

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: P225177

Luminaire Tested: **LD2B10D010 EU2B10FL409024 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225177
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 EU2B10FL409024 2LBDSQC*MB
Description: 1000 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: 696.5 lumens
Efficiency: N/A
Efficacy: 67.6 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

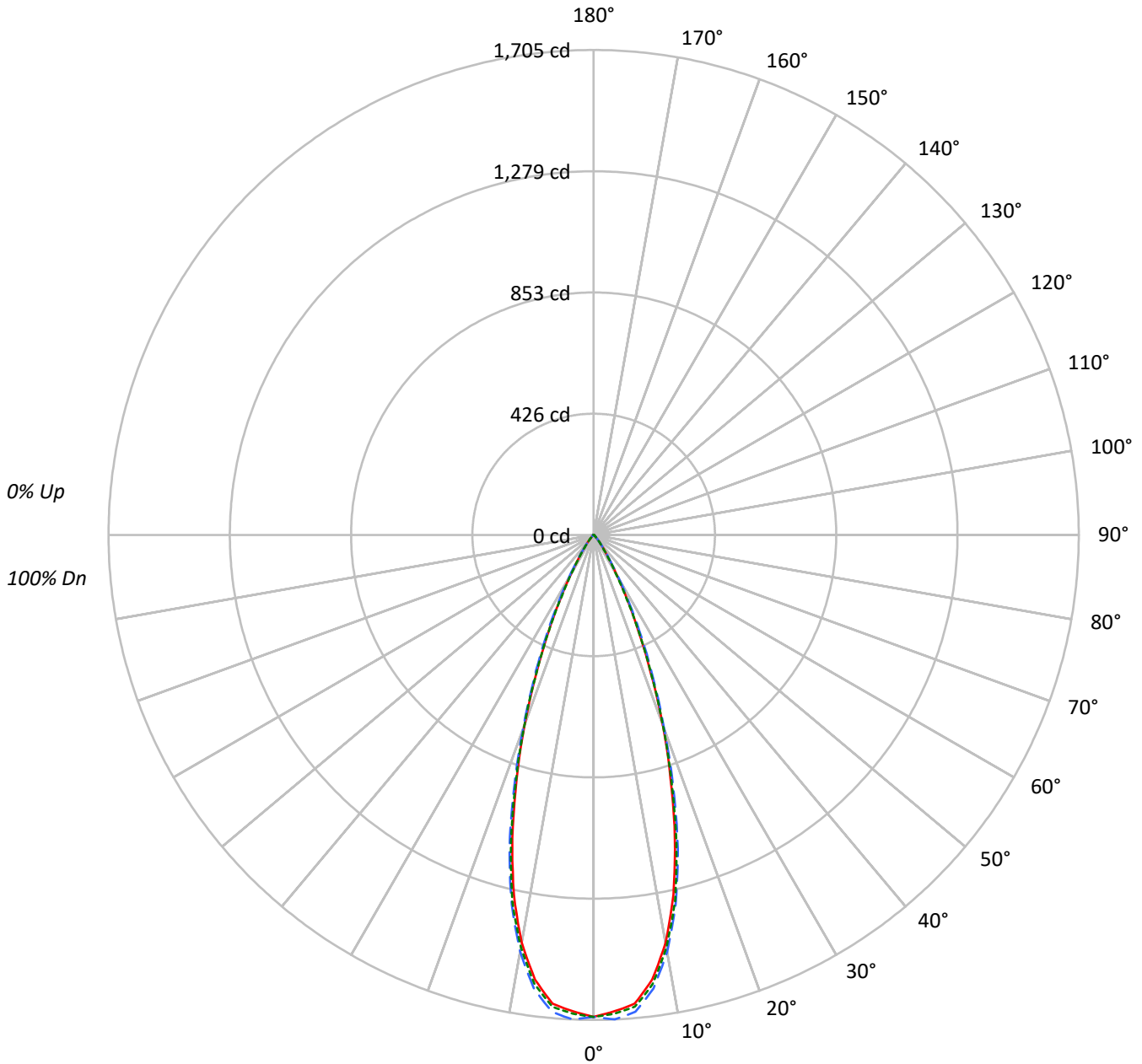
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	656358	656358	656358
5°	643390	654432	647433
10°	572558	584869	578890
15°	442354	458314	450334
20°	291800	298065	293366
25°	159202	170101	159972
30°	71652	79256	68656
35°	30925	31824	28230
40°	12944	13400	11984
45°	5204	5697	5697
50°	2290	2832	2832
55°	1283	1283	1891
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°	153.2	22.0
10°-20°	304.9	43.8
20°-30°	180.1	25.9
30°-40°	46.9	6.7
40°-50°	9.3	1.3
50°-60°	2.0	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°	638.1	91.6
0°-40°	685.0	98.4
0°-60°	696.3	100.0
0°-90°	696.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1655	1668	1683	1672	1665	151
15°	1103	1128	1143	1126	1123	299
25°	372	385	398	383	374	176
35°	65	68	67	66	60	46
45°	10	11	10	10	10	9
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°	1694.5	1694.5	1694.5	1694.5	1694.5
2.5°	1676.5	1693.6	1704.9	1695.5	1685.0
5°	1654.7	1668.0	1683.1	1671.8	1665.1
7.5°	1577.0	1596.9	1608.3	1602.6	1592.2
10°	1455.7	1470.9	1487.0	1481.3	1471.8
12.5°	1295.5	1316.4	1331.5	1318.3	1320.2
15°	1103.1	1127.8	1142.9	1125.9	1123.0
17.5°	899.4	918.3	928.8	918.3	910.8
20°	707.9	719.3	723.1	718.4	711.7
22.5°	523.1	535.5	546.8	535.5	526.9
25°	372.5	384.8	398.0	382.9	374.3
27.5°	251.1	258.7	270.1	255.9	243.6
30°	160.2	168.7	177.2	166.8	153.5
32.5°	101.4	107.1	108.0	106.1	94.8
35°	65.4	68.2	67.3	66.3	59.7
37.5°	41.7	41.7	42.6	41.7	37.9
40°	25.6	27.5	26.5	25.6	23.7
42.5°	15.2	17.1	16.1	16.1	15.2
45°	9.5	11.4	10.4	10.4	10.4
47.5°	6.6	7.6	6.6	6.6	7.6
50°	3.8	4.7	4.7	4.7	4.7
52.5°	2.8	2.8	2.8	2.8	3.8
55°	1.9	1.9	1.9	1.9	2.8
57.5°	1.9	1.9	0.9	0.9	1.9
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)