

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: P433136

Luminaire Tested: **LAM4B408R359035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433136
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: LAM4B408R359035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.8 lumens
Efficiency: N/A
Efficacy: 80.2 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

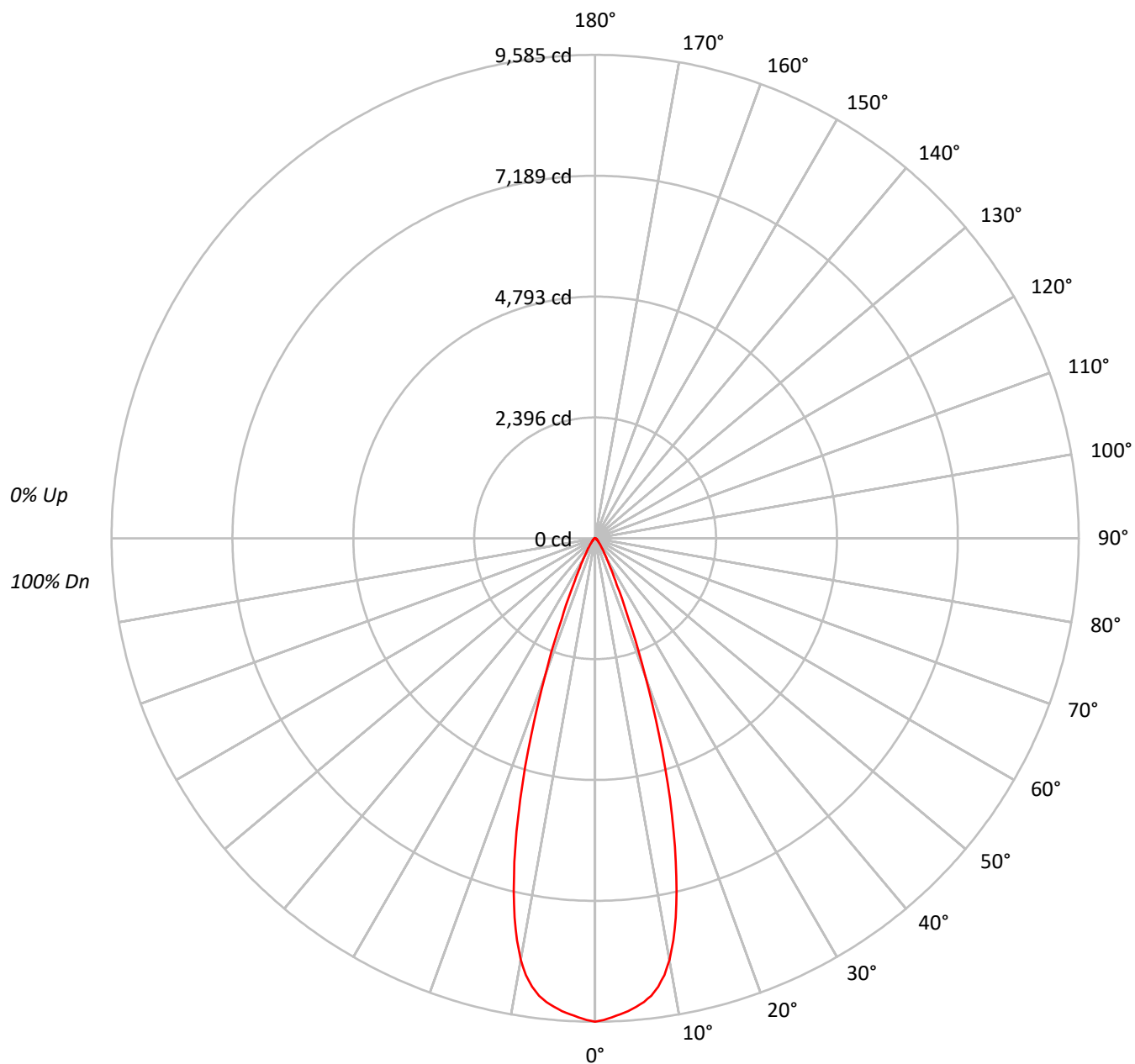
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4729240
5°	4620220
10°	4251758
15°	3073081
20°	1518111
25°	556905
30°	251126
35°	136723
40°	84758
45°	57355
50°	42907
55°	36816
60°	32464
65°	30704
70°	28418
75°	25163
80°	28128
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.8	26.2
10°-20°	1584.2	47.9
20°-30°	551.5	16.7
30°-40°	152.9	4.6
40°-50°	66.4	2.0
50°-60°	38.5	1.2
60°-70°	26.0	0.8
70°-80°	14.3	0.4
80°-90°	4.0	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°	3002.6	90.9
0°-40°	3155.5	95.5
0°-60°	3260.4	98.7
0°-90°	3304.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9585	
5°	9329	867
15°	6016	1584
25°	1023	552
35°	227	153
45°	82	66
55°	43	39
65°	26	26
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9585.4
1°	9552.5
2°	9503.2
3°	9453.8
4°	9397.9
5°	9328.8
6°	9243.3
7°	9138.0
8°	8976.9
9°	8769.6
10°	8486.7
11°	8124.9
12°	7687.4
13°	7174.3
14°	6611.8
15°	6016.4
16°	5381.5
17°	4743.4
18°	4101.9
19°	3483.5
20°	2891.4
22.5°	1723.7
25°	1023.0
26°	852.0
27°	710.5
28°	602.0
29°	513.2
30°	440.8
32.5°	312.5
35°	227.0
37.5°	171.1
40°	131.6
42.5°	102.0
45°	82.2
47.5°	69.1
50°	55.9
52.5°	49.3
55°	42.8
57.5°	36.2
60°	32.9
62.5°	29.6
65°	26.3
67.5°	23.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	13.2
77.5°	9.9
80°	9.9
82.5°	6.6
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







70°	19.7
72.5°	16.4



(END OF REPORT)