

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: P433182

Luminaire Tested: **LAM4B408R459030DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R459030DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3186.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

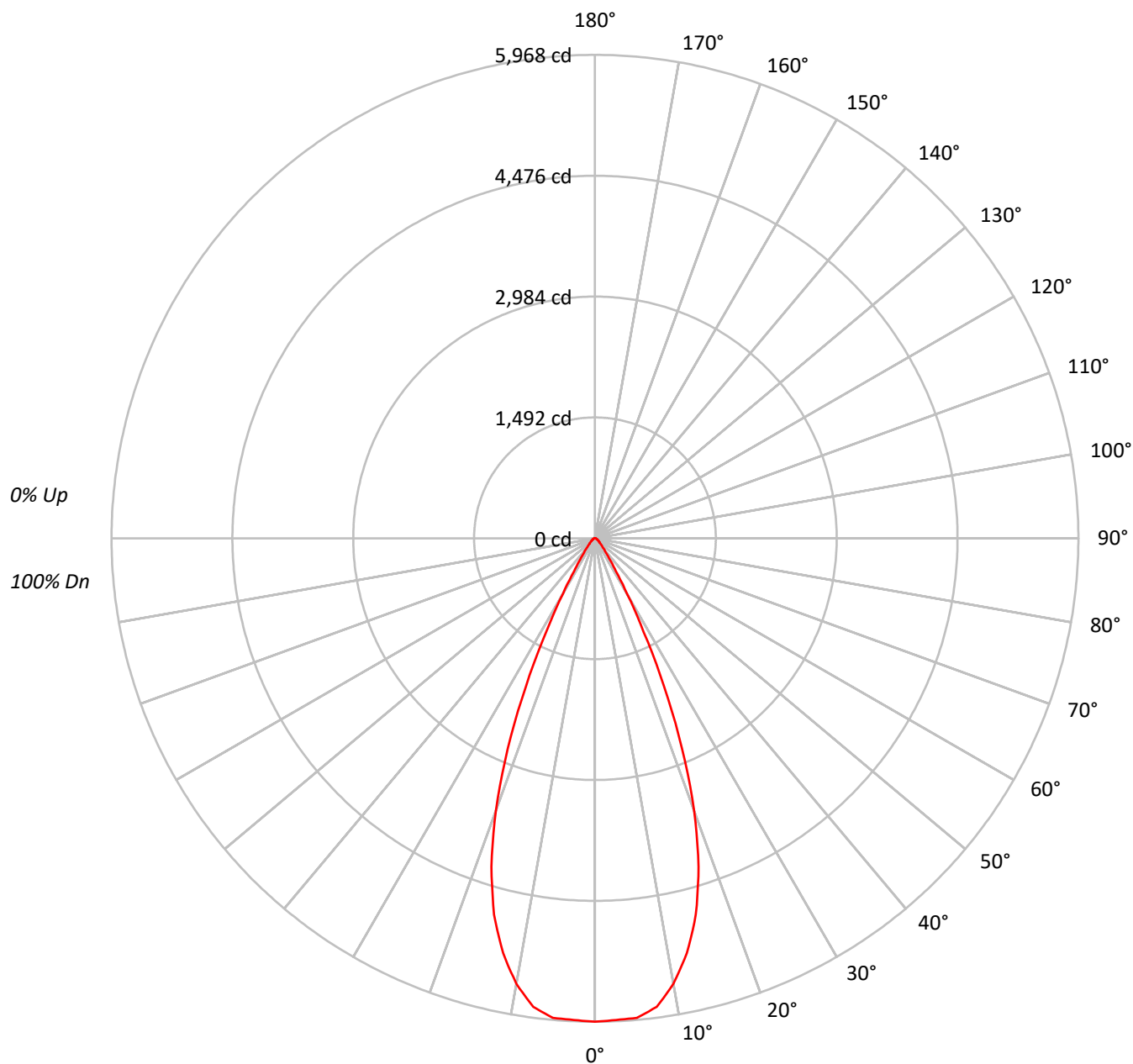
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	109	107	112	109	107	105		105	104	102			102	100	99			98
2	109	105	101	98	107	103	100	97		100	97	95			97	95	93			94
3	105	99	94	91	103	98	93	90		95	92	89			93	90	87			90
4	100	94	89	85	99	93	88	85		90	87	84			89	85	83			87
5	96	89	84	80	95	88	83	80		86	82	79			85	81	78			83
6	92	85	79	76	91	84	79	75		82	78	75			81	77	74			80
7	89	81	75	72	87	80	75	72		79	74	71			78	74	71			77
8	85	77	72	68	84	77	72	68		76	71	68			75	71	68			74
9	82	74	69	65	81	73	68	65		72	68	65			72	68	65			71
10	79	71	66	62	78	70	66	62		70	65	62			69	65	62			68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2944538
5°	2943553
10°	2797883
15°	2457689
20°	1880128
25°	1097587
30°	449213
35°	189967
40°	103565
45°	66914
50°	52194
55°	45246
60°	36609
65°	28836
70°	26831
75°	23638
80°	26424
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.2	17.5
10°-20°	1309.9	41.1
20°-30°	923.0	29.0
30°-40°	227.2	7.1
40°-50°	79.3	2.5
50°-60°	46.9	1.5
60°-70°	26.0	0.8
70°-80°	14.3	0.4
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°	2789.1	87.5
0°-40°	3016.2	94.7
0°-60°	3142.4	98.6
0°-90°	3186.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5968	
5°	5943	556
15°	4812	1310
25°	2016	923
35°	315	227
45°	96	79
55°	53	47
65°	25	26
75°	12	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5968.1
2.5°	5952.6
5°	5943.4
7.5°	5835.1
10°	5584.7
12.5°	5244.5
15°	4811.6
17.5°	4251.9
20°	3580.9
22.5°	2810.9
25°	2016.2
27.5°	1301.9
30°	788.5
32.5°	479.3
35°	315.4
37.5°	222.6
40°	160.8
42.5°	123.7
45°	95.9
47.5°	80.4
50°	68.0
52.5°	58.8
55°	52.6
57.5°	46.4
60°	37.1
62.5°	30.9
65°	24.7
67.5°	21.6
70°	18.6
72.5°	15.5
75°	12.4
77.5°	12.4
80°	9.3
82.5°	6.2
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)