

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: P432452

Luminaire Tested: **LAM4B208R209730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432452
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: LAM4B208R209730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1461.5 lumens
Efficiency: N/A
Efficacy: 70.9 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

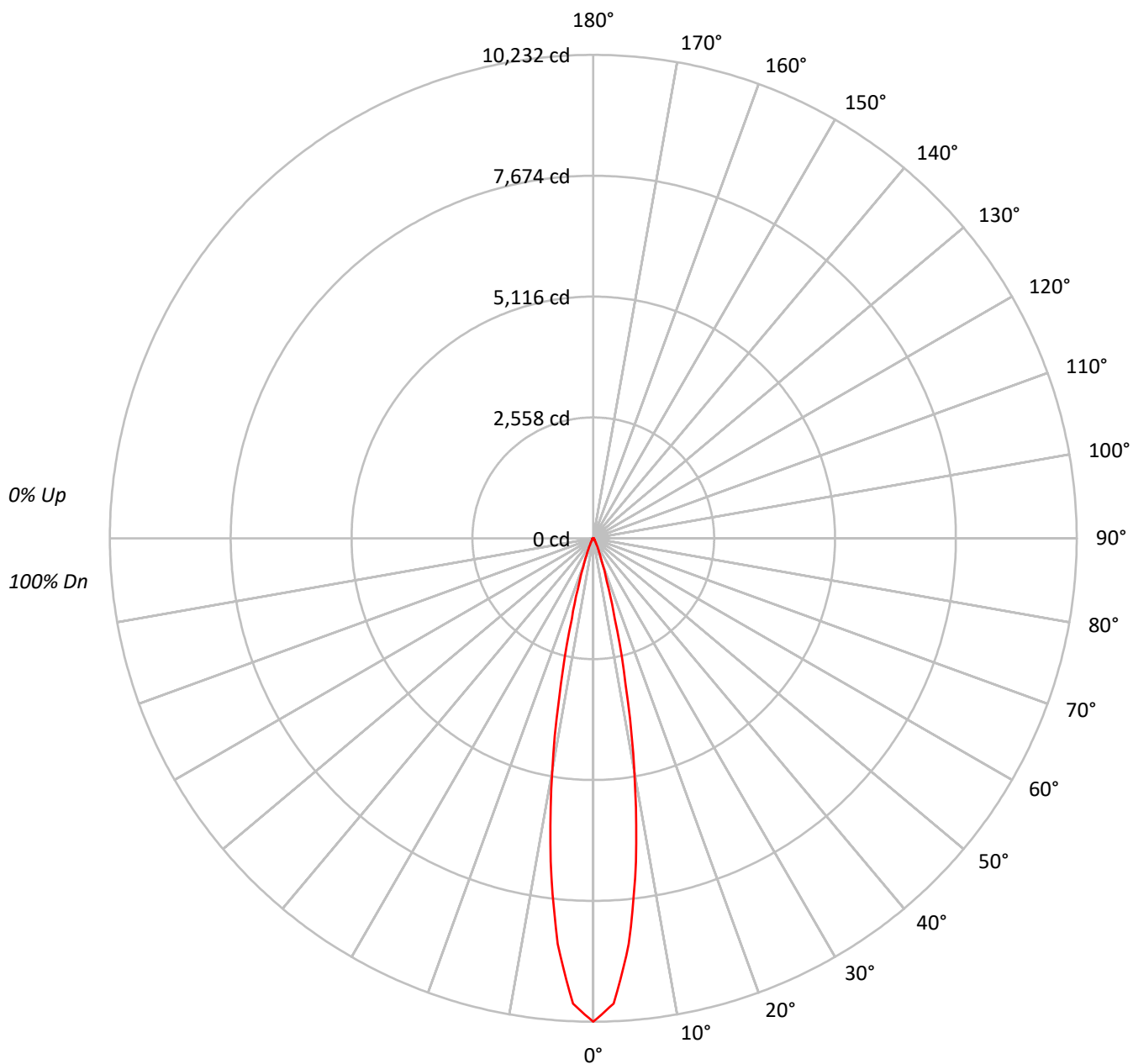
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5048358
5°	4267196
10°	2506406
15°	897448
20°	296965
25°	118186
30°	56515
35°	32284
40°	23315
45°	19607
50°	22643
55°	18408
60°	9276
65°	7822
70°	9665
75°	10294
80°	7671
85°	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	48.3
10°-20°	550.2	37.6
20°-30°	114.2	7.8
30°-40°	36.0	2.5
40°-50°	23.1	1.6
50°-60°	18.6	1.3
60°-70°	7.3	0.5
70°-80°	5.5	0.4
80°-90°	1.1	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°	1369.9	93.7
0°-40°	1405.9	96.2
0°-60°	1447.6	99.1
0°-90°	1461.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10232	
5°	8616	706
15°	1757	550
25°	217	114
35°	54	36
45°	28	23
55°	21	19
65°	7	7
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10232.2
2.5°	9857.0
5°	8616.0
7.5°	6903.2
10°	5002.9
12.5°	3156.1
15°	1757.0
17.5°	966.3
20°	565.6
22.5°	345.8
25°	217.1
27.5°	143.4
30°	99.2
32.5°	69.7
35°	53.6
37.5°	42.9
40°	36.2
42.5°	30.8
45°	28.1
47.5°	28.1
50°	29.5
52.5°	28.1
55°	21.4
57.5°	14.7
60°	9.4
62.5°	8.0
65°	6.7
67.5°	6.7
70°	6.7
72.5°	6.7
75°	5.4
77.5°	4.0
80°	2.7
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)