

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: P207355

Luminaire Tested: **LD4B15D010 EU4B10209727 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207355
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 4LBMGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH GRAPHITE 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: 576.4 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

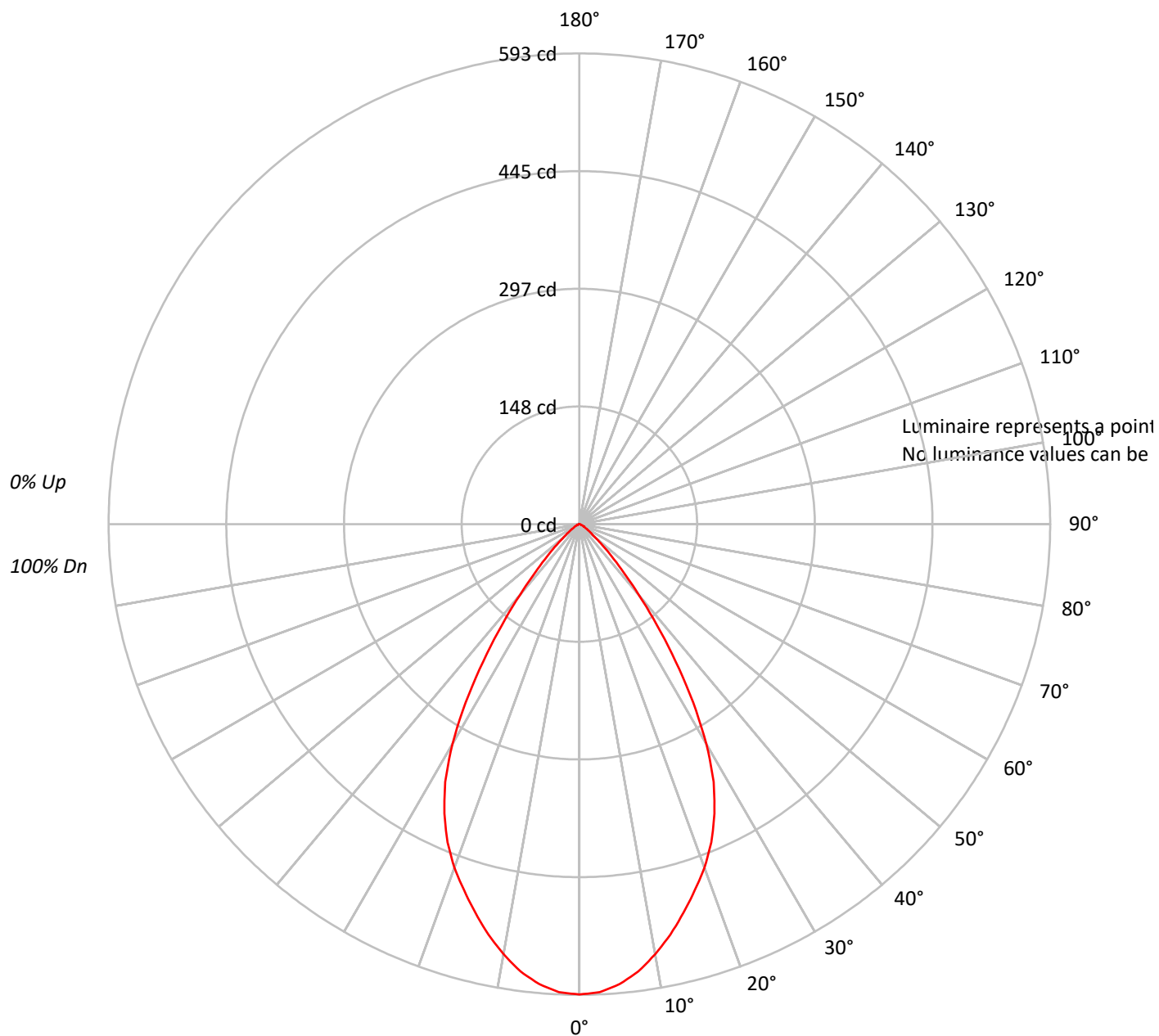
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LD4B15D010 EU4B10209727 4LBMGPH1

Luminous Intensity Polar Plot





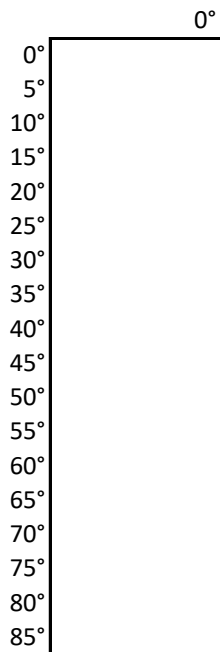
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	113	110	108	105	111	108	106	104		104	102	101		100	99	98		97	96	95
2	107	102	98	94	105	100	97	93		97	94	91		94	92	89		91	89	88
3	102	95	90	85	100	93	89	85		91	87	83		88	85	82		86	83	81
4	96	88	82	78	94	87	82	78		85	80	77		83	79	76		81	78	75
5	91	82	76	72	89	81	76	71		79	74	71		78	73	70		76	72	69
6	86	77	71	66	85	76	70	66		74	69	65		73	68	65		72	68	64
7	82	72	66	61	80	71	65	61		70	65	61		69	64	60		68	63	60
8	77	67	61	57	76	67	61	57		66	60	57		65	60	56		64	59	56
9	73	63	57	53	72	63	57	53		62	57	53		61	56	53		60	56	52
10	70	60	54	50	69	59	54	50		59	53	50		58	53	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	9.5
10°-20°	142.2	24.7
20°-30°	182.4	31.6
30°-40°	131.8	22.9
40°-50°	47.3	8.2
50°-60°	12.8	2.2
60°-70°	4.2	0.7
70°-80°	1.3	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°	379.1	65.8
0°-40°	510.9	88.6
0°-60°	571.0	99.1
0°-90°	576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	593	
5°	582	55
15°	507	142
25°	402	182
35°	211	132
45°	57	47
55°	13	13
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	592.6
2.5°	590.2
5°	581.7
7.5°	568.4
10°	550.2
12.5°	529.6
15°	506.6
17.5°	483.5
20°	460.5
22.5°	433.9
25°	402.3
27.5°	366.0
30°	319.9
32.5°	266.6
35°	210.9
37.5°	160.0
40°	116.3
42.5°	82.4
45°	57.0
47.5°	38.8
50°	25.4
52.5°	18.2
55°	13.3
57.5°	9.7
60°	7.3
62.5°	6.1
65°	3.6
67.5°	2.4
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
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)