

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: P433637

Luminaire Tested: **LAMR4B208R109030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433637
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: LAMR4B208R109030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1543.8 lumens
Efficiency: N/A
Efficacy: 74.9 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

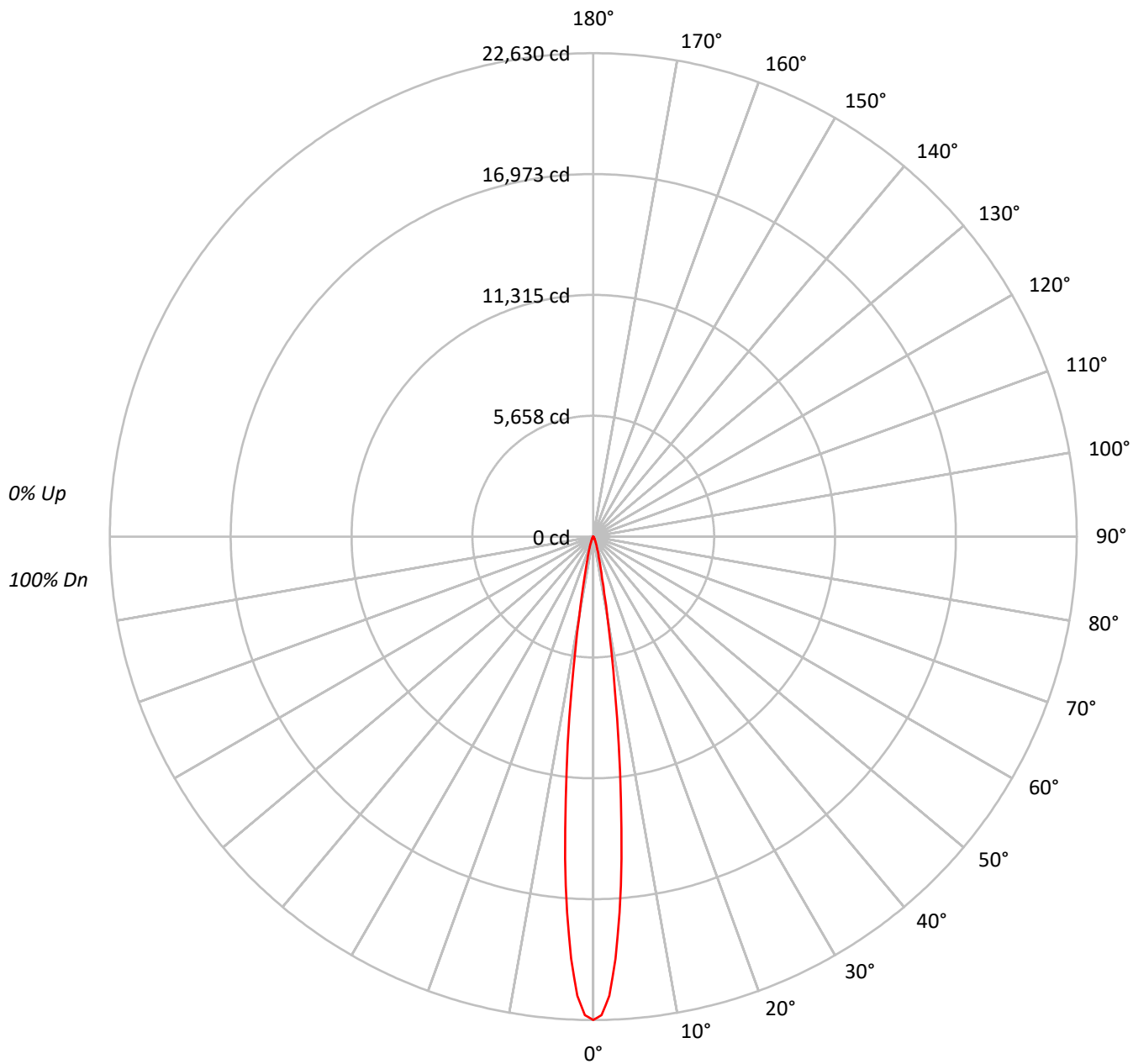
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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°	11164933
5°	7499637
10°	1914035
15°	495512
20°	221988
25°	105611
30°	56686
35°	32946
40°	25634
45°	13885
50°	11437
55°	8516
60°	9769
65°	5837
70°	7213
75°	9531
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.7	67.4
10°-20°	331.3	21.5
20°-30°	96.8	6.3
30°-40°	36.8	2.4
40°-50°	17.5	1.1
50°-60°	10.5	0.7
60°-70°	5.6	0.4
70°-80°	4.6	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°	1468.8	95.1
0°-40°	1505.6	97.5
0°-60°	1533.6	99.3
0°-90°	1543.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22630	
5°	15143	###
15°	970	331
25°	194	97
35°	55	37
45°	20	18
55°	10	11
65°	5	6
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22629.5
1°	22410.6
2°	21505.3
3°	19779.1
4°	17645.0
5°	15142.7
6°	12376.8
7°	9824.9
8°	7337.6
9°	5347.7
10°	3820.5
11°	2706.2
12°	2004.8
13°	1522.2
14°	1208.8
15°	970.1
17.5°	631.8
20°	422.8
22.5°	283.6
25°	194.0
27.5°	134.3
30°	99.5
32.5°	69.6
35°	54.7
37.5°	44.8
40°	39.8
42.5°	29.8
45°	19.9
47.5°	14.9
50°	14.9
52.5°	14.9
55°	9.9
57.5°	9.9
60°	9.9
62.5°	5.0
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	5.0
77.5°	5.0
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)