

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: P433105

Luminaire Tested: **LAM4B408R309027DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433105
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: LAM4B408R309027DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.6 lumens
Efficiency: N/A
Efficacy: 76.0 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

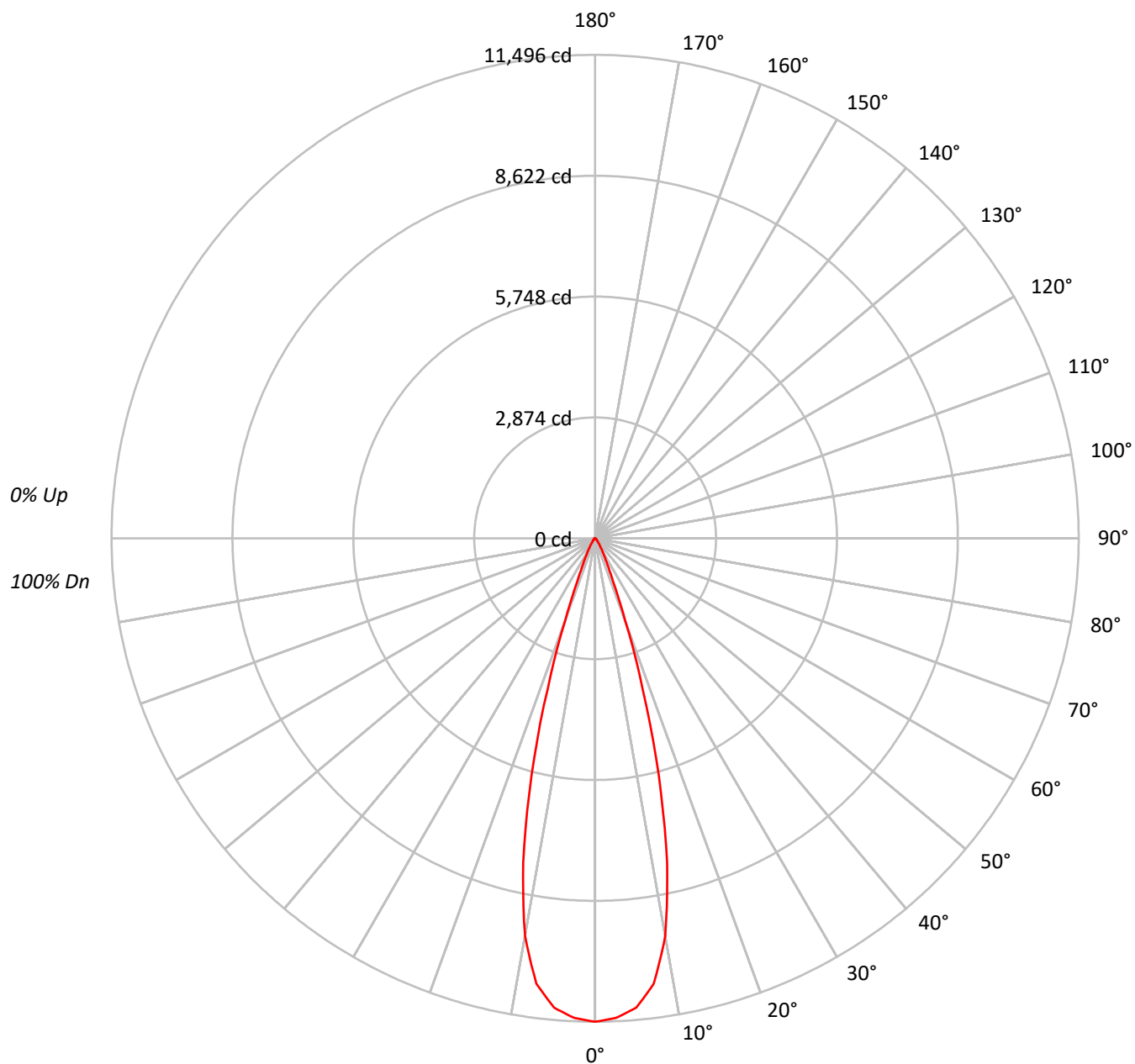
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5672089
5°	5548197
10°	4810563
15°	2981600
20°	1092773
25°	365282
30°	179286
35°	89442
40°	55454
45°	35236
50°	25099
55°	20472
60°	17564
65°	13892
70°	17166
75°	16966
80°	16763
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.0	32.6
10°-20°	1541.4	49.2
20°-30°	375.8	12.0
30°-40°	102.9	3.3
40°-50°	41.4	1.3
50°-60°	22.2	0.7
60°-70°	13.2	0.4
70°-80°	10.2	0.3
80°-90°	2.4	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°	2938.2	93.9
0°-40°	3041.1	97.1
0°-60°	3104.7	99.2
0°-90°	3130.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11496	
5°	11202	###
15°	5837	1541
25°	671	376
35°	148	103
45°	50	41
55°	24	22
65°	12	13
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11496.4
2.5°	11419.2
5°	11202.5
7.5°	10685.8
10°	9602.1
12.5°	7903.8
15°	5837.3
17.5°	3761.9
20°	2081.3
22.5°	1110.4
25°	671.0
27.5°	454.3
30°	314.7
32.5°	213.8
35°	148.5
37.5°	109.9
40°	86.1
42.5°	65.3
45°	50.5
47.5°	41.6
50°	32.7
52.5°	29.7
55°	23.8
57.5°	20.8
60°	17.8
62.5°	14.8
65°	11.9
67.5°	11.9
70°	11.9
72.5°	11.9
75°	8.9
77.5°	8.9
80°	5.9
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)