

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: P434004

Luminaire Tested: **LAMR4B308R209040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434004
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: LAMR4B308R209040DE01021MW
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: 2680.3 lumens
Efficiency: N/A
Efficacy: 84.0 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

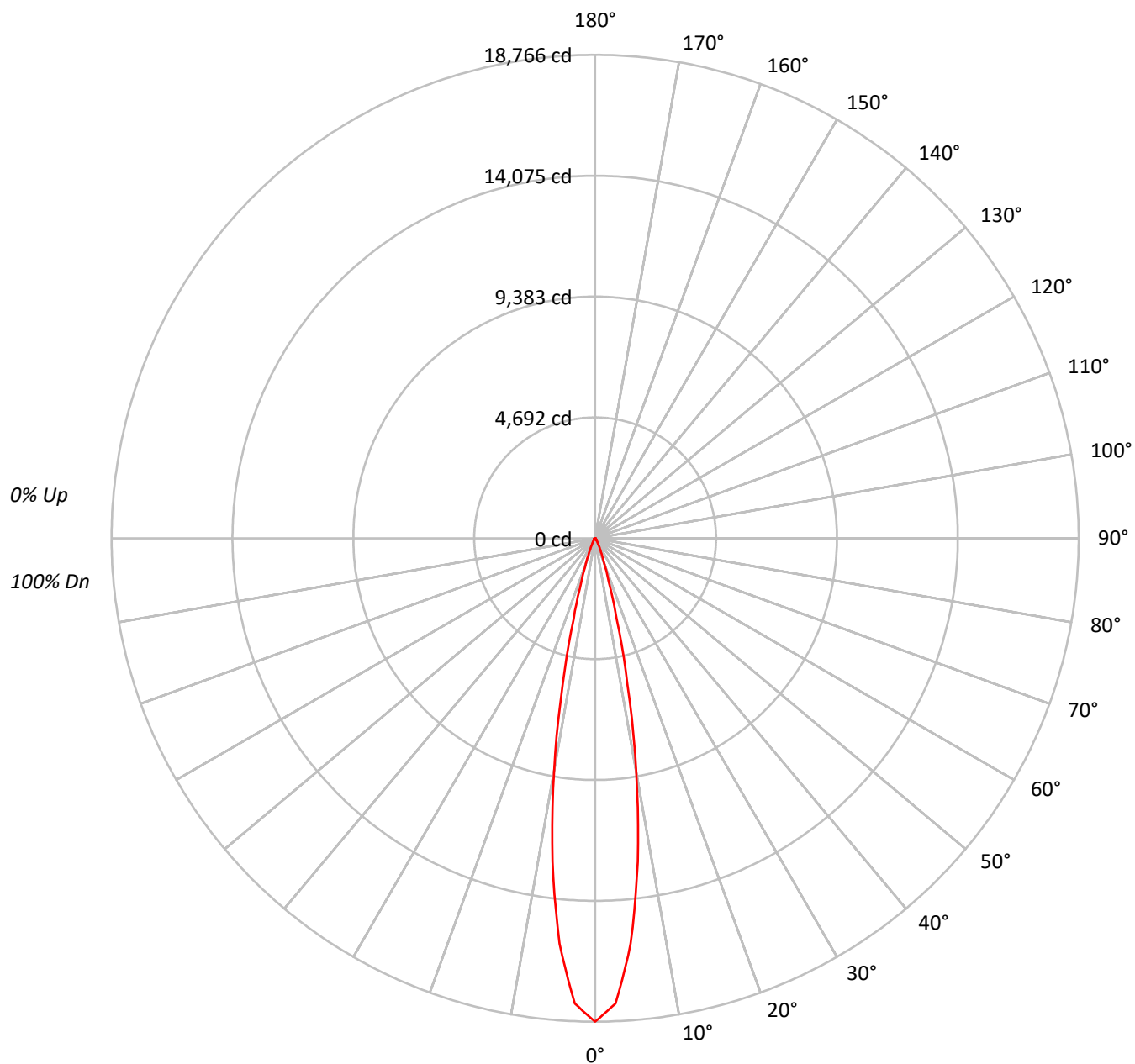
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101		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	95		98	96	94		96
4	105	100	97	94	104	99	96	93	97	94	92		95	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°	9258514
5°	7825818
10°	4596590
15°	1645849
20°	544575
25°	216774
30°	103629
35°	59207
40°	42766
45°	36004
50°	41525
55°	33805
60°	16972
65°	14359
70°	17743
75°	18681
80°	13922
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1293.9	48.3
10°-20°	1009.0	37.6
20°-30°	209.4	7.8
30°-40°	66.0	2.5
40°-50°	42.5	1.6
50°-60°	34.1	1.3
60°-70°	13.4	0.5
70°-80°	10.0	0.4
80°-90°	2.0	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°	2512.3	93.7
0°-40°	2578.3	96.2
0°-60°	2654.9	99.1
0°-90°	2680.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18766	
5°	15801	###
15°	3222	1009
25°	398	209
35°	98	66
45°	52	42
55°	39	34
65°	12	13
75°	10	10
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18765.5
2.5°	18077.3
5°	15801.3
7.5°	12660.2
10°	9175.0
12.5°	5788.2
15°	3222.2
17.5°	1772.1
20°	1037.2
22.5°	634.1
25°	398.2
27.5°	263.0
30°	181.9
32.5°	127.8
35°	98.3
37.5°	78.7
40°	66.4
42.5°	56.5
45°	51.6
47.5°	51.6
50°	54.1
52.5°	51.6
55°	39.3
57.5°	27.0
60°	17.2
62.5°	14.7
65°	12.3
67.5°	12.3
70°	12.3
72.5°	12.3
75°	9.8
77.5°	7.4
80°	4.9
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)