

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: P433565

Luminaire Tested: **LAMR4B108R609030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B108R609030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 740.4 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

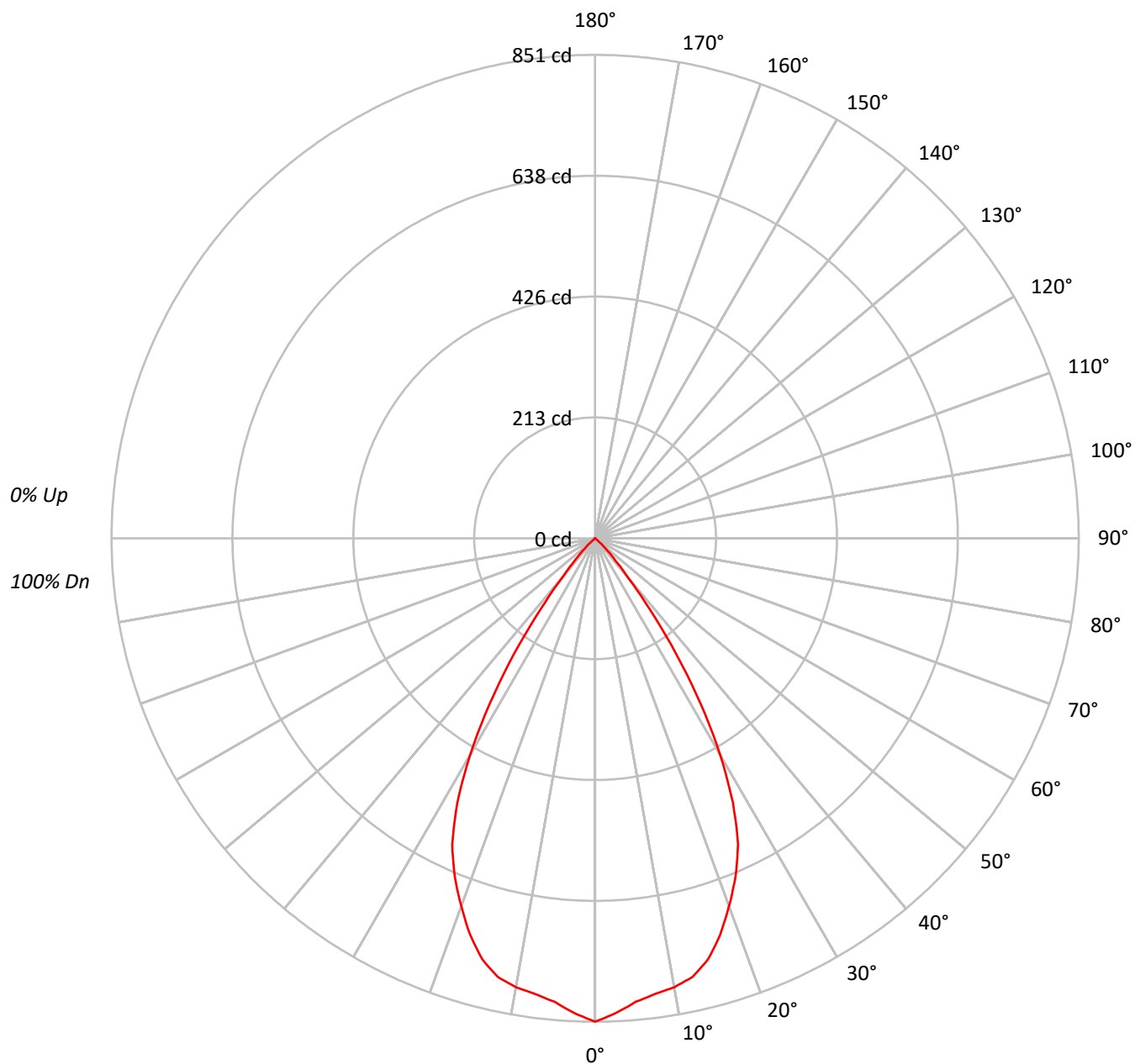
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	419817
5°	405720
10°	401945
15°	391976
20°	361755
25°	323963
30°	250670
35°	150155
40°	57708
45°	21072
50°	844
55°	602
60°	691
65°	467
70°	577
75°	763
80°	1137
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	10.5
10°-20°	213.5	28.8
20°-30°	266.3	36.0
30°-40°	155.2	21.0
40°-50°	25.9	3.5
50°-60°	0.7	0.1
60°-70°	0.5	0.1
70°-80°	0.4	0.1
80°-90°	0.2	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°	557.6	75.3
0°-40°	712.8	96.3
0°-60°	739.3	99.9
0°-90°	740.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	851	
5°	819	78
15°	767	213
25°	595	266
35°	249	155
45°	30	26
55°	1	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	850.9
2.5°	836.8
5°	819.2
7.5°	809.1
10°	802.3
12.5°	791.1
15°	767.4
17.5°	731.8
20°	689.0
22.5°	645.4
25°	595.1
27.5°	525.3
30°	440.0
32.5°	344.7
35°	249.3
37.5°	157.2
40°	89.6
42.5°	52.5
45°	30.2
47.5°	10.4
50°	1.1
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.4
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)