

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: P433499

Luminaire Tested: **LAMR4B108R459040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433499
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: LAMR4B108R459040DE010x1MMS
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: 874.3 lumens
Efficiency: N/A
Efficacy: 76.7 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

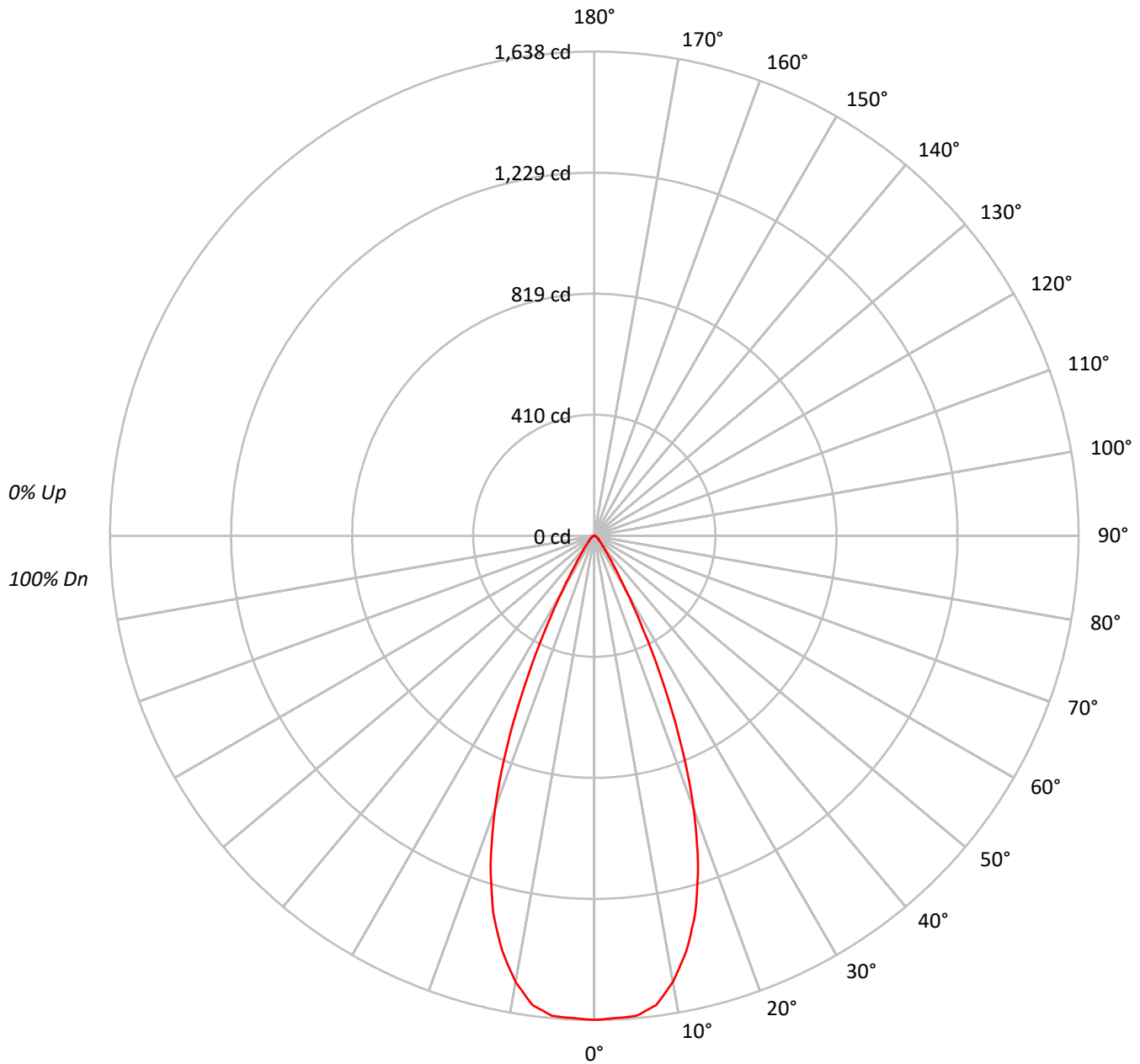
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	807958
5°	807677
10°	767718
15°	674388
20°	515908
25°	301153
30°	123284
35°	52099
40°	28403
45°	18351
50°	14353
55°	12387
60°	10065
65°	7939
70°	7357
75°	6481
80°	7103
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	17.5
10°-20°	359.4	41.1
20°-30°	253.3	29.0
30°-40°	62.3	7.1
40°-50°	21.8	2.5
50°-60°	12.9	1.5
60°-70°	7.1	0.8
70°-80°	3.9	0.4
80°-90°	1.0	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°	765.3	87.5
0°-40°	827.6	94.7
0°-60°	862.2	98.6
0°-90°	874.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	874.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1638	
5°	1631	153
15°	1320	359
25°	553	253
35°	86	62
45°	26	22
55°	14	13
65°	7	7
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1637.6
2.5°	1633.4
5°	1630.8
7.5°	1601.1
10°	1532.4
12.5°	1439.1
15°	1320.3
17.5°	1166.7
20°	982.6
22.5°	771.3
25°	553.2
27.5°	357.2
30°	216.4
32.5°	131.5
35°	86.5
37.5°	61.1
40°	44.1
42.5°	33.9
45°	26.3
47.5°	22.1
50°	18.7
52.5°	16.1
55°	14.4
57.5°	12.7
60°	10.2
62.5°	8.5
65°	6.8
67.5°	5.9
70°	5.1
72.5°	4.2
75°	3.4
77.5°	3.4
80°	2.5
82.5°	1.7
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)