

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: P433178

Luminaire Tested: **LAM4B408R459027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433178
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: LAM4B408R459027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098.1 lumens
Efficiency: N/A
Efficacy: 75.2 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

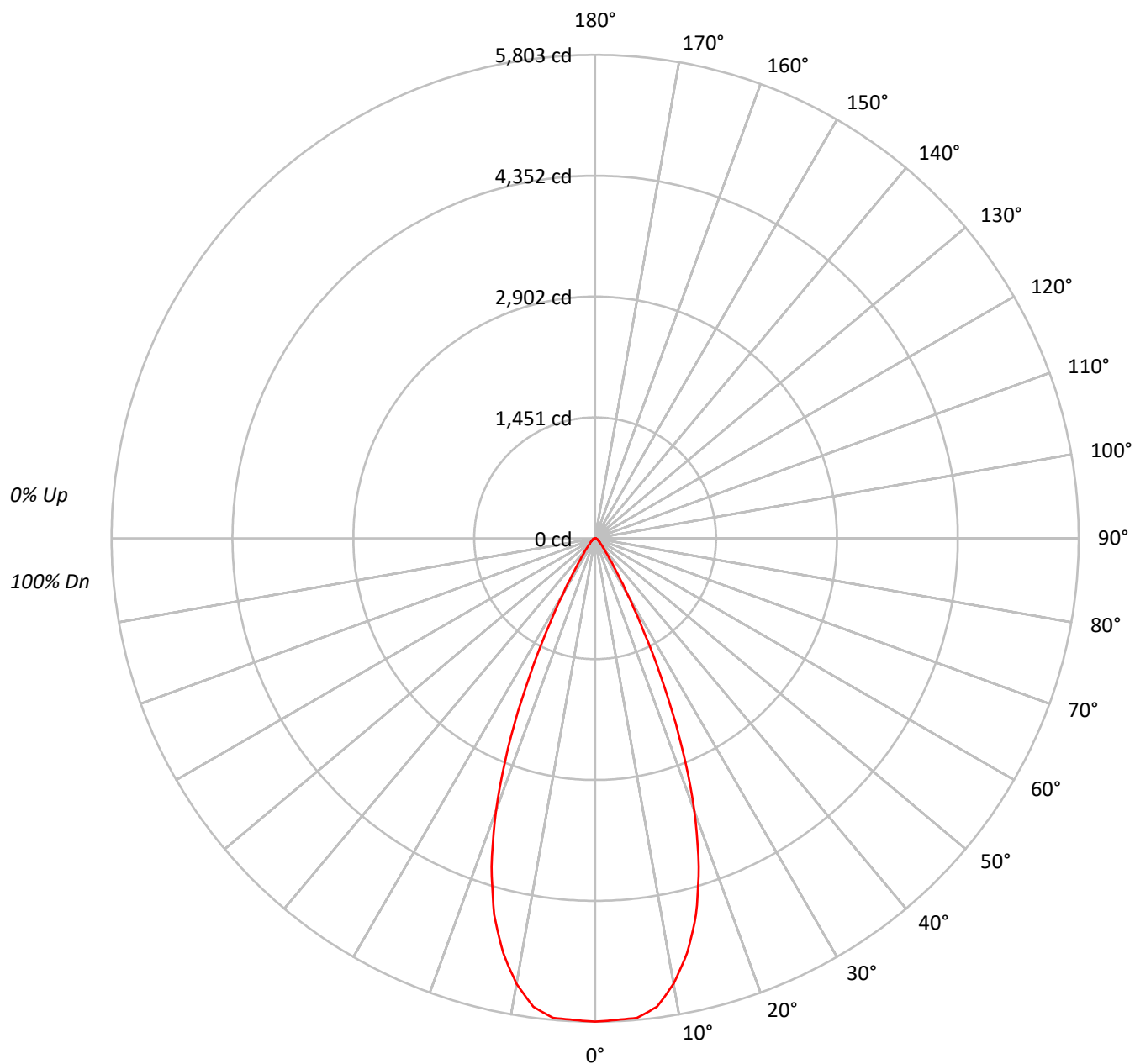
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2862884
5°	2861934
10°	2720279
15°	2389550
20°	1827992
25°	1067156
30°	436793
35°	184727
40°	100667
45°	65030
50°	50736
55°	43955
60°	35622
65°	28135
70°	25966
75°	22875
80°	25571
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	17.5
10°-20°	1273.6	41.1
20°-30°	897.4	29.0
30°-40°	220.9	7.1
40°-50°	77.1	2.5
50°-60°	45.6	1.5
60°-70°	25.3	0.8
70°-80°	13.9	0.4
80°-90°	3.7	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°	2711.7	87.5
0°-40°	2932.6	94.7
0°-60°	3055.3	98.6
0°-90°	3098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5803	
5°	5779	541
15°	4678	1274
25°	1960	897
35°	307	221
45°	93	77
55°	51	46
65°	24	25
75°	12	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5802.6
2.5°	5787.6
5°	5778.6
7.5°	5673.3
10°	5429.8
12.5°	5099.1
15°	4678.2
17.5°	4134.0
20°	3481.6
22.5°	2732.9
25°	1960.3
27.5°	1265.7
30°	766.7
32.5°	466.0
35°	306.7
37.5°	216.5
40°	156.3
42.5°	120.3
45°	93.2
47.5°	78.2
50°	66.1
52.5°	57.1
55°	51.1
57.5°	45.1
60°	36.1
62.5°	30.1
65°	24.1
67.5°	21.0
70°	18.0
72.5°	15.0
75°	12.0
77.5°	12.0
80°	9.0
82.5°	6.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)