

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: P434011

Luminaire Tested: **LAMR4B308R209730DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434011
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: LAMR4B308R209730DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.9 lumens
Efficiency: N/A
Efficacy: 69.7 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

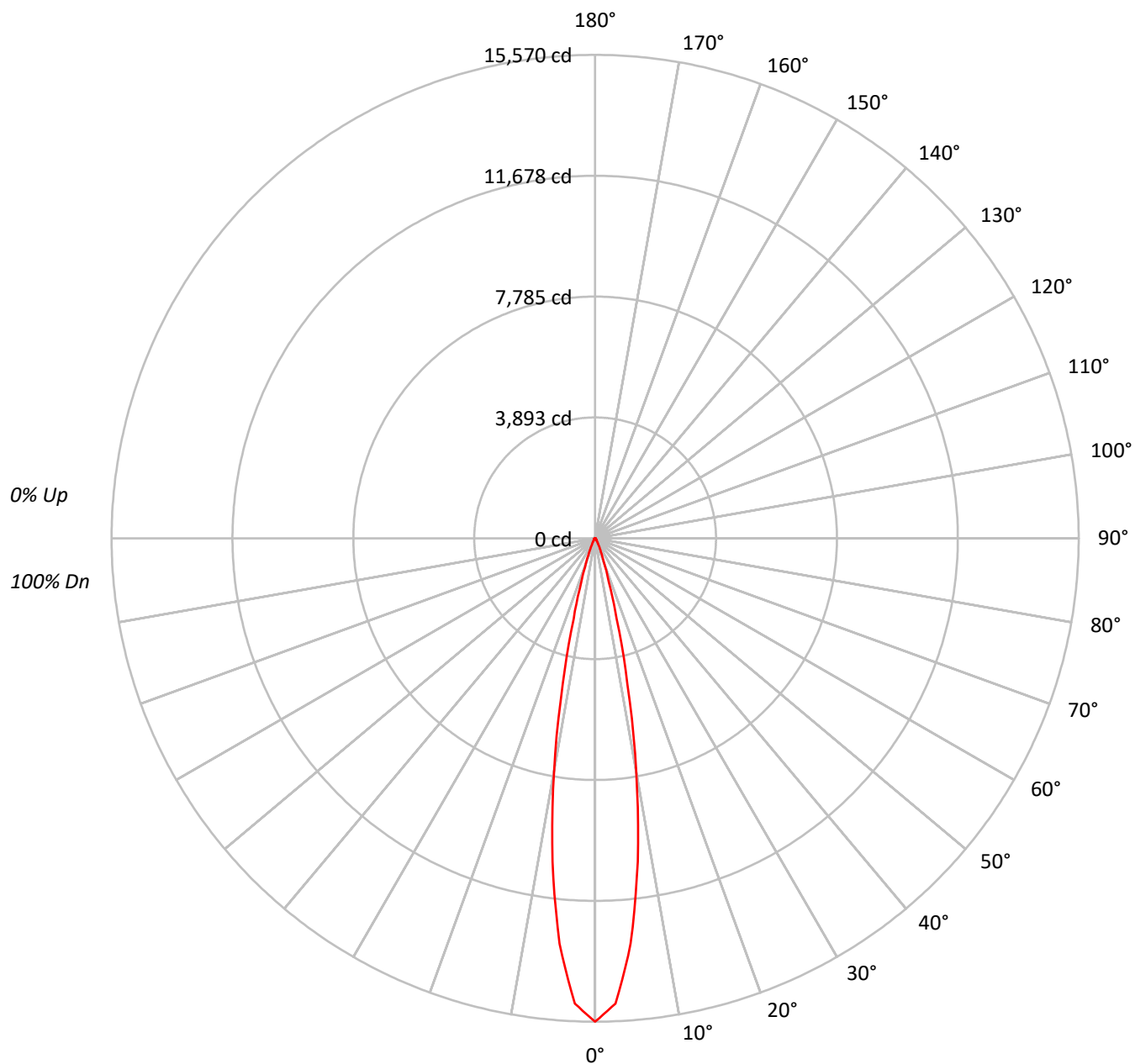
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102		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	96		98	96	94		96
4	105	100	97	94	104	99	96	93	97	94	92		96	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°	7681870
5°	6493161
10°	3813842
15°	1365581
20°	451852
25°	179865
30°	85969
35°	49148
40°	35488
45°	29863
50°	34464
55°	28042
60°	14111
65°	11908
70°	14714
75°	15631
80°	11649
85°	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.5	48.3
10°-20°	837.2	37.6
20°-30°	173.8	7.8
30°-40°	54.8	2.5
40°-50°	35.2	1.6
50°-60°	28.3	1.3
60°-70°	11.1	0.5
70°-80°	8.3	0.4
80°-90°	1.6	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°	2084.5	93.7
0°-40°	2139.3	96.2
0°-60°	2202.8	99.1
0°-90°	2223.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15570	
5°	13110	###
15°	2674	837
25°	330	174
35°	82	55
45°	43	35
55°	33	28
65°	10	11
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15569.9
2.5°	14998.9
5°	13110.5
7.5°	10504.3
10°	7612.6
12.5°	4802.5
15°	2673.5
17.5°	1470.3
20°	860.6
22.5°	526.1
25°	330.4
27.5°	218.2
30°	150.9
32.5°	106.0
35°	81.6
37.5°	65.3
40°	55.1
42.5°	46.9
45°	42.8
47.5°	42.8
50°	44.9
52.5°	42.8
55°	32.6
57.5°	22.4
60°	14.3
62.5°	12.2
65°	10.2
67.5°	10.2
70°	10.2
72.5°	10.2
75°	8.2
77.5°	6.1
80°	4.1
82.5°	2.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)