

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: P432449

Luminaire Tested: **LAM4B208R209727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B208R209727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1364.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

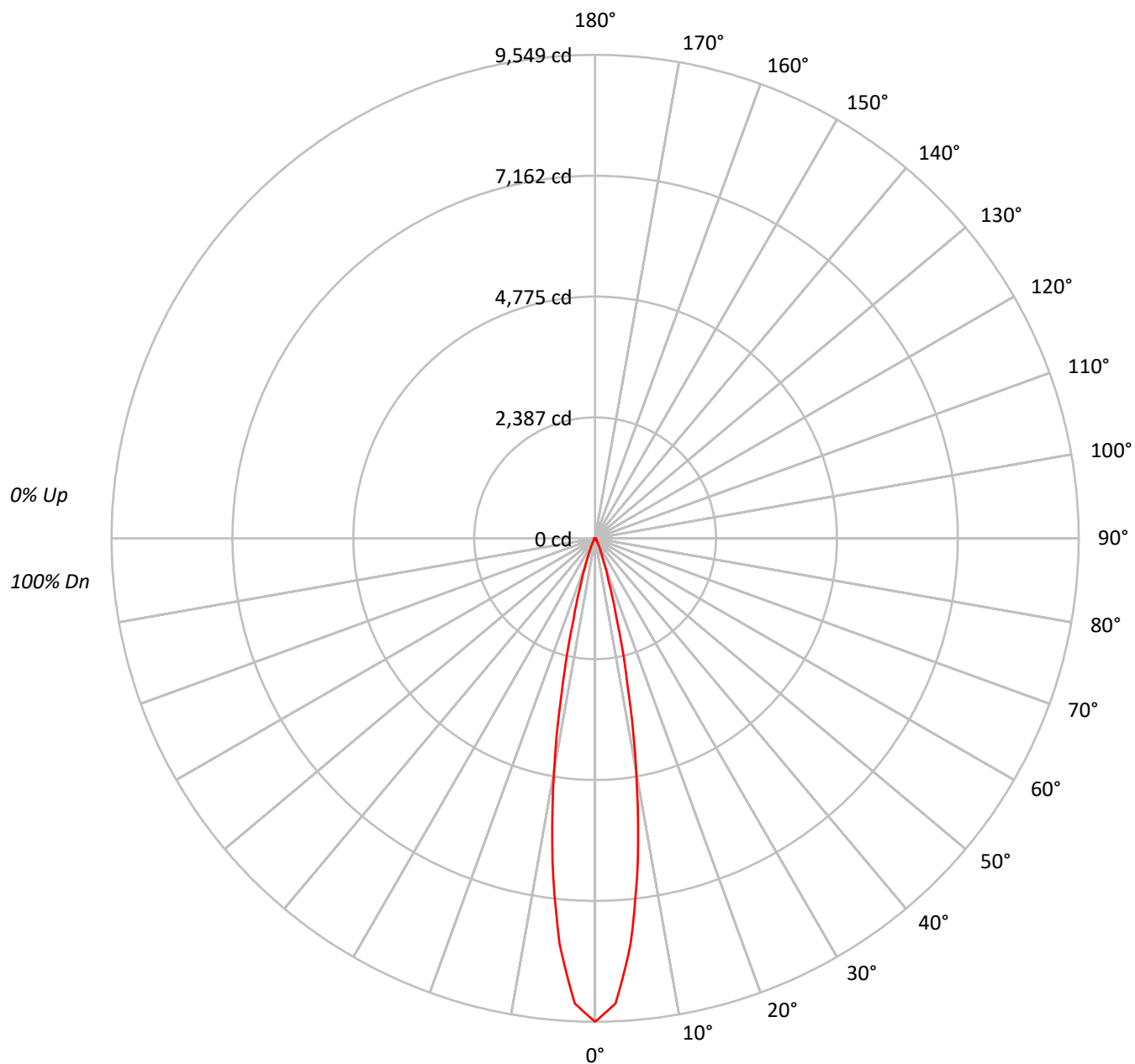
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	110	113	111	109	108		107	106	105			103	102	101			100
2	112	108	105	103	110	106	104	102		103	101	100			101	99	97			98
3	108	104	100	98	107	103	99	97		100	98	95			98	96	94			96
4	105	100	97	94	104	99	96	93		97	94	92			95	93	91			94
5	103	97	93	90	101	96	93	90		95	92	89			93	91	89			92
6	100	94	90	88	99	94	90	87		92	89	87			91	88	86			90
7	98	92	88	85	97	91	88	85		90	87	85			89	86	84			88
8	96	90	86	83	95	89	86	83		88	85	83			87	85	82			87
9	94	88	84	81	93	87	84	81		86	83	81			86	83	81			85
10	92	86	82	80	91	85	82	80		85	82	79			84	81	79			83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4711281
5°	3982271
10°	2339025
15°	837533
20°	277118
25°	110292
30°	52755
35°	30115
40°	21769
45°	18351
50°	21108
55°	17204
60°	8683
65°	7355
70°	9088
75°	9531
80°	7103
85°	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.4	48.3
10°-20°	513.4	37.6
20°-30°	106.6	7.8
30°-40°	33.6	2.5
40°-50°	21.6	1.6
50°-60°	17.4	1.3
60°-70°	6.8	0.5
70°-80°	5.1	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°	1278.4	93.7
0°-40°	1312.0	96.2
0°-60°	1351.0	99.0
0°-90°	1364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9549	
5°	8041	658
15°	1640	513
25°	203	107
35°	50	34
45°	26	22
55°	20	17
65°	6	7
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9549.0
2.5°	9198.8
5°	8040.7
7.5°	6442.3
10°	4668.8
12.5°	2945.4
15°	1639.7
17.5°	901.7
20°	527.8
22.5°	322.7
25°	202.6
27.5°	133.8
30°	92.6
32.5°	65.0
35°	50.0
37.5°	40.0
40°	33.8
42.5°	28.8
45°	26.3
47.5°	26.3
50°	27.5
52.5°	26.3
55°	20.0
57.5°	13.8
60°	8.8
62.5°	7.5
65°	6.3
67.5°	6.3
70°	6.3
72.5°	6.3
75°	5.0
77.5°	3.8
80°	2.5
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)