

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: P433140

Luminaire Tested: **LAM4B408R359040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R359040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3514.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

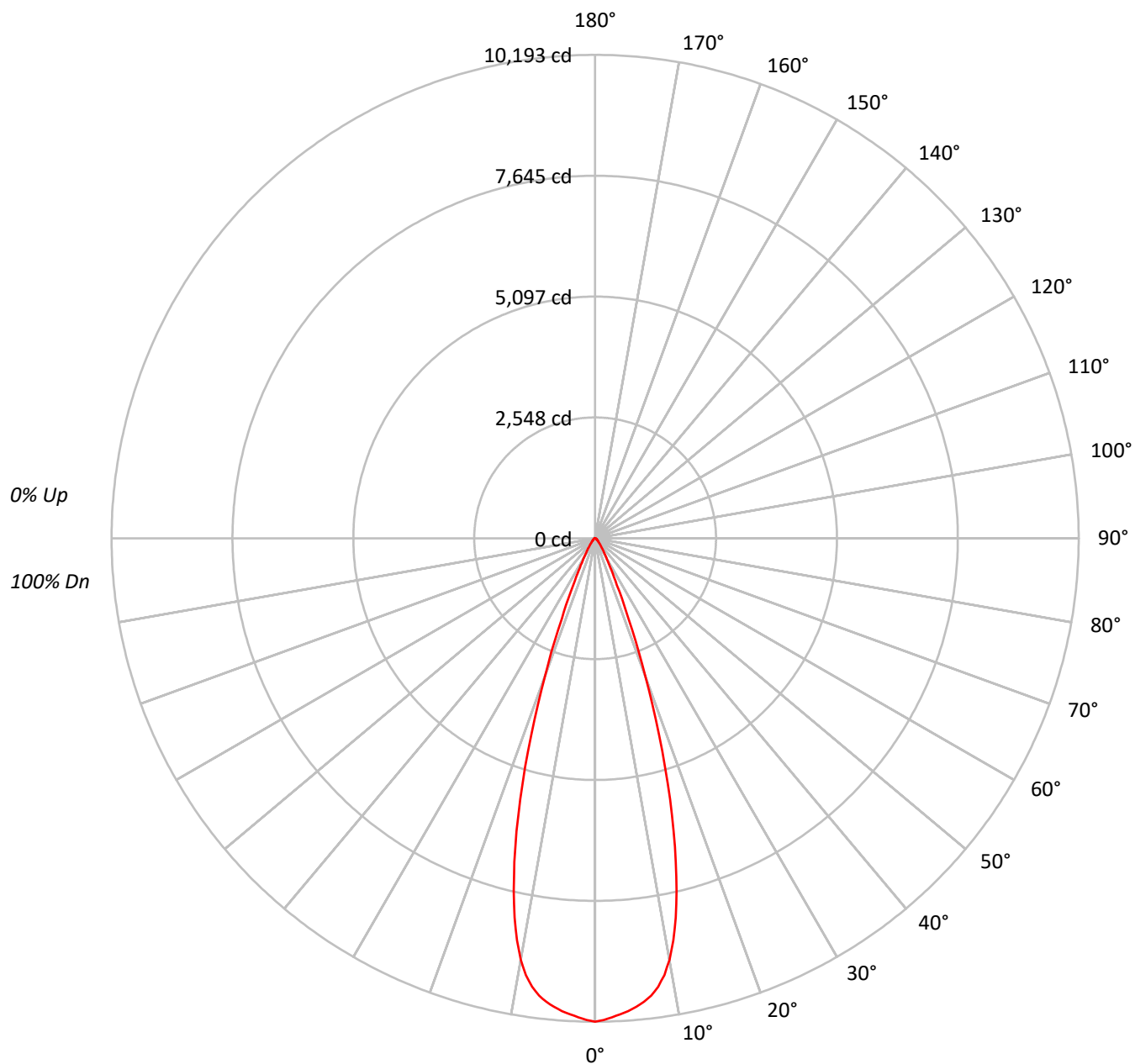
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106		106	105	103			102	101	100			99
2	110	106	103	100	108	104	101	99		101	99	97			98	96	95			96
3	106	101	97	94	104	100	96	93		97	94	92			95	92	90			93
4	102	96	92	89	101	95	91	88		93	90	87			91	88	86			90
5	99	92	88	84	97	91	87	84		90	86	83			88	85	83			87
6	96	89	84	81	94	88	84	80		87	83	80			85	82	79			84
7	92	85	81	77	91	85	80	77		84	80	77			82	79	76			81
8	90	82	78	74	88	82	77	74		81	77	74			80	76	74			79
9	87	79	75	72	86	79	75	72		78	74	71			77	74	71			77
10	84	77	72	69	83	76	72	69		76	72	69			75	71	69			74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5029018
5°	4913070
10°	4521291
15°	3267843
20°	1614351
25°	592235
30°	267021
35°	145396
40°	90104
45°	60983
50°	45670
55°	39138
60°	34537
65°	32688
70°	30293
75°	26688
80°	29833
85°	19813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.8	26.2
10°-20°	1684.6	47.9
20°-30°	586.5	16.7
30°-40°	162.6	4.6
40°-50°	70.6	2.0
50°-60°	41.0	1.2
60°-70°	27.7	0.8
70°-80°	15.2	0.4
80°-90°	4.3	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°	3192.9	90.9
0°-40°	3355.5	95.5
0°-60°	3467.1	98.7
0°-90°	3514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10193	
5°	9920	922
15°	6398	1685
25°	1088	587
35°	241	163
45°	87	71
55°	46	41
65°	28	28
75°	14	15
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10193.0
1°	10158.0
2°	10105.5
3°	10053.1
4°	9993.6
5°	9920.1
6°	9829.2
7°	9717.3
8°	9545.9
9°	9325.5
10°	9024.7
11°	8639.9
12°	8174.7
13°	7629.0
14°	7030.9
15°	6397.7
16°	5722.6
17°	5044.0
18°	4361.9
19°	3704.3
20°	3074.7
22.5°	1832.9
25°	1087.9
26°	906.0
27°	755.6
28°	640.1
29°	545.7
30°	468.7
32.5°	332.3
35°	241.4
37.5°	181.9
40°	139.9
42.5°	108.4
45°	87.4
47.5°	73.5
50°	59.5
52.5°	52.5
55°	45.5
57.5°	38.5
60°	35.0
62.5°	31.5
65°	28.0
67.5°	24.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	14.0
77.5°	10.5
80°	10.5
82.5°	7.0
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







70°	21.0
72.5°	17.5



(END OF REPORT)