

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: P433277

Luminaire Tested: **LAM4B408R659030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433277
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: LAM4B408R659030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 74.6 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

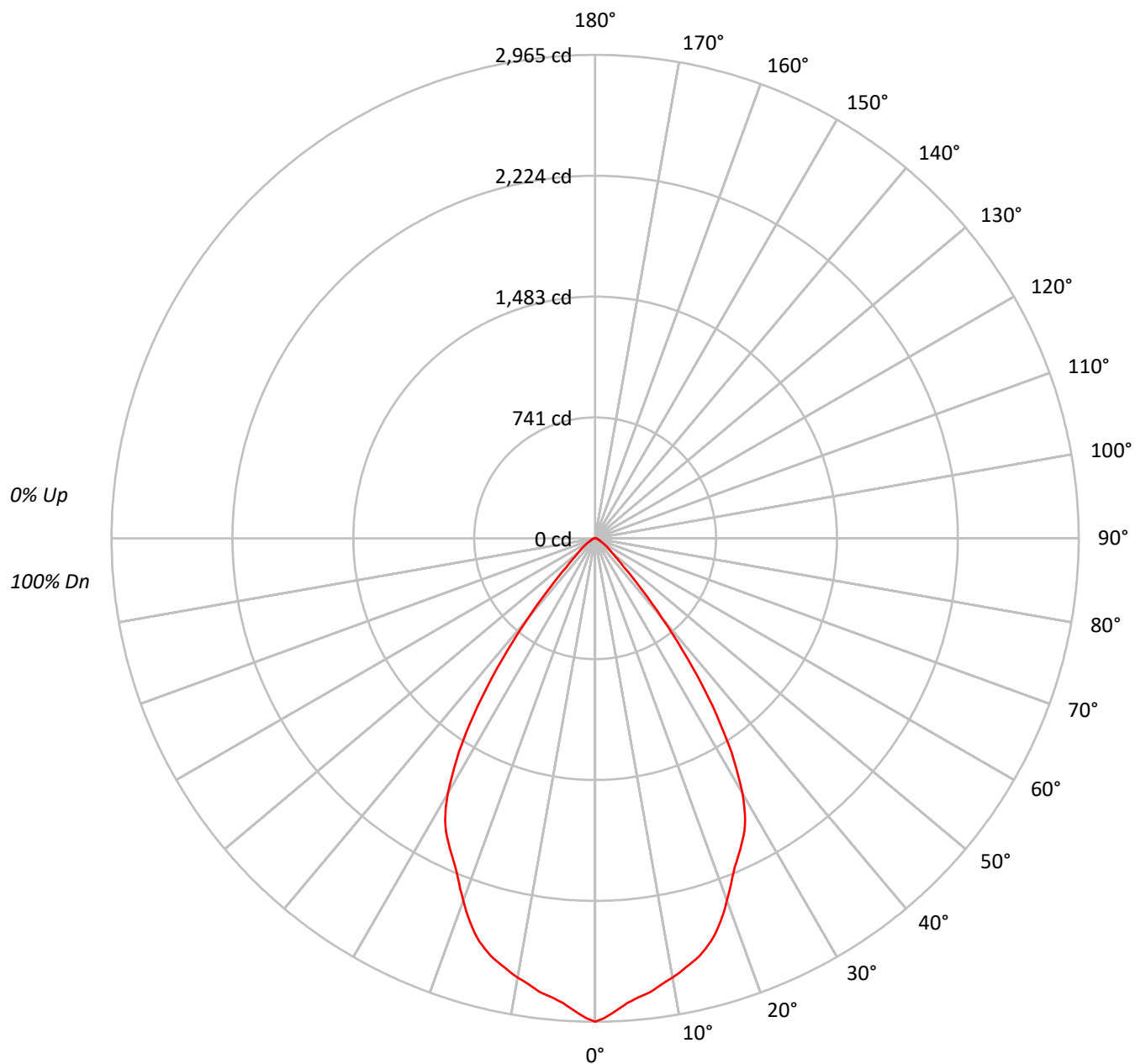
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P433277

CATALOG NUMBER: LAM4B408R659030DE01021MMS

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1462969
5°	1403925
10°	1370661
15°	1332380
20°	1240835
25°	1146092
30°	1028831
35°	755833
40°	408206
45°	175552
50°	97787
55°	68470
60°	44009
65°	33505
70°	27553
75°	24210
80°	27276
85°	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	8.7
10°-20°	727.9	23.7
20°-30°	964.9	31.4
30°-40°	764.1	24.9
40°-50°	227.6	7.4
50°-60°	72.9	2.4
60°-70°	29.1	0.9
70°-80°	13.9	0.5
80°-90°	3.9	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°	1960.6	63.8
0°-40°	2724.7	88.7
0°-60°	3025.2	98.5
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2965	
5°	2835	268
15°	2608	728
25°	2105	965
35°	1255	764
45°	252	228
55°	80	73
65°	29	29
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2965.2
1°	2946.1
2°	2917.5
3°	2885.6
4°	2857.0
5°	2834.7
6°	2818.7
7°	2802.8
8°	2777.3
9°	2755.0
10°	2735.9
11°	2713.6
12°	2688.1
13°	2665.9
14°	2640.4
15°	2608.5
16°	2573.5
17°	2528.9
18°	2477.9
19°	2423.8
20°	2363.3
21°	2305.9
22°	2245.4
23°	2191.3
24°	2146.7
25°	2105.3
26°	2060.7
27°	2016.1
28°	1958.8
29°	1888.7
30°	1805.9
32.5°	1554.3
35°	1254.9
37.5°	930.0
40°	633.8
42.5°	401.3
45°	251.6
47.5°	168.8
50°	127.4
52.5°	101.9
55°	79.6
57.5°	60.5
60°	44.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.3
70°	19.1
72.5°	15.9
75°	12.7
77.5°	9.6
80°	9.6
82.5°	6.4
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°	35.0
65°	28.7



(END OF REPORT)