

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: P432385

Luminaire Tested: **LAM4B208R109027DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432385
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: LAM4B208R109027DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1500.9 lumens
Efficiency: N/A
Efficacy: 72.9 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

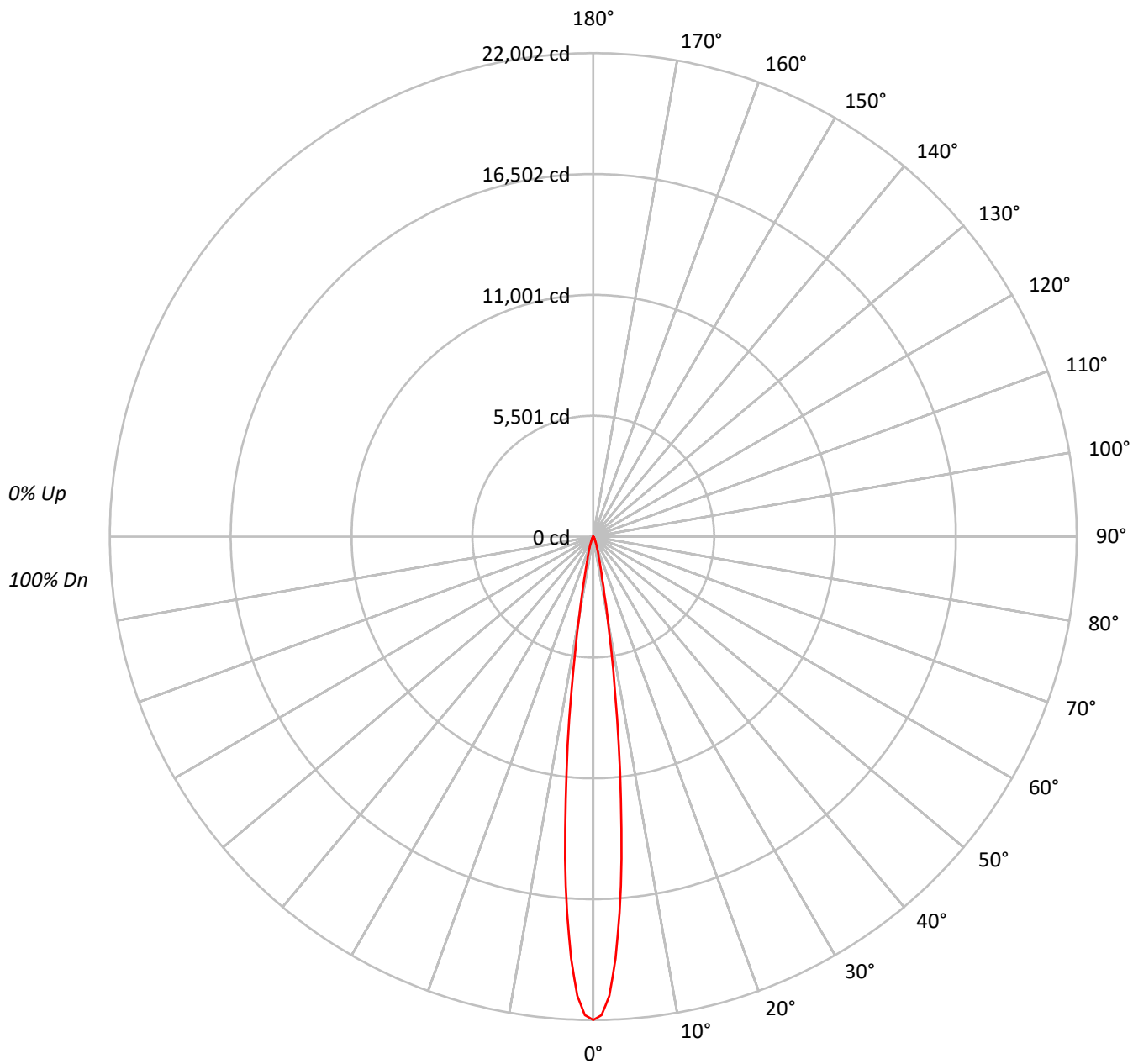
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96						
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94						
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91						
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90						
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89						
8	100	95	92	89	99	94	91	89	94	91	89	93	90	89	92	90	88	88						
9	98	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						
10	97	92	89	87	96	92	89	87	91	88	87	90	88	86	90	88	86	86						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10855337
5°	7291675
10°	1860980
15°	481772
20°	215845
25°	102671
30°	55091
35°	32043
40°	24925
45°	13466
50°	11130
55°	8344
60°	9572
65°	5604
70°	6924
75°	9150
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1011.8	67.4
10°-20°	322.2	21.5
20°-30°	94.1	6.3
30°-40°	35.8	2.4
40°-50°	17.0	1.1
50°-60°	10.3	0.7
60°-70°	5.4	0.4
70°-80°	4.4	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°	1428.1	95.1
0°-40°	1463.8	97.5
0°-60°	1491.1	99.3
0°-90°	1500.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22002	
5°	14723	###
15°	943	322
25°	189	94
35°	53	36
45°	19	17
55°	10	10
65°	5	5
75°	5	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22002.0
1°	21789.2
2°	20908.9
3°	19230.6
4°	17155.7
5°	14722.8
6°	12033.6
7°	9552.4
8°	7134.1
9°	5199.4
10°	3714.6
11°	2631.1
12°	1949.2
13°	1480.0
14°	1175.3
15°	943.2
17.5°	614.3
20°	411.1
22.5°	275.7
25°	188.6
27.5°	130.6
30°	96.7
32.5°	67.7
35°	53.2
37.5°	43.5
40°	38.7
42.5°	29.0
45°	19.3
47.5°	14.5
50°	14.5
52.5°	14.5
55°	9.7
57.5°	9.7
60°	9.7
62.5°	4.8
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	4.8
77.5°	4.8
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)