

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: P432874

Luminaire Tested: **LAM4B308R459040DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R459040DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2674.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

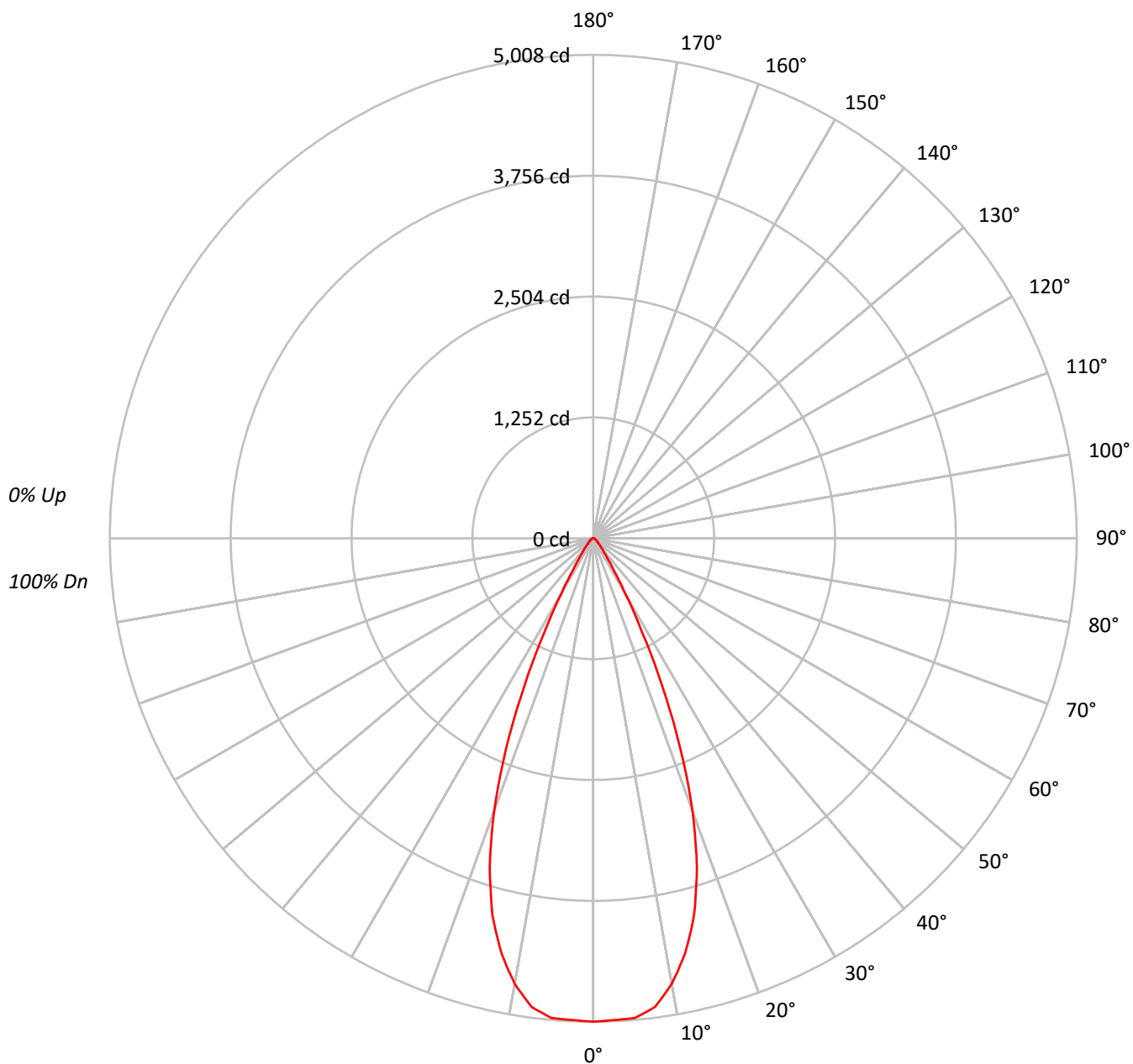
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2471042
5°	2470180
10°	2347943
15°	2062495
20°	1577756
25°	921098
30°	376974
35°	159430
40°	86884
45°	56099
50°	43828
55°	37934
60°	30688
65°	24283
70°	22504
75°	19825
80°	22162
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	17.5
10°-20°	1099.3	41.1
20°-30°	774.5	29.0
30°-40°	190.6	7.1
40°-50°	66.5	2.5
50°-60°	39.4	1.5
60°-70°	21.8	0.8
70°-80°	12.0	0.4
80°-90°	3.2	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°	2340.6	87.5
0°-40°	2531.2	94.7
0°-60°	2637.1	98.6
0°-90°	2674.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5008	
5°	4988	467
15°	4038	1099
25°	1692	775
35°	265	191
45°	80	67
55°	44	39
65°	21	22
75°	10	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5008.4
2.5°	4995.4
5°	4987.6
7.5°	4896.8
10°	4686.6
12.5°	4401.2
15°	4037.9
17.5°	3568.2
20°	3005.0
22.5°	2358.9
25°	1692.0
27.5°	1092.5
30°	661.7
32.5°	402.2
35°	264.7
37.5°	186.8
40°	134.9
42.5°	103.8
45°	80.4
47.5°	67.5
50°	57.1
52.5°	49.3
55°	44.1
57.5°	38.9
60°	31.1
62.5°	26.0
65°	20.8
67.5°	18.2
70°	15.6
72.5°	13.0
75°	10.4
77.5°	10.4
80°	7.8
82.5°	5.2
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)