

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: P432261

Luminaire Tested: **LAM4B108R459730DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432261
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: LAM4B108R459730DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 725.4 lumens
Efficiency: N/A
Efficacy: 63.6 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

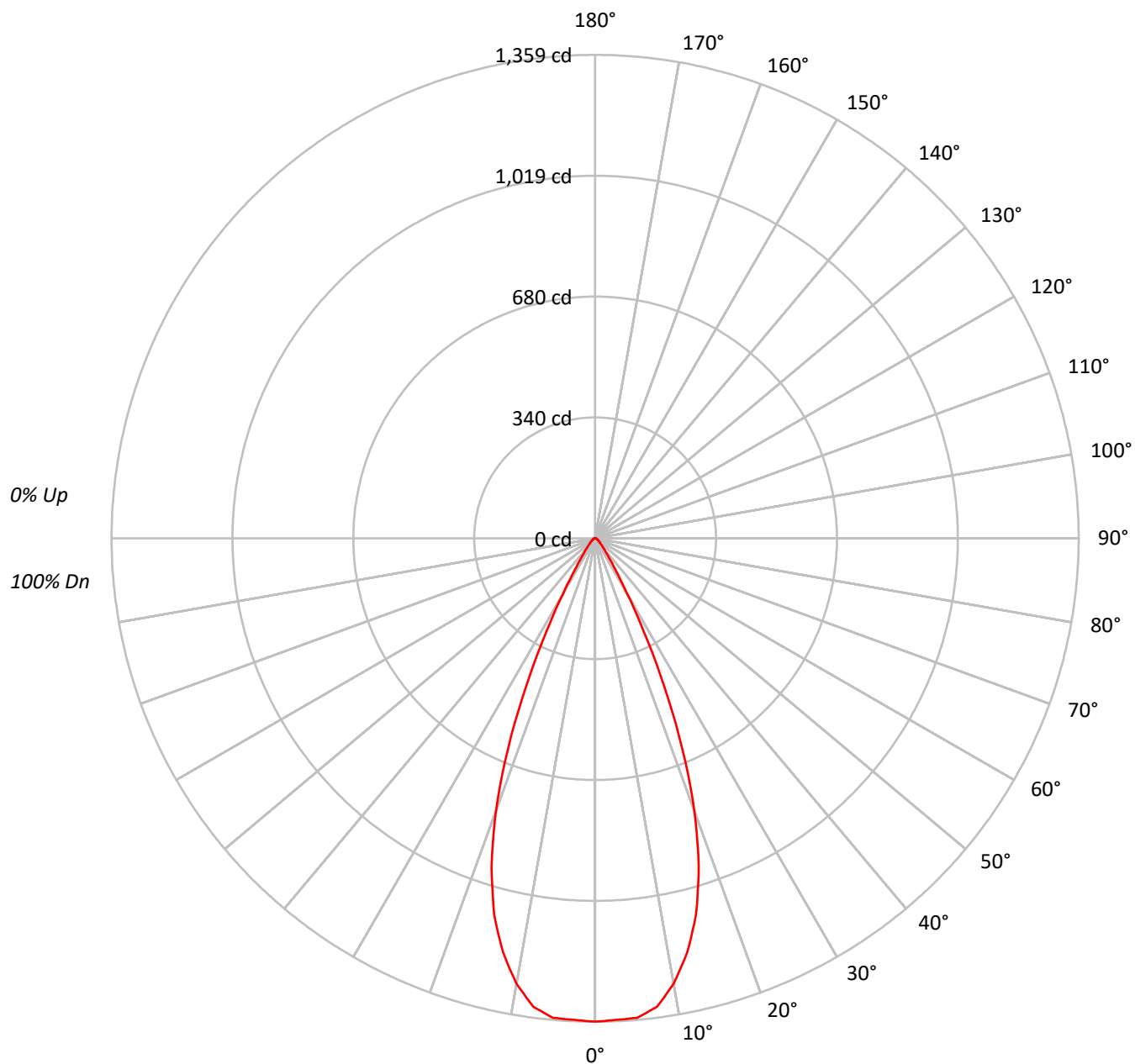
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	670355
5°	670142
10°	636960
15°	559513
20°	428016
25°	249872
30°	102262
35°	43246
40°	23573
45°	15211
50°	11897
55°	10322
60°	8289
65°	6538
70°	6059
75°	5338
80°	5967
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	17.5
10°-20°	298.2	41.1
20°-30°	210.1	29.0
30°-40°	51.7	7.1
40°-50°	18.0	2.5
50°-60°	10.7	1.5
60°-70°	5.9	0.8
70°-80°	3.2	0.4
80°-90°	0.9	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°	635.0	87.5
0°-40°	686.7	94.7
0°-60°	715.4	98.6
0°-90°	725.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1359	
5°	1353	127
15°	1095	298
25°	459	210
35°	72	52
45°	22	18
55°	12	11
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1358.7
2.5°	1355.2
5°	1353.1
7.5°	1328.5
10°	1271.4
12.5°	1194.0
15°	1095.4
17.5°	968.0
20°	815.2
22.5°	639.9
25°	459.0
27.5°	296.4
30°	179.5
32.5°	109.1
35°	71.8
37.5°	50.7
40°	36.6
42.5°	28.2
45°	21.8
47.5°	18.3
50°	15.5
52.5°	13.4
55°	12.0
57.5°	10.6
60°	8.4
62.5°	7.0
65°	5.6
67.5°	4.9
70°	4.2
72.5°	3.5
75°	2.8
77.5°	2.8
80°	2.1
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)