

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: P211219

Luminaire Tested: **LE_4B15D010 EC4B10209030 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211219
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 EC4B10209030 4LBN1H
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 925.9 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

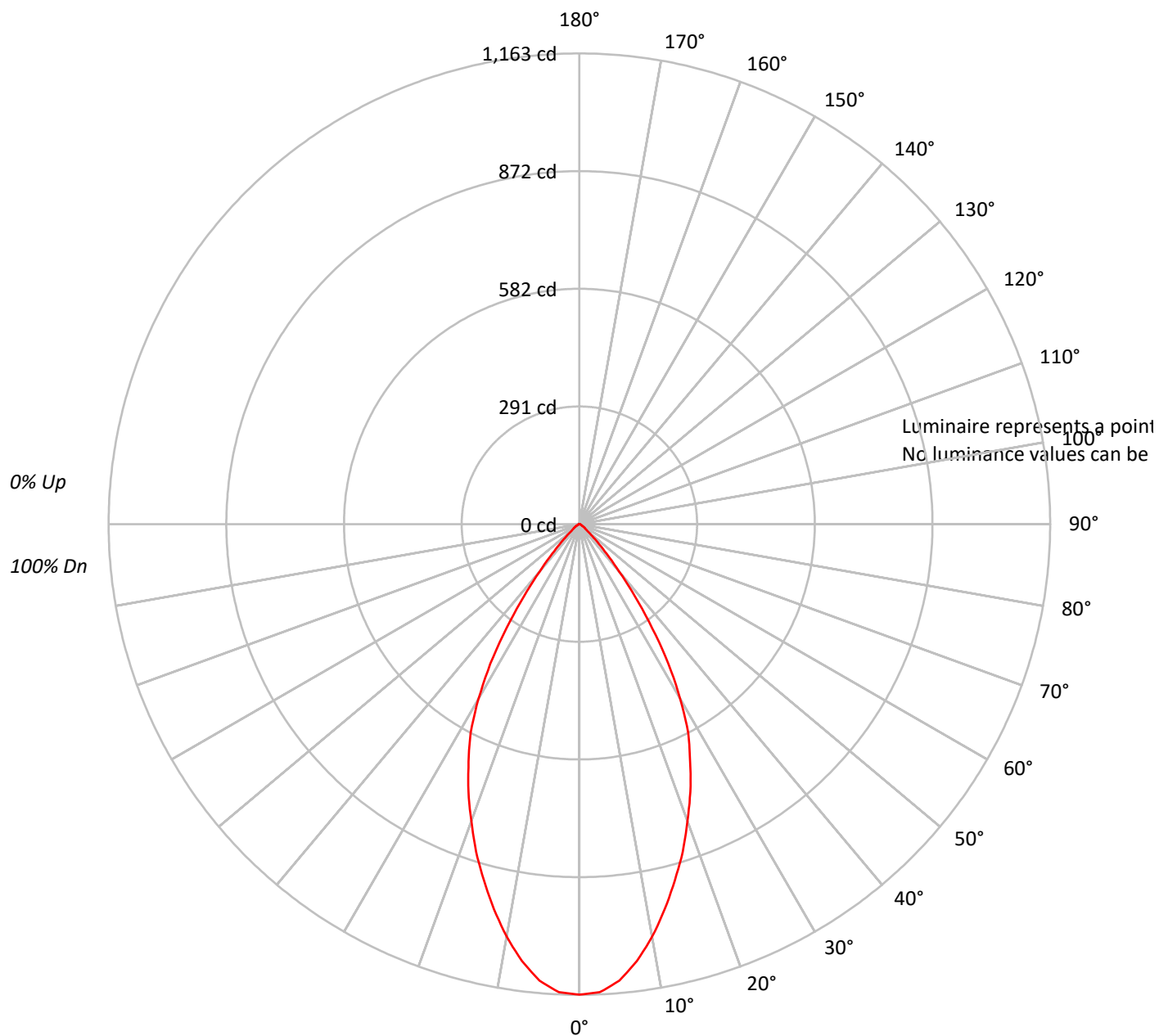
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





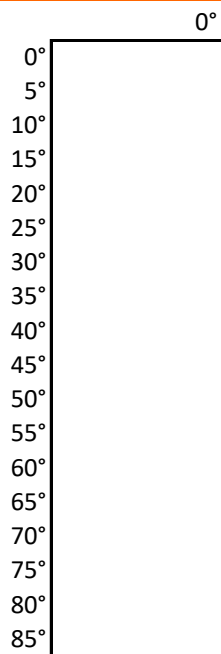
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	74	65	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	56	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	11.3
10°-20°	254.4	27.5
20°-30°	295.4	31.9
30°-40°	195.6	21.1
40°-50°	54.9	5.9
50°-60°	13.8	1.5
60°-70°	5.2	0.6
70°-80°	1.7	0.2
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°	654.7	70.7
0°-40°	850.4	91.8
0°-60°	919.0	99.3
0°-90°	925.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1163	
5°	1132	105
15°	911	254
25°	648	295
35°	314	196
45°	64	55
55°	15	14
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1162.6
2.5°	1157.6
5°	1132.4
7.5°	1088.8
10°	1035.1
12.5°	974.7
15°	910.9
17.5°	848.9
20°	780.1
22.5°	716.3
25°	647.5
27.5°	582.1
30°	498.2
32.5°	409.4
35°	313.7
37.5°	224.8
40°	152.7
42.5°	98.9
45°	63.8
47.5°	38.6
50°	25.2
52.5°	18.4
55°	15.1
57.5°	11.7
60°	8.4
62.5°	6.7
65°	5.0
67.5°	3.4
70°	3.4
72.5°	1.6
75°	1.6
77.5°	1.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)