

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: P205648

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBSWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205648
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 EU4B30509050 4LBSWMH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.8 lumens
Efficiency: N/A
Efficacy: 76.8 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

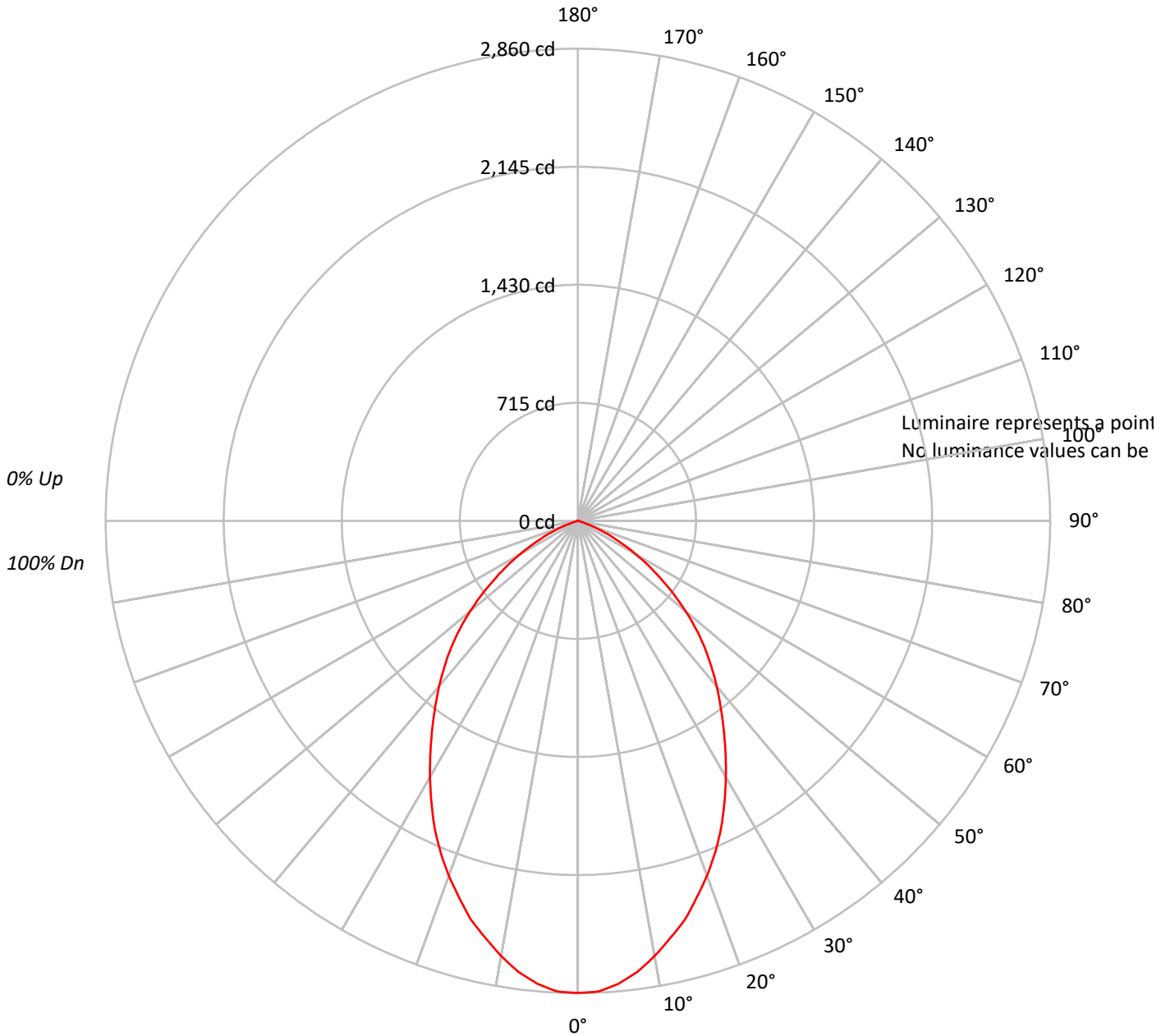
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	5.9
10°-20°	700.4	15.5
20°-30°	940.6	20.8
30°-40°	962.8	21.3
40°-50°	833.4	18.5
50°-60°	554.3	12.3
60°-70°	227.7	5.0
70°-80°	27.1	0.6
80°-90°	1.2	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°	1905.3	42.2
0°-40°	2868.1	63.6
0°-60°	4255.8	94.3
0°-90°	4511.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4511.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2860	
5°	2815	264
15°	2502	700
25°	2052	941
35°	1538	963
45°	1085	833
55°	615	554
65°	225	228
75°	12	27
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2859.5
2.5°	2853.6
5°	2815.1
7.5°	2756.0
10°	2676.2
12.5°	2587.5
15°	2501.7
17.5°	2392.3
20°	2285.8
22.5°	2173.5
25°	2052.2
27.5°	1922.1
30°	1792.0
32.5°	1661.9
35°	1537.7
37.5°	1419.4
40°	1307.0
42.5°	1194.7
45°	1085.3
47.5°	969.9
50°	851.6
52.5°	733.4
55°	615.1
57.5°	511.6
60°	405.1
62.5°	307.5
65°	224.7
67.5°	147.9
70°	85.8
72.5°	41.4
75°	11.8
77.5°	5.9
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)