

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: P433076

Luminaire Tested: **LAM4B408R209730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433076
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: LAM4B408R209730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2951.8 lumens
Efficiency: N/A
Efficacy: 71.6 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

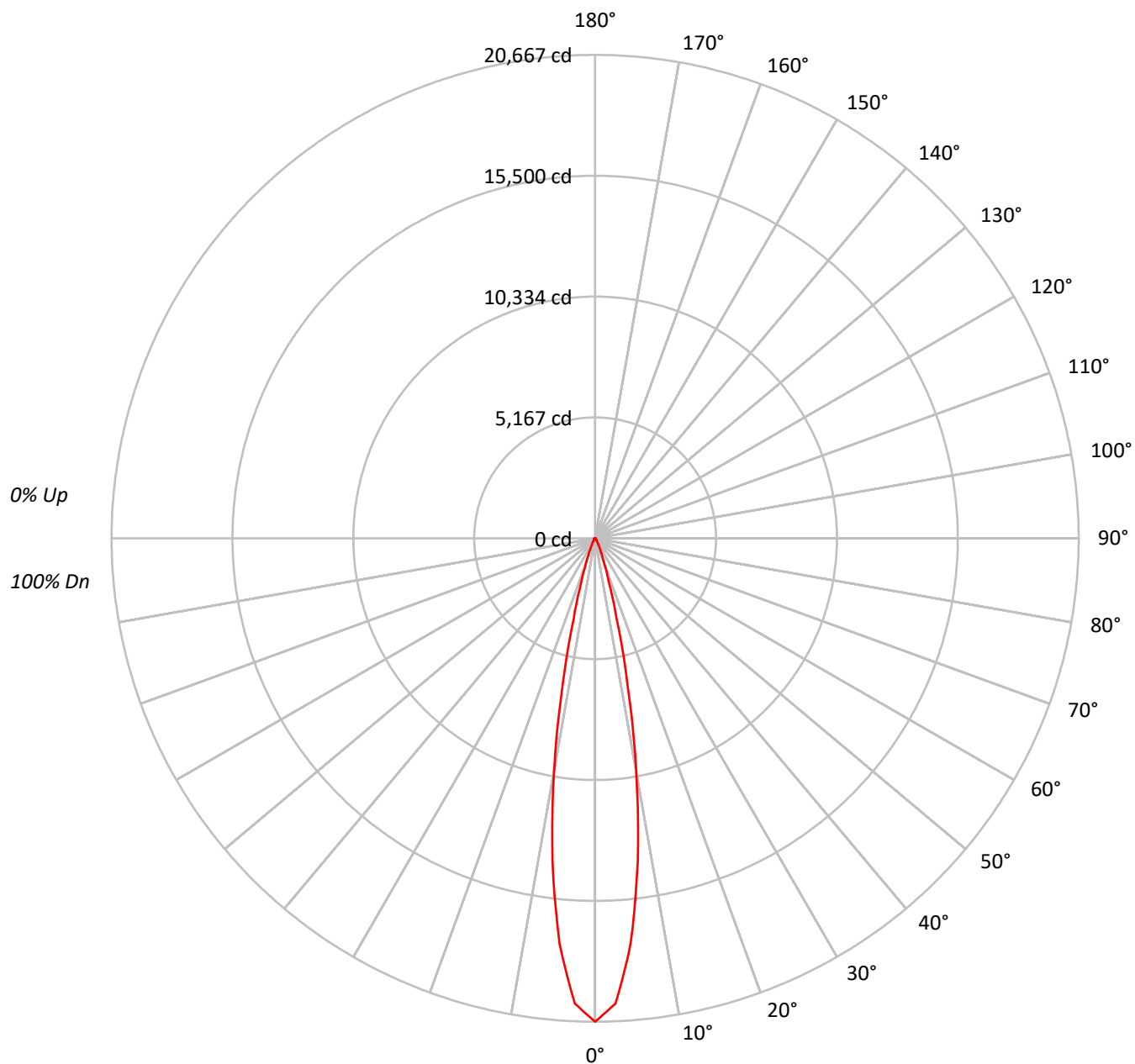
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	110		113	111	109	108		107	106	105		103	102	102		100	99	99
2	112	108	105	103		110	106	104	102		103	101	100		101	99	97		98	97	95
3	108	104	100	98		107	103	100	97		100	98	96		98	96	94		96	94	93
4	105	100	97	94		104	99	96	93		97	94	92		96	93	91		94	92	90
5	103	97	93	90		101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	88		99	94	90	87		92	89	87		91	88	86		90	88	86
7	98	92	88	85		97	91	88	85		90	87	85		89	86	84		88	86	84
8	96	90	86	83		95	89	86	83		88	85	83		87	85	82		87	84	82
9	94	88	84	81		93	87	84	81		86	83	81		86	83	81		85	82	81
10	92	86	82	80		91	85	82	80		85	82	79		84	81	79		83	81	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10196626
5°	8618785
10°	5062361
15°	1812620
20°	599757
25°	238712
30°	114112
35°	65230
40°	47081
45°	39632
50°	45747
55°	37246
60°	18650
65°	15760
70°	19474
75°	20588
80°	15343
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1425.0	48.3
10°-20°	1111.2	37.6
20°-30°	230.6	7.8
30°-40°	72.7	2.5
40°-50°	46.8	1.6
50°-60°	37.5	1.3
60°-70°	14.7	0.5
70°-80°	11.0	0.4
80°-90°	2.2	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°	2766.8	93.7
0°-40°	2839.6	96.2
0°-60°	2923.9	99.1
0°-90°	2951.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20667	
5°	17402	###
15°	3549	1111
25°	438	231
35°	108	73
45°	57	47
55°	43	38
65°	14	15
75°	11	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20666.9
2.5°	19909.0
5°	17402.4
7.5°	13943.1
10°	10104.7
12.5°	6374.7
15°	3548.7
17.5°	1951.6
20°	1142.3
22.5°	698.4
25°	438.5
27.5°	289.6
30°	200.3
32.5°	140.8
35°	108.3
37.5°	86.6
40°	73.1
42.5°	62.3
45°	56.8
47.5°	56.8
50°	59.6
52.5°	56.8
55°	43.3
57.5°	29.8
60°	18.9
62.5°	16.2
65°	13.5
67.5°	13.5
70°	13.5
72.5°	13.5
75°	10.8
77.5°	8.1
80°	5.4
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)