

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: P225241

Luminaire Tested: **LD2B05D010 EU2B05FL408030 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225241
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 EU2B05FL408030 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

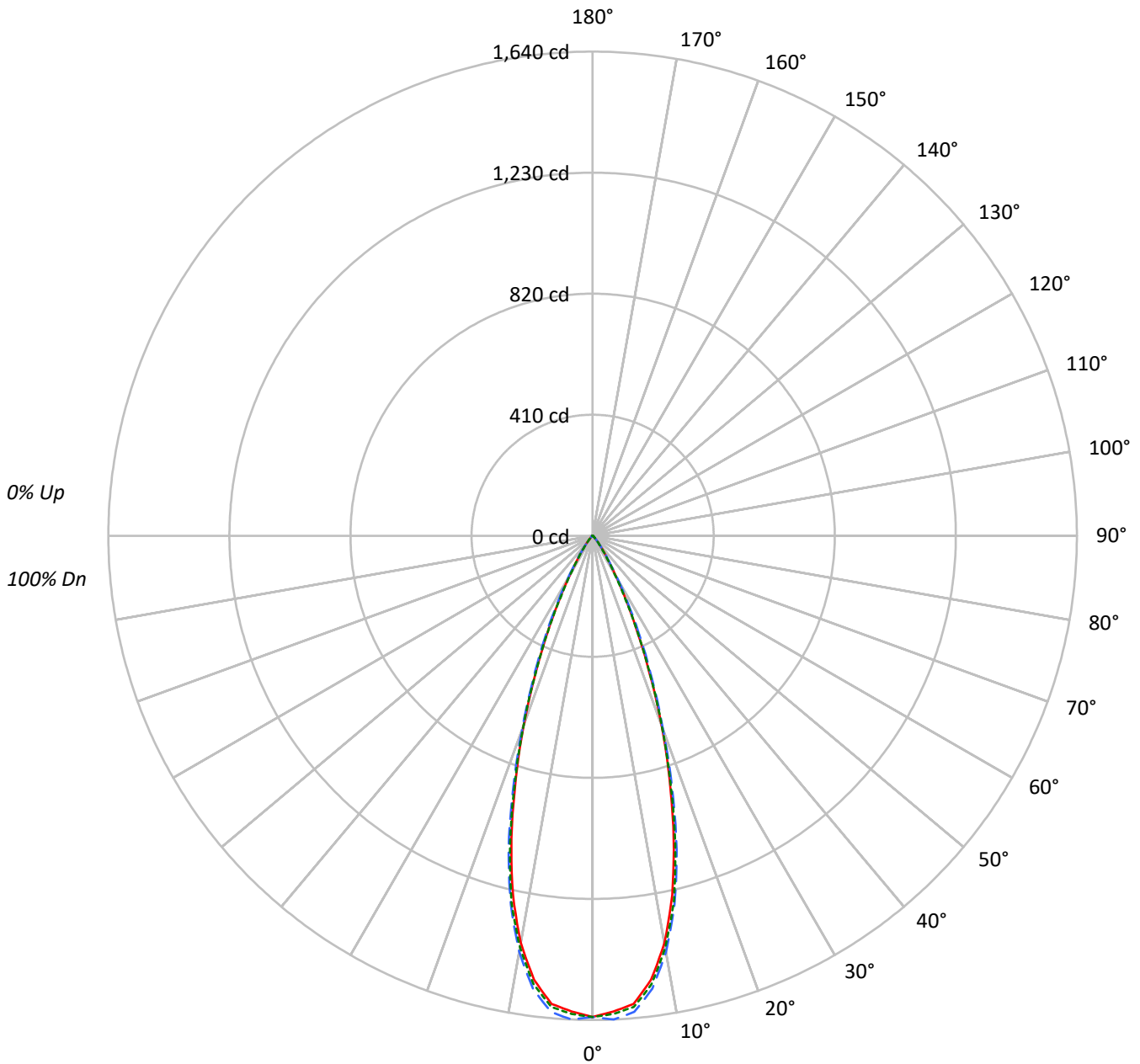
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	631374	631374	631374
5°	618933	629548	622821
10°	550768	562607	556864
15°	425552	440911	433211
20°	280712	286730	282237
25°	153133	163647	153903
30°	68924	76259	66062
35°	29743	30594	27142
40°	12439	12894	11529
45°	4985	5478	5478
50°	2169	2772	2772
55°	1216	1216	1823
60°	697	697	697
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°	147.3	22.0
10°-20°	293.3	43.8
20°-30°	173.2	25.9
30°-40°	45.1	6.7
40°-50°	8.9	1.3
50°-60°	1.9	0.3
60°-70°	0.2	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°	613.9	91.6
0°-40°	659.0	98.4
0°-60°	669.8	100.0
0°-90°	670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1592	1604	1619	1608	1602	146
15°	1061	1085	1100	1083	1080	288
25°	358	370	383	368	360	169
35°	63	66	65	64	57	44
45°	9	11	10	10	10	8
55°	2	2	2	2	3	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°	1630.0	1630.0	1630.0	1630.0	1630.0
2.5°	1612.7	1629.1	1640.1	1631.0	1620.9
5°	1591.8	1604.5	1619.1	1608.2	1601.8
7.5°	1517.0	1536.1	1547.1	1541.6	1531.6
10°	1400.3	1414.9	1430.4	1424.9	1415.8
12.5°	1246.2	1266.3	1280.9	1268.1	1269.9
15°	1061.2	1084.9	1099.5	1083.0	1080.3
17.5°	865.2	883.4	893.4	883.4	876.1
20°	681.0	691.9	695.6	691.0	684.7
22.5°	503.2	515.1	526.0	515.1	506.9
25°	358.3	370.1	382.9	368.3	360.1
27.5°	241.6	248.9	259.8	246.1	234.3
30°	154.1	162.3	170.5	160.5	147.7
32.5°	97.5	103.0	103.9	102.1	91.2
35°	62.9	65.6	64.7	63.8	57.4
37.5°	40.1	40.1	41.0	40.1	36.5
40°	24.6	26.4	25.5	24.6	22.8
42.5°	14.6	16.4	15.5	15.5	14.6
45°	9.1	10.9	10.0	10.0	10.0
47.5°	6.4	7.3	6.4	6.4	7.3
50°	3.6	4.6	4.6	4.6	4.6
52.5°	2.7	2.7	2.7	2.7	3.6
55°	1.8	1.8	1.8	1.8	2.7
57.5°	1.8	1.8	0.9	0.9	1.8
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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)