

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: P433069

Luminaire Tested: **LAM4B408R209050DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R209050DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

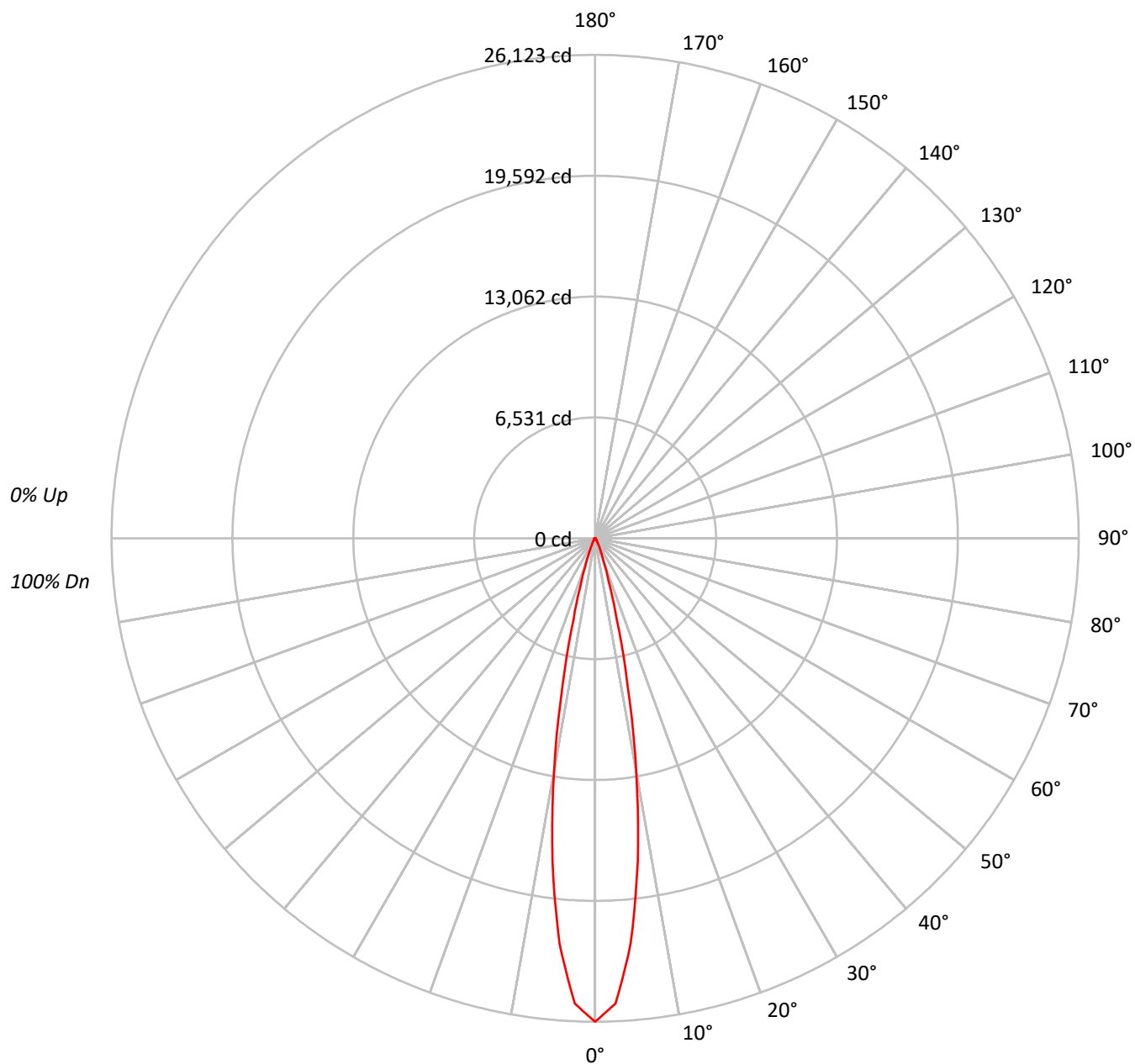
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	110		113	111	109	108		107	106	105		103	102	102		100	99	99
2	112	108	105	103		110	106	104	102		103	101	100		101	99	97		98	97	95
3	108	104	100	98		107	103	100	97		100	98	96		98	96	94		96	94	93
4	105	100	97	94		104	99	96	93		97	94	92		96	93	91		94	92	90
5	103	97	93	90		101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	88		99	94	90	87		92	89	87		91	88	86		90	88	86
7	98	92	88	85		97	91	88	85		90	87	85		89	86	84		88	86	84
8	96	90	86	83		95	89	86	83		88	85	83		87	85	82		87	84	82
9	94	88	84	81		93	87	84	81		86	83	81		86	83	81		85	82	81
10	92	86	82	80		91	85	82	80		85	82	79		84	81	79		83	81	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12888357
5°	10893979
10°	6398754
15°	2291122
20°	758058
25°	301752
30°	144249
35°	82456
40°	59511
45°	50098
50°	57797
55°	47052
60°	23584
65°	19963
70°	24668
75°	26116
80°	19321
85°	19247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1801.1	48.3
10°-20°	1404.6	37.6
20°-30°	291.5	7.8
30°-40°	91.9	2.5
40°-50°	59.1	1.6
50°-60°	47.4	1.3
60°-70°	18.6	0.5
70°-80°	14.0	0.4
80°-90°	2.8	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°	3497.3	93.7
0°-40°	3589.2	96.2
0°-60°	3695.7	99.1
0°-90°	3731.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26123	
5°	21996	###
15°	4486	1405
25°	554	292
35°	137	92
45°	72	59
55°	55	47
65°	17	19
75°	14	14
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	26122.6
2.5°	25164.6
5°	21996.3
7.5°	17623.8
10°	12772.2
12.5°	8057.5
15°	4485.5
17.5°	2466.8
20°	1443.8
22.5°	882.7
25°	554.3
27.5°	366.1
30°	253.2
32.5°	177.9
35°	136.9
37.5°	109.5
40°	92.4
42.5°	78.7
45°	71.8
47.5°	71.8
50°	75.3
52.5°	71.8
55°	54.7
57.5°	37.6
60°	23.9
62.5°	20.5
65°	17.1
67.5°	17.1
70°	17.1
72.5°	17.1
75°	13.7
77.5°	10.3
80°	6.8
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)