

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: P432551

Luminaire Tested: **LAM4B208R459024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432551
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: LAM4B208R459024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1406.4 lumens
Efficiency: N/A
Efficacy: 68.3 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

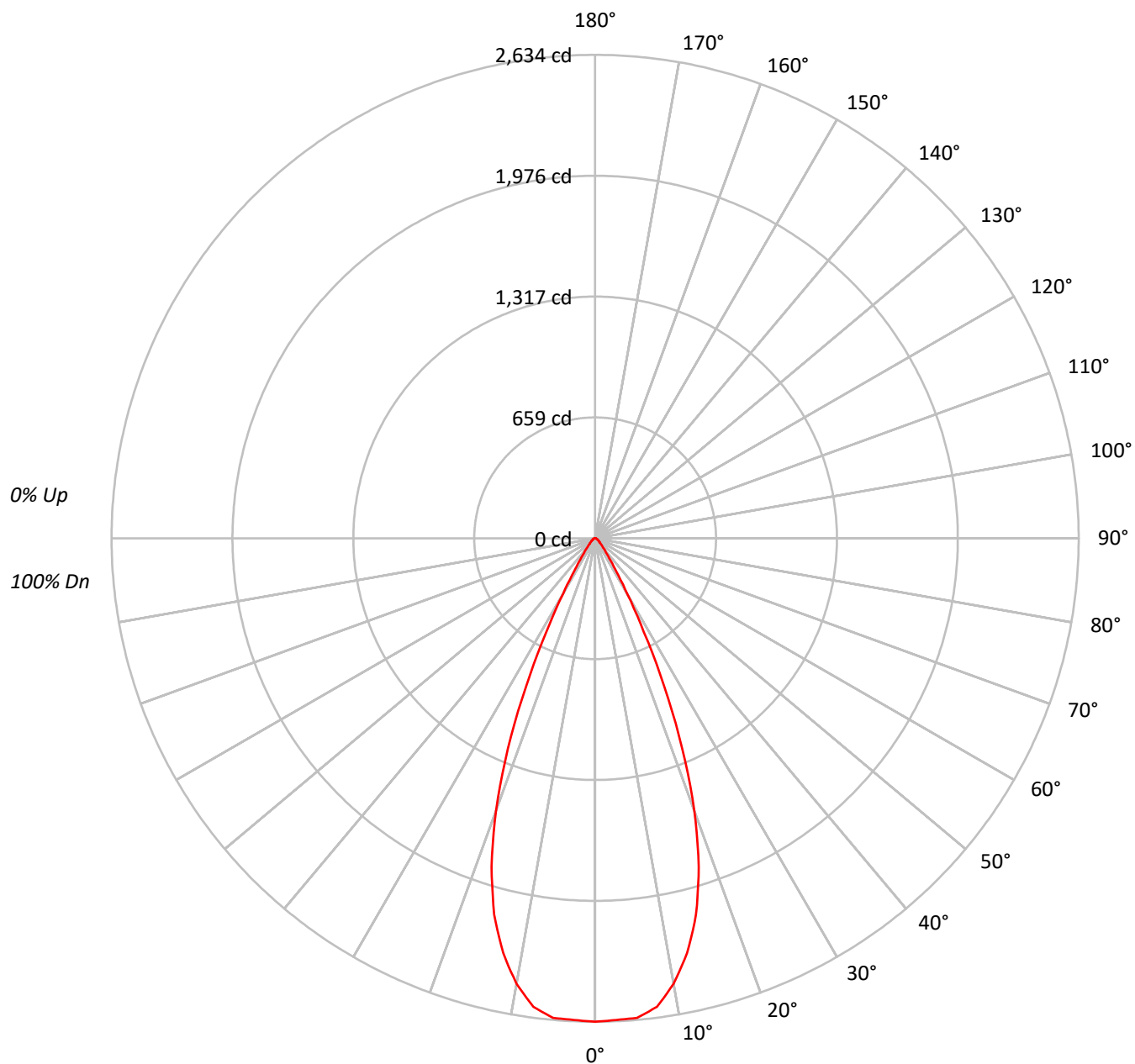
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1299562
5°	1299127
10°	1234842
15°	1084701
20°	829779
25°	484393
30°	198258
35°	83841
40°	45728
45°	29515
50°	23027
55°	19956
60°	16183
65°	12725
70°	11829
75°	10484
80°	11649
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	17.5
10°-20°	578.1	41.1
20°-30°	407.3	29.0
30°-40°	100.3	7.1
40°-50°	35.0	2.5
50°-60°	20.7	1.5
60°-70°	11.5	0.8
70°-80°	6.3	0.4
80°-90°	1.7	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°	1230.9	87.5
0°-40°	1331.2	94.7
0°-60°	1386.9	98.6
0°-90°	1406.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2634	
5°	2623	245
15°	2124	578
25°	890	407
35°	139	100
45°	42	35
55°	23	21
65°	11	11
75°	6	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2634.0
2.5°	2627.2
5°	2623.1
7.5°	2575.3
10°	2464.8
12.5°	2314.6
15°	2123.6
17.5°	1876.5
20°	1580.4
22.5°	1240.6
25°	889.8
27.5°	574.6
30°	348.0
32.5°	211.5
35°	139.2
37.5°	98.3
40°	71.0
42.5°	54.6
45°	42.3
47.5°	35.5
50°	30.0
52.5°	25.9
55°	23.2
57.5°	20.5
60°	16.4
62.5°	13.6
65°	10.9
67.5°	9.6
70°	8.2
72.5°	6.8
75°	5.5
77.5°	5.5
80°	4.1
82.5°	2.7
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)