

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: P432438

Luminaire Tested: **LAM4B208R209030DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432438
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: LAM4B208R209030DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.5 lumens
Efficiency: N/A
Efficacy: 76.8 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

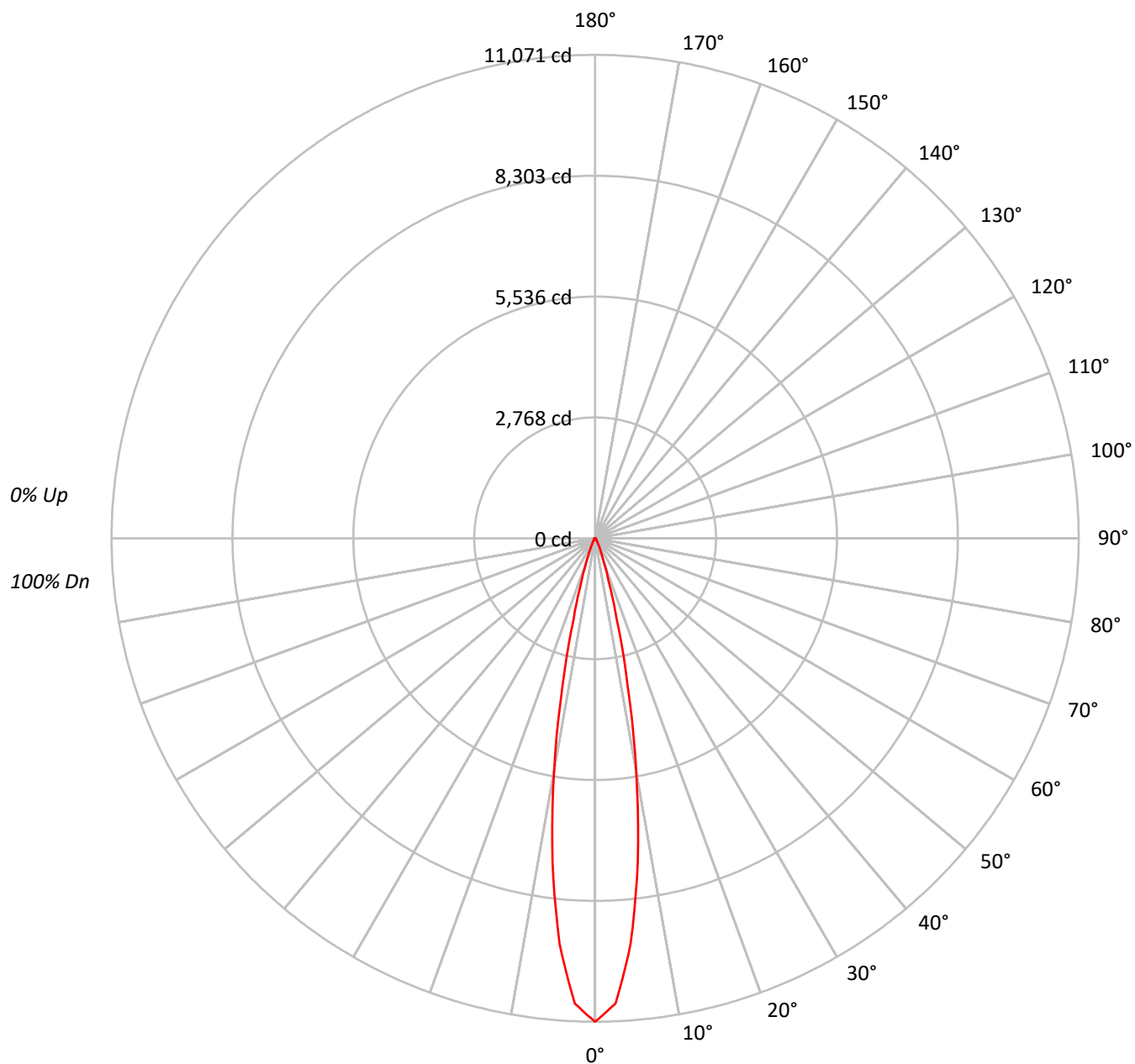
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97		
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83		
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81		
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80		
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5462254
5°	4617001
10°	2711863
15°	971001
20°	321274
25°	127876
30°	61129
35°	34934
40°	25247
45°	21281
50°	24485
55°	19956
60°	10065
65°	8522
70°	10531
75°	11056
80°	8240
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.3	48.3
10°-20°	595.3	37.6
20°-30°	123.6	7.8
30°-40°	39.0	2.5
40°-50°	25.1	1.6
50°-60°	20.1	1.3
60°-70°	7.9	0.5
70°-80°	6.0	0.4
80°-90°	1.2	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°	1482.2	93.7
0°-40°	1521.1	96.2
0°-60°	1566.4	99.0
0°-90°	1581.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11071	
5°	9322	763
15°	1901	595
25°	235	124
35°	58	39
45°	30	25
55°	23	20
65°	7	8
75°	6	6
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11071.1
2.5°	10665.1
5°	9322.3
7.5°	7469.2
10°	5413.0
12.5°	3414.9
15°	1901.0
17.5°	1045.5
20°	611.9
22.5°	374.1
25°	234.9
27.5°	155.2
30°	107.3
32.5°	75.4
35°	58.0
37.5°	46.4
40°	39.2
42.5°	33.4
45°	30.5
47.5°	30.5
50°	31.9
52.5°	30.5
55°	23.2
57.5°	16.0
60°	10.2
62.5°	8.7
65°	7.3
67.5°	7.3
70°	7.3
72.5°	7.3
75°	5.8
77.5°	4.4
80°	2.9
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)