

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: P208368

Luminaire Tested: **LD4B15D010 EU4B10208027 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208368
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 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 1465.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

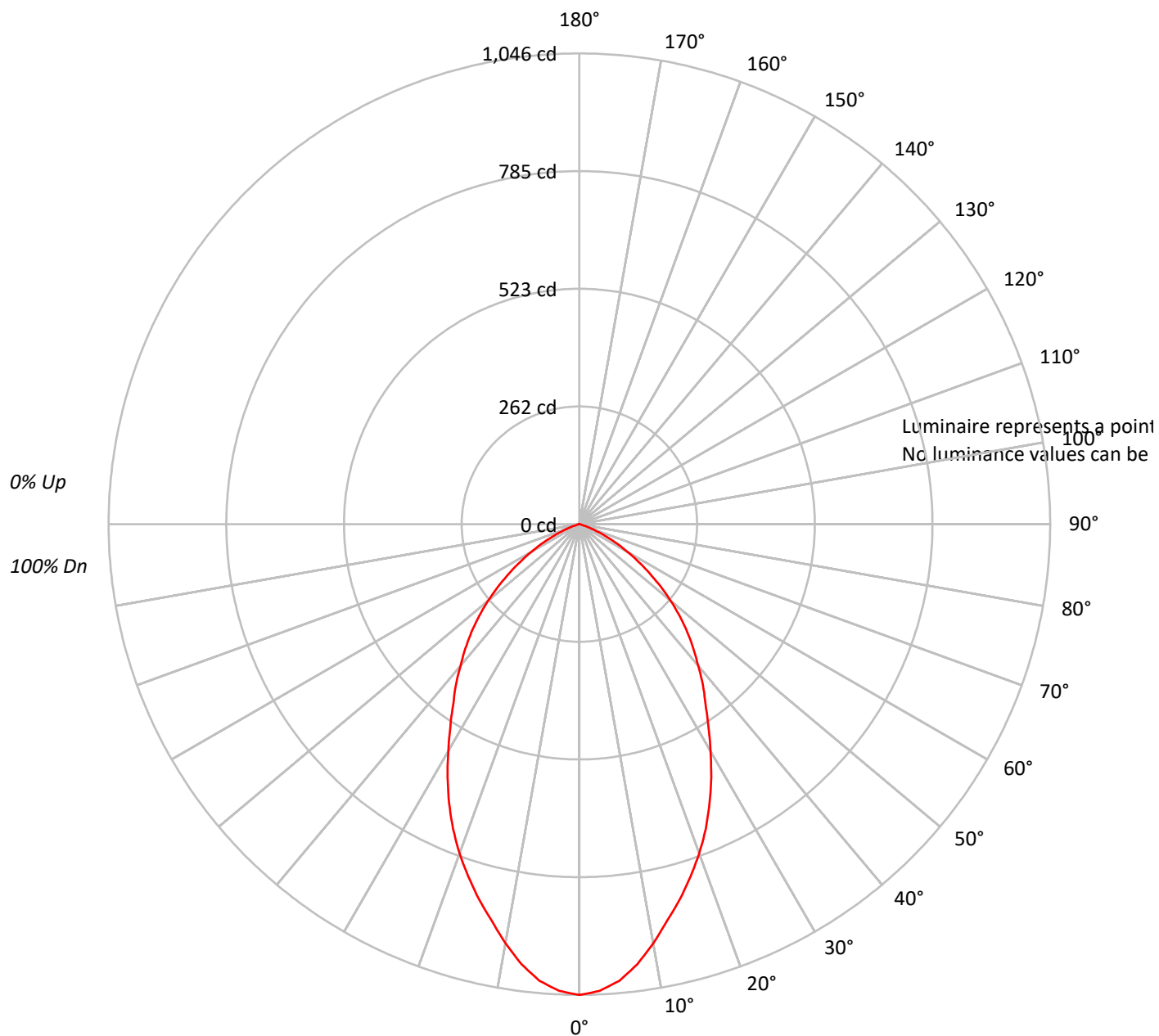
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





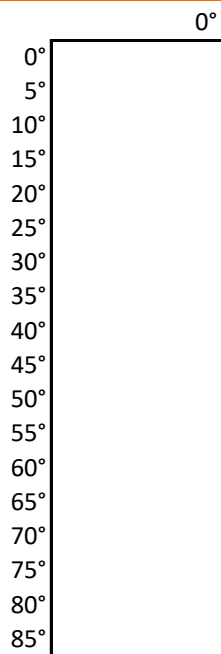
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71	
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	6.5
10°-20°	241.9	16.5
20°-30°	313.5	21.4
30°-40°	307.2	21.0
40°-50°	260.4	17.8
50°-60°	170.7	11.6
60°-70°	68.6	4.7
70°-80°	7.8	0.5
80°-90°	0.2	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°	650.3	44.4
0°-40°	957.5	65.3
0°-60°	1388.6	94.8
0°-90°	1465.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1465.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1046	
5°	1019	95
15°	863	242
25°	684	314
35°	488	307
45°	339	260
55°	190	171
65°	66	69
75°	3	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1046.2
2.5°	1038.1
5°	1018.7
7.5°	986.2
10°	945.7
12.5°	901.9
15°	862.9
17.5°	820.8
20°	778.6
22.5°	733.2
25°	684.5
27.5°	634.2
30°	582.3
32.5°	533.7
35°	488.2
37.5°	450.9
40°	410.4
42.5°	374.7
45°	339.0
47.5°	301.7
50°	264.4
52.5°	227.1
55°	189.8
57.5°	155.7
60°	123.3
62.5°	94.1
65°	66.5
67.5°	43.8
70°	26.0
72.5°	11.4
75°	3.2
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)