

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: P433058

Luminaire Tested: **LAM4B408R209027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R209027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3105.3 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

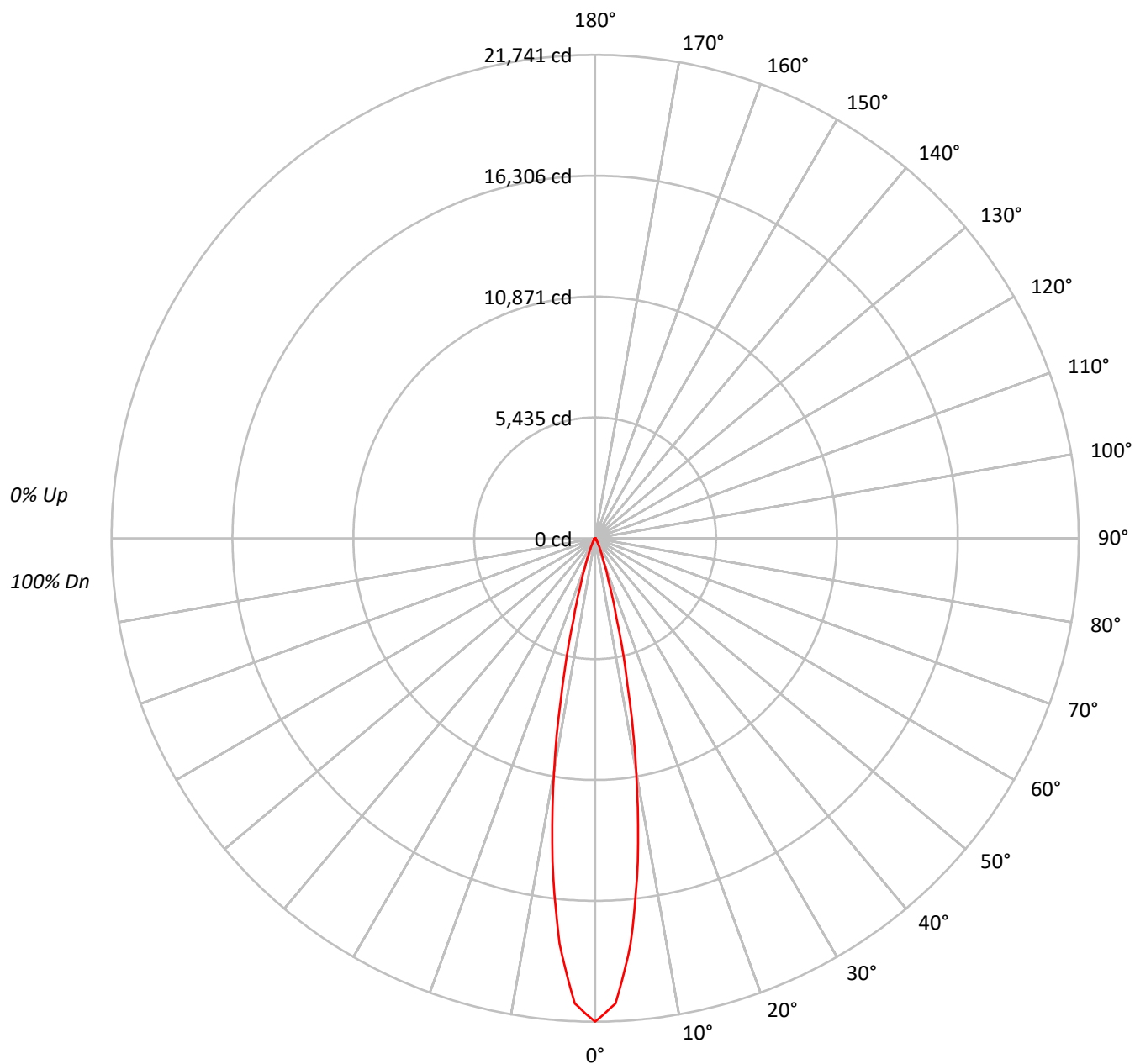
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	110		113	111	109	108		107	106	105			103	102	102			97
2	112	108	105	103		110	106	104	102		103	101	100			101	99	97			94
3	108	104	100	98		107	103	100	97		100	98	96			98	96	94			91
4	105	100	97	94		104	99	96	93		97	94	92			96	93	91			89
5	103	97	93	90		101	96	93	90		95	92	89			93	91	89			87
6	100	94	90	88		99	94	90	87		92	89	87			91	88	86			85
7	98	92	88	85		97	91	88	85		90	87	85			89	86	84			83
8	96	90	86	83		95	89	86	83		88	85	83			87	85	82			81
9	94	88	84	81		93	87	84	81		86	83	81			86	83	81			80
10	92	86	82	80		91	85	82	80		85	82	79			84	81	79			78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10726663
5°	9066801
10°	5325531
15°	1906859
20°	630945
25°	251124
30°	120037
35°	68603
40°	49528
45°	41725
50°	48049
55°	39224
60°	19637
65°	16578
70°	20484
75°	21732
80°	16195
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.0	48.3
10°-20°	1169.0	37.6
20°-30°	242.6	7.8
30°-40°	76.5	2.5
40°-50°	49.2	1.6
50°-60°	39.5	1.3
60°-70°	15.5	0.5
70°-80°	11.6	0.4
80°-90°	2.3	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°	2910.7	93.7
0°-40°	2987.2	96.2
0°-60°	3075.9	99.1
0°-90°	3105.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21741	
5°	18307	###
15°	3733	1169
25°	461	243
35°	114	76
45°	60	49
55°	46	39
65°	14	15
75°	11	12
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21741.2
2.5°	20943.8
5°	18307.0
7.5°	14667.8
10°	10630.0
12.5°	6706.0
15°	3733.2
17.5°	2053.1
20°	1201.7
22.5°	734.7
25°	461.3
27.5°	304.7
30°	210.7
32.5°	148.1
35°	113.9
37.5°	91.1
40°	76.9
42.5°	65.5
45°	59.8
47.5°	59.8
50°	62.6
52.5°	59.8
55°	45.6
57.5°	31.3
60°	19.9
62.5°	17.1
65°	14.2
67.5°	14.2
70°	14.2
72.5°	14.2
75°	11.4
77.5°	8.5
80°	5.7
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)