

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: P434010

Luminaire Tested: **LAMR4B308R209727DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434010
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: LAMR4B308R209727DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.4 lumens
Efficiency: N/A
Efficacy: 65.1 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

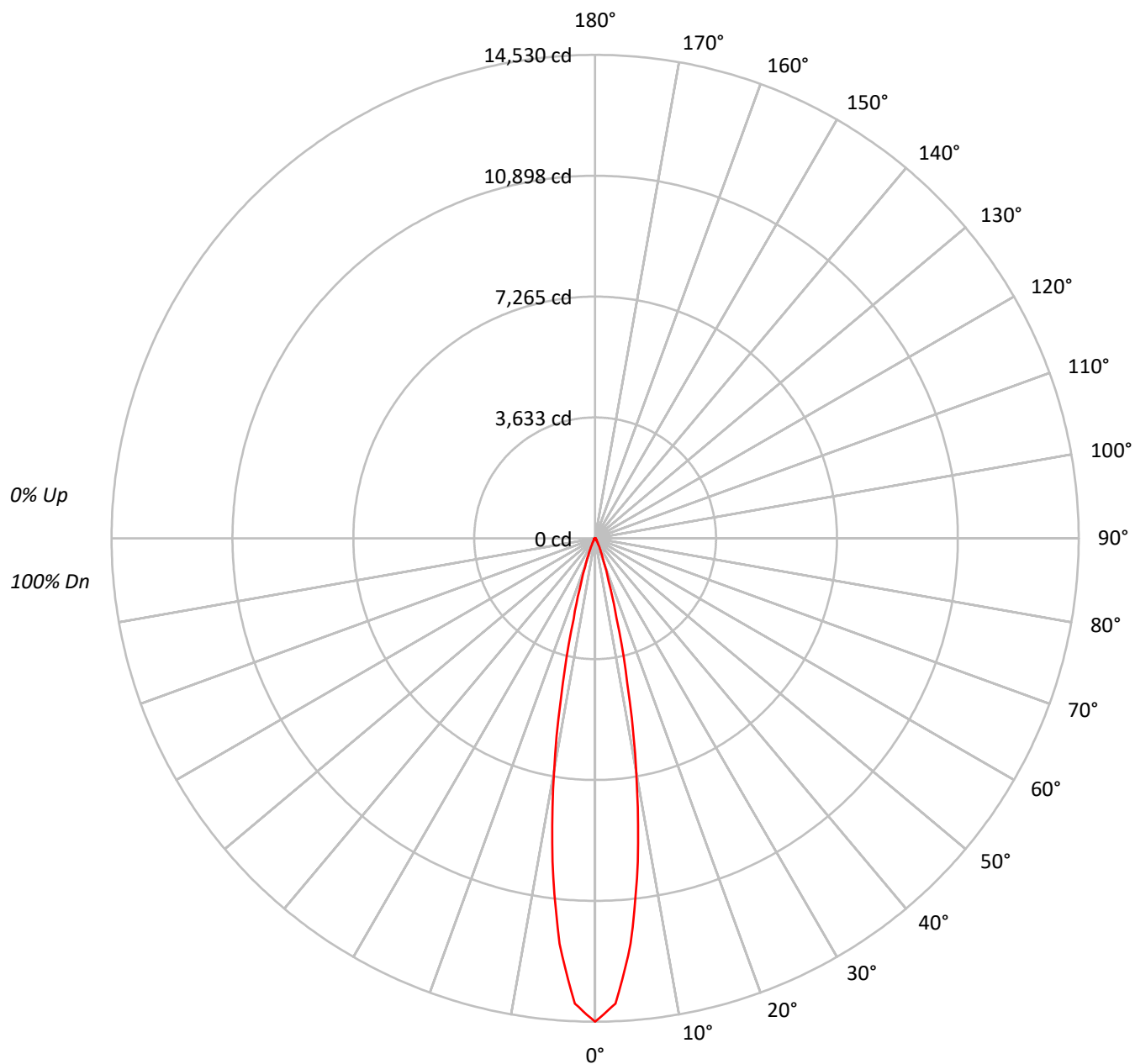
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7168953
5°	6059607
10°	3559188
15°	1274406
20°	421662
25°	167834
30°	80215
35°	45835
40°	33105
45°	27910
50°	32161
55°	26150
60°	13124
65°	11091
70°	13704
75°	14488
80°	10797
85°	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1001.9	48.3
10°-20°	781.3	37.6
20°-30°	162.2	7.8
30°-40°	51.1	2.5
40°-50°	32.9	1.6
50°-60°	26.4	1.3
60°-70°	10.3	0.5
70°-80°	7.8	0.4
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°	1945.3	93.7
0°-40°	1996.4	96.2
0°-60°	2055.7	99.1
0°-90°	2075.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14530	
5°	12235	###
15°	2495	781
25°	308	162
35°	76	51
45°	40	33
55°	30	26
65°	10	10
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14530.3
2.5°	13997.4
5°	12235.1
7.5°	9802.9
10°	7104.3
12.5°	4481.8
15°	2495.0
17.5°	1372.1
20°	803.1
22.5°	491.0
25°	308.3
27.5°	203.6
30°	140.8
32.5°	99.0
35°	76.1
37.5°	60.9
40°	51.4
42.5°	43.8
45°	40.0
47.5°	40.0
50°	41.9
52.5°	40.0
55°	30.4
57.5°	20.9
60°	13.3
62.5°	11.4
65°	9.5
67.5°	9.5
70°	9.5
72.5°	9.5
75°	7.6
77.5°	5.7
80°	3.8
82.5°	1.9
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)