

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: P433133

Luminaire Tested: **LAM4B408R359030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433133
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: LAM4B408R359030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.8 lumens
Efficiency: N/A
Efficacy: 76.6 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

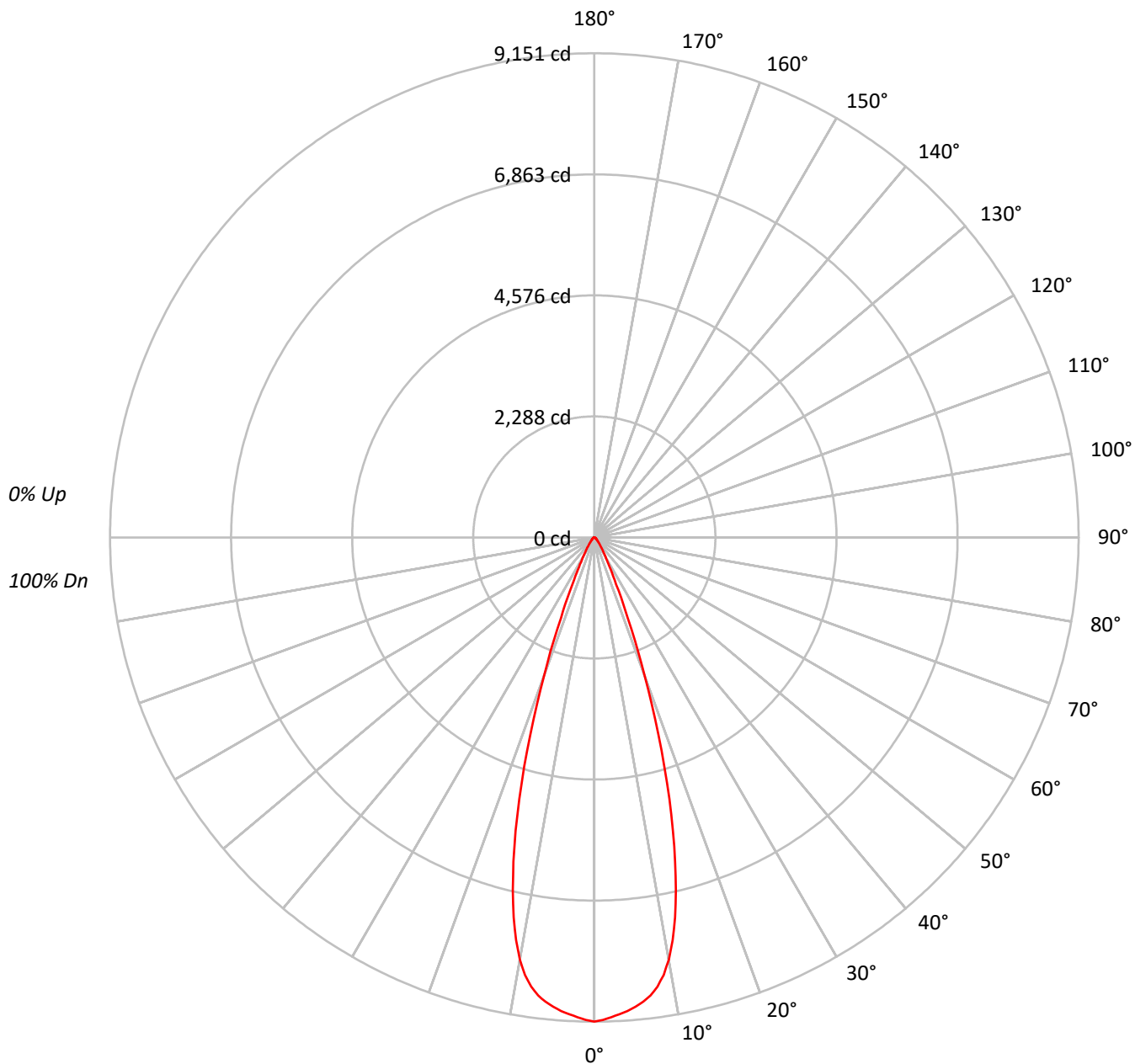
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
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°	4514719
5°	4410625
10°	4058877
15°	2933637
20°	1449225
25°	531646
30°	239732
35°	130520
40°	80894
45°	54773
50°	40988
55°	35095
60°	30984
65°	29303
70°	27120
75°	24019
80°	26708
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.5	26.2
10°-20°	1512.3	47.9
20°-30°	526.5	16.7
30°-40°	145.9	4.6
40°-50°	63.4	2.0
50°-60°	36.8	1.2
60°-70°	24.9	0.8
70°-80°	13.7	0.4
80°-90°	3.8	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°	2866.4	90.9
0°-40°	3012.3	95.5
0°-60°	3112.5	98.7
0°-90°	3154.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9151	
5°	8906	828
15°	5743	1512
25°	977	527
35°	217	146
45°	78	63
55°	41	37
65°	25	25
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9150.6
1°	9119.2
2°	9072.1
3°	9025.0
4°	8971.6
5°	8905.6
6°	8824.0
7°	8723.5
8°	8569.6
9°	8371.8
10°	8101.7
11°	7756.3
12°	7338.7
13°	6848.8
14°	6311.8
15°	5743.4
16°	5137.4
17°	4528.2
18°	3915.8
19°	3325.5
20°	2760.2
22.5°	1645.5
25°	976.6
26°	813.3
27°	678.3
28°	574.7
29°	489.9
30°	420.8
32.5°	298.3
35°	216.7
37.5°	163.3
40°	125.6
42.5°	97.3
45°	78.5
47.5°	65.9
50°	53.4
52.5°	47.1
55°	40.8
57.5°	34.5
60°	31.4
62.5°	28.3
65°	25.1
67.5°	22.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	12.6
77.5°	9.4
80°	9.4
82.5°	6.3
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°	18.8
72.5°	15.7



(END OF REPORT)