

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: P432392

Luminaire Tested: **LAM4B208R109035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B208R109035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

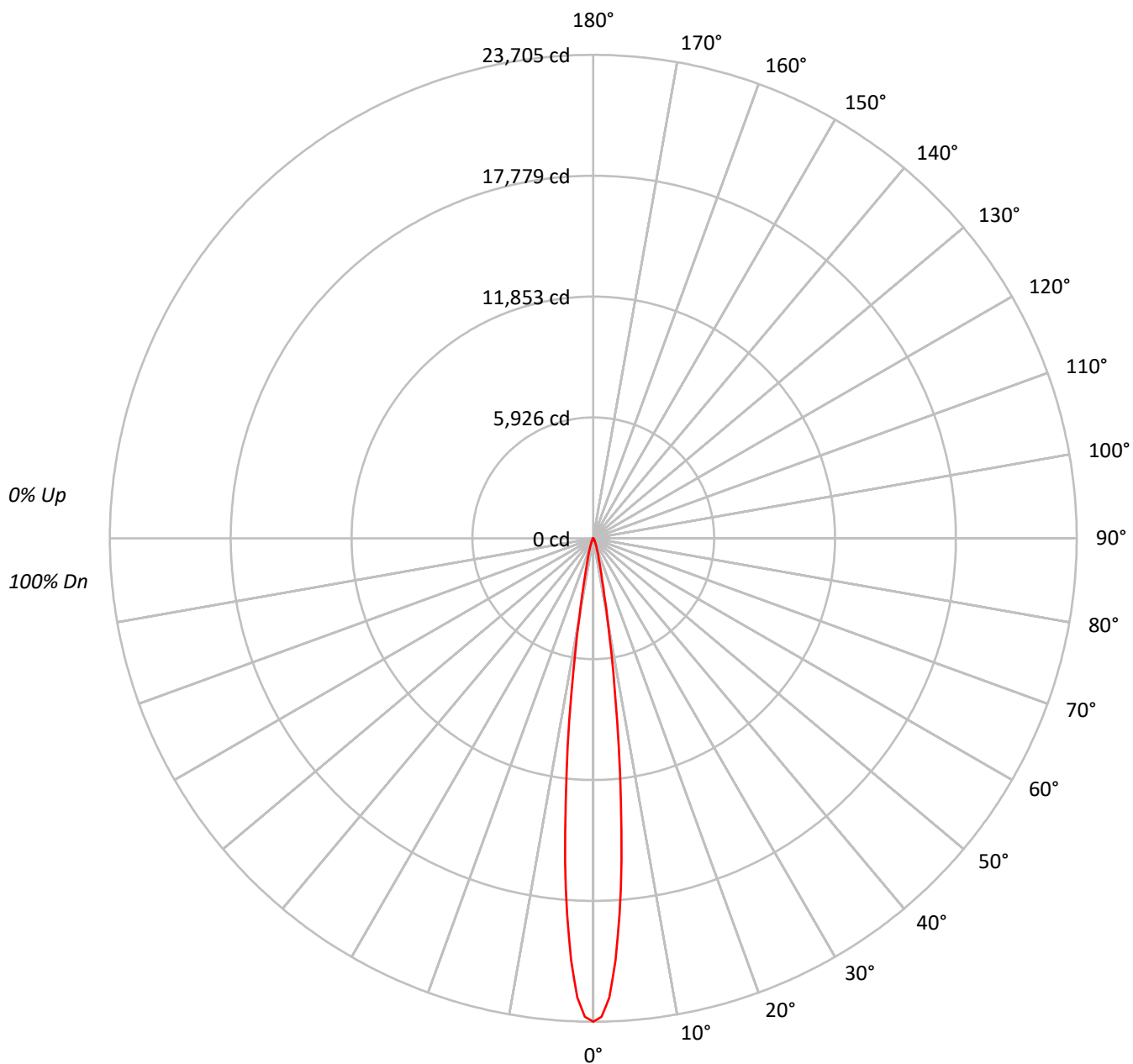
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11695513
5°	7856029
10°	2005015
15°	519008
20°	232542
25°	110619
30°	59363
35°	34512
40°	26857
45°	14513
50°	11974
55°	8946
60°	10262
65°	6071
70°	7501
75°	9913
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.1	67.4
10°-20°	347.1	21.5
20°-30°	101.4	6.3
30°-40°	38.6	2.4
40°-50°	18.4	1.1
50°-60°	11.0	0.7
60°-70°	5.8	0.4
70°-80°	4.8	0.3
80°-90°	0.0	0.0
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°	1538.6	95.1
0°-40°	1577.1	97.5
0°-60°	1606.5	99.3
0°-90°	1617.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23705	
5°	15862	###
15°	1016	347
25°	203	101
35°	57	39
45°	21	18
55°	10	11
65°	5	6
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	23704.9
1°	23475.6
2°	22527.2
3°	20719.0
4°	18483.5
5°	15862.3
6°	12965.0
7°	10291.7
8°	7686.2
9°	5601.8
10°	4002.1
11°	2834.8
12°	2100.0
13°	1594.6
14°	1266.3
15°	1016.1
17.5°	661.8
20°	442.9
22.5°	297.0
25°	203.2
27.5°	140.7
30°	104.2
32.5°	73.0
35°	57.3
37.5°	46.9
40°	41.7
42.5°	31.3
45°	20.8
47.5°	15.6
50°	15.6
52.5°	15.6
55°	10.4
57.5°	10.4
60°	10.4
62.5°	5.2
65°	5.2
67.5°	5.2
70°	5.2
72.5°	5.2
75°	5.2
77.5°	5.2
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)