

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: P431689

Luminaire Tested: **LAMR4B312R559027DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-898-142)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R559027DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 55 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3386.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.81
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

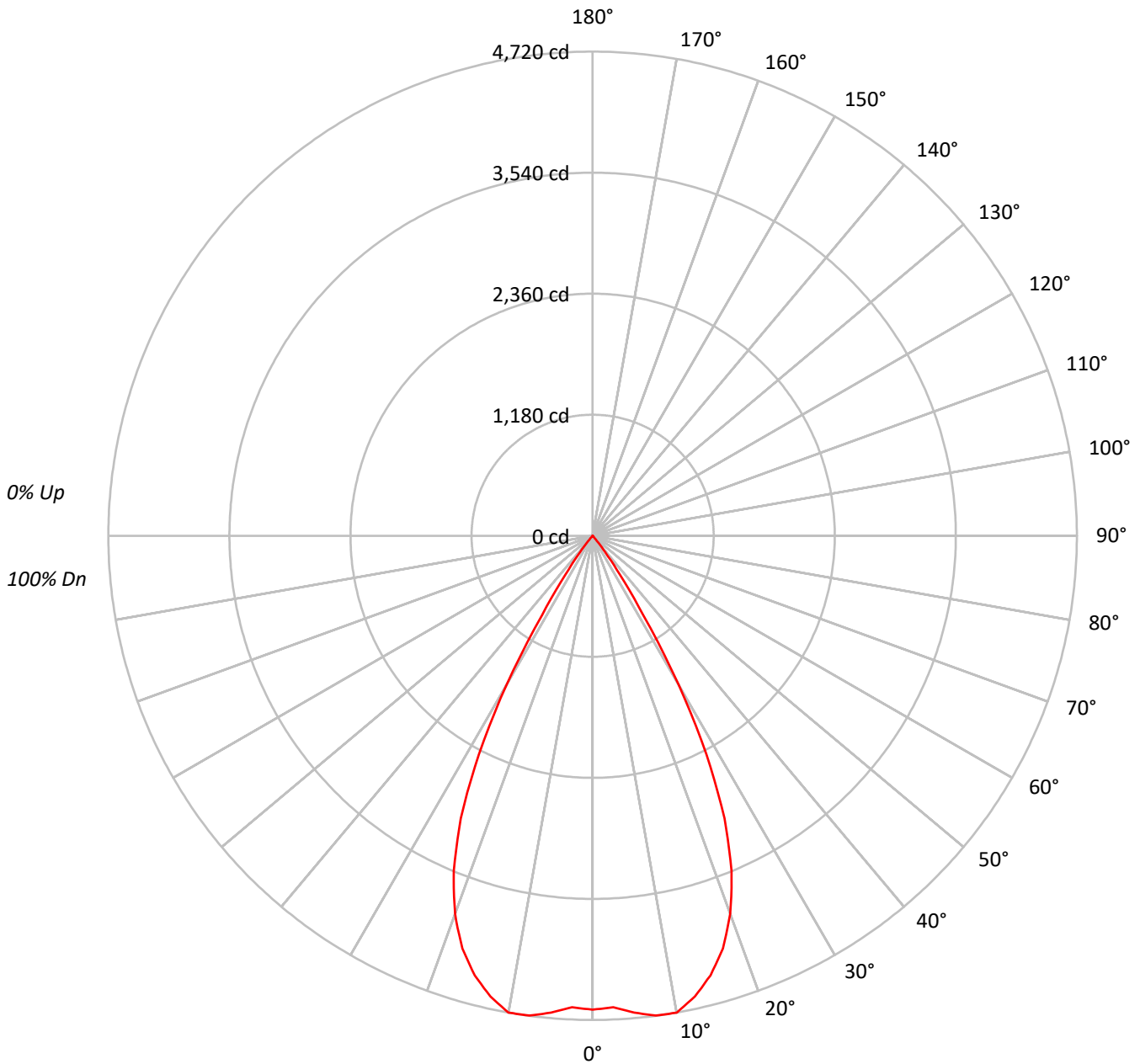
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95	95	94	93	91	88	86	85	85	84	82	80	76	72	68	65	62	59										
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72										
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68										
4	100	94	89	85	99	92	88	85	90	87	84	88	85	83	87	84	82	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62									
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59										
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55										
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52										
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48										
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45										
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42										

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2278920
5°	2310853
10°	2364927
15°	2266043
20°	2058853
25°	1654547
30°	952434
35°	276398
40°	42250
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	13.2
10°-20°	1234.3	36.5
20°-30°	1332.3	39.3
30°-40°	364.4	10.8
40°-50°	7.7	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3014.0	89.0
0°-40°	3378.4	99.8
0°-60°	3386.1	100.0
0°-90°	3386.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4619	
5°	4666	447
15°	4436	1234
25°	3039	1332
35°	459	364
45°	0	8
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4619.0
2.5°	4600.3
5°	4665.9
7.5°	4717.4
10°	4720.5
12.5°	4600.3
15°	4436.4
17.5°	4219.4
20°	3921.3
22.5°	3537.3
25°	3039.3
27.5°	2404.0
30°	1671.8
32.5°	916.3
35°	458.9
37.5°	196.7
40°	65.6
42.5°	9.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)