

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: P225171

Luminaire Tested: **LD2B05D010 EU2B05FL409040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225171
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 EU2B05FL409040 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: 622.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

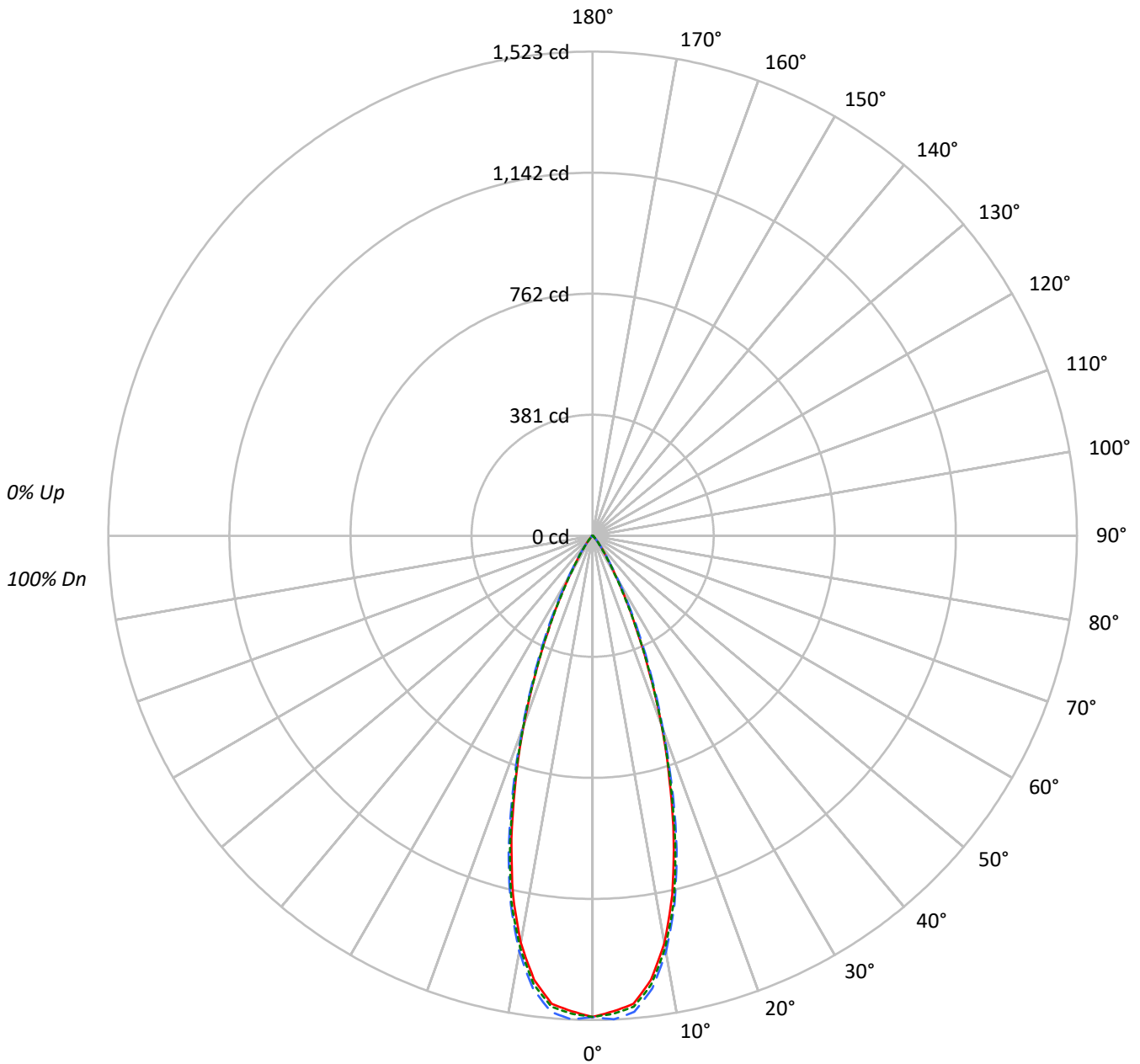
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	586171	586171	586171
5°	574568	584444	578184
10°	511318	522292	516982
15°	395035	409311	402173
20°	260596	266202	261997
25°	142150	151937	142876
30°	63959	70803	61321
35°	27615	28419	25204
40°	11579	11984	10720
45°	4656	5094	5094
50°	2049	2531	2531
55°	1148	1148	1688
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°	136.8	22.0
10°-20°	272.3	43.8
20°-30°	160.8	25.9
30°-40°	41.9	6.7
40°-50°	8.3	1.3
50°-60°	1.8	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°	569.9	91.6
0°-40°	611.8	98.4
0°-60°	621.8	100.0
0°-90°	622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1478	1490	1503	1493	1487	135
15°	985	1007	1021	1006	1003	267
25°	333	344	356	342	334	157
35°	58	61	60	59	53	41
45°	8	10	9	9	9	8
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°	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1497.2	1512.4	1522.6	1514.1	1504.8
5°	1477.7	1489.6	1503.1	1493.0	1487.0
7.5°	1408.3	1426.1	1436.2	1431.2	1421.9
10°	1300.0	1313.5	1327.9	1322.8	1314.4
12.5°	1157.0	1175.6	1189.1	1177.3	1179.0
15°	985.1	1007.1	1020.7	1005.5	1002.9
17.5°	803.2	820.1	829.4	820.1	813.3
20°	632.2	642.4	645.8	641.5	635.6
22.5°	467.2	478.2	488.3	478.2	470.6
25°	332.6	343.6	355.5	341.9	334.3
27.5°	224.3	231.1	241.2	228.5	217.5
30°	143.0	150.6	158.3	149.0	137.1
32.5°	90.6	95.6	96.5	94.8	84.6
35°	58.4	60.9	60.1	59.2	53.3
37.5°	37.2	37.2	38.1	37.2	33.9
40°	22.9	24.5	23.7	22.9	21.2
42.5°	13.5	15.2	14.4	14.4	13.5
45°	8.5	10.2	9.3	9.3	9.3
47.5°	5.9	6.8	5.9	5.9	6.8
50°	3.4	4.2	4.2	4.2	4.2
52.5°	2.5	2.5	2.5	2.5	3.4
55°	1.7	1.7	1.7	1.7	2.5
57.5°	1.7	1.7	0.8	0.8	1.7
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)