

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: P432401

Luminaire Tested: **LAM4B208R109727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B208R109727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1331.6 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

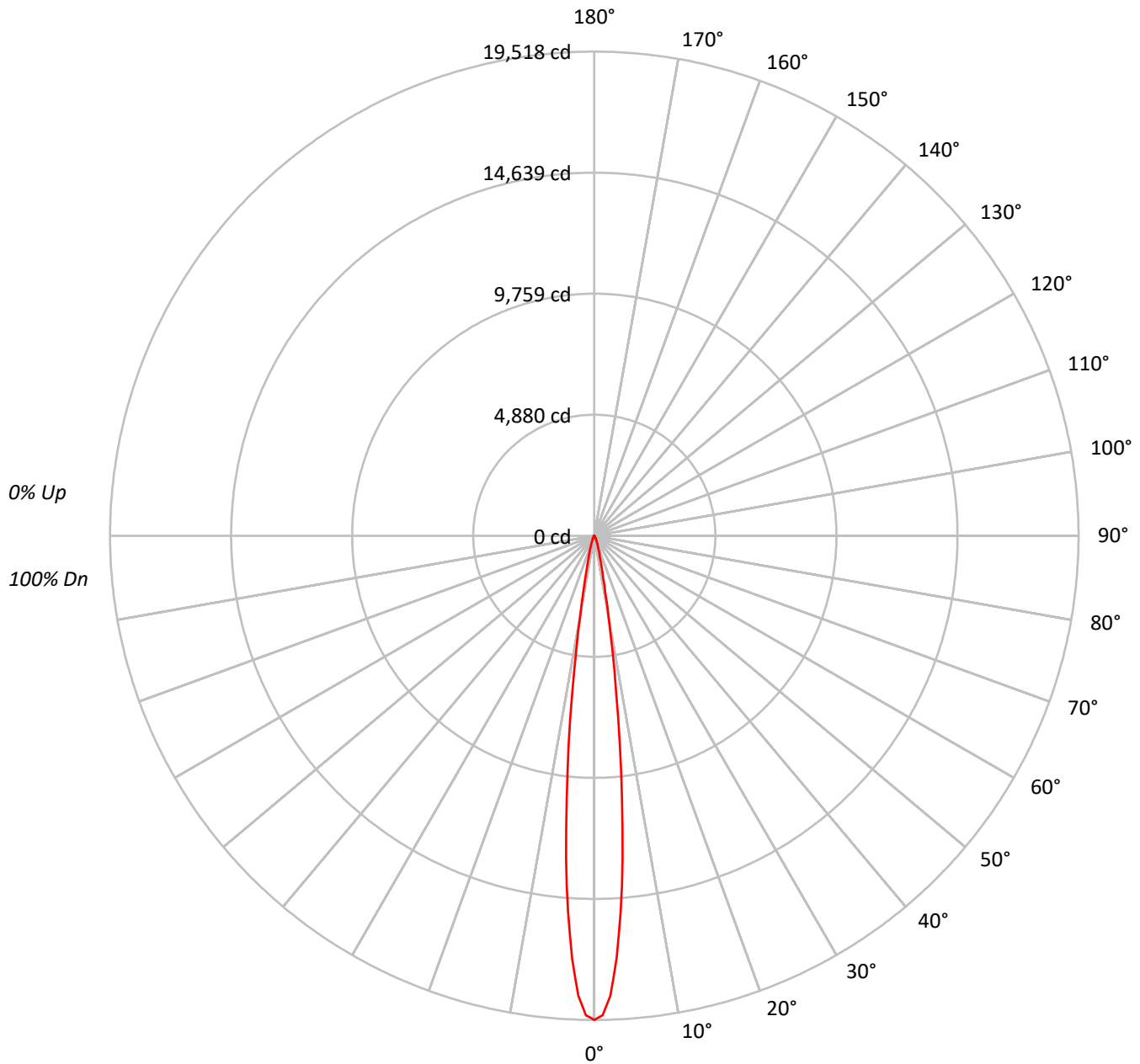
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	99			99
3	110	106	103	101	108	105	102	100		102	100	98			100	98	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			96
6	103	98	95	93	102	98	95	92		97	94	92			95	93	91			94
7	102	97	93	91	101	96	93	91		95	92	90			94	92	90			93
8	100	95	92	89	99	94	91	89		94	91	89			93	90	89			92
9	98	93	90	88	98	93	90	88		92	90	88			92	89	88			91
10	97	92	89	87	96	92	89	87		91	88	87			90	88	86			90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9629979
5°	6468596
10°	1650915
15°	427373
20°	191483
25°	91075
30°	48881
35°	28429
40°	22091
45°	12001
50°	9902
55°	7398
60°	8486
65°	5020
70°	6203
75°	8197
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.6	67.4
10°-20°	285.8	21.5
20°-30°	83.5	6.3
30°-40°	31.8	2.4
40°-50°	15.1	1.1
50°-60°	9.1	0.7
60°-70°	4.8	0.4
70°-80°	4.0	0.3
80°-90°	0.0	0.0
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°	1266.9	95.1
0°-40°	1298.6	97.5
0°-60°	1322.8	99.3
0°-90°	1331.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1331.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19518	
5°	13061	898
15°	837	286
25°	167	83
35°	47	32
45°	17	15
55°	9	9
65°	4	5
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19518.4
1°	19329.6
2°	18548.7
3°	17059.8
4°	15219.1
5°	13060.9
6°	10675.3
7°	8474.1
8°	6328.8
9°	4612.5
10°	3295.3
11°	2334.1
12°	1729.2
13°	1313.0
14°	1042.6
15°	836.7
17.5°	544.9
20°	364.7
22.5°	244.6
25°	167.3
27.5°	115.8
30°	85.8
32.5°	60.1
35°	47.2
37.5°	38.6
40°	34.3
42.5°	25.7
45°	17.2
47.5°	12.9
50°	12.9
52.5°	12.9
55°	8.6
57.5°	8.6
60°	8.6
62.5°	4.3
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	4.3
77.5°	4.3
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)