

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: P433109

Luminaire Tested: **LAM4B408R309030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R309030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

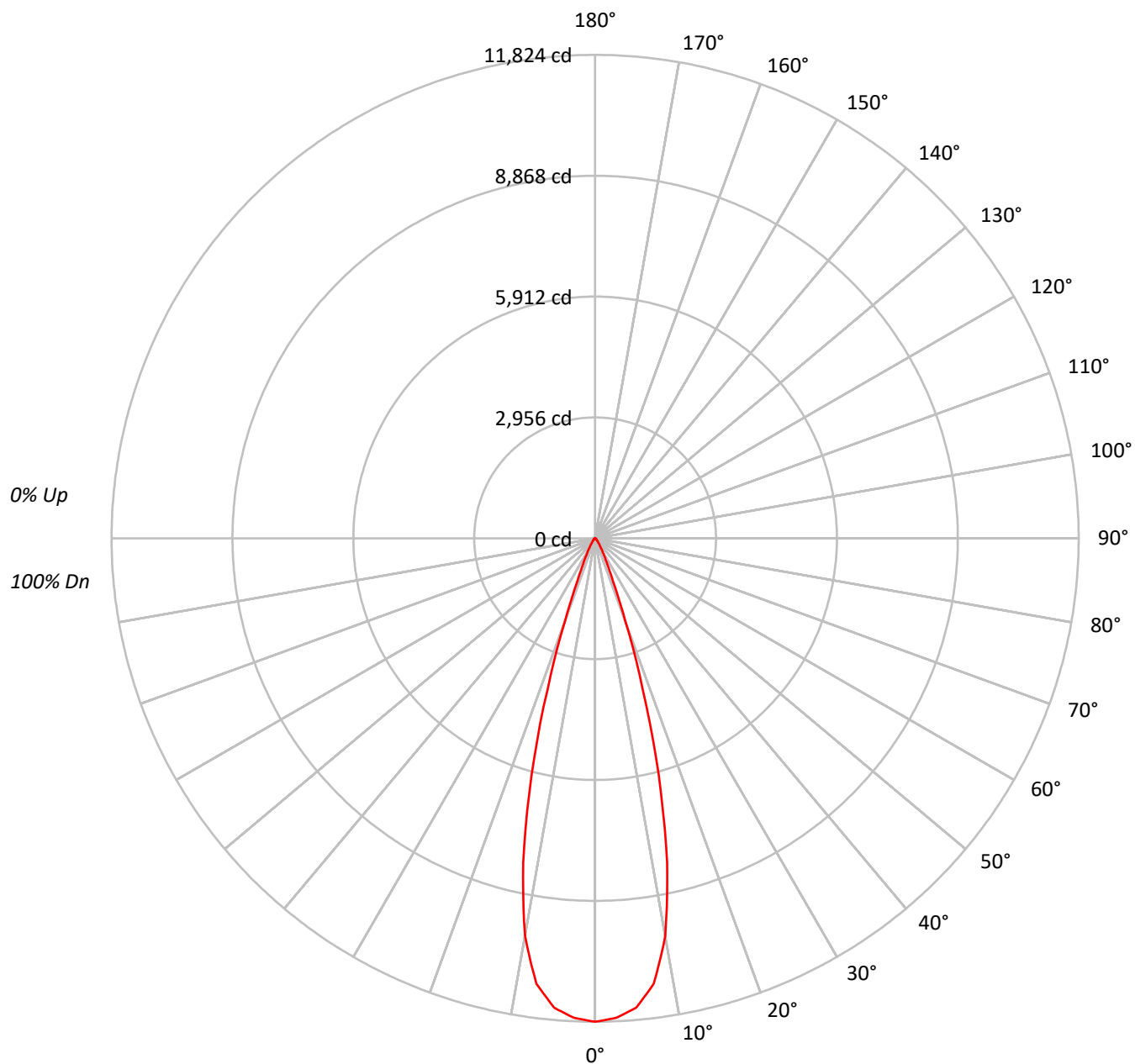
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107		107	105	104			103	102	101			100
2	111	107	104	102	109	106	103	100		102	100	98			100	98	96			97
3	107	103	99	96	105	101	98	95		99	96	94			96	94	92			94
4	104	98	94	91	102	97	94	91		95	92	90			93	91	89			92
5	101	95	91	87	99	94	90	87		92	89	86			91	88	86			89
6	98	91	87	84	97	91	87	84		89	86	83			88	85	83			87
7	95	88	84	81	94	88	84	81		87	83	81			86	83	80			85
8	92	86	81	79	91	85	81	78		84	81	78			83	80	78			83
9	90	83	79	76	89	83	79	76		82	78	76			81	78	76			80
10	88	81	77	74	87	80	77	74		80	76	74			79	76	74			78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5833868
5°	5706434
10°	4947784
15°	3066646
20°	1123961
25°	375734
30°	184414
35°	91972
40°	57064
45°	36213
50°	25790
55°	20988
60°	18058
65°	14243
70°	17599
75°	17538
80°	17332
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.1	32.6
10°-20°	1585.4	49.2
20°-30°	386.5	12.0
30°-40°	105.9	3.3
40°-50°	42.6	1.3
50°-60°	22.8	0.7
60°-70°	13.6	0.4
70°-80°	10.5	0.3
80°-90°	2.5	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°	3022.0	93.9
0°-40°	3127.9	97.1
0°-60°	3193.3	99.2
0°-90°	3219.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11824	
5°	11522	###
15°	6004	1585
25°	690	387
35°	153	106
45°	52	43
55°	24	23
65°	12	14
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11824.3
2.5°	11744.9
5°	11522.0
7.5°	10990.6
10°	9876.0
12.5°	8129.2
15°	6003.8
17.5°	3869.2
20°	2140.7
22.5°	1142.1
25°	690.2
27.5°	467.2
30°	323.7
32.5°	219.9
35°	152.7
37.5°	113.0
40°	88.6
42.5°	67.2
45°	51.9
47.5°	42.8
50°	33.6
52.5°	30.5
55°	24.4
57.5°	21.4
60°	18.3
62.5°	15.3
65°	12.2
67.5°	12.2
70°	12.2
72.5°	12.2
75°	9.2
77.5°	9.2
80°	6.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)