

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: P432804

Luminaire Tested: **LAM4B308R309040DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R309040DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

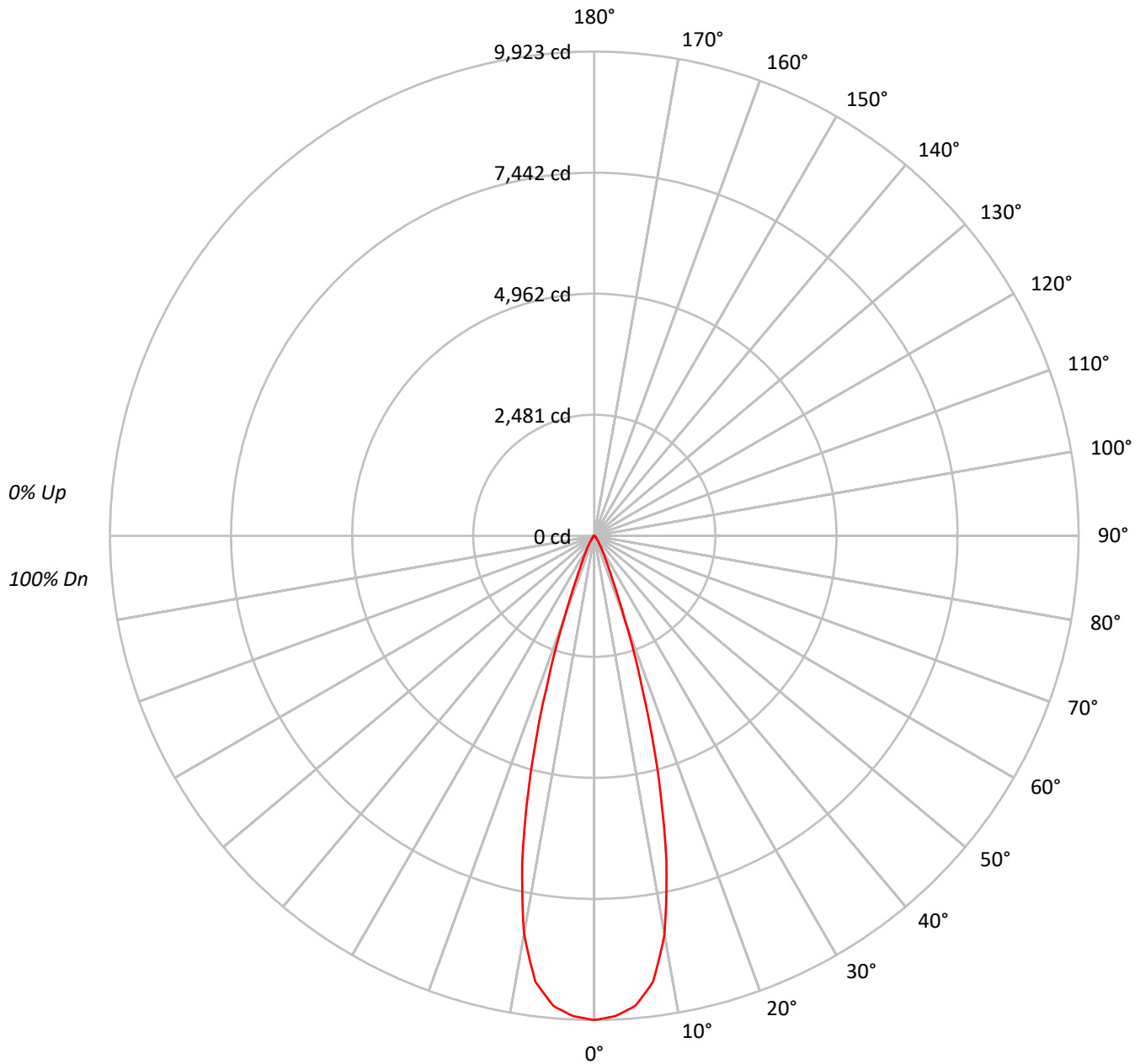
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432804

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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			100
1	115	113	111	109		112	111	109	107		107	105	104			103	102	101			96
2	111	107	104	102		109	106	103	100		102	100	98			100	98	96			93
3	107	103	99	96		105	101	98	95		99	96	94			96	94	92			90
4	104	98	94	91		102	97	94	91		95	92	90			93	91	89			87
5	101	95	90	87		99	94	90	87		92	89	86			91	88	86			84
6	98	91	87	84		97	91	87	84		89	86	83			88	85	83			81
7	95	88	84	81		94	88	84	81		87	83	81			86	83	80			79
8	92	86	81	79		91	85	81	78		84	81	78			83	80	78			77
9	90	83	79	76		89	83	79	76		82	78	76			81	78	76			74
10	88	81	77	74		87	80	77	74		80	76	74			79	76	74			72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4895756
5°	4788808
10°	4152161
15°	2573484
20°	943241
25°	315307
30°	154732
35°	77155
40°	47854
45°	30422
50°	21645
55°	17634
60°	15196
65°	12025
70°	14858
75°	14678
80°	14490
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.2	32.6
10°-20°	1330.4	49.2
20°-30°	324.4	12.0
30°-40°	88.8	3.3
40°-50°	35.8	1.3
50°-60°	19.1	0.7
60°-70°	11.4	0.4
70°-80°	8.8	0.3
80°-90°	2.1	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°	2536.0	93.9
0°-40°	2624.9	97.1
0°-60°	2679.8	99.2
0°-90°	2702.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9923	
5°	9669	881
15°	5038	1330
25°	579	324
35°	128	89
45°	44	36
55°	20	19
65°	10	11
75°	8	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9922.9
2.5°	9856.3
5°	9669.2
7.5°	9223.3
10°	8287.9
12.5°	6822.0
15°	5038.3
17.5°	3247.0
20°	1796.5
22.5°	958.5
25°	579.2
27.5°	392.1
30°	271.6
32.5°	184.5
35°	128.1
37.5°	94.8
40°	74.3
42.5°	56.4
45°	43.6
47.5°	35.9
50°	28.2
52.5°	25.6
55°	20.5
57.5°	17.9
60°	15.4
62.5°	12.8
65°	10.3
67.5°	10.3
70°	10.3
72.5°	10.3
75°	7.7
77.5°	7.7
80°	5.1
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)