

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: P433186

Luminaire Tested: **LAM4B408R459040DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433186
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: LAM4B408R459040DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549.5 lumens
Efficiency: N/A
Efficacy: 86.2 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

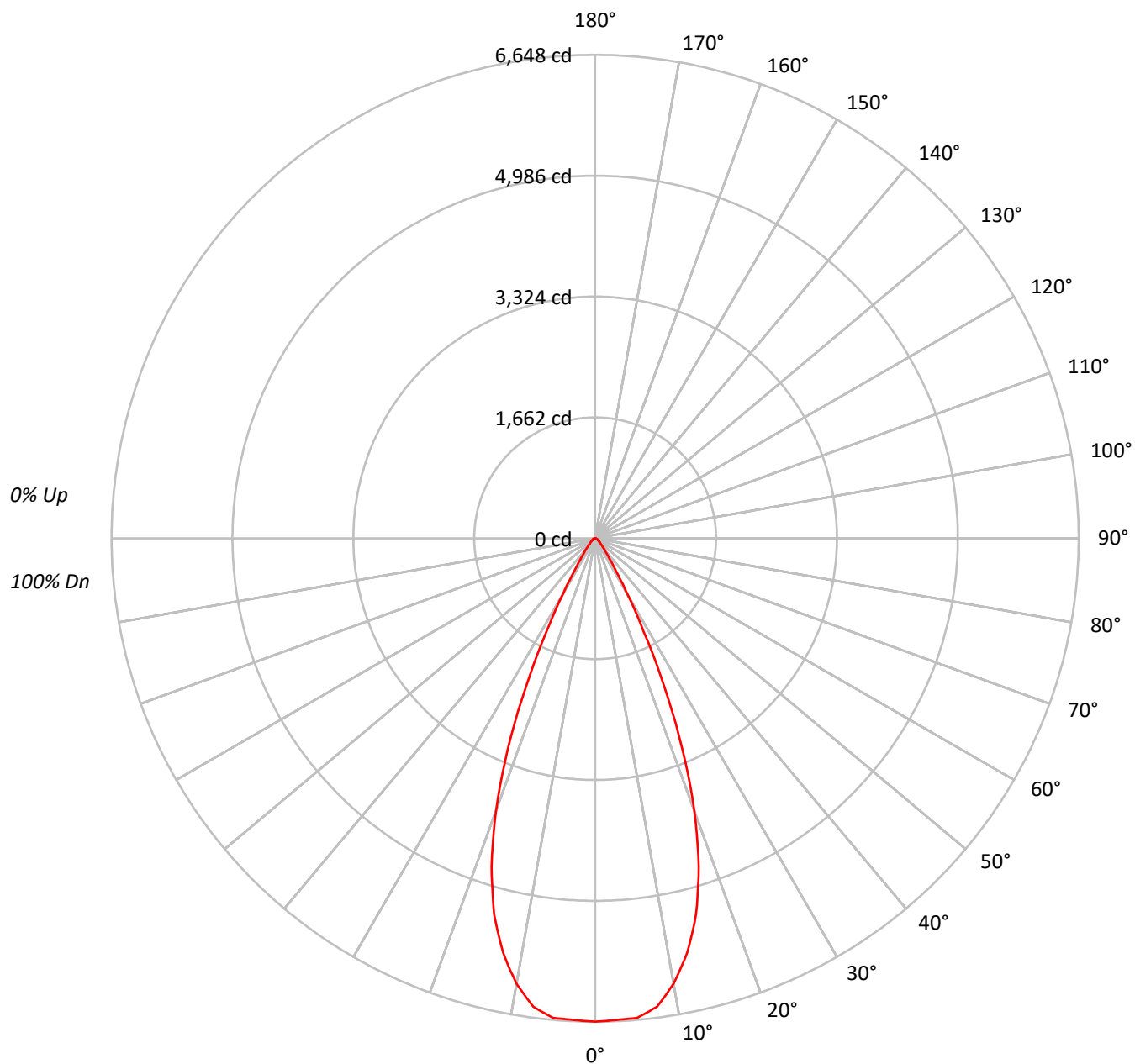
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3279987
5°	3278847
10°	3116613
15°	2737650
20°	2094294
25°	1222578
30°	500429
35°	211590
40°	115351
45°	74519
50°	58181
55°	50407
60°	40753
65°	32221
70°	29861
75°	26307
80°	29265
85°	19247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.5	17.5
10°-20°	1459.2	41.1
20°-30°	1028.1	29.0
30°-40°	253.0	7.1
40°-50°	88.3	2.5
50°-60°	52.3	1.5
60°-70°	28.9	0.8
70°-80°	15.9	0.4
80°-90°	4.2	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°	3106.8	87.5
0°-40°	3359.8	94.7
0°-60°	3500.4	98.6
0°-90°	3549.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6648	
5°	6620	620
15°	5360	1459
25°	2246	1028
35°	351	253
45°	107	88
55°	59	52
65°	28	29
75°	14	16
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6648.0
2.5°	6630.8
5°	6620.4
7.5°	6499.9
10°	6220.9
12.5°	5842.0
15°	5359.7
17.5°	4736.3
20°	3988.8
22.5°	3131.1
25°	2245.8
27.5°	1450.2
30°	878.4
32.5°	533.9
35°	351.3
37.5°	248.0
40°	179.1
42.5°	137.8
45°	106.8
47.5°	89.6
50°	75.8
52.5°	65.4
55°	58.6
57.5°	51.7
60°	41.3
62.5°	34.4
65°	27.6
67.5°	24.1
70°	20.7
72.5°	17.2
75°	13.8
77.5°	13.8
80°	10.3
82.5°	6.9
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)