

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: P433691

Luminaire Tested: **LAMR4B208R209040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433691
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: LAMR4B208R209040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1761.4 lumens
Efficiency: N/A
Efficacy: 85.5 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

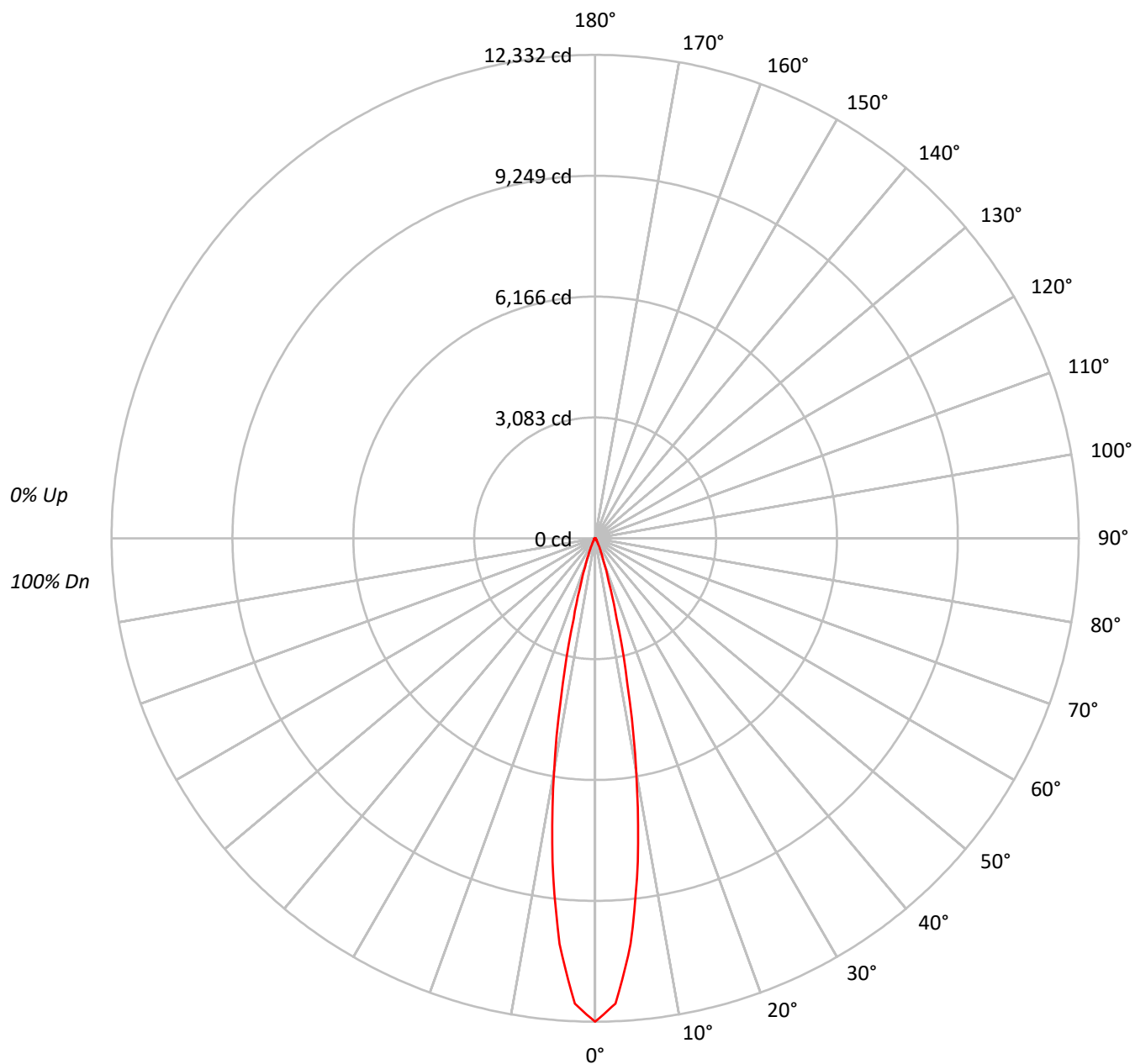
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6084505
5°	5142972
10°	3020824
15°	1081636
20°	357870
25°	142465
30°	68080
35°	38909
40°	28081
45°	23654
50°	27248
55°	22193
60°	11150
65°	9456
70°	11685
75°	12391
80°	9092
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.3	48.3
10°-20°	663.1	37.6
20°-30°	137.6	7.8
30°-40°	43.4	2.5
40°-50°	27.9	1.6
50°-60°	22.4	1.3
60°-70°	8.8	0.5
70°-80°	6.6	0.4
80°-90°	1.3	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°	1651.0	93.7
0°-40°	1694.4	96.2
0°-60°	1744.7	99.1
0°-90°	1761.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1761.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12332	
5°	10384	850
15°	2118	663
25°	262	138
35°	65	43
45°	34	28
55°	26	22
65°	8	9
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12332.3
2.5°	11880.0
5°	10384.3
7.5°	8320.1
10°	6029.7
12.5°	3803.9
15°	2117.6
17.5°	1164.6
20°	681.6
22.5°	416.7
25°	261.7
27.5°	172.8
30°	119.5
32.5°	84.0
35°	64.6
37.5°	51.7
40°	43.6
42.5°	37.2
45°	33.9
47.5°	33.9
50°	35.5
52.5°	33.9
55°	25.8
57.5°	17.8
60°	11.3
62.5°	9.7
65°	8.1
67.5°	8.1
70°	8.1
72.5°	8.1
75°	6.5
77.5°	4.8
80°	3.2
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)