

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: P205849

Luminaire Tested: **LD4B50D010TE EU4B30508040 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205849
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 EU4B30508040 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318.2 lumens
Efficiency: N/A
Efficacy: 90.5 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

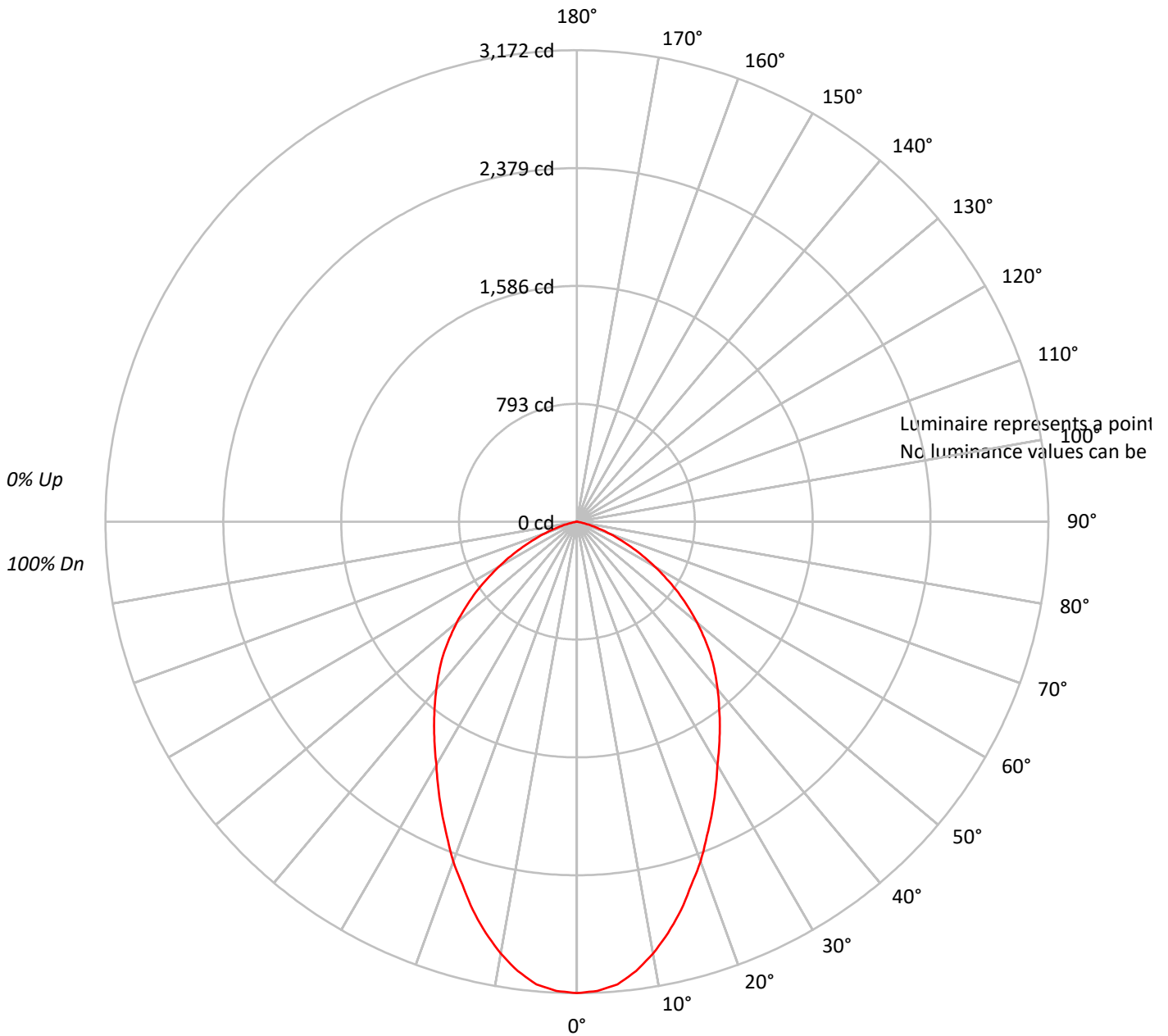
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89				89
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67				67
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61	59				59
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	5.5
10°-20°	757.2	14.2
20°-30°	990.4	18.6
30°-40°	1048.7	19.7
40°-50°	978.1	18.4
50°-60°	740.8	13.9
60°-70°	401.3	7.5
70°-80°	107.6	2.0
80°-90°	1.6	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°	2040.1	38.4
0°-40°	3088.8	58.1
0°-60°	4807.8	90.4
0°-90°	5318.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3172	
5°	3125	293
15°	2706	757
25°	2153	990
35°	1676	1049
45°	1274	978
55°	832	741
65°	402	401
75°	93	108
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3171.8
2.5°	3160.1
5°	3125.2
7.5°	3049.6
10°	2950.6
12.5°	2834.2
15°	2706.2
17.5°	2560.7
20°	2432.7
22.5°	2287.2
25°	2153.3
27.5°	2019.5
30°	1891.4
32.5°	1780.8
35°	1676.1
37.5°	1571.3
40°	1472.4
42.5°	1373.5
45°	1274.5
47.5°	1164.0
50°	1053.4
52.5°	942.8
55°	832.2
57.5°	715.8
60°	605.3
62.5°	500.5
65°	401.6
67.5°	308.4
70°	227.0
72.5°	157.1
75°	93.1
77.5°	40.7
80°	11.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)