

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: P206778

Luminaire Tested: **LD4B50D010TE EU4B30508027 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206778
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 EU4B30508027 4LBWWH1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH WHEAT TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.4 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

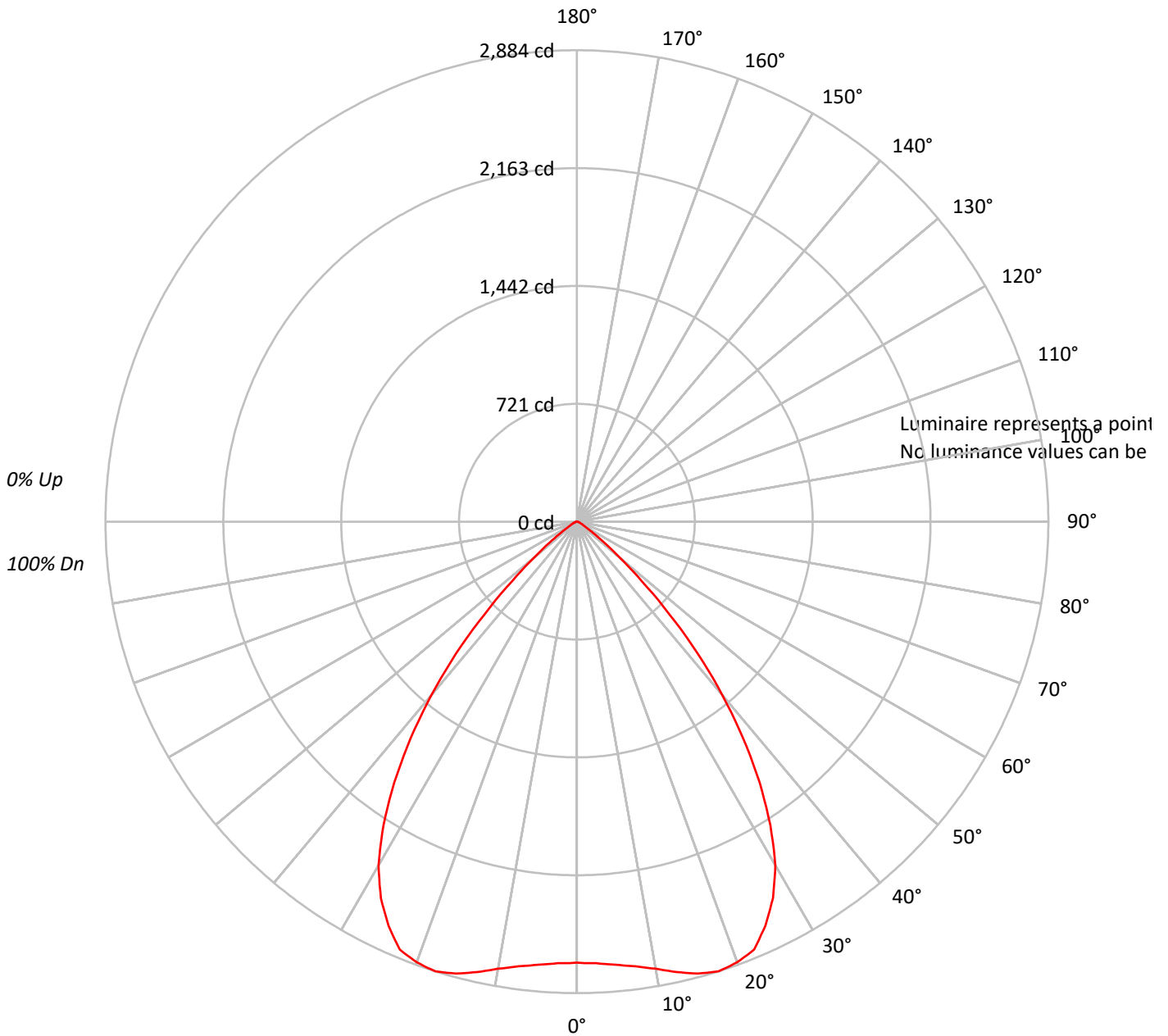
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53			53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49			49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41			41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	6.1
10°-20°	808.8	18.7
20°-30°	1244.1	28.8
30°-40°	1200.4	27.8
40°-50°	625.8	14.5
50°-60°	131.7	3.1
60°-70°	30.6	0.7
70°-80°	11.9	0.3
80°-90°	0.8	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°	2314.3	53.6
0°-40°	3514.6	81.4
0°-60°	4272.2	99.0
0°-90°	4315.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2698	
5°	2721	261
15°	2862	809
25°	2726	1244
35°	1948	1200
45°	796	626
55°	118	132
65°	28	31
75°	11	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2698.2
2.5°	2703.9
5°	2720.8
7.5°	2743.4
10°	2777.3
12.5°	2822.4
15°	2861.9
17.5°	2884.5
20°	2867.6
22.5°	2833.7
25°	2726.5
27.5°	2596.6
30°	2427.3
32.5°	2201.5
35°	1947.5
37.5°	1670.9
40°	1383.0
42.5°	1095.1
45°	795.9
47.5°	536.3
50°	344.3
52.5°	208.9
55°	118.5
57.5°	73.4
60°	50.8
62.5°	39.5
65°	28.2
67.5°	22.6
70°	16.9
72.5°	16.9
75°	11.3
77.5°	5.6
80°	5.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)