

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: P432870

Luminaire Tested: **LAM4B308R459030DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432870
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: LAM4B308R459030DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.6 lumens
Efficiency: N/A
Efficacy: 75.3 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

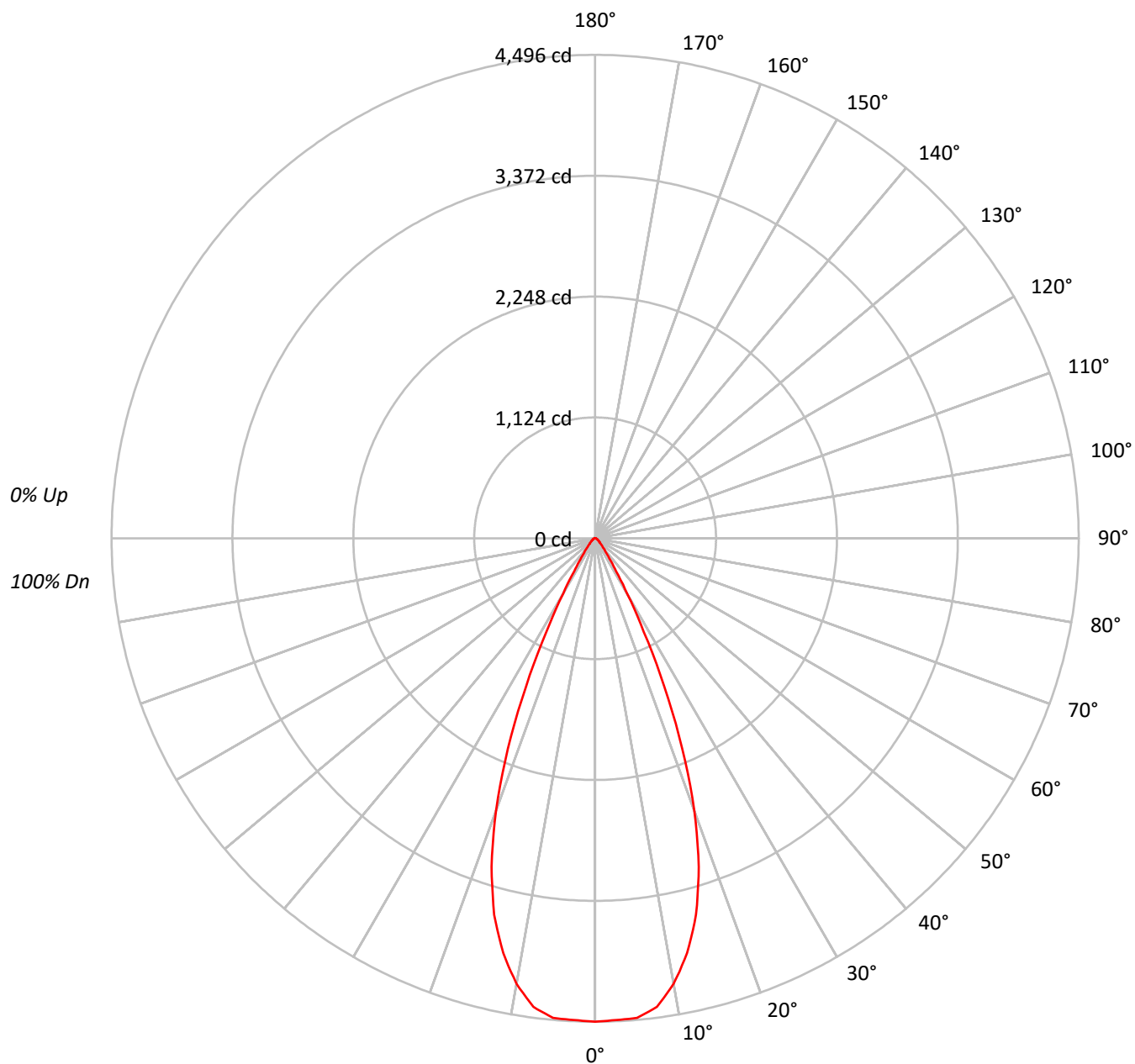
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	109	107		112	109	107	105		105	104	102		102	100	99		98	97	96
2	109	105	101	98		107	103	100	97		100	97	95		97	95	93		94	93	91
3	105	99	94	91		103	98	93	90		95	92	89		93	90	87		90	88	86
4	100	94	89	85		99	93	88	85		90	87	84		89	85	83		87	84	82
5	96	89	84	80		95	88	83	80		86	82	79		85	81	78		83	80	78
6	92	85	79	76		91	84	79	75		82	78	75		81	77	74		80	77	74
7	89	81	75	72		87	80	75	72		79	74	71		78	74	71		77	73	71
8	85	77	72	68		84	77	72	68		76	71	68		75	71	68		74	70	67
9	82	74	69	65		81	73	68	65		72	68	65		72	68	65		71	67	65
10	79	71	66	62		78	70	66	62		70	65	62		69	65	62		68	65	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2218333
5°	2217595
10°	2107818
15°	1851541
20°	1416410
25°	826865
30°	338462
35°	143108
40°	77996
45°	50377
50°	39376
55°	34063
60°	27629
65°	21714
70°	20196
75°	17728
80°	19889
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	17.5
10°-20°	986.9	41.1
20°-30°	695.3	29.0
30°-40°	171.1	7.1
40°-50°	59.7	2.5
50°-60°	35.4	1.5
60°-70°	19.6	0.8
70°-80°	10.7	0.4
80°-90°	2.9	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°	2101.2	87.5
0°-40°	2272.3	94.7
0°-60°	2367.4	98.6
0°-90°	2400.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4496	
5°	4478	419
15°	3625	987
25°	1519	695
35°	238	171
45°	72	60
55°	40	35
65°	19	20
75°	9	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4496.2
2.5°	4484.6
5°	4477.6
7.5°	4396.0
10°	4207.3
12.5°	3951.1
15°	3624.9
17.5°	3203.3
20°	2697.7
22.5°	2117.6
25°	1518.9
27.5°	980.8
30°	594.1
32.5°	361.1
35°	237.6
37.5°	167.7
40°	121.1
42.5°	93.2
45°	72.2
47.5°	60.6
50°	51.3
52.5°	44.3
55°	39.6
57.5°	34.9
60°	28.0
62.5°	23.3
65°	18.6
67.5°	16.3
70°	14.0
72.5°	11.6
75°	9.3
77.5°	9.3
80°	7.0
82.5°	4.7
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)