

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: P433103

Luminaire Tested: **LAM4B408R309024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433103
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: LAM4B408R309024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.2 lumens
Efficiency: N/A
Efficacy: 69.7 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

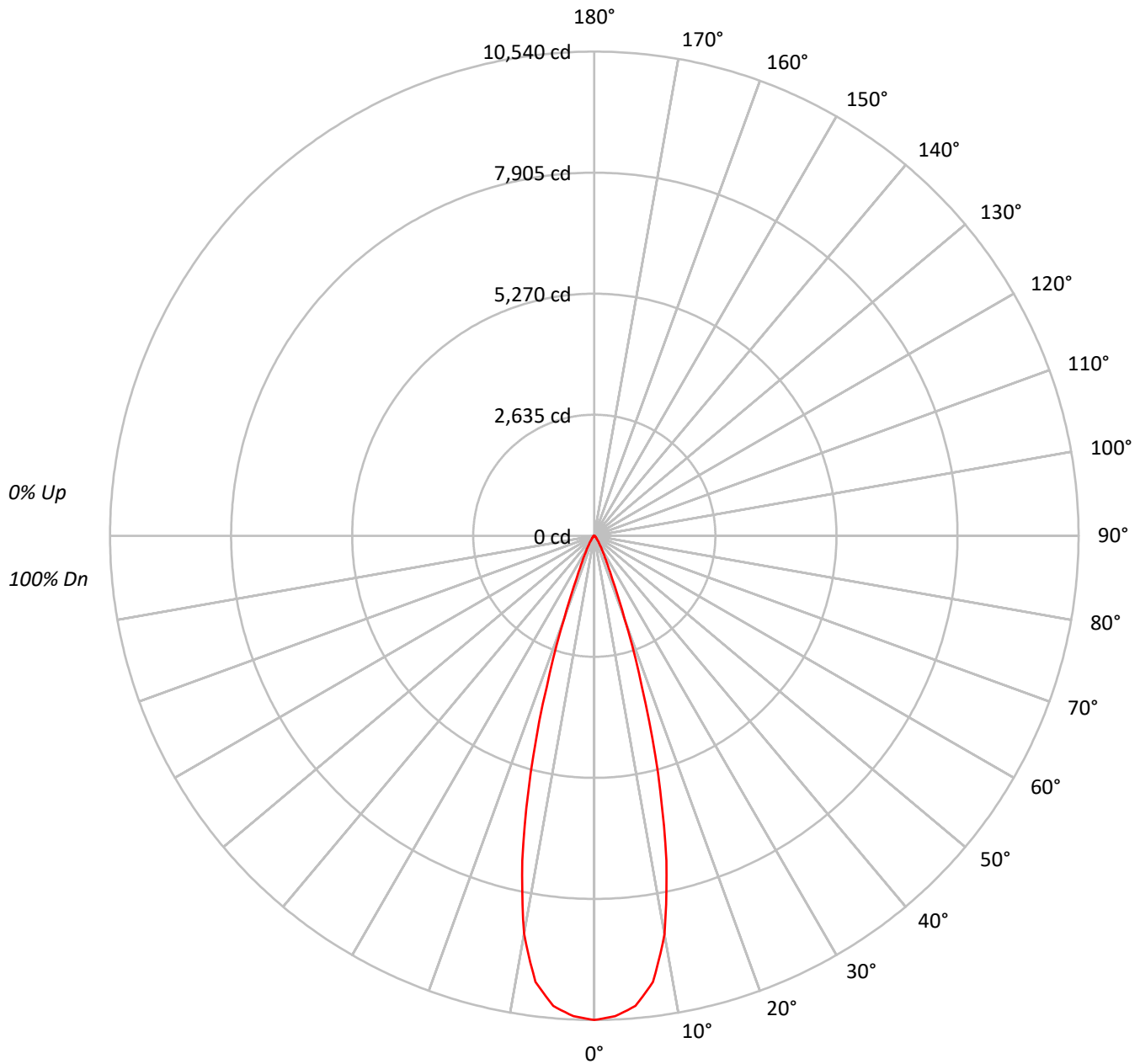
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5200418
5°	5086809
10°	4410572
15°	2733665
20°	1001941
25°	334905
30°	164417
35°	81974
40°	50816
45°	32306
50°	22950
55°	18752
60°	16084
65°	12725
70°	15724
75°	15631
80°	15343
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.1	32.6
10°-20°	1413.2	49.2
20°-30°	344.6	12.0
30°-40°	94.3	3.3
40°-50°	38.0	1.3
50°-60°	20.3	0.7
60°-70°	12.1	0.4
70°-80°	9.4	0.3
80°-90°	2.2	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°	2693.9	93.9
0°-40°	2788.2	97.1
0°-60°	2846.5	99.2
0°-90°	2870.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10540	
5°	10271	936
15°	5352	1413
25°	615	345
35°	136	94
45°	46	38
55°	22	20
65°	11	12
75°	8	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10540.4
2.5°	10469.7
5°	10270.9
7.5°	9797.3
10°	8803.7
12.5°	7246.5
15°	5351.9
17.5°	3449.1
20°	1908.3
22.5°	1018.1
25°	615.2
27.5°	416.5
30°	288.6
32.5°	196.0
35°	136.1
37.5°	100.7
40°	78.9
42.5°	59.9
45°	46.3
47.5°	38.1
50°	29.9
52.5°	27.2
55°	21.8
57.5°	19.1
60°	16.3
62.5°	13.6
65°	10.9
67.5°	10.9
70°	10.9
72.5°	10.9
75°	8.2
77.5°	8.2
80°	5.4
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)