

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: P433301

Luminaire Tested: **LAM4B408R709030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433301
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: LAM4B408R709030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3092.3 lumens
Efficiency: N/A
Efficacy: 75.1 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

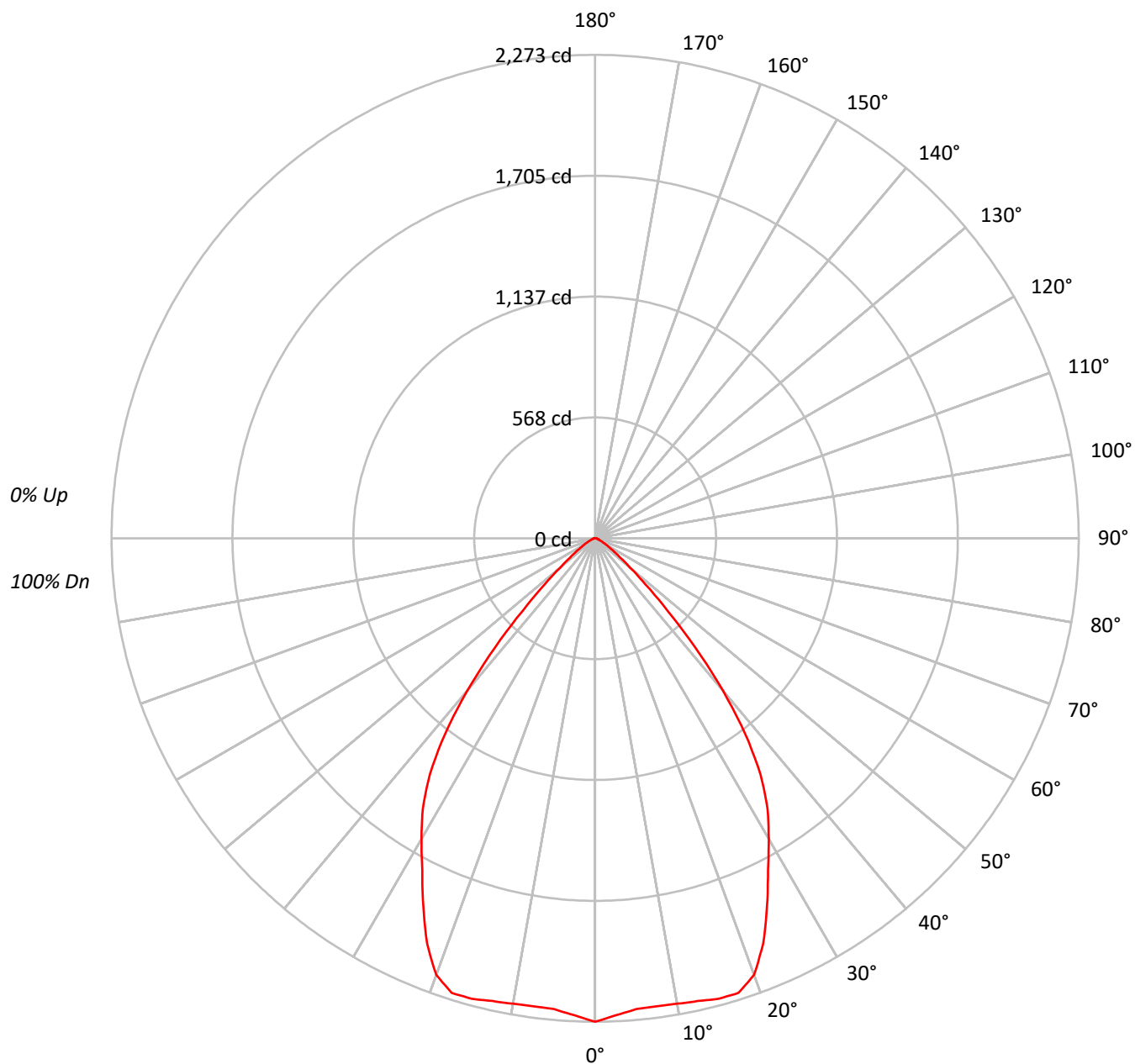
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	53	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°	1121452
5°	1100576
10°	1113302
15°	1144820
20°	1146748
25°	1040372
30°	929589
35°	816485
40°	601102
45°	336662
50°	165717
55°	92814
60°	56344
65°	37008
70°	27408
75°	24210
80°	17900
85°	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	6.9
10°-20°	631.5	20.4
20°-30°	876.4	28.3
30°-40°	824.6	26.7
40°-50°	393.6	12.7
50°-60°	104.0	3.4
60°-70°	32.8	1.1
70°-80°	13.4	0.4
80°-90°	3.4	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°	1720.4	55.6
0°-40°	2545.0	82.3
0°-60°	3042.6	98.4
0°-90°	3092.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2273	
5°	2222	212
15°	2241	632
25°	1911	876
35°	1356	825
45°	482	394
55°	108	104
65°	32	33
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2273.0
2.5°	2244.4
5°	2222.2
7.5°	2219.1
10°	2222.2
12.5°	2228.6
15°	2241.3
17.5°	2241.3
20°	2184.1
22.5°	2063.5
25°	1911.1
27.5°	1758.7
30°	1631.7
32.5°	1507.9
35°	1355.6
37.5°	1158.7
40°	933.3
42.5°	695.2
45°	482.5
47.5°	320.6
50°	215.9
52.5°	149.2
55°	107.9
57.5°	76.2
60°	57.1
62.5°	41.3
65°	31.7
67.5°	22.2
70°	19.0
72.5°	15.9
75°	12.7
77.5°	9.5
80°	6.3
82.5°	6.3
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)