

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: P433016

Luminaire Tested: **LAM4B408R109035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433016
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: LAM4B408R109035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3266.4 lumens
Efficiency: N/A
Efficacy: 79.3 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

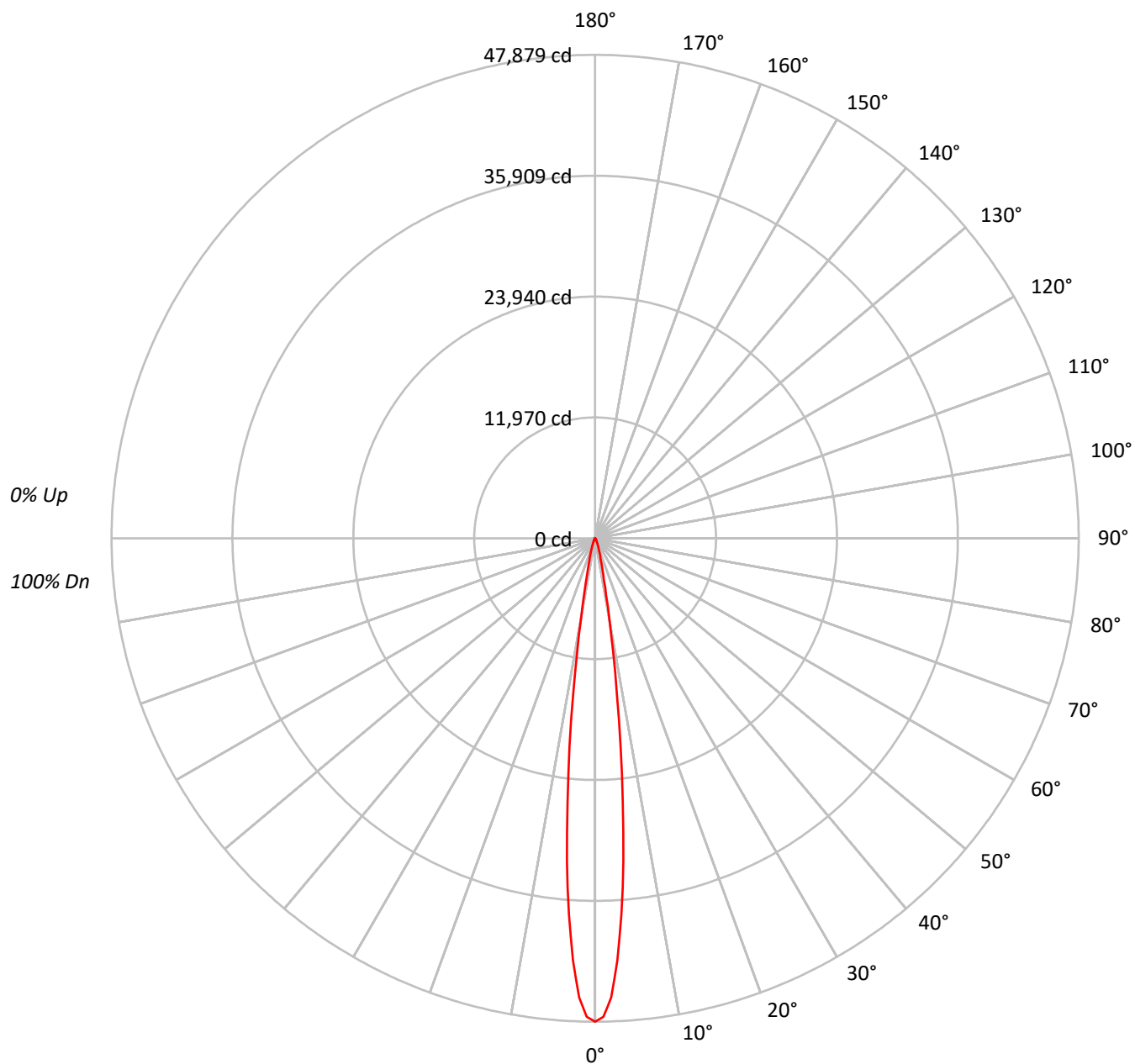
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
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°	23622421
5°	15867521
10°	4049658
15°	1048333
20°	469704
25°	223470
30°	119923
35°	69747
40°	54230
45°	29375
50°	24255
55°	18150
60°	20821
65°	12258
70°	15147
75°	20016
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2201.8	67.4
10°-20°	701.0	21.5
20°-30°	204.8	6.3
30°-40°	77.9	2.4
40°-50°	37.1	1.1
50°-60°	22.3	0.7
60°-70°	11.7	0.4
70°-80°	9.7	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°	3107.6	95.1
0°-40°	3185.5	97.5
0°-60°	3245.0	99.3
0°-90°	3266.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	47879	
5°	32038	###
15°	2052	701
25°	410	205
35°	116	78
45°	42	37
55°	21	22
65°	10	12
75°	10	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	47878.8
1°	47415.7
2°	45500.1
3°	41847.9
4°	37332.6
5°	32038.5
6°	26186.5
7°	20787.1
8°	15524.6
9°	11314.5
10°	8083.3
11°	5725.7
12°	4241.6
13°	3220.7
14°	2557.6
15°	2052.4
17.5°	1336.7
20°	894.6
22.5°	599.9
25°	410.5
27.5°	284.2
30°	210.5
32.5°	147.4
35°	115.8
37.5°	94.7
40°	84.2
42.5°	63.2
45°	42.1
47.5°	31.6
50°	31.6
52.5°	31.6
55°	21.1
57.5°	21.1
60°	21.1
62.5°	10.5
65°	10.5
67.5°	10.5
70°	10.5
72.5°	10.5
75°	10.5
77.5°	10.5
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)