

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: P433025

Luminaire Tested: **LAM4B408R109727DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R109727DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2689.5 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

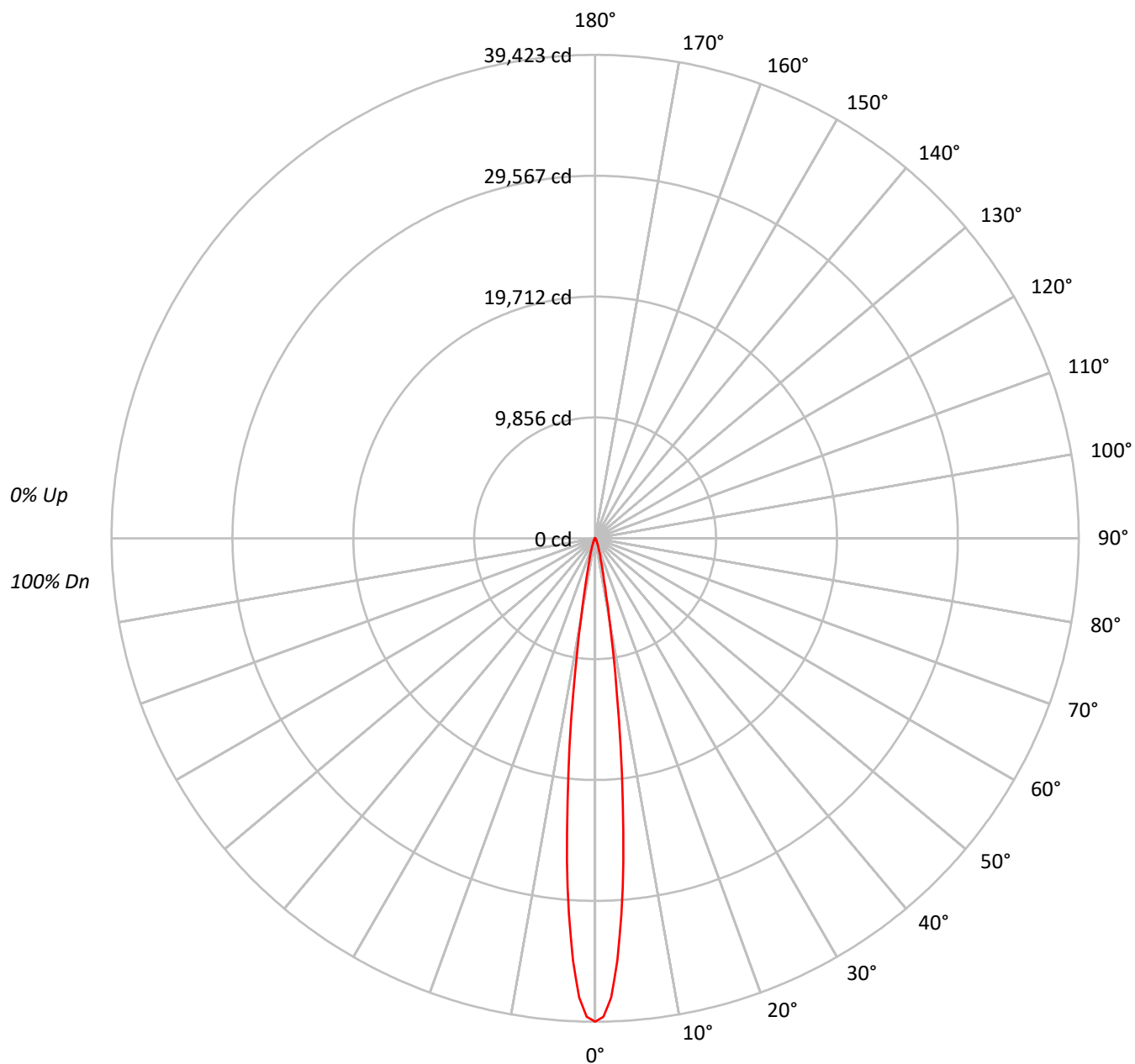
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	99			99
3	110	106	103	101	108	105	102	100		102	100	98			100	98	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			96
6	103	98	95	93	102	98	95	92		97	94	92			95	93	91			94
7	102	97	93	91	101	96	93	91		95	92	90			94	92	90			93
8	100	95	92	89	99	94	91	89		94	91	89			93	90	89			92
9	98	93	90	88	98	93	90	88		92	90	88			92	89	88			91
10	97	92	89	87	96	92	89	87		91	88	87			90	88	86			90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19450502
5°	13065168
10°	3334444
15°	863174
20°	386747
25°	184002
30°	98730
35°	57400
40°	44633
45°	24212
50°	19957
55°	14881
60°	17071
65°	10157
70°	12550
75°	16585
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1813.0	67.4
10°-20°	577.2	21.5
20°-30°	168.6	6.3
30°-40°	64.1	2.4
40°-50°	30.5	1.1
50°-60°	18.3	0.7
60°-70°	9.7	0.4
70°-80°	8.0	0.3
80°-90°	0.0	0.0
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°	2558.8	95.1
0°-40°	2622.9	97.5
0°-60°	2671.8	99.3
0°-90°	2689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	39423	
5°	26380	###
15°	1690	577
25°	338	169
35°	95	64
45°	35	31
55°	17	18
65°	9	10
75°	9	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	39423.0
1°	39041.6
2°	37464.4
3°	34457.2
4°	30739.3
5°	26380.2
6°	21561.7
7°	17115.9
8°	12782.8
9°	9316.3
10°	6655.7
11°	4714.5
12°	3492.5
13°	2651.9
14°	2105.9
15°	1689.9
17.5°	1100.6
20°	736.6
22.5°	494.0
25°	338.0
27.5°	234.0
30°	173.3
32.5°	121.3
35°	95.3
37.5°	78.0
40°	69.3
42.5°	52.0
45°	34.7
47.5°	26.0
50°	26.0
52.5°	26.0
55°	17.3
57.5°	17.3
60°	17.3
62.5°	8.7
65°	8.7
67.5°	8.7
70°	8.7
72.5°	8.7
75°	8.7
77.5°	8.7
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)