

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: P431762

Luminaire Tested: **LAMR4B312R709027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431762
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: LAMR4B312R709027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280.7 lumens
Efficiency: N/A
Efficacy: 80.2 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

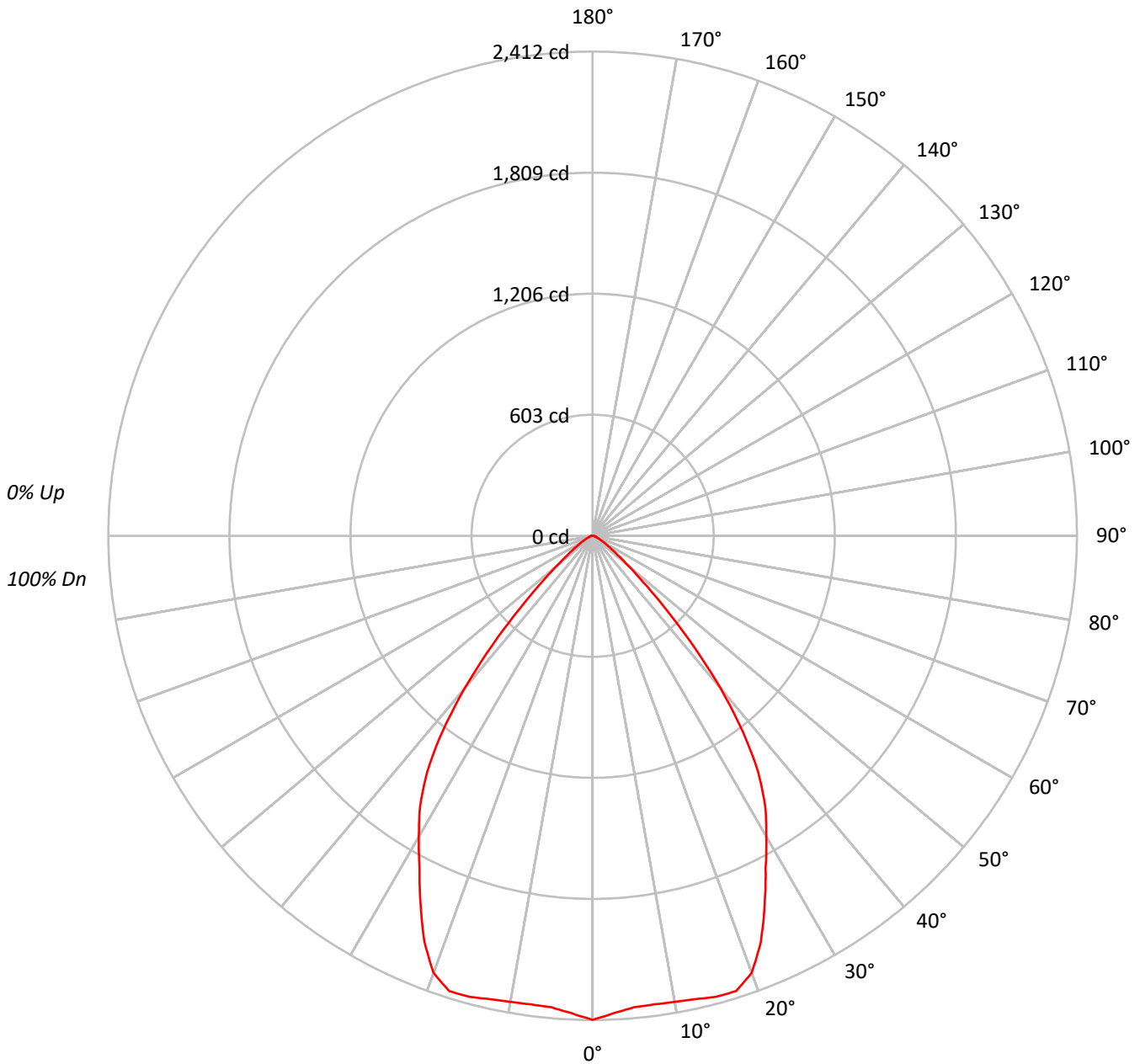
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1189785
5°	1167635
10°	1181136
15°	1214542
20°	1216631
25°	1103793
30°	986274
35°	866235
40°	637749
45°	357175
50°	175772
55°	98491
60°	59798
65°	39343
70°	29139
75°	25735
80°	19036
85°	19247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	6.9
10°-20°	670.0	20.4
20°-30°	929.8	28.3
30°-40°	874.8	26.7
40°-50°	417.6	12.7
50°-60°	110.4	3.4
60°-70°	34.9	1.1
70°-80°	14.2	0.4
80°-90°	3.7	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°	1825.2	55.6
0°-40°	2700.0	82.3
0°-60°	3228.0	98.4
0°-90°	3280.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2412	
5°	2358	225
15°	2378	670
25°	2028	930
35°	1438	875
45°	512	418
55°	114	110
65°	34	35
75°	14	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2411.5
2.5°	2381.2
5°	2357.6
7.5°	2354.3
10°	2357.6
12.5°	2364.4
15°	2377.8
17.5°	2377.8
20°	2317.2
22.5°	2189.2
25°	2027.6
27.5°	1865.9
30°	1731.2
32.5°	1599.8
35°	1438.2
37.5°	1229.3
40°	990.2
42.5°	737.6
45°	511.9
47.5°	340.2
50°	229.0
52.5°	158.3
55°	114.5
57.5°	80.8
60°	60.6
62.5°	43.8
65°	33.7
67.5°	23.6
70°	20.2
72.5°	16.8
75°	13.5
77.5°	10.1
80°	6.7
82.5°	6.7
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)