

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: P434522

Luminaire Tested: **LAMR4B408R659027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R659027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2986.9 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

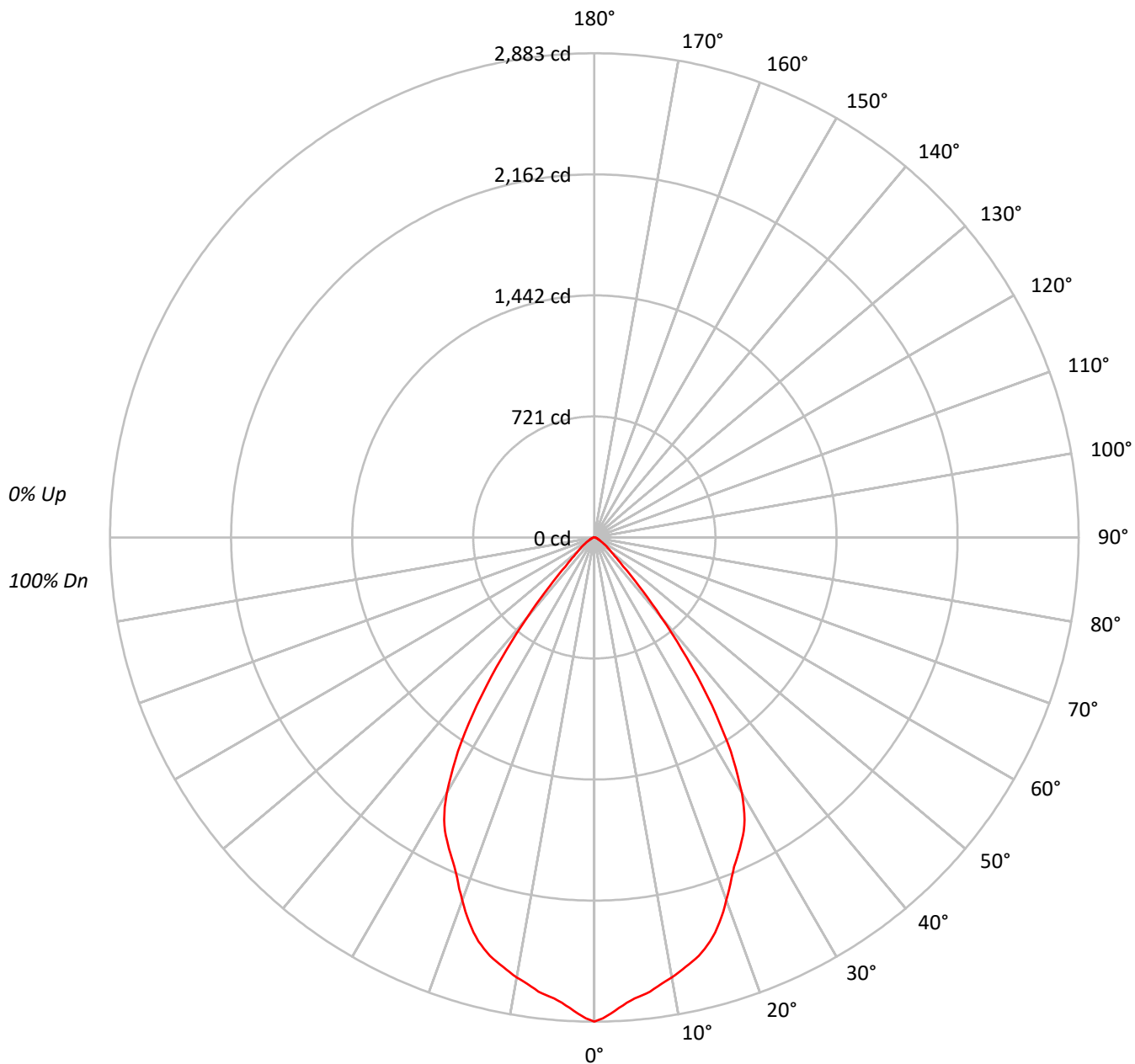
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67		
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50		
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1422413
5°	1364998
10°	1332685
15°	1295451
20°	1206393
25°	1114300
30°	1000289
35°	734873
40°	396871
45°	170668
50°	95101
55°	66578
60°	42825
65°	32571
70°	26831
75°	23638
80°	26424
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	8.7
10°-20°	707.7	23.7
20°-30°	938.1	31.4
30°-40°	742.9	24.9
40°-50°	221.3	7.4
50°-60°	70.8	2.4
60°-70°	28.3	0.9
70°-80°	13.5	0.5
80°-90°	3.8	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°	1906.3	63.8
0°-40°	2649.2	88.7
0°-60°	2941.3	98.5
0°-90°	2986.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2883	
5°	2756	260
15°	2536	708
25°	2047	938
35°	1220	743
45°	245	221
55°	77	71
65°	28	28
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2883.0
1°	2864.4
2°	2836.6
3°	2805.6
4°	2777.7
5°	2756.1
6°	2740.6
7°	2725.1
8°	2700.3
9°	2678.6
10°	2660.1
11°	2638.4
12°	2613.6
13°	2591.9
14°	2567.2
15°	2536.2
16°	2502.1
17°	2458.8
18°	2409.2
19°	2356.6
20°	2297.7
21°	2242.0
22°	2183.2
23°	2130.5
24°	2087.2
25°	2046.9
26°	2003.6
27°	1960.2
28°	1904.5
29°	1836.3
30°	1755.8
32.5°	1511.2
35°	1220.1
37.5°	904.2
40°	616.2
42.5°	390.2
45°	244.6
47.5°	164.1
50°	123.9
52.5°	99.1
55°	77.4
57.5°	58.8
60°	43.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	21.7
70°	18.6
72.5°	15.5
75°	12.4
77.5°	9.3
80°	9.3
82.5°	6.2
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	34.1
65°	27.9



(END OF REPORT)