

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: P205794

Luminaire Tested: **LD4B15D010 EU4B10208027 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205794
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 EU4B10208027 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT 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: 1412.7 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

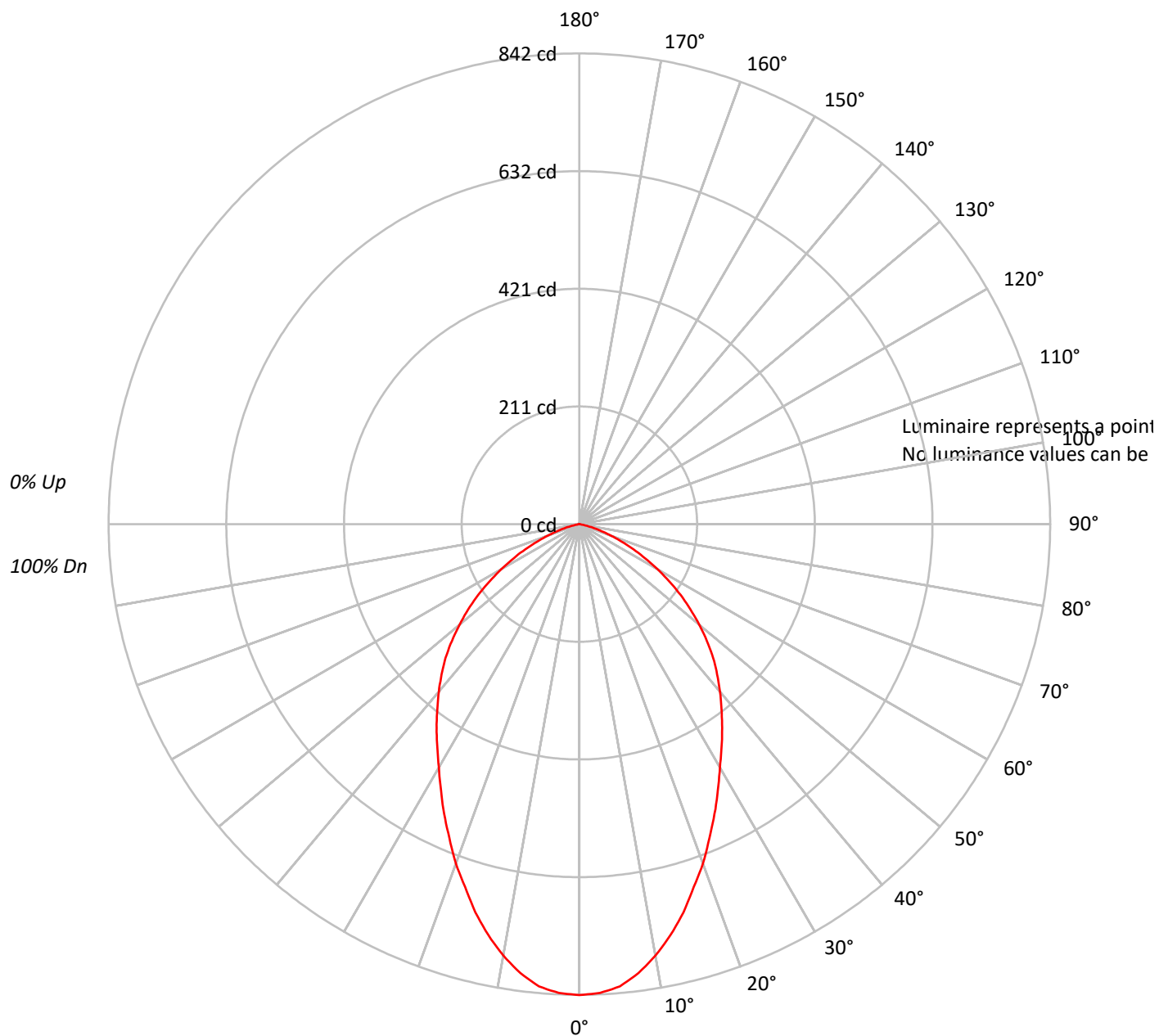
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





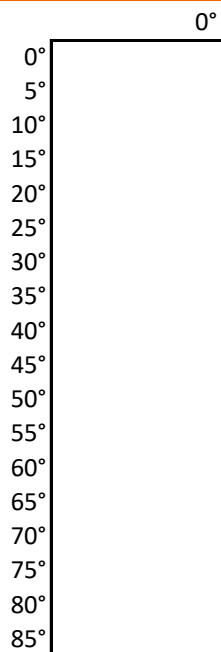
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	73		93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64		86	76	69	63		74	68	63		72	66	62		69	65	61
5	81	70	62	56		79	69	62	56		67	60	55		65	59	55		63	58	54
6	76	64	56	50		74	63	55	50		61	54	49		60	54	49		58	53	49
7	71	58	51	45		69	58	50	45		56	49	45		55	49	44		54	48	44
8	66	54	46	41		65	53	46	41		52	45	40		51	45	40		50	44	40
9	62	50	42	37		61	49	42	37		48	41	37		47	41	37		46	41	37
10	58	46	39	34		57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	5.5
10°-20°	201.1	14.2
20°-30°	263.1	18.6
30°-40°	278.6	19.7
40°-50°	259.8	18.4
50°-60°	196.8	13.9
60°-70°	106.6	7.5
70°-80°	28.6	2.0
80°-90°	0.4	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°	541.9	38.4
0°-40°	820.5	58.1
0°-60°	1277.1	90.4
0°-90°	1412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	842	
5°	830	78
15°	719	201
25°	572	263
35°	445	279
45°	339	260
55°	221	197
65°	107	107
75°	25	29
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	842.5
2.5°	839.5
5°	830.2
7.5°	810.1
10°	783.8
12.5°	752.9
15°	718.9
17.5°	680.2
20°	646.2
22.5°	607.6
25°	572.0
27.5°	536.4
30°	502.4
32.5°	473.1
35°	445.2
37.5°	417.4
40°	391.1
42.5°	364.8
45°	338.6
47.5°	309.2
50°	279.8
52.5°	250.4
55°	221.1
57.5°	190.2
60°	160.8
62.5°	133.0
65°	106.7
67.5°	81.9
70°	60.3
72.5°	41.7
75°	24.7
77.5°	10.8
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)