

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: P433064

Luminaire Tested: **LAM4B408R209035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433064
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: LAM4B408R209035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3345.6 lumens
Efficiency: N/A
Efficacy: 81.2 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

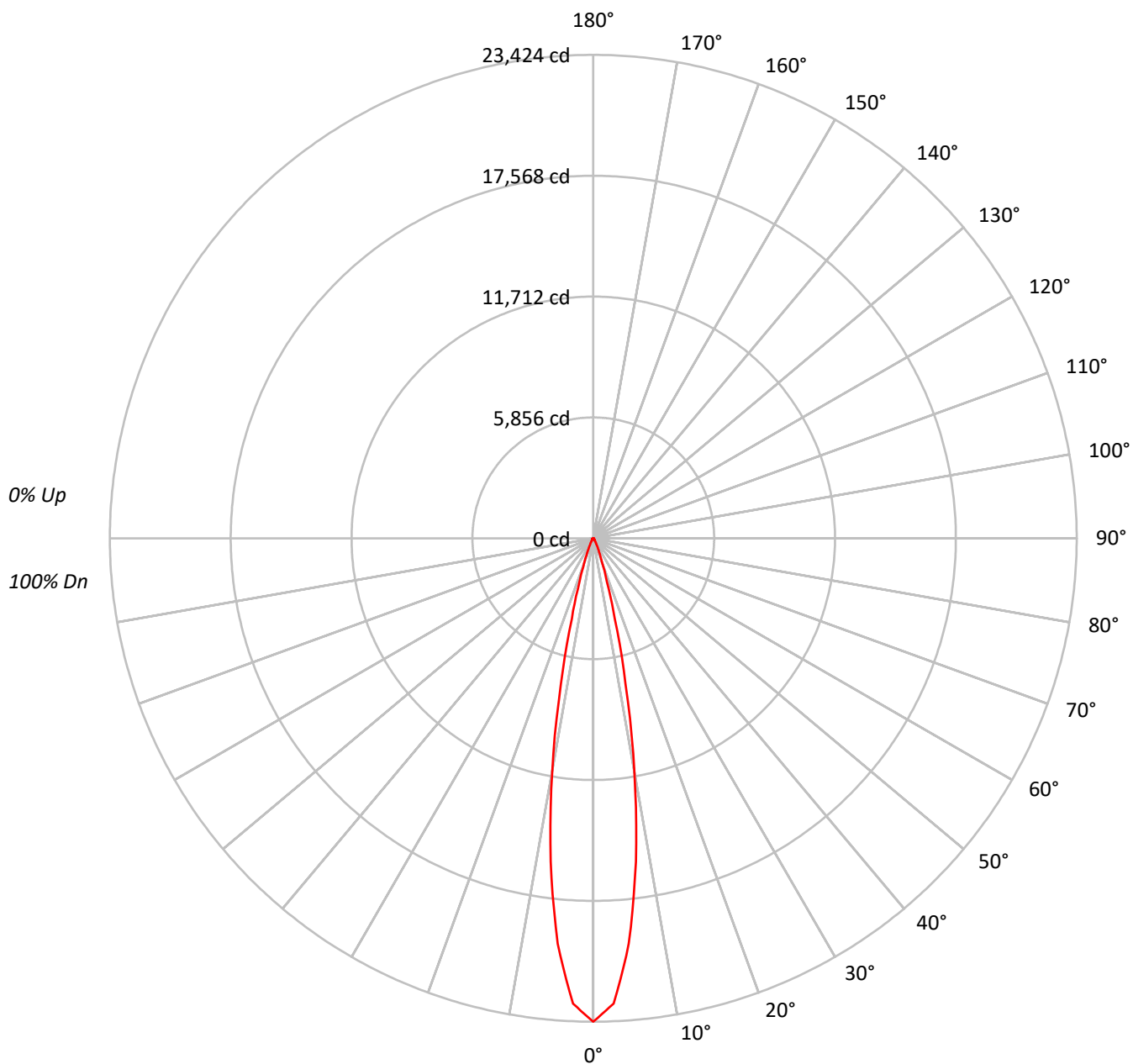
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11556873
5°	9768541
10°	5737696
15°	2054425
20°	679774
25°	270559
30°	129323
35°	73903
40°	53328
45°	44935
50°	51810
55°	42235
60°	21215
65°	17862
70°	22071
75°	23447
80°	17332
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1615.1	48.3
10°-20°	1259.5	37.6
20°-30°	261.4	7.8
30°-40°	82.4	2.5
40°-50°	53.0	1.6
50°-60°	42.6	1.3
60°-70°	16.7	0.5
70°-80°	12.5	0.4
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°	3135.9	93.7
0°-40°	3218.4	96.2
0°-60°	3313.9	99.1
0°-90°	3345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3345.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23424	
5°	19724	###
15°	4022	1259
25°	497	261
35°	123	82
45°	64	53
55°	49	43
65°	15	17
75°	12	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23423.9
2.5°	22564.8
5°	19723.9
7.5°	15803.0
10°	11452.7
12.5°	7225.0
15°	4022.1
17.5°	2212.0
20°	1294.7
22.5°	791.5
25°	497.0
27.5°	328.3
30°	227.0
32.5°	159.5
35°	122.7
37.5°	98.2
40°	82.8
42.5°	70.6
45°	64.4
47.5°	64.4
50°	67.5
52.5°	64.4
55°	49.1
57.5°	33.7
60°	21.5
62.5°	18.4
65°	15.3
67.5°	15.3
70°	15.3
72.5°	15.3
75°	12.3
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)