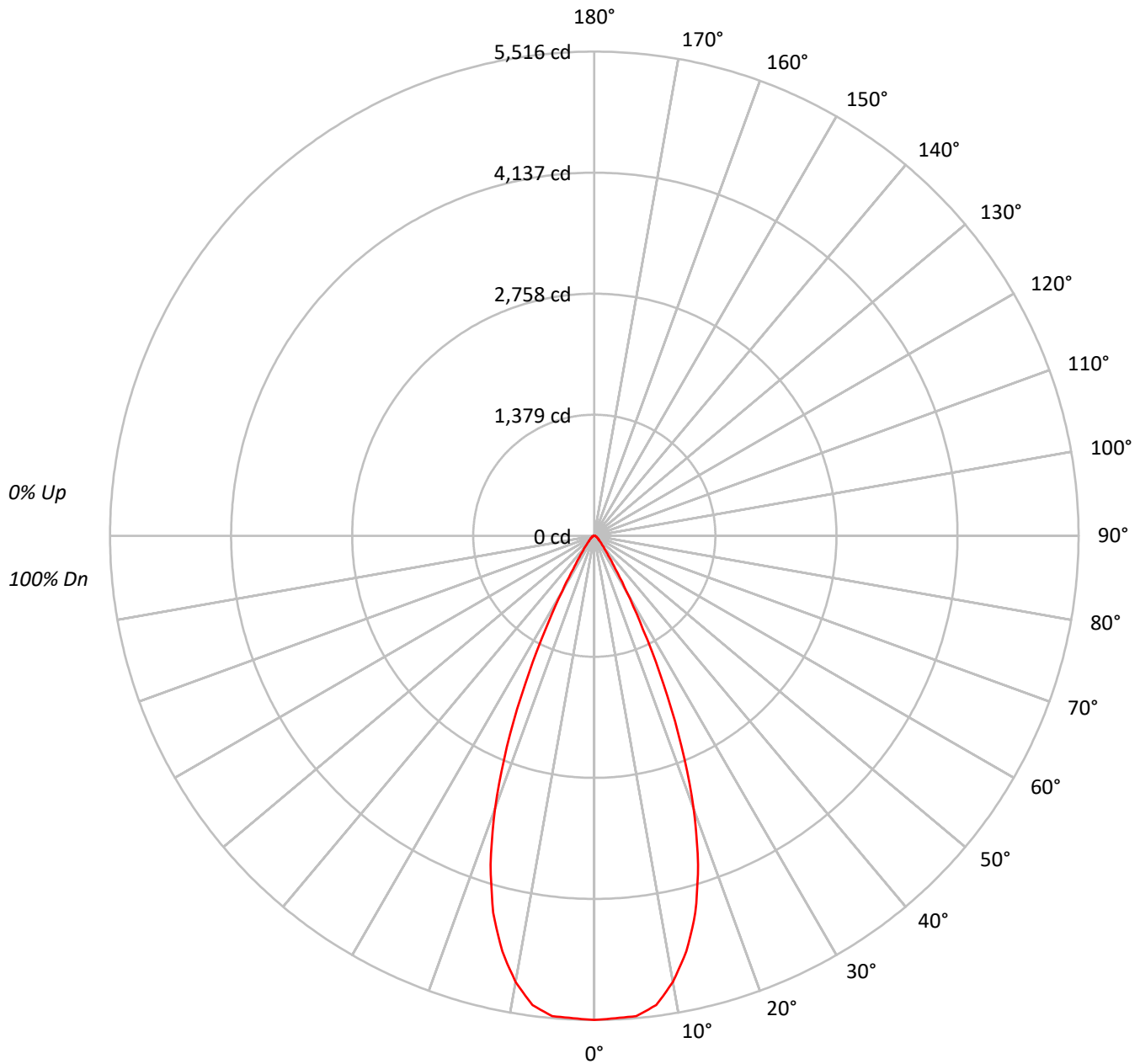
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2721432
5°	2720486
10°	2585864
15°	2271457
20°	1737632
25°	1014405
30°	415201
35°	175572
40°	95708
45°	61820
50°	48280
55°	41805
60°	33846
65°	26734
70°	24668
75°	21732
80°	24435
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.0	17.5
10°-20°	1210.7	41.1
20°-30°	853.0	29.0
30°-40°	210.0	7.1
40°-50°	73.3	2.5
50°-60°	43.4	1.5
60°-70°	24.0	0.8
70°-80°	13.2	0.4
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°	2577.7	87.5
0°-40°	2787.7	94.7
0°-60°	2904.3	98.6
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5516	
5°	5493	514
15°	4447	1211
25°	1863	853
35°	292	210
45°	89	73
55°	49	43
65°	23	24
75°	11	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5515.9
2.5°	5501.6
5°	5493.0
7.5°	5393.0
10°	5161.5
12.5°	4847.1
15°	4447.0
17.5°	3929.7
20°	3309.5
22.5°	2597.9
25°	1863.4
27.5°	1203.2
30°	728.8
32.5°	443.0
35°	291.5
37.5°	205.8
40°	148.6
42.5°	114.3
45°	88.6
47.5°	74.3
50°	62.9
52.5°	54.3
55°	48.6
57.5°	42.9
60°	34.3
62.5°	28.6
65°	22.9
67.5°	20.0
70°	17.1
72.5°	14.3
75°	11.4
77.5°	11.4
80°	8.6
82.5°	5.7
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)