

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: P225225

Luminaire Tested: **LD2B10D010 EU2B10FL409050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225225
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: LD2B10D010 EU2B10FL409050 2LBDSQLC*MB
Description: 1000 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: 784.5 lumens
Efficiency: N/A
Efficacy: 76.2 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

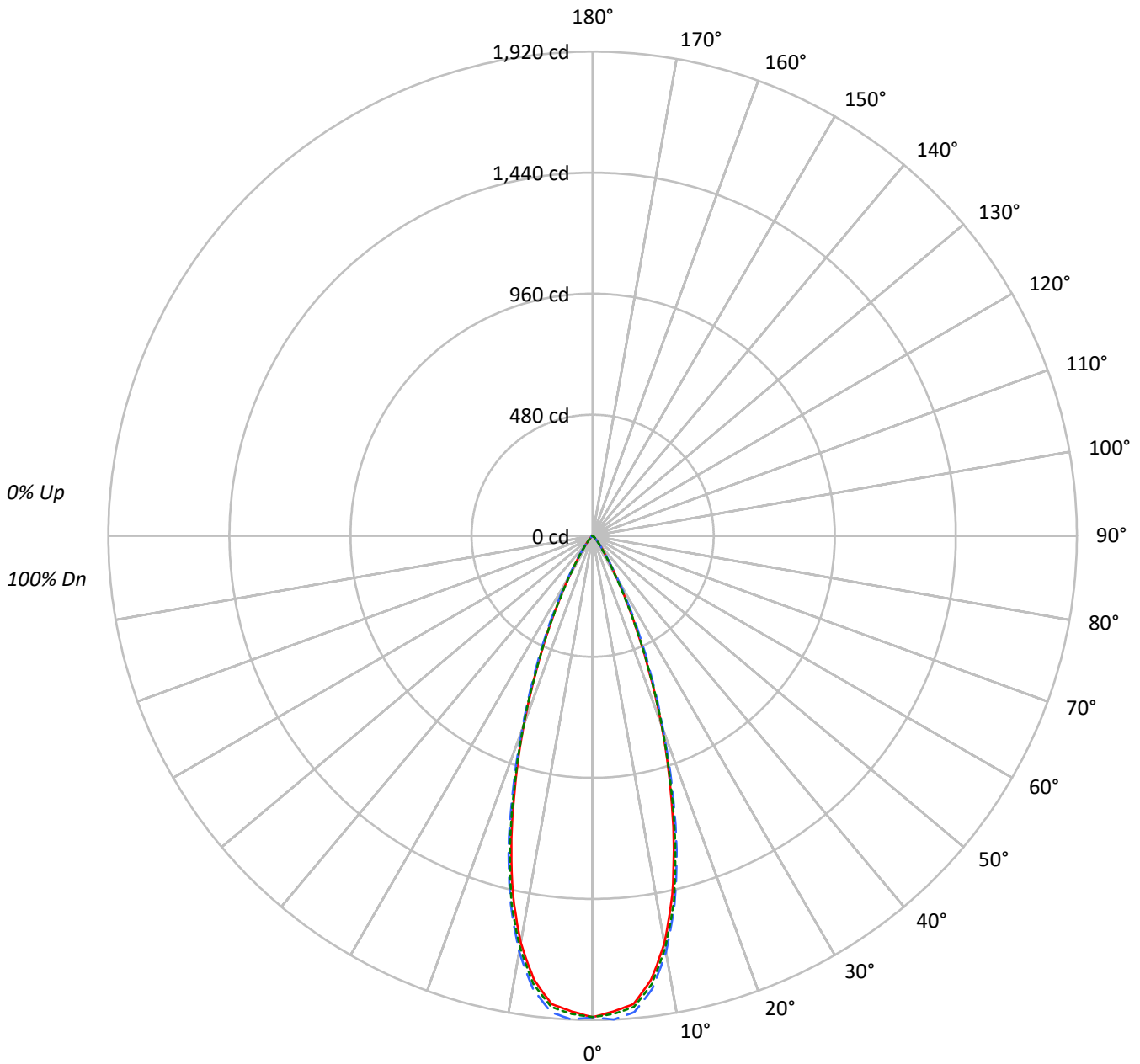
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	739289	739289	739289
5°	724693	737136	729242
10°	644890	658735	652048
15°	498255	516220	507238
20°	328692	335741	330465
25°	179290	191598	180187
30°	80687	89275	77333
35°	34850	35843	31776
40°	14563	15119	13501
45°	5861	6409	6409
50°	2591	3194	3194
55°	1418	1418	2161
60°	852	852	852
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°	172.5	22.0
10°-20°	343.4	43.8
20°-30°	202.8	25.9
30°-40°	52.8	6.7
40°-50°	10.4	1.3
50°-60°	2.3	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°	718.8	91.6
0°-40°	771.6	98.4
0°-60°	784.3	100.0
0°-90°	784.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1864	1879	1896	1883	1876	171
15°	1242	1270	1287	1268	1265	337
25°	420	433	448	431	422	198
35°	74	77	76	75	67	52
45°	11	13	12	12	12	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.6	1908.6	1908.6	1908.6	1908.6
2.5°	1888.3	1907.5	1920.4	1909.7	1897.9
5°	1863.8	1878.7	1895.8	1883.0	1875.5
7.5°	1776.2	1798.7	1811.5	1805.1	1793.3
10°	1639.6	1656.7	1674.8	1668.4	1657.8
12.5°	1459.2	1482.7	1499.8	1484.8	1487.0
15°	1242.5	1270.3	1287.3	1268.1	1264.9
17.5°	1013.0	1034.4	1046.1	1034.4	1025.8
20°	797.4	810.2	814.5	809.1	801.7
22.5°	589.2	603.1	615.9	603.1	593.5
25°	419.5	433.4	448.3	431.3	421.6
27.5°	282.9	291.4	304.2	288.2	274.3
30°	180.4	190.0	199.6	187.9	172.9
32.5°	114.2	120.6	121.7	119.6	106.7
35°	73.7	76.9	75.8	74.7	67.2
37.5°	47.0	47.0	48.0	47.0	42.7
40°	28.8	31.0	29.9	28.8	26.7
42.5°	17.1	19.2	18.1	18.1	17.1
45°	10.7	12.8	11.7	11.7	11.7
47.5°	7.5	8.5	7.5	7.5	8.5
50°	4.3	5.3	5.3	5.3	5.3
52.5°	3.2	3.2	3.2	3.2	4.3
55°	2.1	2.1	2.1	2.1	3.2
57.5°	2.1	2.1	1.1	1.1	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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)