

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: P432708

Luminaire Tested: **LAM4B308R109040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432708
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: LAM4B308R109040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.7 lumens
Efficiency: N/A
Efficacy: 82.0 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

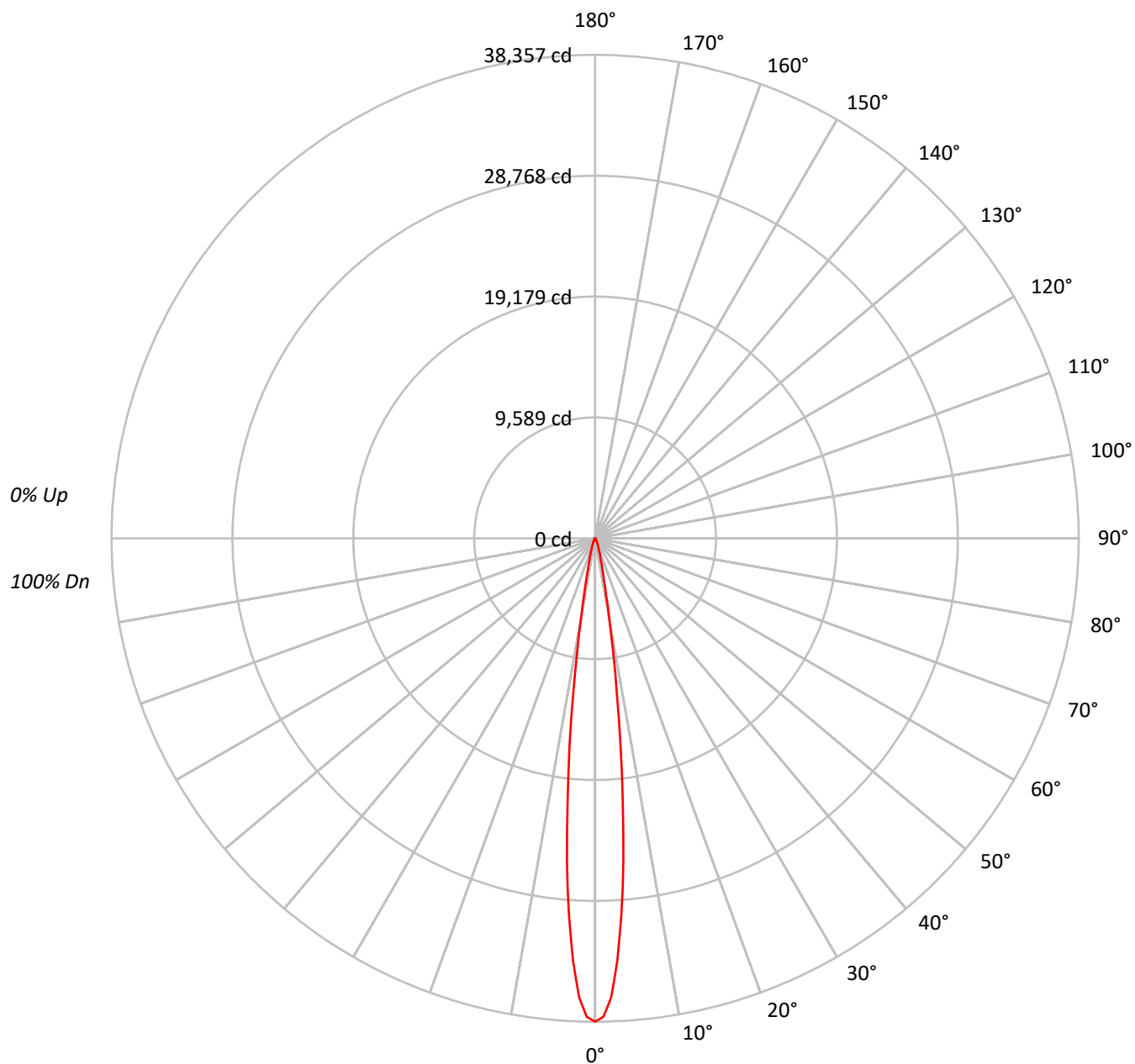
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98		
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96		
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94		
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93		
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91		
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90		
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89		
8	100	95	92	89	99	94	91	89	94	91	89	93	90	89	92	90	88	88		
9	98	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87		
10	97	92	89	87	96	92	89	87	91	88	87	90	88	86	90	88	86	86		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18924510
5°	12711896
10°	3244266
15°	839831
20°	376299
25°	178993
30°	96052
35°	55894
40°	43474
45°	23514
50°	19419
55°	14537
60°	16676
65°	9806
70°	12117
75°	16013
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1763.9	67.4
10°-20°	561.6	21.5
20°-30°	164.0	6.3
30°-40°	62.4	2.4
40°-50°	29.7	1.1
50°-60°	17.9	0.7
60°-70°	9.4	0.4
70°-80°	7.8	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°	2489.6	95.1
0°-40°	2552.0	97.5
0°-60°	2599.6	99.3
0°-90°	2616.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	38357	
5°	25667	###
15°	1644	562
25°	329	164
35°	93	62
45°	34	30
55°	17	18
65°	8	9
75°	8	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	38356.9
1°	37985.9
2°	36451.3
3°	33525.4
4°	29908.1
5°	25666.9
6°	20978.7
7°	16653.1
8°	12437.1
9°	9064.3
10°	6475.7
11°	4587.0
12°	3398.1
13°	2580.2
14°	2049.0
15°	1644.2
17.5°	1070.9
20°	716.7
22.5°	480.6
25°	328.8
27.5°	227.7
30°	168.6
32.5°	118.0
35°	92.8
37.5°	75.9
40°	67.5
42.5°	50.6
45°	33.7
47.5°	25.3
50°	25.3
52.5°	25.3
55°	16.9
57.5°	16.9
60°	16.9
62.5°	8.4
65°	8.4
67.5°	8.4
70°	8.4
72.5°	8.4
75°	8.4
77.5°	8.4
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)