

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: P433944

Luminaire Tested: **LAMR4B308R109024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433944
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: LAMR4B308R109024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2094.0 lumens
Efficiency: N/A
Efficacy: 65.6 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

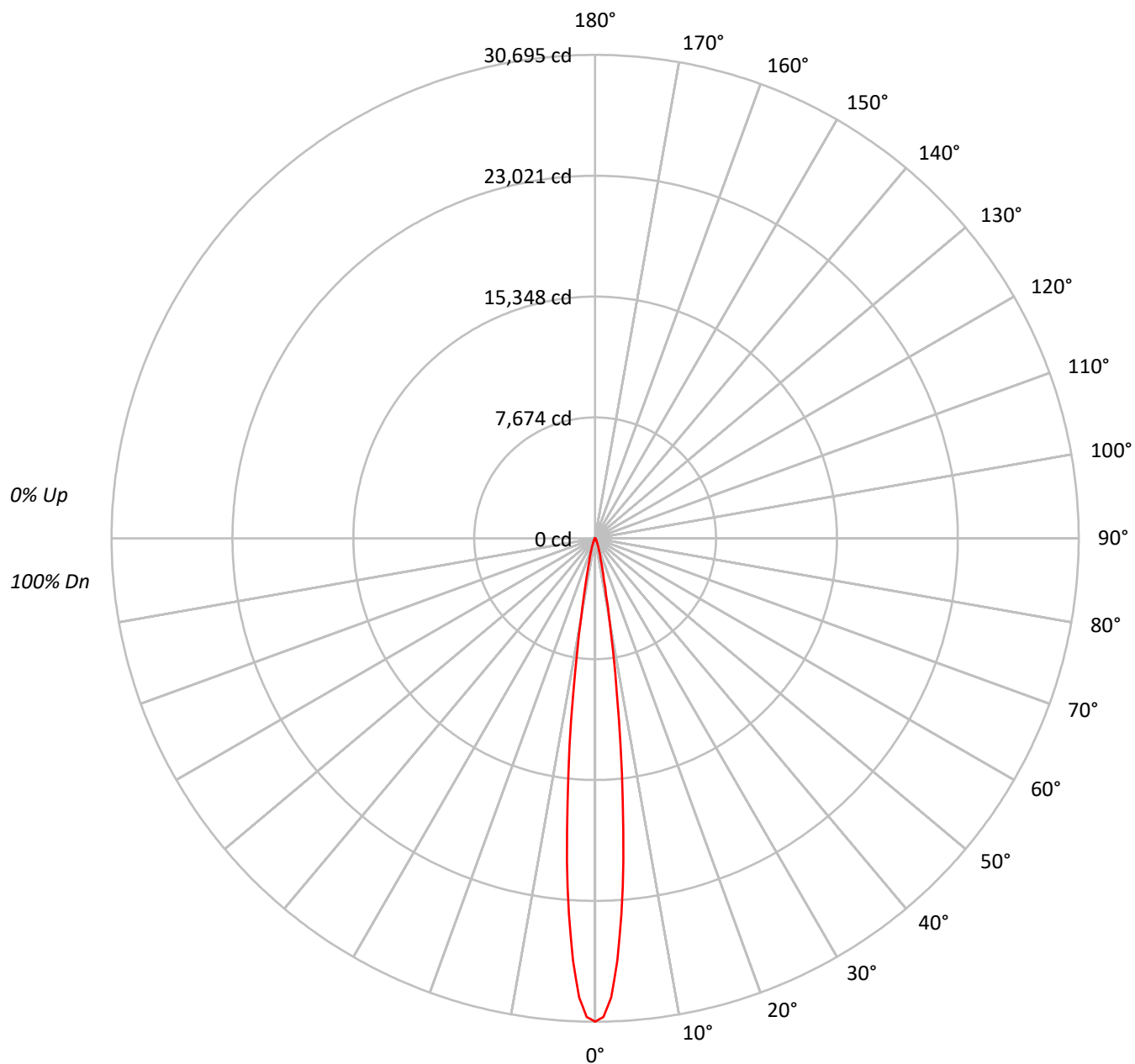
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15144483
5°	10172776
10°	2596284
15°	672090
20°	301165
25°	143282
30°	76910
35°	44691
40°	34779
45°	18839
50°	15505
55°	11612
60°	13321
65°	7822
70°	9665
75°	12772
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1411.6	67.4
10°-20°	449.4	21.5
20°-30°	131.3	6.3
30°-40°	49.9	2.4
40°-50°	23.8	1.1
50°-60°	14.3	0.7
60°-70°	7.5	0.4
70°-80°	6.2	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°	1992.3	95.1
0°-40°	2042.3	97.5
0°-60°	2080.3	99.3
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	30695	
5°	20540	###
15°	1316	449
25°	263	131
35°	74	50
45°	27	24
55°	14	14
65°	7	7
75°	7	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	30695.4
1°	30398.5
2°	29170.4
3°	26829.0
4°	23934.2
5°	20540.1
6°	16788.3
7°	13326.8
8°	9952.9
9°	7253.8
10°	5182.3
11°	3670.8
12°	2719.3
13°	2064.8
14°	1639.7
15°	1315.8
17.5°	857.0
20°	573.6
22.5°	384.6
25°	263.2
27.5°	182.2
30°	135.0
32.5°	94.5
35°	74.2
37.5°	60.7
40°	54.0
42.5°	40.5
45°	27.0
47.5°	20.2
50°	20.2
52.5°	20.2
55°	13.5
57.5°	13.5
60°	13.5
62.5°	6.7
65°	6.7
67.5°	6.7
70°	6.7
72.5°	6.7
75°	6.7
77.5°	6.7
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)