

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: P431768

Luminaire Tested: **LAMR4B312R709035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431768
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: LAMR4B312R709035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3716.1 lumens
Efficiency: N/A
Efficacy: 90.9 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

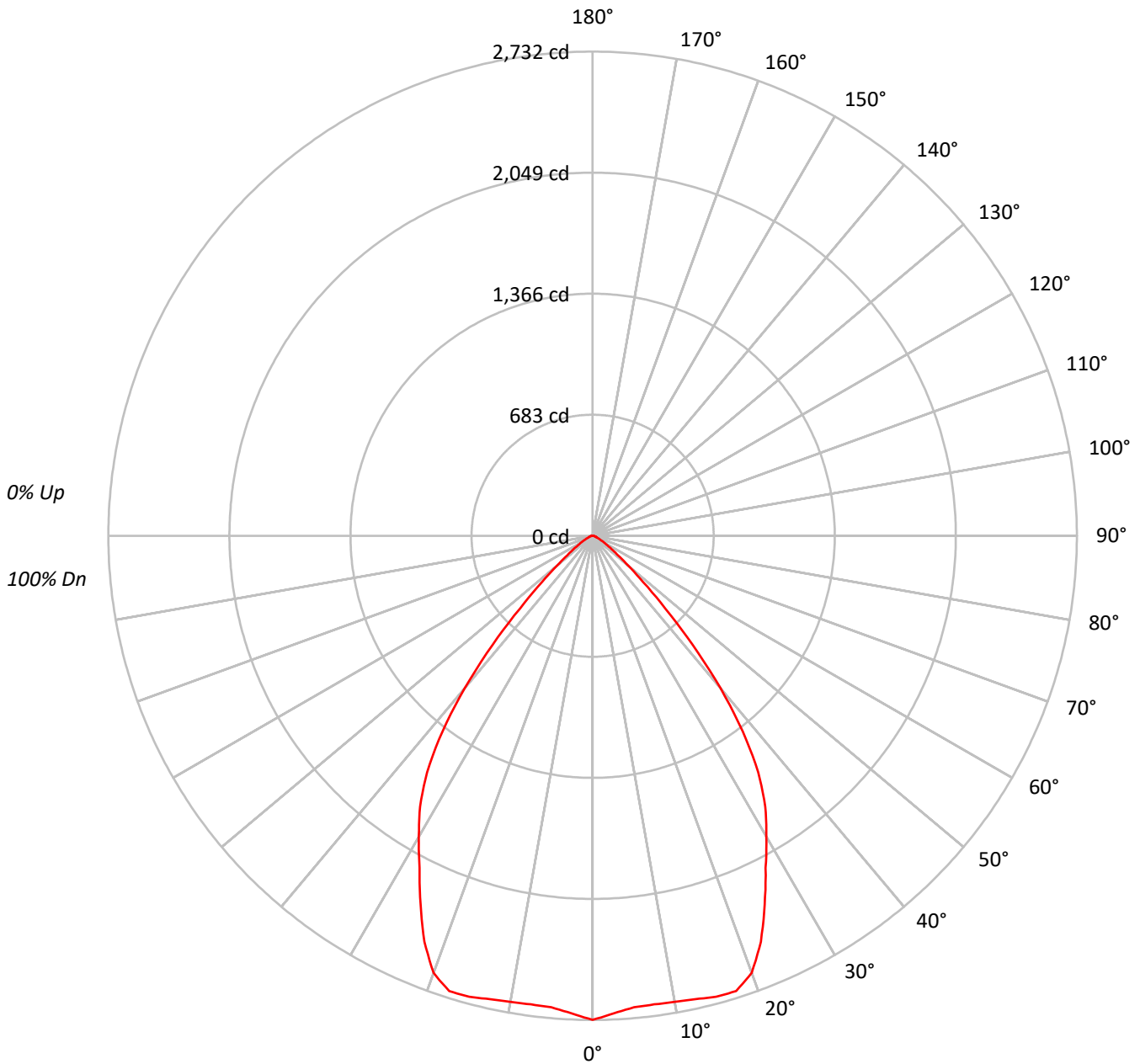
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1347666
5°	1322603
10°	1337896
15°	1375746
20°	1378082
25°	1250233
30°	1117136
35°	981155
40°	722379
45°	404622
50°	199106
55°	111565
60°	67790
65°	44479
70°	33034
75°	29166
80°	21594
85°	21511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	6.9
10°-20°	758.9	20.4
20°-30°	1053.2	28.3
30°-40°	990.9	26.7
40°-50°	473.0	12.7
50°-60°	125.1	3.4
60°-70°	39.5	1.1
70°-80°	16.1	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°	2067.4	55.6
0°-40°	3058.3	82.3
0°-60°	3656.4	98.4
0°-90°	3716.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2732	
5°	2670	255
15°	2693	759
25°	2297	1053
35°	1629	991
45°	580	473
55°	130	125
65°	38	39
75°	15	16
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2731.5
2.5°	2697.2
5°	2670.5
7.5°	2666.7
10°	2670.5
12.5°	2678.1
15°	2693.4
17.5°	2693.4
20°	2624.7
22.5°	2479.7
25°	2296.6
27.5°	2113.5
30°	1960.9
32.5°	1812.1
35°	1629.0
37.5°	1392.5
40°	1121.6
42.5°	835.5
45°	579.9
47.5°	385.3
50°	259.4
52.5°	179.3
55°	129.7
57.5°	91.6
60°	68.7
62.5°	49.6
65°	38.1
67.5°	26.7
70°	22.9
72.5°	19.1
75°	15.3
77.5°	11.4
80°	7.6
82.5°	7.6
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)