

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: io LED

Report Number: P211085

Luminaire Tested: **LE_4B15D010 EC4B10209024 4LBS1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LE_4B15D010 EC4B10209024 4LBS1WMH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1248.2 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

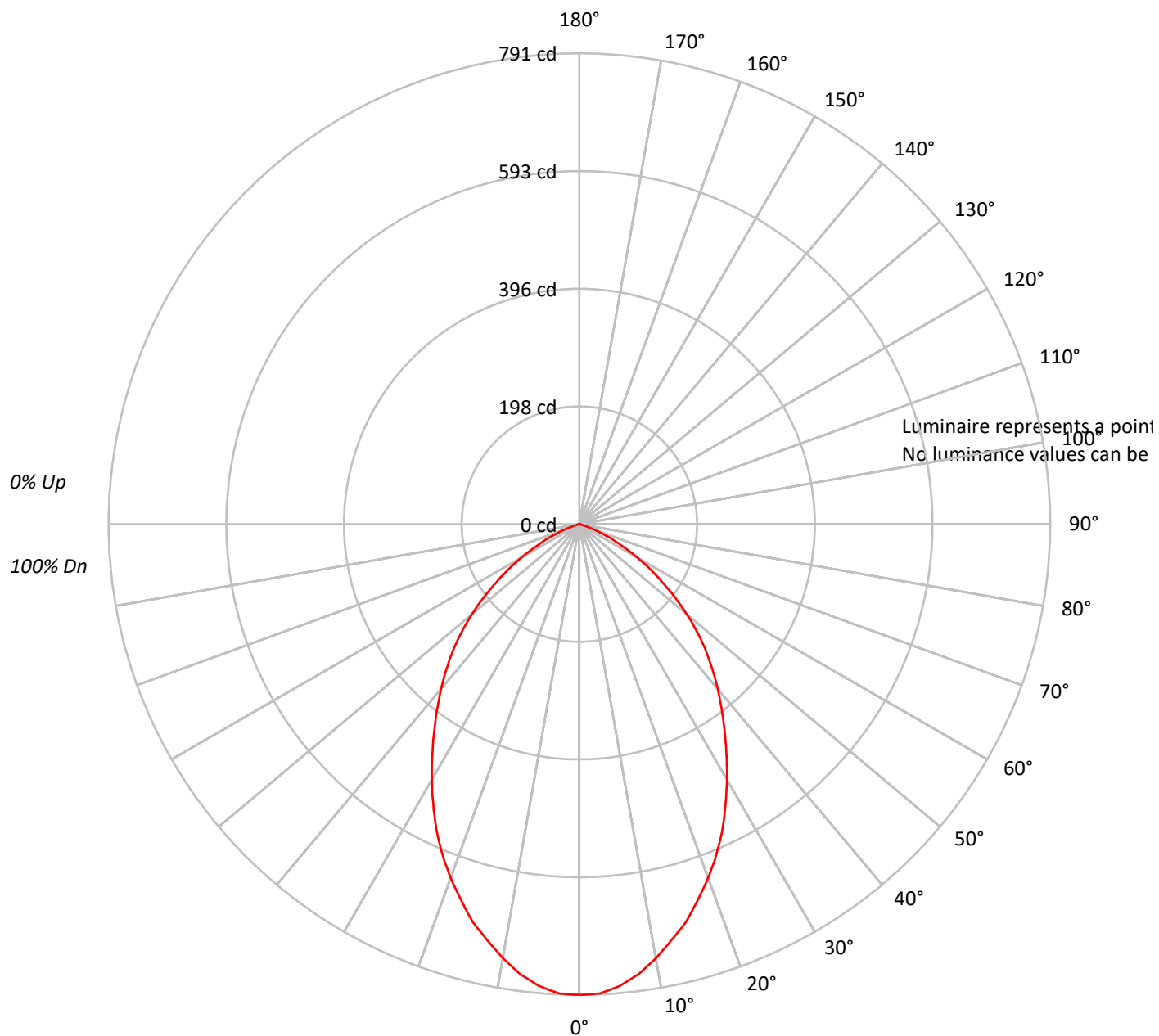
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102		109	106	103	101		102	100	97		98	96	94		95	93	92
2	104	98	92	88		102	96	91	87		92	88	85		89	86	83		86	84	81
3	96	88	82	76		94	87	81	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67		88	79	72	67		76	70	66		74	69	65		72	68	64
5	83	73	65	59		82	72	64	59		70	63	59		68	62	58		66	61	57
6	78	66	59	53		76	65	58	53		64	57	53		62	57	52		61	56	52
7	73	61	53	48		71	60	53	48		59	52	48		57	52	47		56	51	47
8	68	56	49	44		67	56	48	43		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		50	44	40		49	44	39		49	43	39
10	60	48	41	37		59	48	41	37		47	41	36		46	40	36		45	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	5.9
10°-20°	193.8	15.5
20°-30°	260.2	20.8
30°-40°	266.4	21.3
40°-50°	230.5	18.5
50°-60°	153.4	12.3
60°-70°	63.0	5.0
70°-80°	7.5	0.6
80°-90°	0.3	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°	527.1	42.2
0°-40°	793.5	63.6
0°-60°	1177.4	94.3
0°-90°	1248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	791	
5°	779	73
15°	692	194
25°	568	260
35°	425	266
45°	300	231
55°	170	153
65°	62	63
75°	3	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	791.1
2.5°	789.5
5°	778.8
7.5°	762.5
10°	740.4
12.5°	715.8
15°	692.2
17.5°	661.9
20°	632.4
22.5°	601.3
25°	567.8
27.5°	531.7
30°	495.8
32.5°	459.8
35°	425.4
37.5°	392.7
40°	361.6
42.5°	330.5
45°	300.2
47.5°	268.3
50°	235.6
52.5°	202.9
55°	170.2
57.5°	141.5
60°	112.1
62.5°	85.0
65°	62.2
67.5°	40.9
70°	23.8
72.5°	11.5
75°	3.2
77.5°	1.6
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)