

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: P431372

Luminaire Tested: **LAMR4B212R459730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B212R459730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2200.7 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

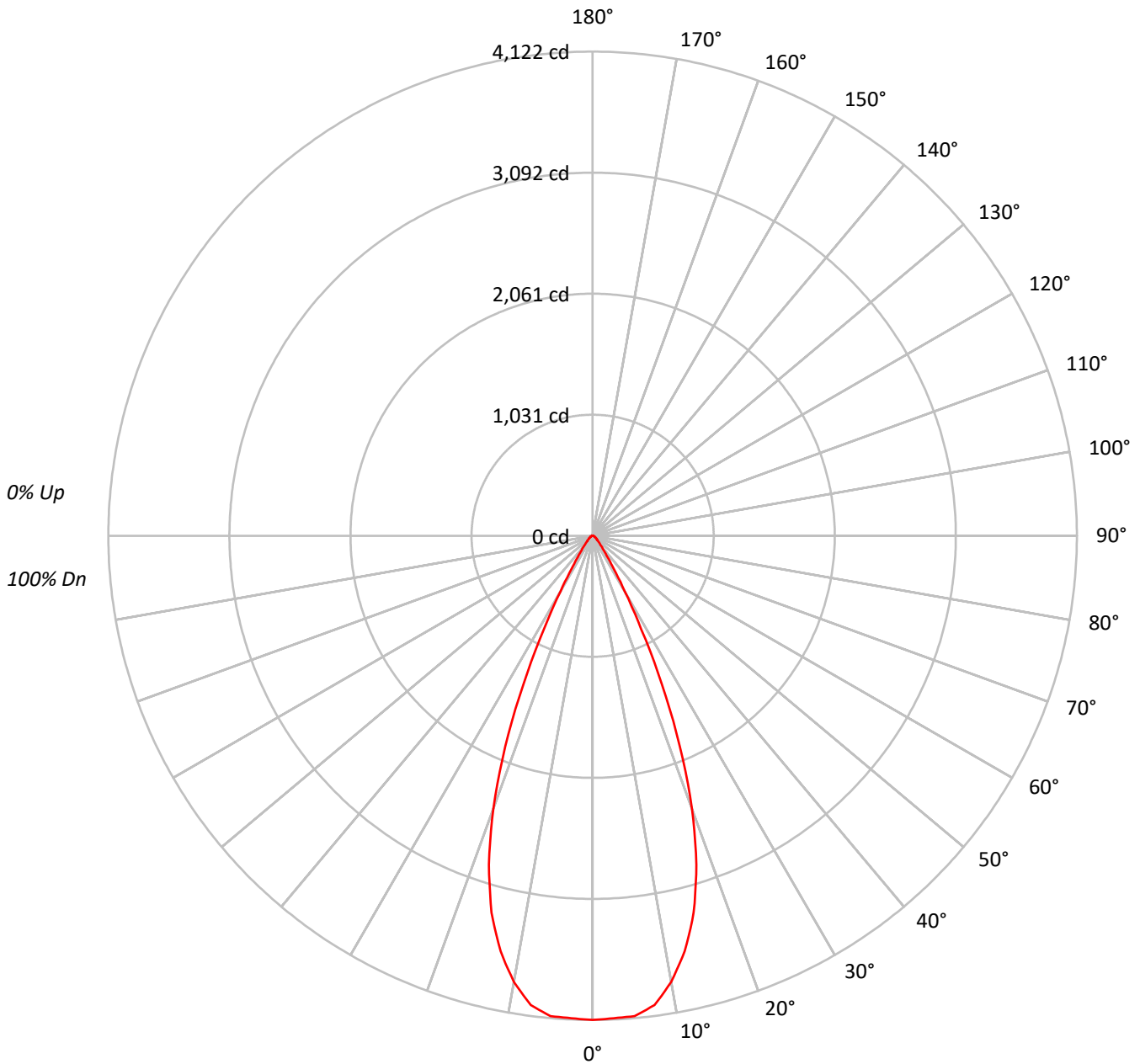
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95																
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89			89																
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85			85																
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80																
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76			76																
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73			73																
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			69																
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66																
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63			63																
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61			61																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2033661
5°	2032960
10°	1932321
15°	1697387
20°	1298485
25°	758055
30°	310262
35°	131182
40°	71555
45°	46191
50°	36075
55°	31225
60°	25261
65°	19963
70°	18465
75°	16203
80°	18184
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	17.5
10°-20°	904.7	41.1
20°-30°	637.4	29.0
30°-40°	156.9	7.1
40°-50°	54.7	2.5
50°-60°	32.4	1.5
60°-70°	17.9	0.8
70°-80°	9.8	0.4
80°-90°	2.6	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°	1926.3	87.5
0°-40°	2083.1	94.7
0°-60°	2170.3	98.6
0°-90°	2200.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4122	
5°	4105	384
15°	3323	905
25°	1392	637
35°	218	157
45°	66	55
55°	36	32
65°	17	18
75°	8	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4121.9
2.5°	4111.2
5°	4104.8
7.5°	4030.0
10°	3857.0
12.5°	3622.1
15°	3323.1
17.5°	2936.6
20°	2473.1
22.5°	1941.3
25°	1392.5
27.5°	899.1
30°	544.6
32.5°	331.0
35°	217.8
37.5°	153.8
40°	111.1
42.5°	85.4
45°	66.2
47.5°	55.5
50°	47.0
52.5°	40.6
55°	36.3
57.5°	32.0
60°	25.6
62.5°	21.4
65°	17.1
67.5°	14.9
70°	12.8
72.5°	10.7
75°	8.5
77.5°	8.5
80°	6.4
82.5°	4.3
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)