

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: P430098

Luminaire Tested: **LAM4B212R209727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430098
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: LAM4B212R209727DE010x1MW
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: 2094.4 lumens
Efficiency: N/A
Efficacy: 73.7 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

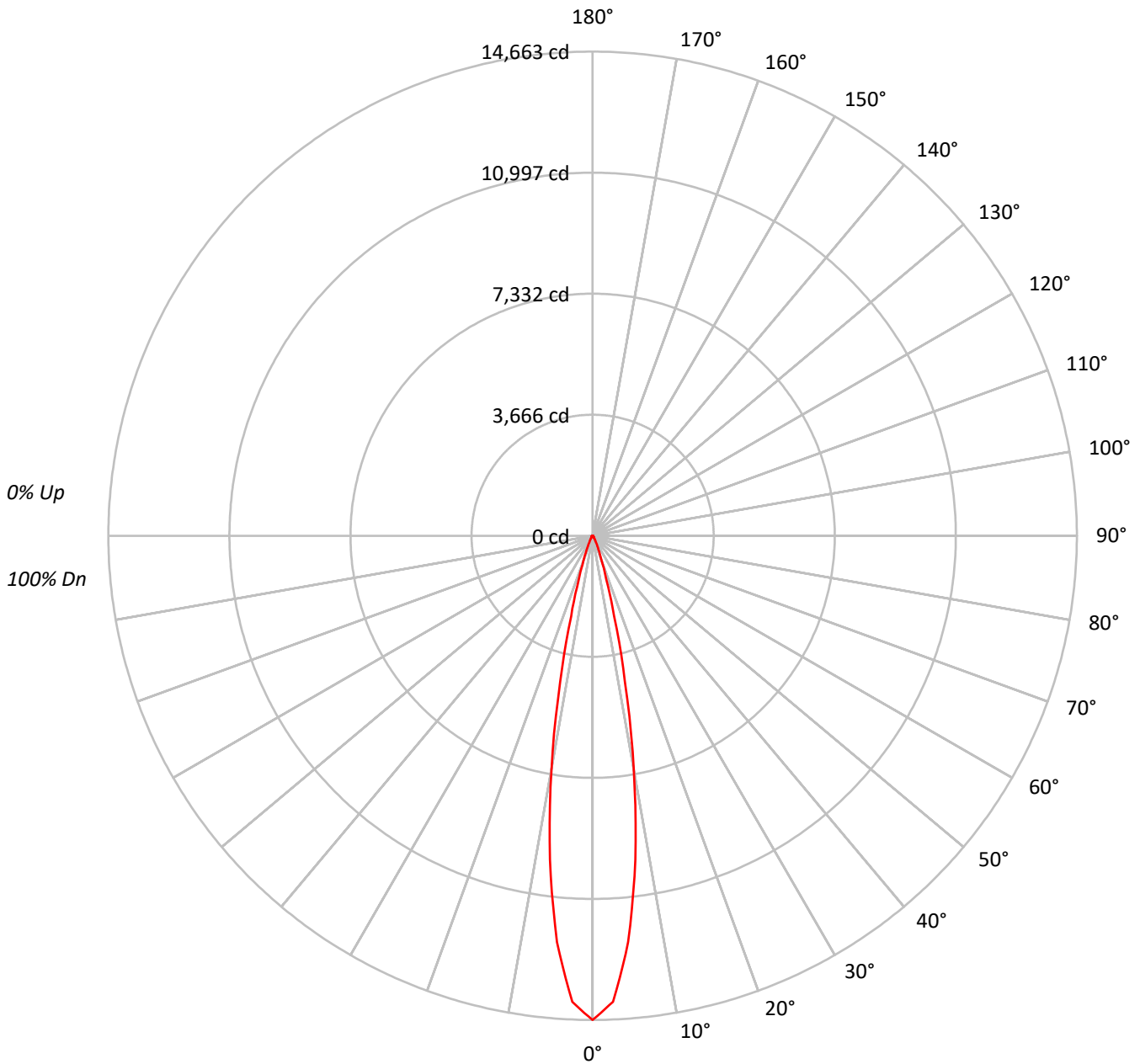
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100													
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97													
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94													
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92													
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89													
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87													
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85													
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83													
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81													
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80													
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7234622
5°	6115126
10°	3591803
15°	1286052
20°	425548
25°	169358
30°	80955
35°	46257
40°	33427
45°	28119
50°	32468
55°	26408
60°	13223
65°	11207
70°	13848
75°	14678
80°	10797
85°	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1011.0	48.3
10°-20°	788.4	37.6
20°-30°	163.6	7.8
30°-40°	51.6	2.5
40°-50°	33.2	1.6
50°-60°	26.6	1.3
60°-70°	10.4	0.5
70°-80°	7.9	0.4
80°-90°	1.5	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°	1963.1	93.7
0°-40°	2014.7	96.2
0°-60°	2074.5	99.1
0°-90°	2094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14663	
5°	12347	###
15°	2518	788
25°	311	164
35°	77	52
45°	40	33
55°	31	27
65°	10	10
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14663.4
2.5°	14125.6
5°	12347.2
7.5°	9892.7
10°	7169.4
12.5°	4522.9
15°	2517.8
17.5°	1384.7
20°	810.5
22.5°	495.5
25°	311.1
27.5°	205.5
30°	142.1
32.5°	99.9
35°	76.8
37.5°	61.5
40°	51.9
42.5°	44.2
45°	40.3
47.5°	40.3
50°	42.3
52.5°	40.3
55°	30.7
57.5°	21.1
60°	13.4
62.5°	11.5
65°	9.6
67.5°	9.6
70°	9.6
72.5°	9.6
75°	7.7
77.5°	5.8
80°	3.8
82.5°	1.9
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)