

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: P433960

Luminaire Tested: **LAMR4B308R109727DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R109727DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2026.2 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

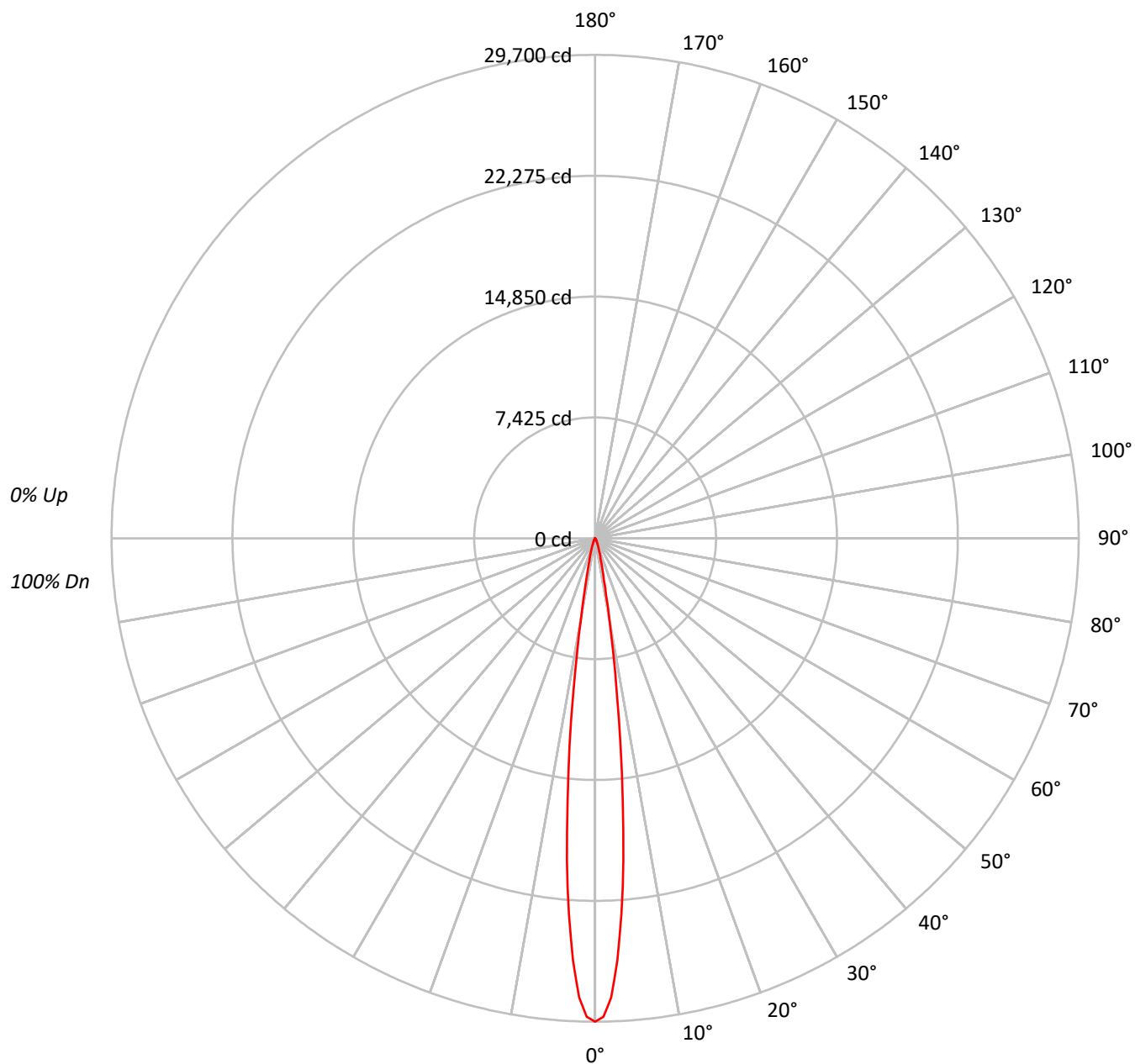
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	99			99
3	110	106	103	101	108	105	102	100		102	100	98			100	98	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			96
6	103	98	95	93	102	98	95	92		97	94	92			95	93	91			94
7	102	97	93	91	101	96	93	91		95	92	90			94	92	90			93
8	100	95	92	89	99	94	91	89		94	91	89			93	90	89			92
9	98	93	90	88	98	93	90	88		92	90	88			92	89	88			91
10	97	92	89	87	96	92	89	87		91	88	87			90	88	86			90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14653471
5°	9842930
10°	2512068
15°	650279
20°	291399
25°	138600
30°	74404
35°	43246
40°	33620
45°	18211
50°	15044
55°	11268
60°	12927
65°	7588
70°	9377
75°	12391
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.8	67.4
10°-20°	434.9	21.5
20°-30°	127.0	6.3
30°-40°	48.3	2.4
40°-50°	23.0	1.1
50°-60°	13.9	0.7
60°-70°	7.2	0.4
70°-80°	6.0	0.3
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°	1927.7	95.1
0°-40°	1976.0	97.5
0°-60°	2012.9	99.3
0°-90°	2026.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29700	
5°	19874	###
15°	1273	435
25°	255	127
35°	72	48
45°	26	23
55°	13	14
65°	6	7
75°	6	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	29700.2
1°	29412.9
2°	28224.6
3°	25959.1
4°	23158.2
5°	19874.1
6°	16244.0
7°	12894.7
8°	9630.2
9°	7018.6
10°	5014.2
11°	3551.7
12°	2631.2
13°	1997.9
14°	1586.5
15°	1273.1
17.5°	829.2
20°	555.0
22.5°	372.1
25°	254.6
27.5°	176.3
30°	130.6
32.5°	91.4
35°	71.8
37.5°	58.8
40°	52.2
42.5°	39.2
45°	26.1
47.5°	19.6
50°	19.6
52.5°	19.6
55°	13.1
57.5°	13.1
60°	13.1
62.5°	6.5
65°	6.5
67.5°	6.5
70°	6.5
72.5°	6.5
75°	6.5
77.5°	6.5
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)