

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: P431527

Luminaire Tested: **LAMR4B312R209035DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R209035DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.1 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

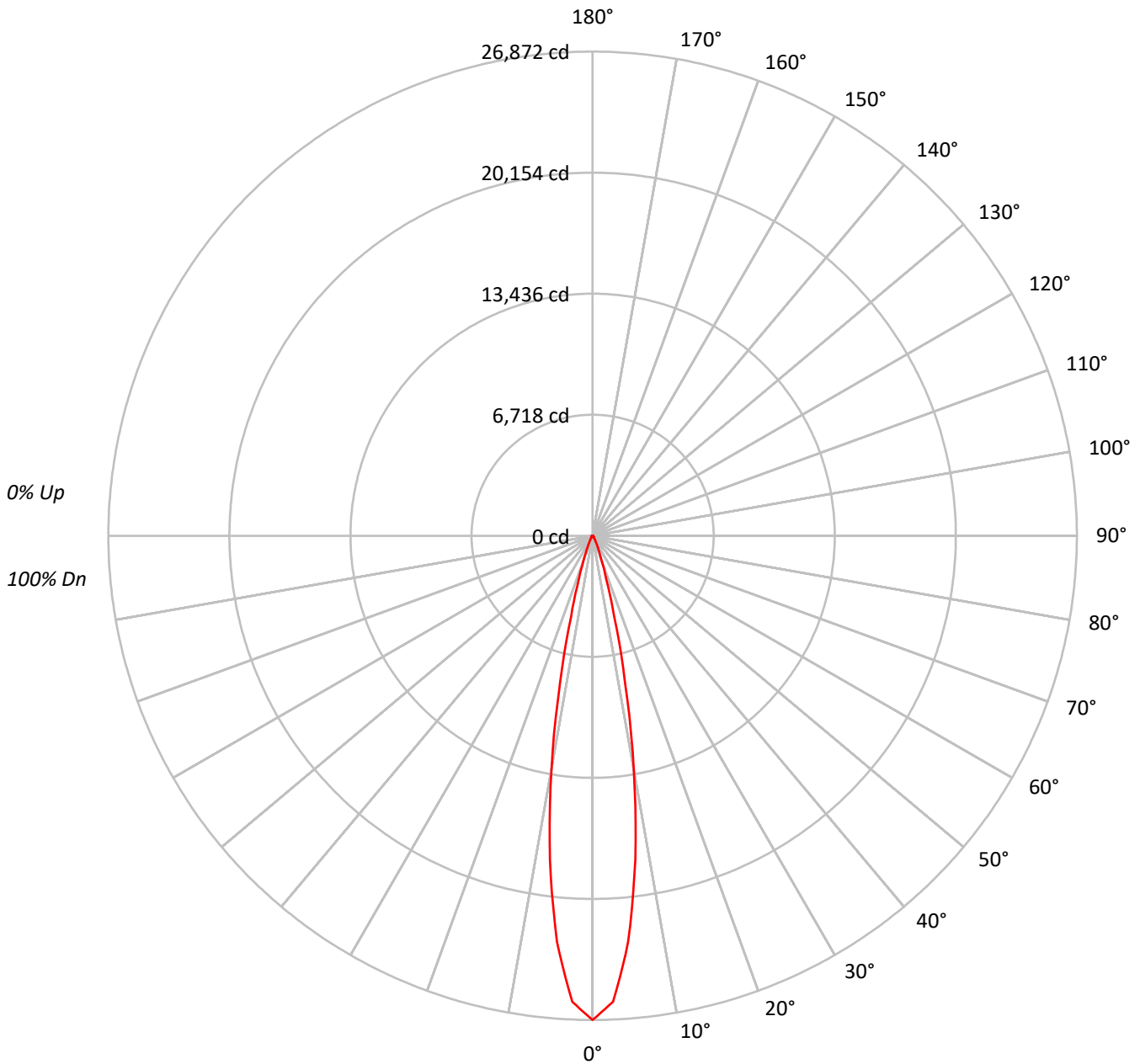
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97			97																
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95			94																	
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93			91																	
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90			89																	
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88			87																	
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86			85																	
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84			83																	
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82			81																	
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81			80																	
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79			78																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13258046
5°	11206491
10°	6582267
15°	2356809
20°	779847
25°	310408
30°	148351
35°	84805
40°	61186
45°	51563
50°	59409
55°	48428
60°	24274
65°	20547
70°	25389
75°	26878
80°	19889
85°	19813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1852.8	48.3
10°-20°	1444.9	37.6
20°-30°	299.9	7.8
30°-40°	94.5	2.5
40°-50°	60.8	1.6
50°-60°	48.8	1.3
60°-70°	19.2	0.5
70°-80°	14.4	0.4
80°-90°	2.9	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°	3597.6	93.7
0°-40°	3692.1	96.2
0°-60°	3801.7	99.1
0°-90°	3838.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26872	
5°	22627	###
15°	4614	1445
25°	570	300
35°	141	95
45°	74	61
55°	56	49
65°	18	19
75°	14	14
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	26871.9
2.5°	25886.4
5°	22627.3
7.5°	18129.3
10°	13138.5
12.5°	8288.6
15°	4614.1
17.5°	2537.6
20°	1485.3
22.5°	908.0
25°	570.2
27.5°	376.6
30°	260.4
32.5°	183.0
35°	140.8
37.5°	112.6
40°	95.0
42.5°	80.9
45°	73.9
47.5°	73.9
50°	77.4
52.5°	73.9
55°	56.3
57.5°	38.7
60°	24.6
62.5°	21.1
65°	17.6
67.5°	17.6
70°	17.6
72.5°	17.6
75°	14.1
77.5°	10.6
80°	7.0
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)