

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: P208171

Luminaire Tested: **LD4B15D010 EU4B10209027 4LBMLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208171
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: LD4B15D010 EU4B10209027 4LBMLI1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH 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: 1152.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

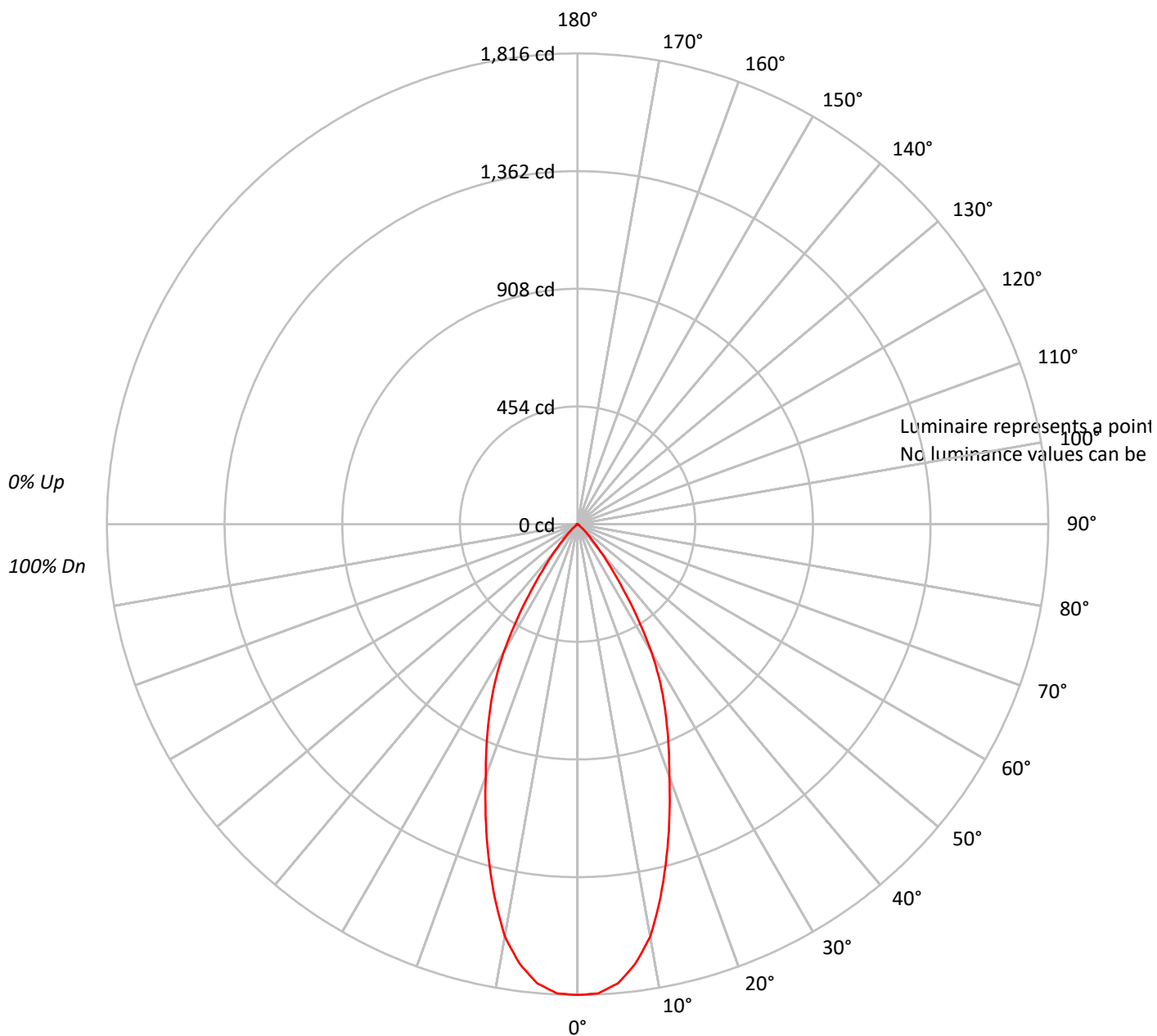
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105		105	103	102		101	100	99		98	97	96
2	109	104	100	97	107	102	99	96		99	96	94		96	94	92		94	92	90
3	104	98	93	89	102	96	92	89		94	90	87		91	88	86		89	87	85
4	99	92	87	83	97	91	86	82		89	85	81		87	83	80		85	82	79
5	94	87	81	77	93	86	81	77		84	79	76		82	78	75		81	77	75
6	90	82	76	72	89	81	76	72		80	75	71		78	74	71		77	73	71
7	86	77	72	68	85	77	71	68		75	71	67		74	70	67		73	69	67
8	82	73	68	64	81	73	67	64		72	67	64		71	66	63		70	66	63
9	79	70	64	60	78	69	64	60		68	63	60		67	63	60		67	63	60
10	75	66	61	57	74	66	61	57		65	60	57		64	60	57		64	60	57

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	14.3
10°-20°	367.7	31.9
20°-30°	365.6	31.7
30°-40°	199.1	17.3
40°-50°	46.0	4.0
50°-60°	6.5	0.6
60°-70°	2.4	0.2
70°-80°	0.5	0.0
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°	897.7	77.9
0°-40°	1096.8	95.2
0°-60°	1149.3	99.7
0°-90°	1152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1816	
5°	1779	164
15°	1327	368
25°	802	366
35°	308	199
45°	53	46
55°	7	6
65°	3	2
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1816.4
2.5°	1812.2
5°	1778.8
7.5°	1710.5
10°	1615.7
12.5°	1476.3
15°	1327.1
17.5°	1179.3
20°	1034.4
22.5°	915.9
25°	801.6
27.5°	692.8
30°	570.2
32.5°	433.5
35°	308.1
37.5°	207.7
40°	135.2
42.5°	85.0
45°	53.0
47.5°	30.7
50°	15.3
52.5°	8.4
55°	7.0
57.5°	4.2
60°	4.2
62.5°	2.8
65°	2.8
67.5°	1.4
70°	1.4
72.5°	1.4
75°	0.0
77.5°	0.0
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)