

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: P432998

Luminaire Tested: **LAM4B308R709050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432998
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: LAM4B308R709050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.6 lumens
Efficiency: N/A
Efficacy: 85.3 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

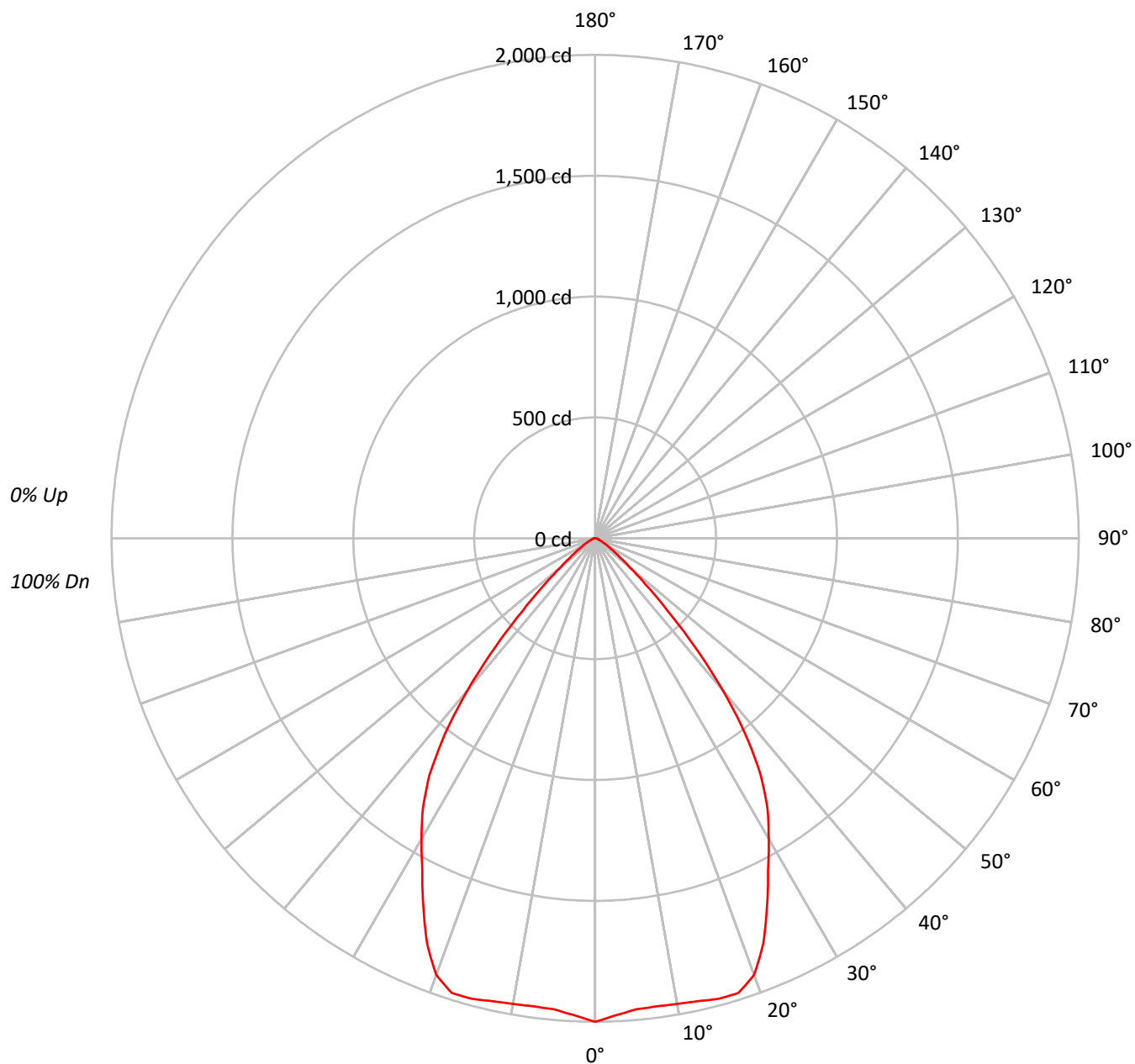
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	52	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	987006
5°	968638
10°	979838
15°	1007522
20°	1009239
25°	915654
30°	818154
35°	718550
40°	529032
45°	296332
50°	145837
55°	81717
60°	49634
65°	32571
70°	24235
75°	21350
80°	15911
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	6.9
10°-20°	555.8	20.4
20°-30°	771.4	28.3
30°-40°	725.7	26.7
40°-50°	346.4	12.7
50°-60°	91.6	3.4
60°-70°	28.9	1.1
70°-80°	11.8	0.4
80°-90°	3.0	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°	1514.1	55.6
0°-40°	2239.8	82.3
0°-60°	2677.9	98.4
0°-90°	2721.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2000	
5°	1956	187
15°	1972	556
25°	1682	771
35°	1193	726
45°	425	346
55°	95	92
65°	28	29
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2000.5
2.5°	1975.3
5°	1955.8
7.5°	1953.0
10°	1955.8
12.5°	1961.4
15°	1972.5
17.5°	1972.5
20°	1922.2
22.5°	1816.1
25°	1682.0
27.5°	1547.9
30°	1436.1
32.5°	1327.1
35°	1193.0
37.5°	1019.8
40°	821.4
42.5°	611.9
45°	424.7
47.5°	282.2
50°	190.0
52.5°	131.3
55°	95.0
57.5°	67.1
60°	50.3
62.5°	36.3
65°	27.9
67.5°	19.6
70°	16.8
72.5°	14.0
75°	11.2
77.5°	8.4
80°	5.6
82.5°	5.6
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)