

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: P206995

Luminaire Tested: **LD4B50D010TE EU4B30509727 4LBWB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206995
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: LD4B50D010TE EU4B30509727 4LBWB1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH SPECULAR BLACK TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1815.5 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

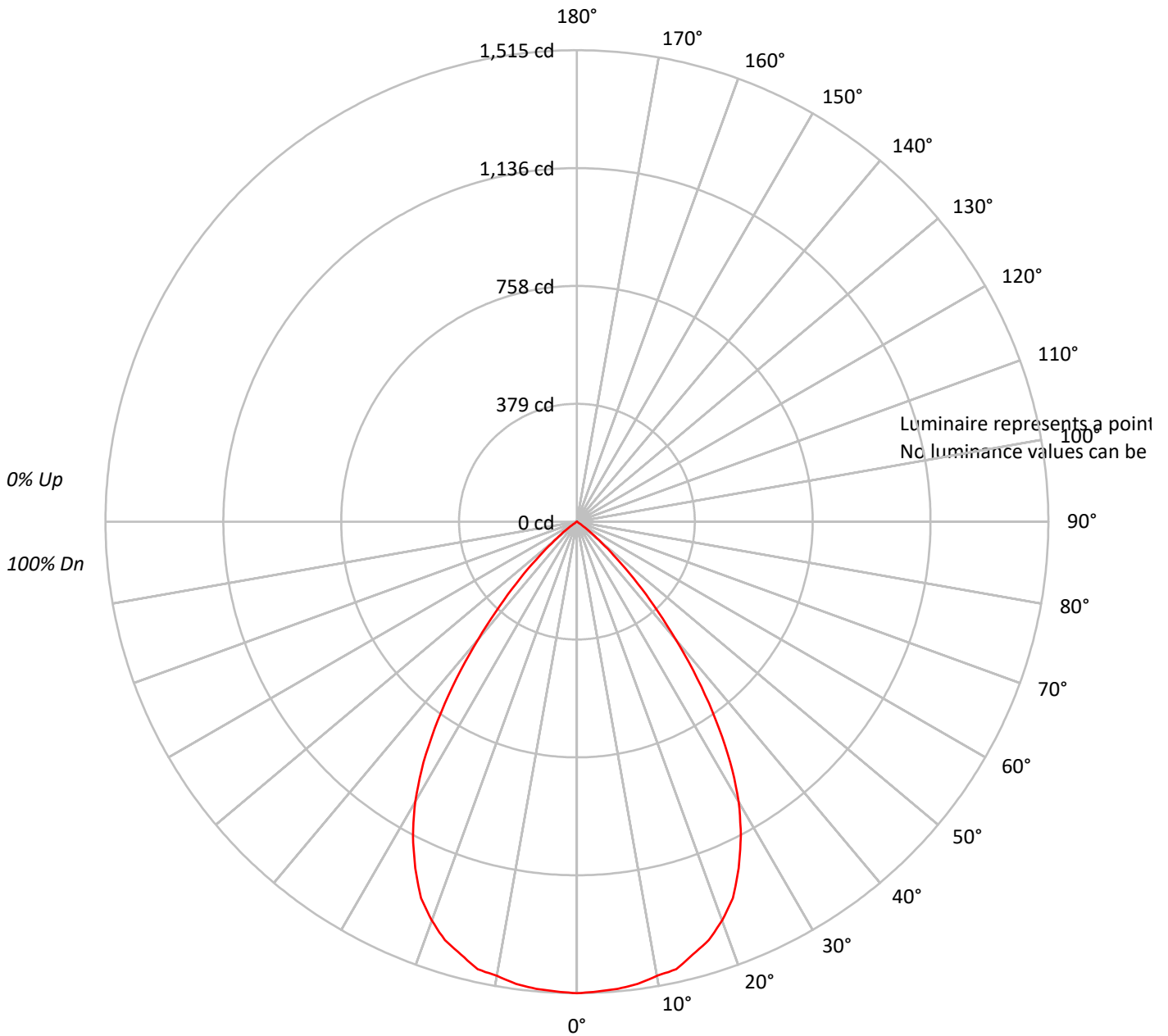
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	70	89	80	74	70	79	73	69	77	72	69	75	71	68	67	67	67	67
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62	62	62	62
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	53	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49	49	49	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	7.9
10°-20°	405.5	22.3
20°-30°	560.4	30.9
30°-40°	479.8	26.4
40°-50°	204.0	11.2
50°-60°	22.8	1.3
60°-70°	0.0	0.0
70°-80°	0.0	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°	1108.9	61.1
0°-40°	1588.7	87.5
0°-60°	1815.5	100.0
0°-90°	1815.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1515	
5°	1507	143
15°	1440	405
25°	1229	560
35°	779	480
45°	257	204
55°	13	23
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1515.4
2.5°	1511.2
5°	1507.0
7.5°	1498.6
10°	1481.8
12.5°	1473.3
15°	1439.7
17.5°	1410.2
20°	1363.9
22.5°	1309.2
25°	1229.2
27.5°	1140.8
30°	1039.8
32.5°	917.7
35°	778.8
37.5°	635.6
40°	492.5
42.5°	366.2
45°	256.8
47.5°	160.0
50°	92.6
52.5°	46.3
55°	12.6
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
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)