

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: P431477

Luminaire Tested: **LAMR4B212R709030DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431477
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: LAMR4B212R709030DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232.3 lumens
Efficiency: N/A
Efficacy: 78.6 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

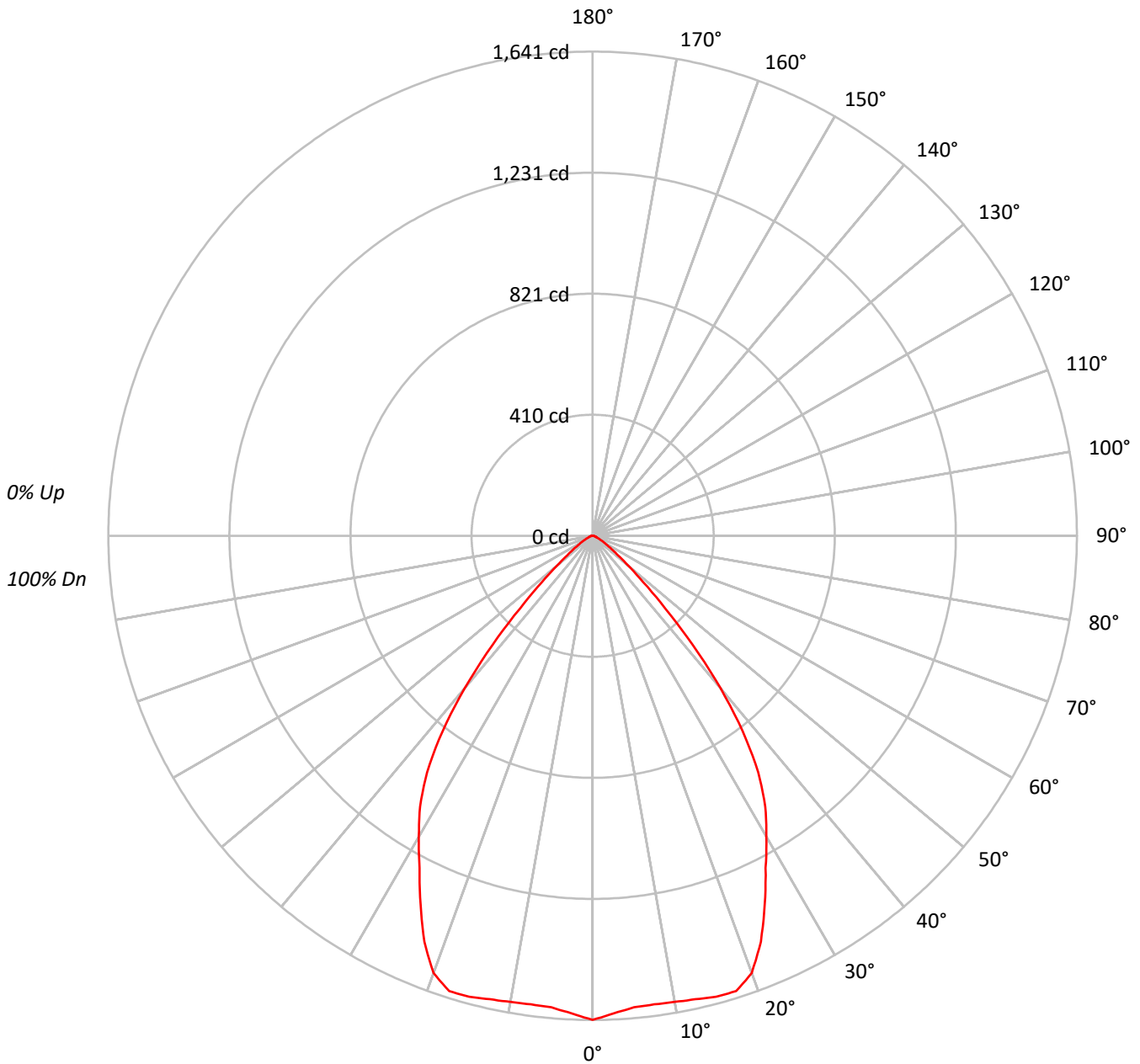
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																											
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																											
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																											
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58																											
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	809537
5°	794503
10°	803689
15°	826398
20°	827836
25°	751032
30°	671056
35°	589356
40°	433968
45°	243024
50°	119586
55°	67008
60°	40753
65°	26734
70°	19907
75°	17538
80°	13070
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	6.9
10°-20°	455.9	20.4
20°-30°	632.7	28.3
30°-40°	595.2	26.7
40°-50°	284.2	12.7
50°-60°	75.1	3.4
60°-70°	23.7	1.1
70°-80°	9.7	0.4
80°-90°	2.5	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°	1241.9	55.6
0°-40°	1837.2	82.3
0°-60°	2196.4	98.4
0°-90°	2232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1641	
5°	1604	153
15°	1618	456
25°	1380	633
35°	978	595
45°	348	284
55°	78	75
65°	23	24
75°	9	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1640.8
2.5°	1620.2
5°	1604.2
7.5°	1601.9
10°	1604.2
12.5°	1608.8
15°	1617.9
17.5°	1617.9
20°	1576.7
22.5°	1489.6
25°	1379.6
27.5°	1269.6
30°	1177.9
32.5°	1088.5
35°	978.5
37.5°	836.5
40°	673.8
42.5°	501.9
45°	348.3
47.5°	231.5
50°	155.8
52.5°	107.7
55°	77.9
57.5°	55.0
60°	41.3
62.5°	29.8
65°	22.9
67.5°	16.0
70°	13.8
72.5°	11.5
75°	9.2
77.5°	6.9
80°	4.6
82.5°	4.6
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)