

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: P431300

Luminaire Tested: **LAMR4B212R309730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R309730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.7 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

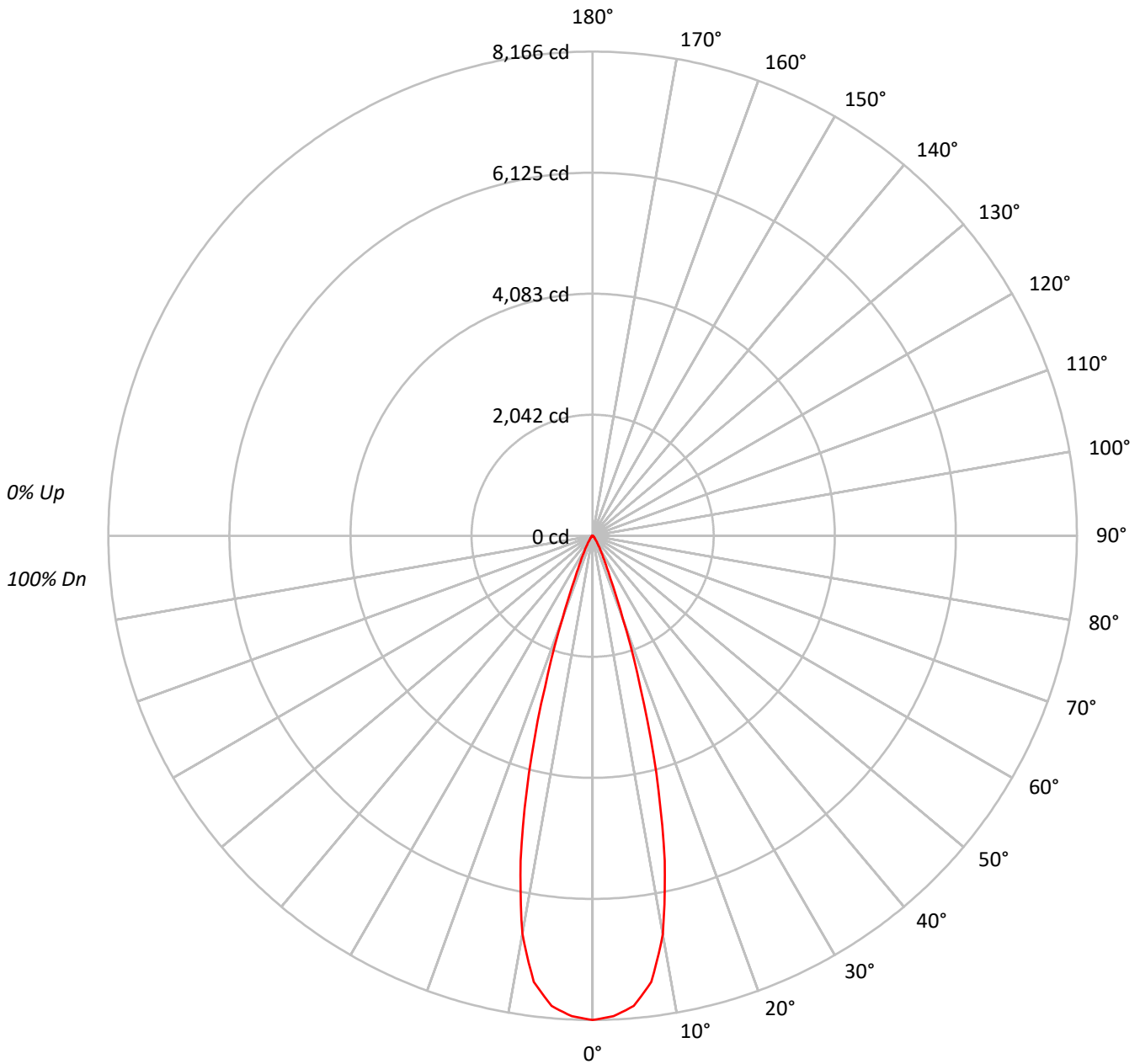
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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															
	1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96	96	96	96	96	96	96	96	96															
	2	111	107	104	102	109	106	103	100	102	100	98	96	94	92	91	90	88	86	86	86	86	86	86	86	86	86	86	86	86															
	3	107	103	99	96	105	101	98	95	99	96	94	92	90	88	86	84	82	80	80	80	80	80	80	80	80	80	80	80	80															
	4	104	98	94	91	102	97	94	91	95	92	90	88	86	84	82	80	78	76	76	76	76	76	76	76	76	76	76	76	76															
	5	101	95	91	87	99	94	90	87	92	89	86	84	82	80	78	76	74	72	72	72	72	72	72	72	72	72	72	72	72															
	6	98	91	87	84	97	91	87	84	89	86	83	81	79	77	75	73	71	69	69	69	69	69	69	69	69	69	69	69	69															
	7	95	88	84	81	94	88	84	81	87	83	81	79	77	75	73	71	69	67	67	67	67	67	67	67	67	67	67	67	67															
	8	92	86	81	79	91	85	81	78	84	81	78	76	74	72	70	68	66	64	64	64	64	64	64	64	64	64	64	64	64															
	9	90	83	79	76	89	83	79	76	82	78	76	74	72	70	68	66	64	62	62	62	62	62	62	62	62	62	62	62	62															
	10	88	81	77	74	87	80	77	74	80	76	74	72	70	68	66	64	62	60	60	60	60	60	60	60	60	60	60	60	60															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4029184
5°	3941164
10°	3417158
15°	2117966
20°	776277
25°	259508
30°	127386
35°	63543
40°	39417
45°	25049
50°	17807
55°	14537
60°	12532
65°	9806
70°	12117
75°	12010
80°	11933
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.2	32.6
10°-20°	1094.9	49.2
20°-30°	267.0	12.0
30°-40°	73.1	3.3
40°-50°	29.4	1.3
50°-60°	15.8	0.7
60°-70°	9.4	0.4
70°-80°	7.2	0.3
80°-90°	1.7	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°	2087.1	93.9
0°-40°	2160.3	97.1
0°-60°	2205.5	99.2
0°-90°	2223.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8166	
5°	7958	725
15°	4146	1095
25°	477	267
35°	106	73
45°	36	29
55°	17	16
65°	8	9
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8166.5
2.5°	8111.6
5°	7957.7
7.5°	7590.7
10°	6820.8
12.5°	5614.4
15°	4146.5
17.5°	2672.2
20°	1478.5
22.5°	788.8
25°	476.7
27.5°	322.7
30°	223.6
32.5°	151.9
35°	105.5
37.5°	78.0
40°	61.2
42.5°	46.4
45°	35.9
47.5°	29.5
50°	23.2
52.5°	21.1
55°	16.9
57.5°	14.8
60°	12.7
62.5°	10.5
65°	8.4
67.5°	8.4
70°	8.4
72.5°	8.4
75°	6.3
77.5°	6.3
80°	4.2
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)