

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: P205597

Luminaire Tested: **LD4B15D010 EU4B10209727 4LBSWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205597
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 EU4B10209727 4LBSWMH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WARM HAZE 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: 1063.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

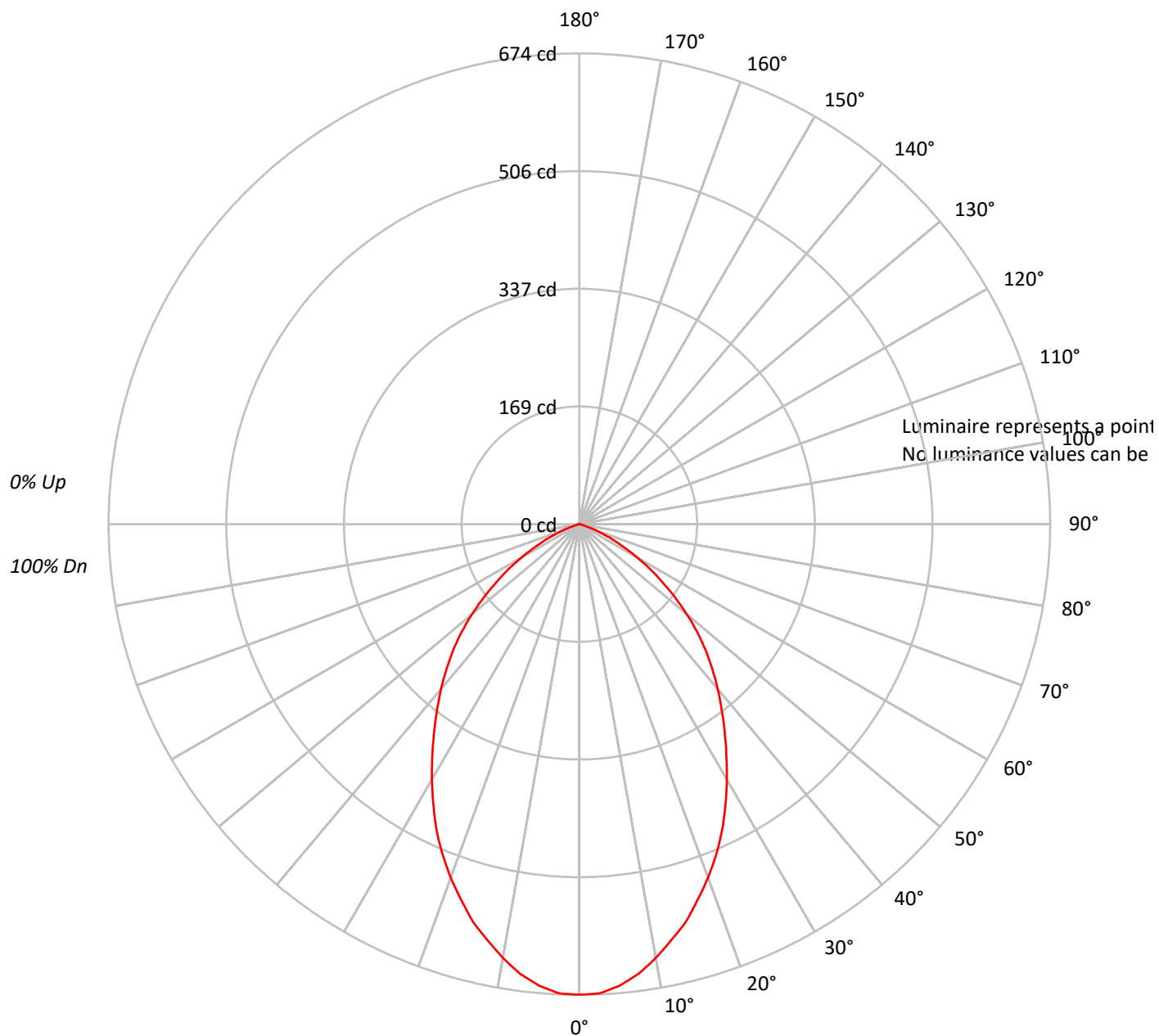
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





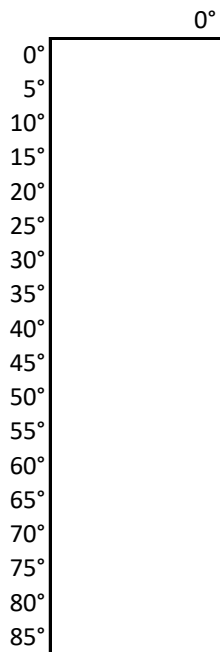
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	108	105	102	109	106	103	101		102	100	97		98	96	94		95	93	92
2	104	98	92	88	102	96	91	87		92	88	85		89	86	83		86	84	81
3	96	88	82	76	94	87	81	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67	88	79	72	67		76	70	66		74	69	65		72	68	64
5	83	73	65	59	82	72	64	59		70	63	59		68	62	58		66	61	57
6	78	66	59	53	76	65	58	53		64	57	53		62	57	52		61	56	52
7	73	61	53	48	71	60	53	48		59	52	48		57	52	47		56	51	47
8	68	56	49	44	67	56	48	43		54	48	43		53	47	43		52	47	43
9	64	52	45	40	63	52	45	40		50	44	40		49	44	39		49	43	39
10	60	48	41	37	59	48	41	37		47	41	36		46	40	36		45	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	5.9
10°-20°	165.0	15.5
20°-30°	221.6	20.8
30°-40°	226.9	21.3
40°-50°	196.4	18.5
50°-60°	130.6	12.3
60°-70°	53.7	5.0
70°-80°	6.4	0.6
80°-90°	0.3	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°	448.9	42.2
0°-40°	675.8	63.6
0°-60°	1002.8	94.3
0°-90°	1063.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	674	
5°	663	62
15°	590	165
25°	484	222
35°	362	227
45°	256	196
55°	145	131
65°	53	54
75°	3	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	673.8
2.5°	672.4
5°	663.3
7.5°	649.4
10°	630.6
12.5°	609.7
15°	589.5
17.5°	563.7
20°	538.6
22.5°	512.1
25°	483.6
27.5°	452.9
30°	422.2
32.5°	391.6
35°	362.3
37.5°	334.5
40°	308.0
42.5°	281.5
45°	255.7
47.5°	228.5
50°	200.7
52.5°	172.8
55°	144.9
57.5°	120.5
60°	95.5
62.5°	72.5
65°	53.0
67.5°	34.8
70°	20.2
72.5°	9.8
75°	2.8
77.5°	1.4
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)