

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: P432441

Luminaire Tested: **LAM4B208R209035DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432441
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: LAM4B208R209035DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.4 lumens
Efficiency: N/A
Efficacy: 80.4 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

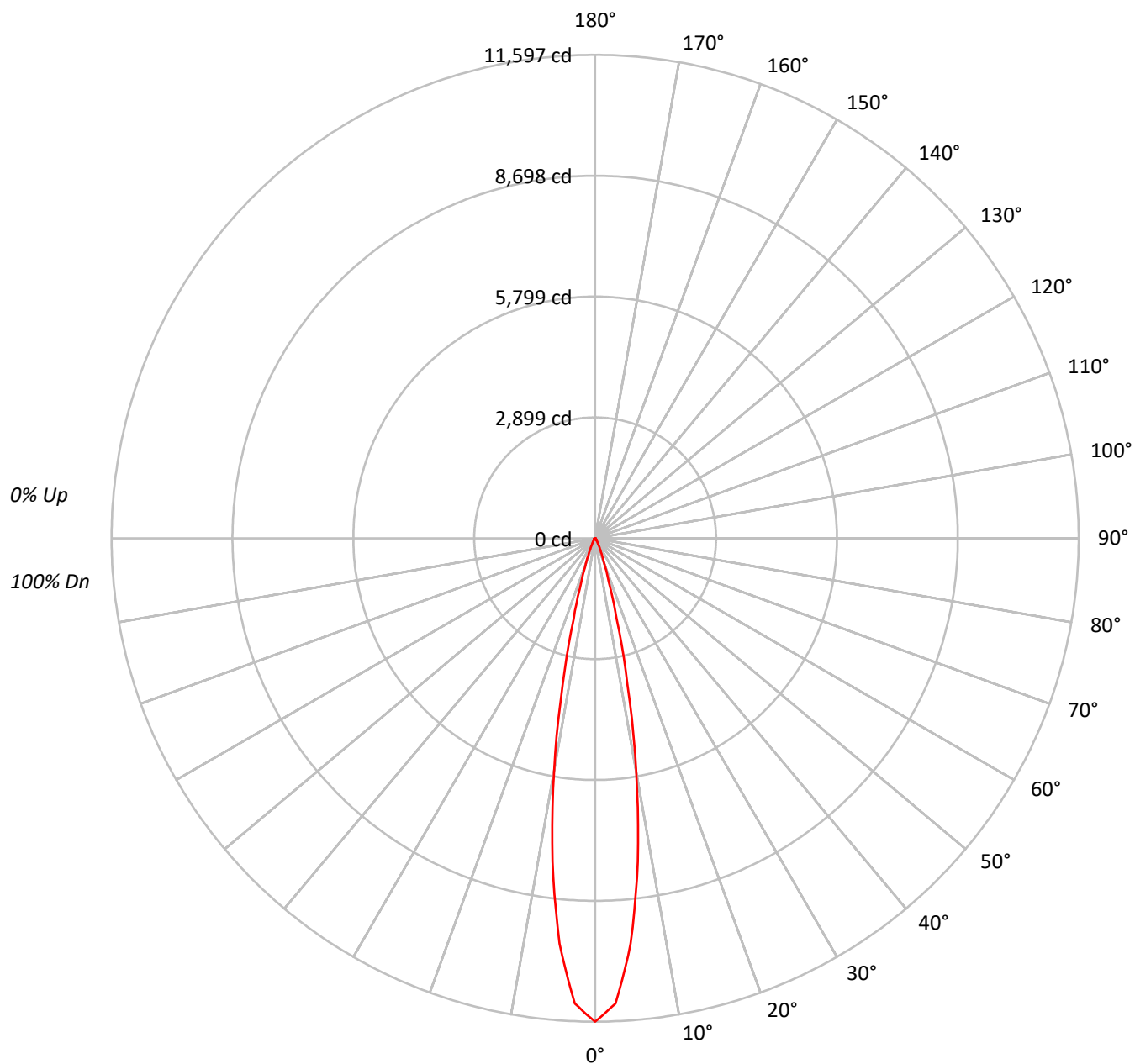
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102		100
2	112	108	105	103	110	106	104	102	103	101	100		101	99	97		98
3	108	104	100	98	107	103	100	97	100	98	96		98	96	94		96
4	105	100	97	94	104	99	96	93	97	94	92		96	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°	5721821
5°	4836403
10°	2840718
15°	1017124
20°	336553
25°	133973
30°	64035
35°	36620
40°	26407
45°	22258
50°	25637
55°	20902
60°	10460
65°	8873
70°	10963
75°	11628
80°	8524
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.6	48.3
10°-20°	623.6	37.6
20°-30°	129.4	7.8
30°-40°	40.8	2.5
40°-50°	26.2	1.6
50°-60°	21.1	1.3
60°-70°	8.3	0.5
70°-80°	6.2	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°	1552.6	93.7
0°-40°	1593.4	96.2
0°-60°	1640.7	99.1
0°-90°	1656.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11597	
5°	9765	800
15°	1991	624
25°	246	129
35°	61	41
45°	32	26
55°	24	21
65°	8	8
75°	6	6
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11597.2
2.5°	11171.9
5°	9765.3
7.5°	7824.1
10°	5670.2
12.5°	3577.1
15°	1991.3
17.5°	1095.2
20°	641.0
22.5°	391.9
25°	246.1
27.5°	162.5
30°	112.4
32.5°	79.0
35°	60.8
37.5°	48.6
40°	41.0
42.5°	34.9
45°	31.9
47.5°	31.9
50°	33.4
52.5°	31.9
55°	24.3
57.5°	16.7
60°	10.6
62.5°	9.1
65°	7.6
67.5°	7.6
70°	7.6
72.5°	7.6
75°	6.1
77.5°	4.6
80°	3.0
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)