

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: P432693

Luminaire Tested: **LAM4B208R709730DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B208R709730DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1415.1 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

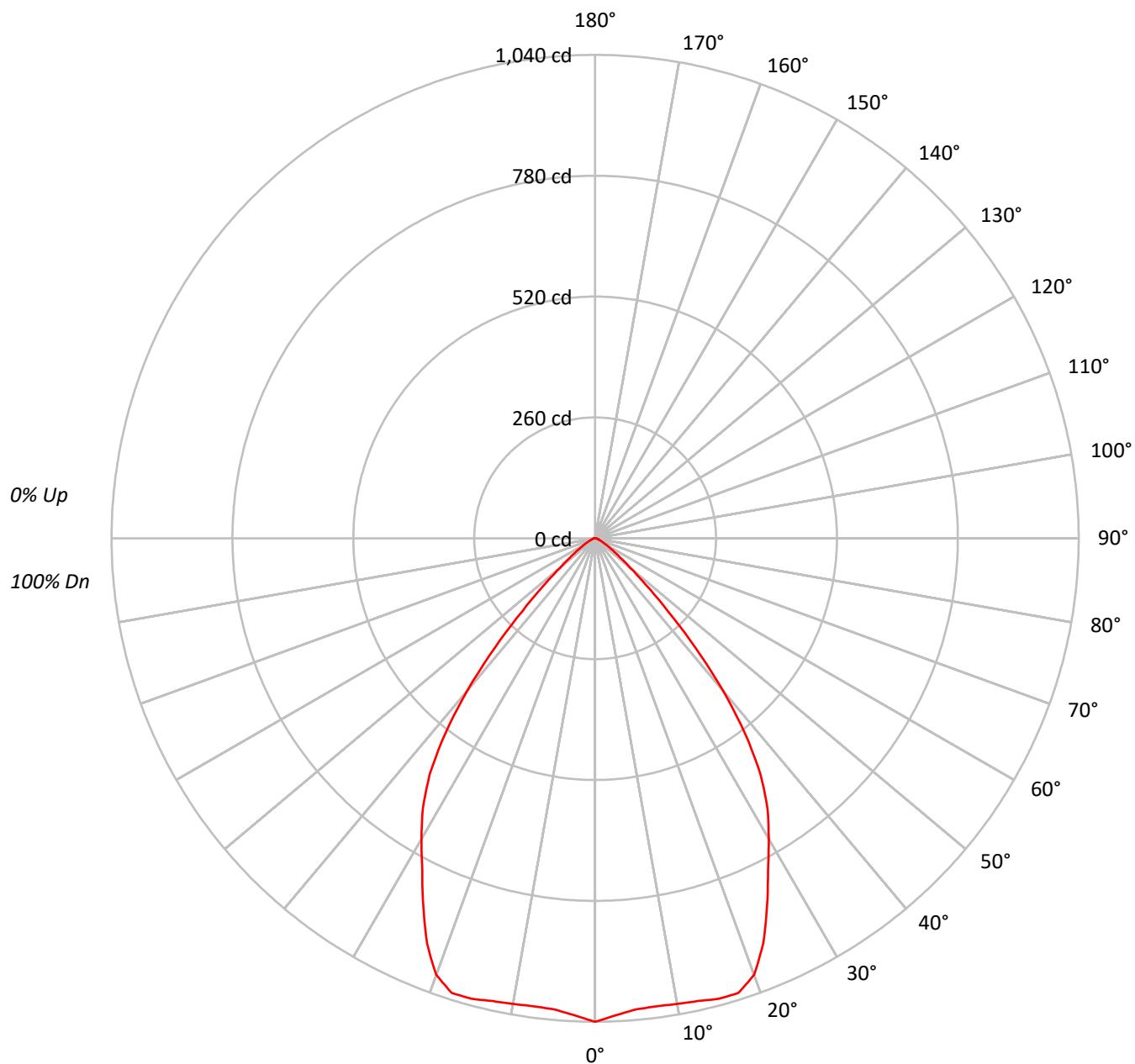
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	52	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	513164
5°	503634
10°	509457
15°	523860
20°	524729
25°	476064
30°	425399
35°	373610
40°	275079
45°	154062
50°	75835
55°	42493
60°	25754
65°	16928
70°	12550
75°	11056
80°	8240
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	6.9
10°-20°	289.0	20.4
20°-30°	401.0	28.3
30°-40°	377.3	26.7
40°-50°	180.1	12.7
50°-60°	47.6	3.4
60°-70°	15.0	1.1
70°-80°	6.1	0.4
80°-90°	1.6	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°	787.2	55.6
0°-40°	1164.6	82.3
0°-60°	1392.3	98.4
0°-90°	1415.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1040	
5°	1017	97
15°	1026	289
25°	874	401
35°	620	377
45°	221	180
55°	49	48
65°	14	15
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1040.1
2.5°	1027.0
5°	1016.9
7.5°	1015.4
10°	1016.9
12.5°	1019.8
15°	1025.6
17.5°	1025.6
20°	999.4
22.5°	944.2
25°	874.5
27.5°	804.8
30°	746.7
32.5°	690.0
35°	620.3
37.5°	530.2
40°	427.1
42.5°	318.1
45°	220.8
47.5°	146.7
50°	98.8
52.5°	68.3
55°	49.4
57.5°	34.9
60°	26.1
62.5°	18.9
65°	14.5
67.5°	10.2
70°	8.7
72.5°	7.3
75°	5.8
77.5°	4.4
80°	2.9
82.5°	2.9
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)