

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: P434544

Luminaire Tested: **LAMR4B408R709024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434544
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: LAMR4B408R709024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2756.6 lumens
Efficiency: N/A
Efficacy: 66.9 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

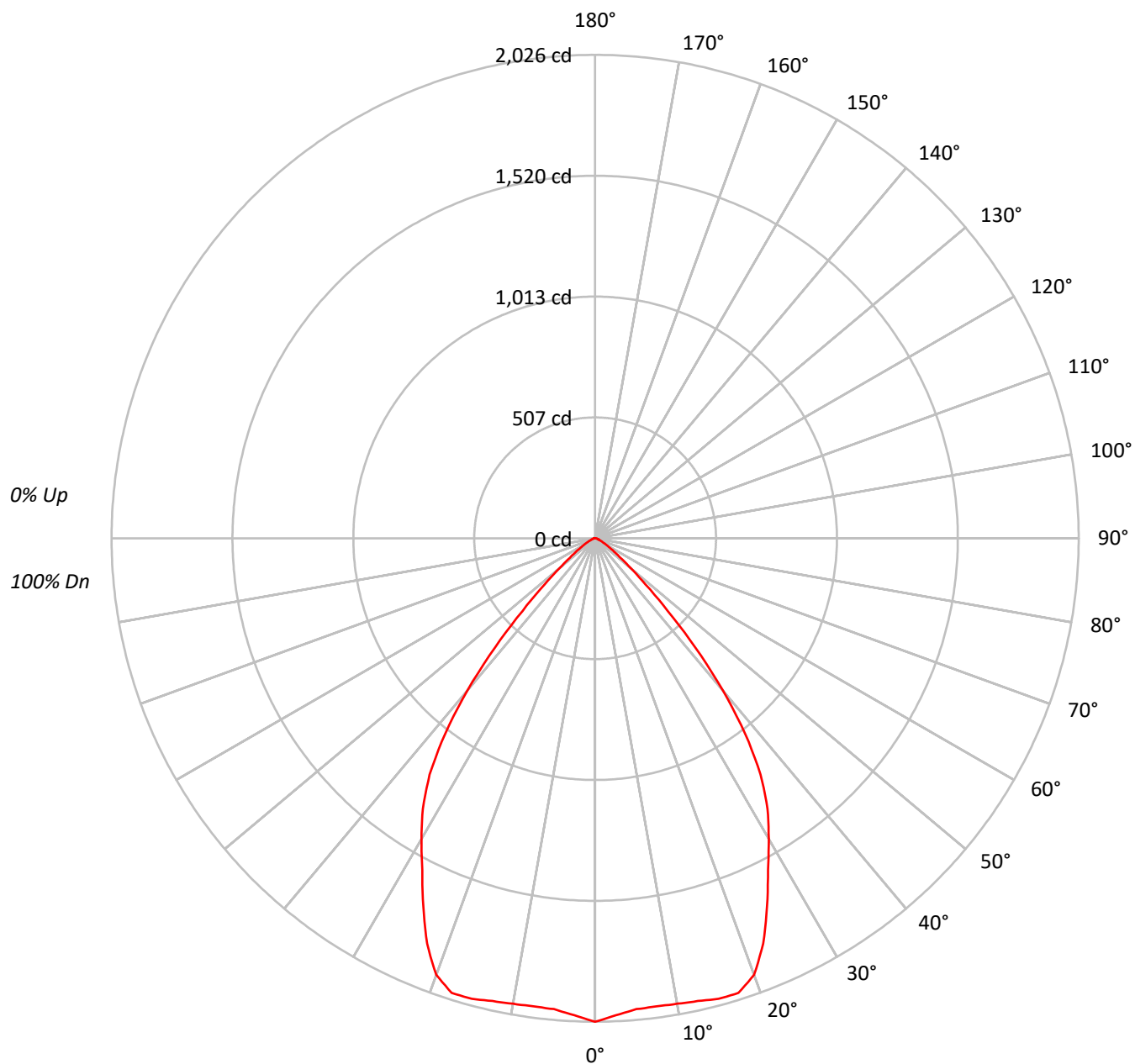
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	999686
5°	981069
10°	992413
15°	1020496
20°	1022260
25°	927413
30°	828694
35°	727826
40°	535859
45°	300100
50°	147679
55°	82749
60°	50226
65°	33038
70°	24523
75°	21541
80°	16195
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	6.9
10°-20°	563.0	20.4
20°-30°	781.3	28.3
30°-40°	735.0	26.7
40°-50°	350.9	12.7
50°-60°	92.7	3.4
60°-70°	29.3	1.1
70°-80°	11.9	0.4
80°-90°	3.1	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°	1533.6	55.6
0°-40°	2268.6	82.3
0°-60°	2712.3	98.4
0°-90°	2756.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2756.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2026	
5°	1981	189
15°	1998	563
25°	1704	781
35°	1208	735
45°	430	351
55°	96	93
65°	28	29
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2026.2
2.5°	2000.7
5°	1980.9
7.5°	1978.1
10°	1980.9
12.5°	1986.6
15°	1997.9
17.5°	1997.9
20°	1947.0
22.5°	1839.4
25°	1703.6
27.5°	1567.8
30°	1454.6
32.5°	1344.2
35°	1208.4
37.5°	1032.9
40°	832.0
42.5°	619.8
45°	430.1
47.5°	285.8
50°	192.4
52.5°	133.0
55°	96.2
57.5°	67.9
60°	50.9
62.5°	36.8
65°	28.3
67.5°	19.8
70°	17.0
72.5°	14.1
75°	11.3
77.5°	8.5
80°	5.7
82.5°	5.7
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)