

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: P211132

Luminaire Tested: **LE_4B15D010 EC4B10209027 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211132
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 EC4B10209027 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: 890.5 lumens
Efficiency: N/A
Efficacy: 62.3 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

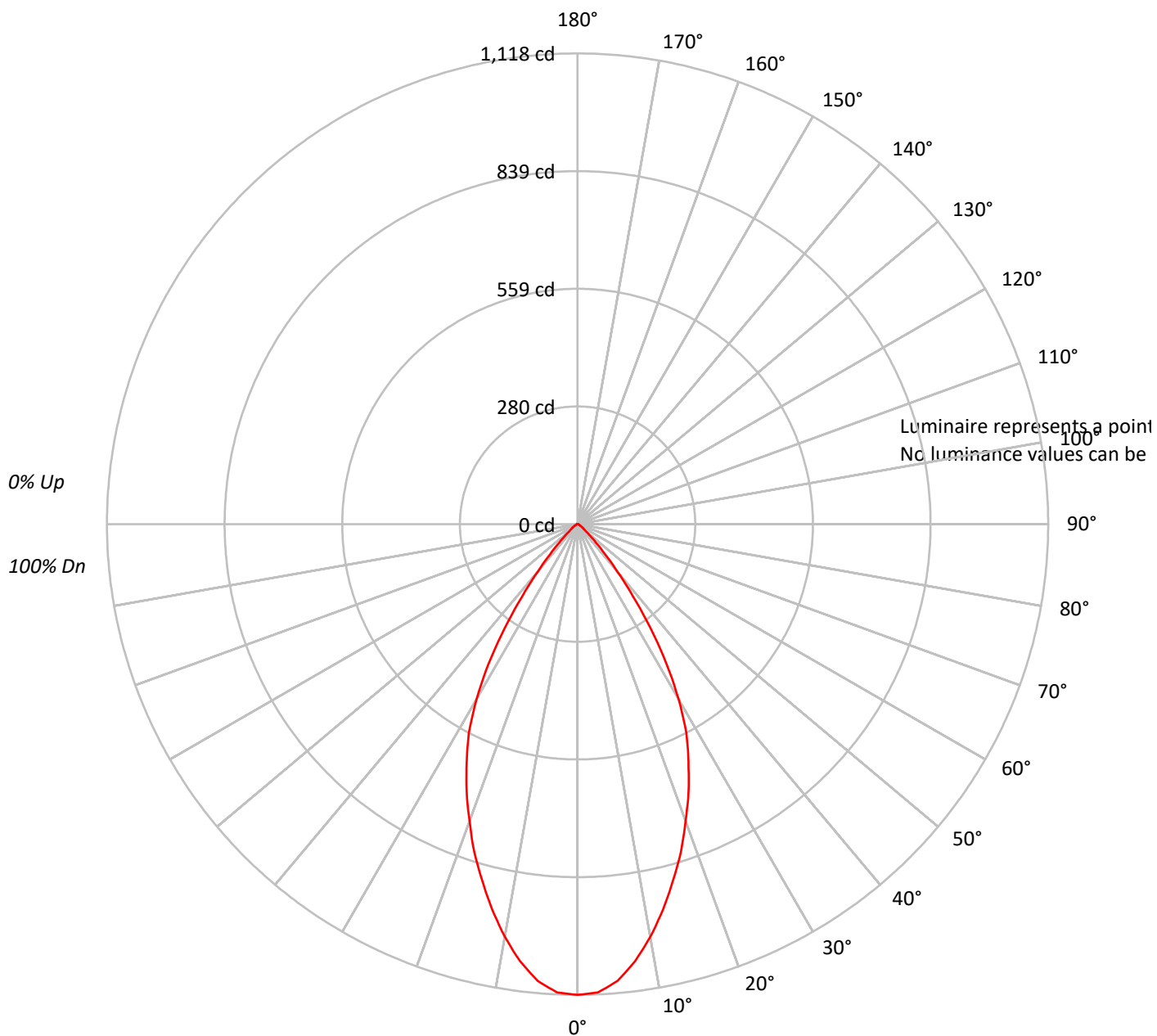
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	113	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74	91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69	86	78	72	68		77	72	68		75	71	67		74	70	67
7	83	74	68	64	82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60	78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56	74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53	71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	11.3
10°-20°	244.7	27.5
20°-30°	284.1	31.9
30°-40°	188.2	21.1
40°-50°	52.8	5.9
50°-60°	13.3	1.5
60°-70°	5.0	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°	629.7	70.7
0°-40°	817.8	91.8
0°-60°	883.9	99.3
0°-90°	890.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1118	
5°	1089	101
15°	876	245
25°	623	284
35°	302	188
45°	61	53
55°	14	13
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1118.0
2.5°	1113.3
5°	1089.0
7.5°	1047.0
10°	995.4
12.5°	937.4
15°	876.0
17.5°	816.4
20°	750.2
22.5°	688.9
25°	622.8
27.5°	559.8
30°	479.2
32.5°	393.7
35°	301.7
37.5°	216.2
40°	146.9
42.5°	95.2
45°	61.4
47.5°	37.1
50°	24.2
52.5°	17.7
55°	14.5
57.5°	11.3
60°	8.1
62.5°	6.5
65°	4.9
67.5°	3.2
70°	3.2
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)