

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: P433787

Luminaire Tested: **LAMR4B208R409040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-7)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R409040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 40 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.6
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

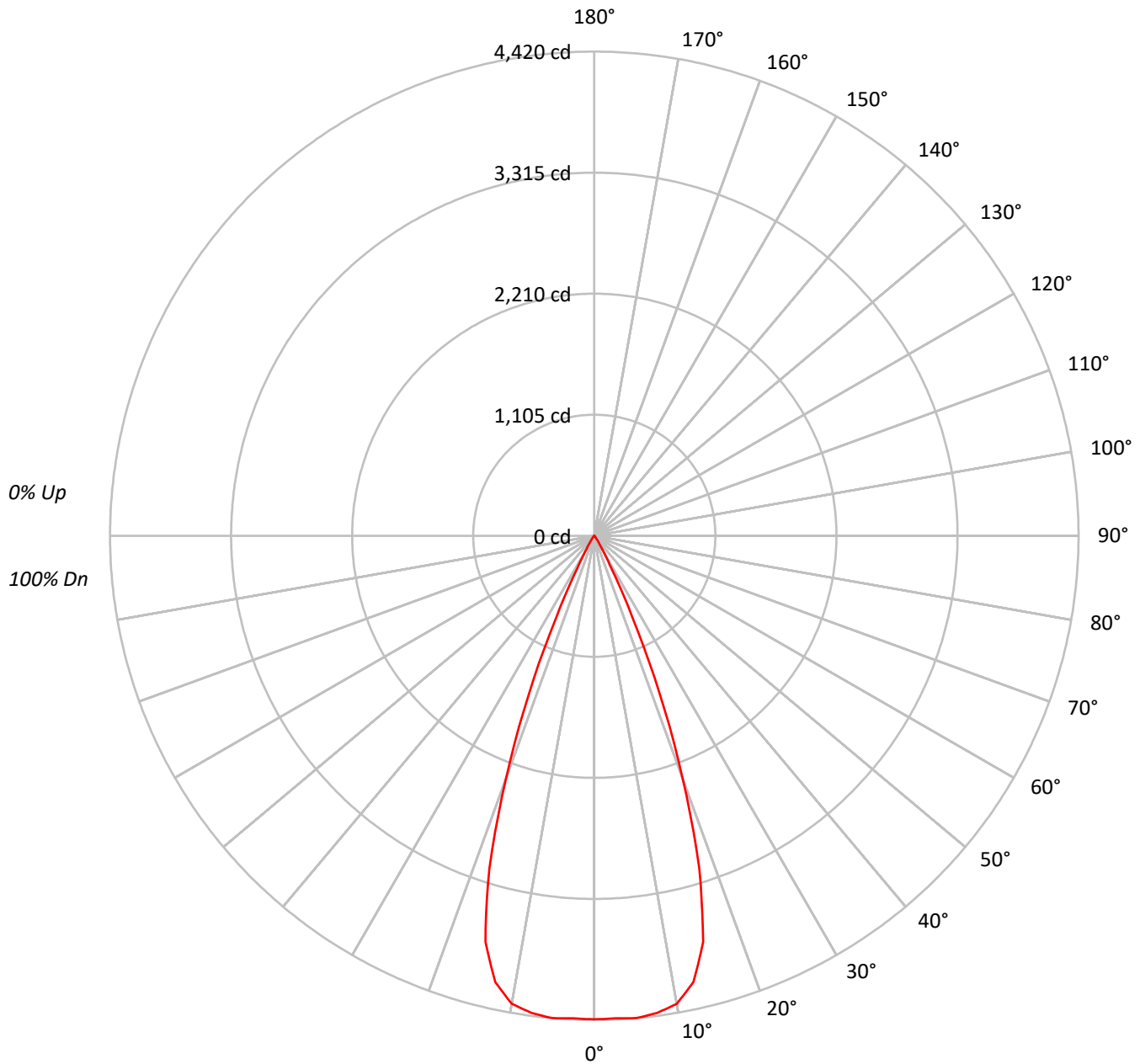
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	85	82	95	89	85	82	88	84	82		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	83	79	76	90	83	79	76	82	78	75		81	78	75		80
9	88	81	76	73	87	80	76	73	79	75	73		79	75	73		78
10	85	78	73	71	84	77	73	70	77	73	70		76	73	70		75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	711096
5°	714718
10°	709649
15°	640212
20°	403920
25°	145477
30°	30471
35°	9283
40°	1851
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	22.2
10°-20°	1002.1	53.1
20°-30°	427.3	22.7
30°-40°	36.7	1.9
40°-50°	1.1	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	1848.5	98.0
0°-40°	1885.2	99.9
0°-60°	1886.2	100.0
0°-90°	1886.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4414	
5°	4420	419
15°	3838	1002
25°	818	427
35°	47	37
45°	0	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4413.9
2.5°	4409.9
5°	4419.5
7.5°	4393.1
10°	4338.0
12.5°	4173.3
15°	3838.5
17.5°	3184.7
20°	2356.0
22.5°	1551.2
25°	818.4
27.5°	331.7
30°	163.8
32.5°	87.1
35°	47.2
37.5°	24.0
40°	8.8
42.5°	1.6
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)