

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: P225168

Luminaire Tested: **LD2B05D010 EU2B05FL409027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409027 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

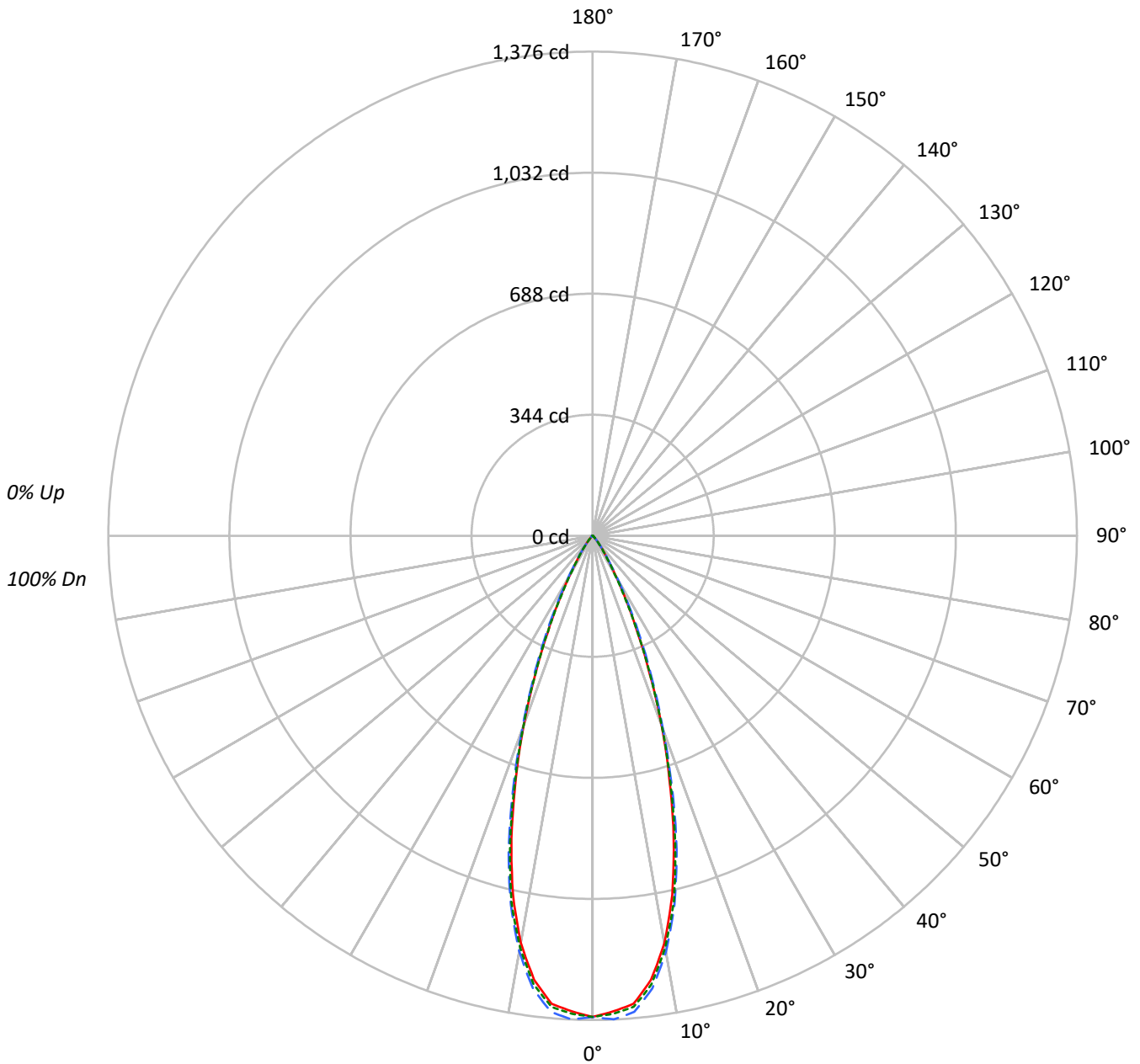
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	529618	529618	529618
5°	519160	528064	522426
10°	461995	471907	467109
15°	356939	369811	363395
20°	235451	240522	236729
25°	128430	137277	129114
30°	57787	63959	55417
35°	24967	25676	22792
40°	10416	10821	9658
45°	4163	4601	4601
50°	1868	2290	2290
55°	1013	1013	1553
60°	620	620	620
65°	0	0	0
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°	123.6	22.0
10°-20°	246.0	43.8
20°-30°	145.3	25.9
30°-40°	37.8	6.7
40°-50°	7.5	1.3
50°-60°	1.6	0.3
60°-70°	0.1	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°	514.9	91.6
0°-40°	552.7	98.4
0°-60°	561.9	100.0
0°-90°	562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1335	1346	1358	1349	1344	122
15°	890	910	922	908	906	242
25°	300	310	321	309	302	142
35°	53	55	54	54	48	37
45°	8	9	8	8	8	7
55°	2	2	2	2	2	2
65°	0	0	0	0	0	0
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°	1367.3	1367.3	1367.3	1367.3	1367.3
2.5°	1352.8	1366.5	1375.7	1368.1	1359.6
5°	1335.2	1345.9	1358.1	1348.9	1343.6
7.5°	1272.5	1288.5	1297.7	1293.1	1284.7
10°	1174.6	1186.8	1199.8	1195.2	1187.6
12.5°	1045.3	1062.2	1074.4	1063.7	1065.2
15°	890.1	910.0	922.2	908.5	906.2
17.5°	725.7	741.0	749.4	741.0	734.9
20°	571.2	580.4	583.5	579.6	574.3
22.5°	422.1	432.1	441.2	432.1	425.2
25°	300.5	310.5	321.2	308.9	302.1
27.5°	202.6	208.8	217.9	206.5	196.5
30°	129.2	136.1	143.0	134.6	123.9
32.5°	81.8	86.4	87.2	85.6	76.5
35°	52.8	55.1	54.3	53.5	48.2
37.5°	33.6	33.6	34.4	33.6	30.6
40°	20.6	22.2	21.4	20.6	19.1
42.5°	12.2	13.8	13.0	13.0	12.2
45°	7.6	9.2	8.4	8.4	8.4
47.5°	5.4	6.1	5.4	5.4	6.1
50°	3.1	3.8	3.8	3.8	3.8
52.5°	2.3	2.3	2.3	2.3	3.1
55°	1.5	1.5	1.5	1.5	2.3
57.5°	1.5	1.5	0.8	0.8	1.5
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
65°	0.0	0.0	0.0	0.0	0.0
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)