

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: P431774

Luminaire Tested: **LAMR4B312R709050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431774
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: LAMR4B312R709050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3654.9 lumens
Efficiency: N/A
Efficacy: 89.4 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

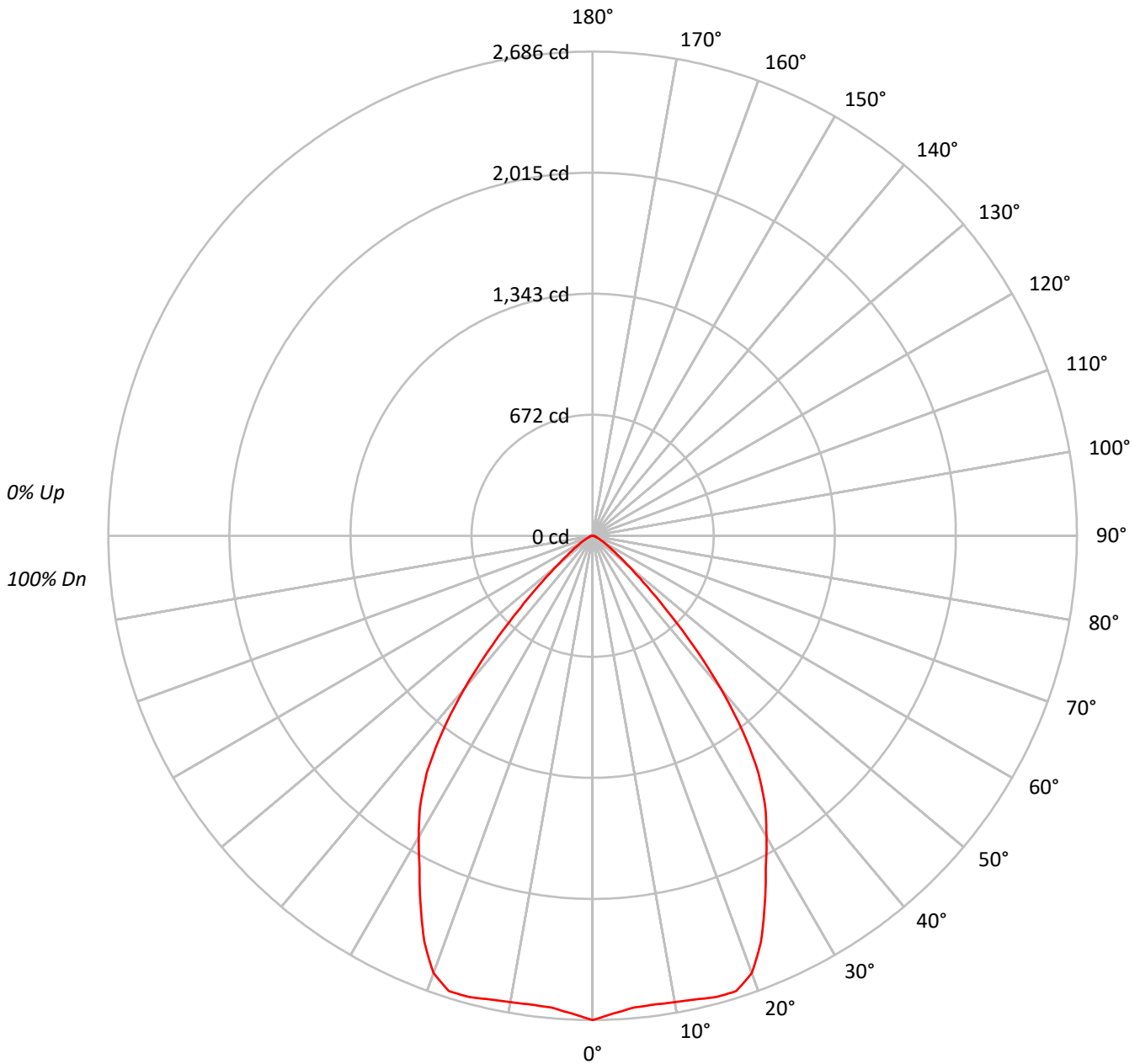
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																										
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	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	53	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°	1325464
5°	1300811
10°	1315852
15°	1353067
20°	1355347
25°	1229655
30°	1098734
35°	964953
40°	710464
45°	397923
50°	195805
55°	109759
60°	66606
65°	43779
70°	32457
75°	28594
80°	21309
85°	21511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	6.9
10°-20°	746.4	20.4
20°-30°	1035.9	28.3
30°-40°	974.6	26.7
40°-50°	465.2	12.7
50°-60°	123.0	3.4
60°-70°	38.8	1.1
70°-80°	15.8	0.4
80°-90°	4.1	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°	2033.4	55.6
0°-40°	3007.9	82.3
0°-60°	3596.1	98.4
0°-90°	3654.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2686	
5°	2626	251
15°	2649	746
25°	2259	1036
35°	1602	975
45°	570	465
55°	128	123
65°	38	39
75°	15	16
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2686.5
2.5°	2652.7
5°	2626.5
7.5°	2622.7
10°	2626.5
12.5°	2634.0
15°	2649.0
17.5°	2649.0
20°	2581.4
22.5°	2438.9
25°	2258.8
27.5°	2078.7
30°	1928.6
32.5°	1782.2
35°	1602.1
37.5°	1369.5
40°	1103.1
42.5°	821.7
45°	570.3
47.5°	379.0
50°	255.1
52.5°	176.3
55°	127.6
57.5°	90.1
60°	67.5
62.5°	48.8
65°	37.5
67.5°	26.3
70°	22.5
72.5°	18.8
75°	15.0
77.5°	11.3
80°	7.5
82.5°	7.5
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)