

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: P433216

Luminaire Tested: **LAM4B408R509727DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R509727DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 50 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2953.3 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.74
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

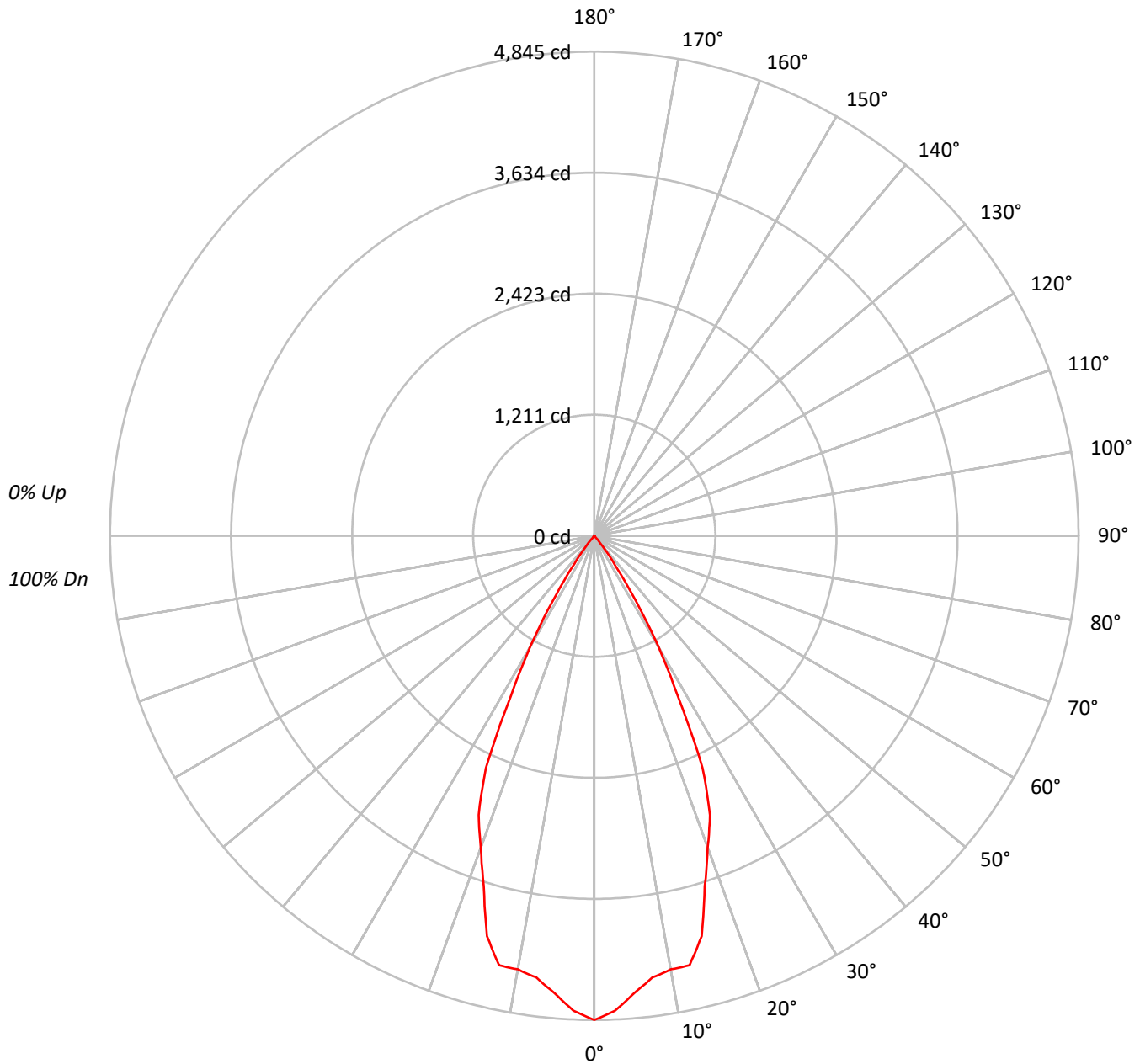
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	103		102	101	100		99
2	110	105	102	99	107	104	100	98	100	98	96		97	95	93		95
3	105	99	95	92	103	98	94	91	95	92	89		93	90	88		91
4	101	94	89	86	99	93	89	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	84	80	87	83	79		85	81	79		84
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	64		71	67	64		70
10	79	70	65	62	78	70	65	62	69	64	61		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	780548
5°	742598
10°	720774
15°	691565
20°	568968
25°	455861
30°	237816
35°	76702
40°	13039
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	14.6
10°-20°	1122.2	38.0
20°-30°	1091.7	37.0
30°-40°	300.5	10.2
40°-50°	6.6	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2646.3	89.6
0°-40°	2946.8	99.8
0°-60°	2953.3	100.0
0°-90°	2953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4845	
5°	4592	432
15°	4146	1122
25°	2564	1092
35°	390	301
45°	0	7
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4845.0
2.5°	4758.5
5°	4591.9
7.5°	4457.6
10°	4406.0
12.5°	4402.1
15°	4146.4
17.5°	3675.1
20°	3318.7
22.5°	3023.0
25°	2564.5
27.5°	1805.3
30°	1278.4
32.5°	773.5
35°	390.0
37.5°	174.3
40°	62.0
42.5°	5.2
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)