

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: P433736

Luminaire Tested: **LAMR4B208R309035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R309035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1669.9 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

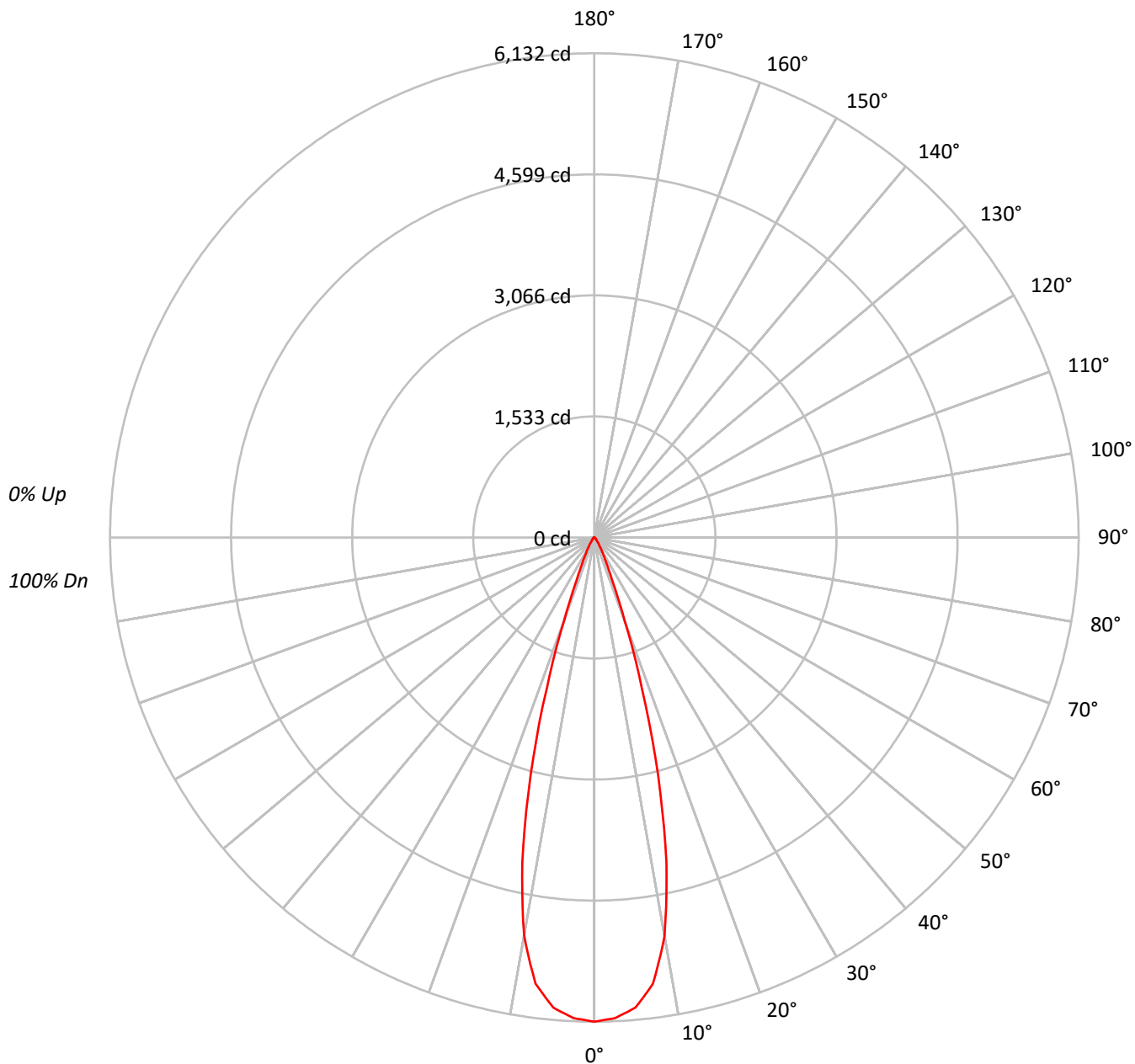
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93		
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87		
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3025601
5°	2959501
10°	2566074
15°	1590428
20°	582903
25°	194835
30°	95654
35°	47703
40°	29562
45°	18769
50°	13356
55°	10924
60°	9374
65°	7355
70°	9088
75°	9150
80°	9092
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	32.6
10°-20°	822.2	49.2
20°-30°	200.5	12.0
30°-40°	54.9	3.3
40°-50°	22.1	1.3
50°-60°	11.8	0.7
60°-70°	7.0	0.4
70°-80°	5.4	0.3
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°	1567.3	93.9
0°-40°	1622.2	97.1
0°-60°	1656.1	99.2
0°-90°	1669.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6132	
5°	5976	545
15°	3114	822
25°	358	200
35°	79	55
45°	27	22
55°	13	12
65°	6	7
75°	5	5
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6132.4
2.5°	6091.3
5°	5975.6
7.5°	5700.1
10°	5122.0
12.5°	4216.0
15°	3113.7
17.5°	2006.7
20°	1110.2
22.5°	592.3
25°	357.9
27.5°	242.3
30°	167.9
32.5°	114.0
35°	79.2
37.5°	58.6
40°	45.9
42.5°	34.8
45°	26.9
47.5°	22.2
50°	17.4
52.5°	15.8
55°	12.7
57.5°	11.1
60°	9.5
62.5°	7.9
65°	6.3
67.5°	6.3
70°	6.3
72.5°	6.3
75°	4.8
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)