

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: P433742

Luminaire Tested: **LAMR4B208R309050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433742
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: LAMR4B208R309050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1862.3 lumens
Efficiency: N/A
Efficacy: 90.4 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

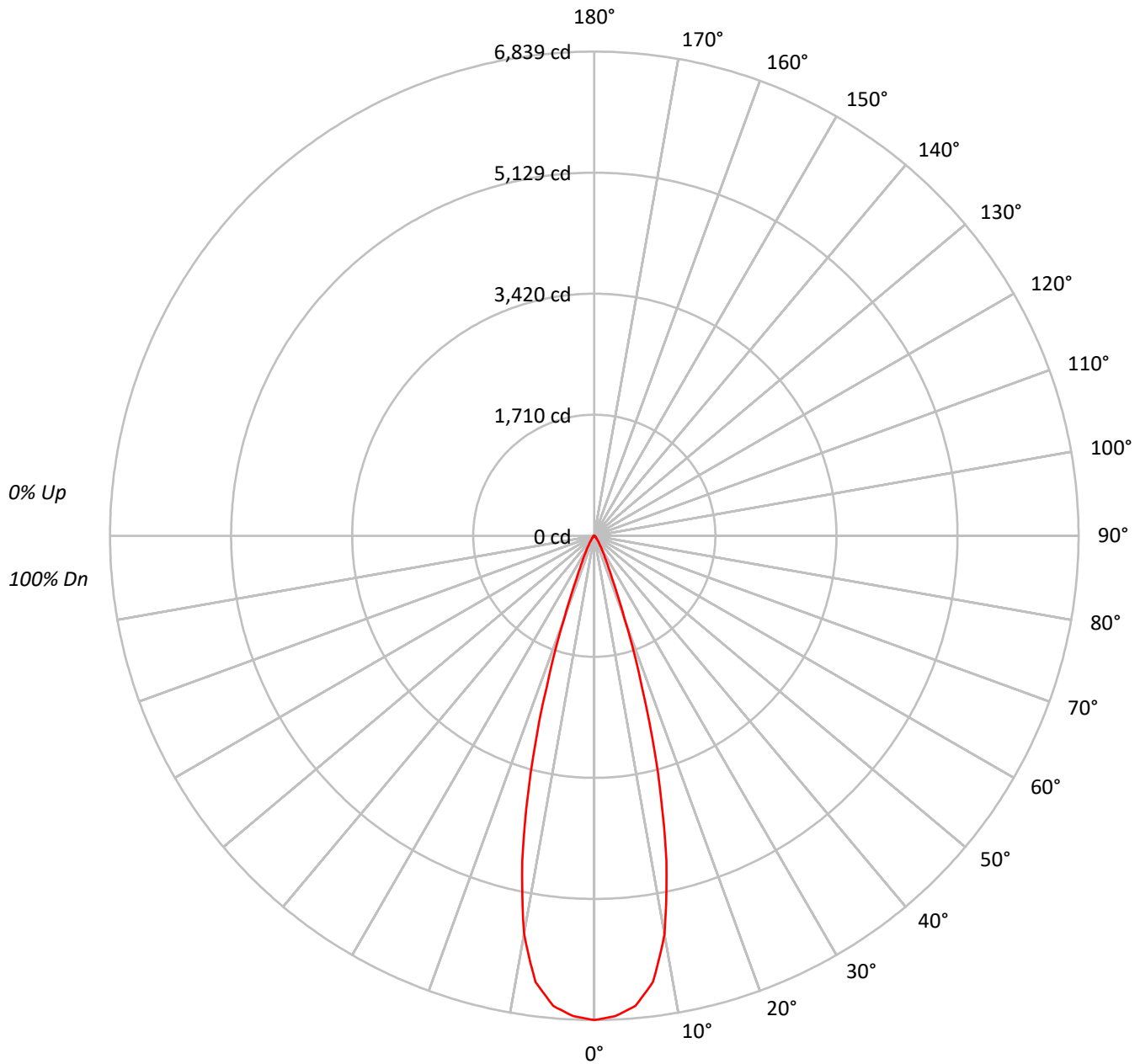
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	100	102	100	98		100	98	96		97
3	107	103	99	96	105	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	94	91	95	92	90		93	91	89		92
5	101	95	90	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	97	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	88	84	81	87	83	81		86	83	80		85
8	92	86	81	79	91	85	81	78	84	81	78		83	80	78		83
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		80
10	88	81	77	74	87	80	77	74	80	76	74		79	76	74		78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3374223
5°	3300490
10°	2861709
15°	1773698
20°	650056
25°	217318
30°	106649
35°	53184
40°	32976
45°	20932
50°	14891
55°	12129
60°	10460
65°	8289
70°	10242
75°	10103
80°	9944
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	32.6
10°-20°	917.0	49.2
20°-30°	223.6	12.0
30°-40°	61.2	3.3
40°-50°	24.6	1.3
50°-60°	13.2	0.7
60°-70°	7.9	0.4
70°-80°	6.1	0.3
80°-90°	1.5	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°	1747.9	93.9
0°-40°	1809.1	97.1
0°-60°	1846.9	99.2
0°-90°	1862.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6839	
5°	6664	607
15°	3472	917
25°	399	224
35°	88	61
45°	30	25
55°	14	13
65°	7	8
75°	5	6
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6839.0
2.5°	6793.0
5°	6664.1
7.5°	6356.8
10°	5712.1
12.5°	4701.8
15°	3472.5
17.5°	2237.9
20°	1238.1
22.5°	660.6
25°	399.2
27.5°	270.2
30°	187.2
32.5°	127.2
35°	88.3
37.5°	65.4
40°	51.2
42.5°	38.9
45°	30.0
47.5°	24.7
50°	19.4
52.5°	17.7
55°	14.1
57.5°	12.4
60°	10.6
62.5°	8.8
65°	7.1
67.5°	7.1
70°	7.1
72.5°	7.1
75°	5.3
77.5°	5.3
80°	3.5
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)