

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: P#

Luminaire Tested: **LD2B05D010 EU2B05WFL559027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559027 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

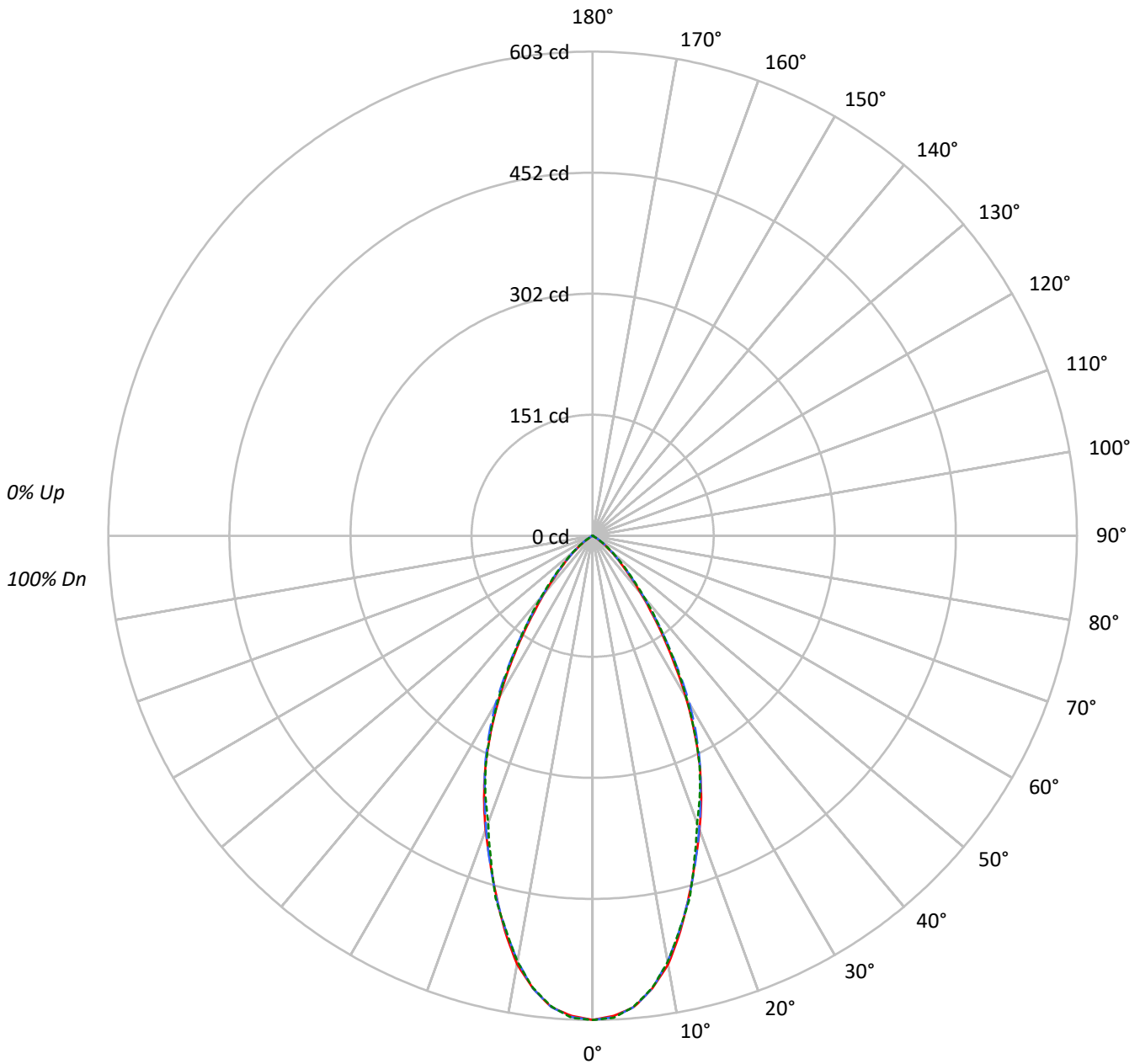
Lumens per Lamp: N/A
Luminaire Lumens: 485.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.3
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74				74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69				69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64				64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56				56
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53				53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50				50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	233570	233570	233570
5°	229096	229096	228785
10°	213102	211568	211882
15°	185948	186269	187192
20°	160554	159936	156762
25°	134756	135397	134414
30°	103722	107792	104750
35°	72348	75280	74523
40°	47227	49149	50666
45°	28923	30621	31881
50°	17054	18440	19344
55°	7226	9319	8779
60°	1162	2402	1782
65°	733	733	733
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	11.3
10°-20°	129.2	26.6
20°-30°	143.2	29.5
30°-40°	99.6	20.5
40°-50°	44.9	9.2
50°-60°	12.7	2.6
60°-70°	0.9	0.2
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°	327.0	67.4
0°-40°	426.6	88.0
0°-60°	484.1	99.8
0°-90°	485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	589	592	589	587	588	55
15°	464	466	464	464	467	129
25°	315	318	317	313	314	143
35°	153	158	159	159	158	97
45°	53	54	56	57	58	43
55°	11	12	14	14	13	11
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	598.4	601.4	599.9	599.9	600.7
5°	589.2	591.5	589.2	586.9	588.4
7.5°	568.5	570.8	568.5	567.0	567.8
10°	541.8	540.2	537.9	536.4	538.7
12.5°	504.3	503.5	502.0	501.2	501.2
15°	463.7	466.0	464.5	463.7	466.8
17.5°	424.7	427.0	425.5	423.2	421.6
20°	389.5	390.3	388.0	384.1	380.3
22.5°	353.5	354.3	350.5	348.9	348.9
25°	315.3	317.6	316.8	313.0	314.5
27.5°	273.9	277.8	279.3	274.7	274.7
30°	231.9	234.9	241.0	234.9	234.2
32.5°	190.5	195.1	198.2	197.4	195.1
35°	153.0	157.6	159.2	159.2	157.6
37.5°	119.4	124.0	125.5	127.0	127.0
40°	93.4	95.6	97.2	99.5	100.2
42.5°	70.4	72.7	75.0	76.5	75.8
45°	52.8	54.3	55.9	57.4	58.2
47.5°	39.8	39.8	41.3	42.9	42.9
50°	28.3	29.8	30.6	31.4	32.1
52.5°	19.1	19.9	21.4	22.2	21.4
55°	10.7	12.2	13.8	13.8	13.0
57.5°	4.6	6.9	7.7	7.7	6.1
60°	1.5	3.1	3.1	3.8	2.3
62.5°	0.8	1.5	1.5	1.5	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)