

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: P225252

Luminaire Tested: **LD2B10D010 EU2B10FL408050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225252
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 EU2B10FL408050 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: 933.9 lumens
Efficiency: N/A
Efficacy: 90.7 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

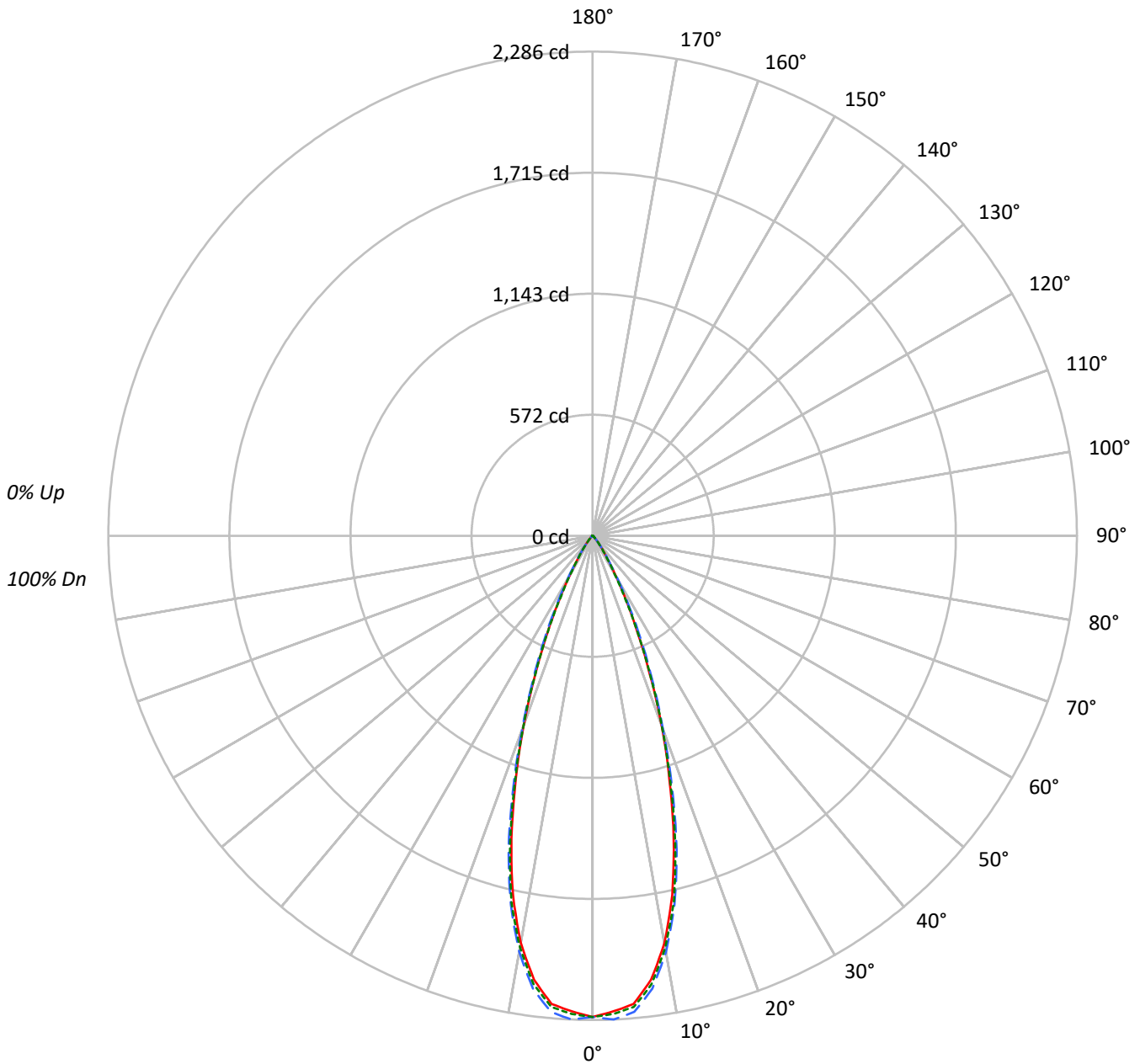
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	880089	880089	880089
5°	862687	877502	868131
10°	767724	784204	776220
15°	593134	614548	603841
20°	391265	399674	393367
25°	213438	228098	214507
30°	96073	106271	92093
35°	41470	42652	37876
40°	17344	18001	16079
45°	6957	7669	7669
50°	3073	3857	3857
55°	1688	1688	2566
60°	1007	1007	1007
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°	205.4	22.0
10°-20°	408.8	43.8
20°-30°	241.5	25.9
30°-40°	62.9	6.7
40°-50°	12.4	1.3
50°-60°	2.7	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°	855.6	91.6
0°-40°	918.5	98.4
0°-60°	933.7	100.0
0°-90°	933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2219	2236	2257	2242	2233	203
15°	1479	1512	1532	1510	1506	401
25°	499	516	534	513	502	235
35°	88	92	90	89	80	61
45°	13	15	14	14	14	12
55°	2	2	2	2	4	3
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°	2272.1	2272.1	2272.1	2272.1	2272.1
2.5°	2247.9	2270.8	2286.1	2273.4	2259.4
5°	2218.7	2236.5	2256.8	2241.6	2232.7
7.5°	2114.5	2141.2	2156.4	2148.8	2134.8
10°	1951.9	1972.2	1993.8	1986.2	1973.5
12.5°	1737.1	1765.1	1785.4	1767.6	1770.1
15°	1479.1	1512.2	1532.5	1509.6	1505.8
17.5°	1205.9	1231.3	1245.3	1231.3	1221.2
20°	949.2	964.5	969.6	963.2	954.3
22.5°	701.4	718.0	733.2	718.0	706.5
25°	499.4	515.9	533.7	513.4	501.9
27.5°	336.7	346.9	362.2	343.1	326.6
30°	214.8	226.2	237.6	223.7	205.9
32.5°	136.0	143.6	144.9	142.3	127.1
35°	87.7	91.5	90.2	89.0	80.1
37.5°	55.9	55.9	57.2	55.9	50.8
40°	34.3	36.9	35.6	34.3	31.8
42.5°	20.3	22.9	21.6	21.6	20.3
45°	12.7	15.2	14.0	14.0	14.0
47.5°	8.9	10.2	8.9	8.9	10.2
50°	5.1	6.4	6.4	6.4	6.4
52.5°	3.8	3.8	3.8	3.8	5.1
55°	2.5	2.5	2.5	2.5	3.8
57.5°	2.5	2.5	1.3	1.3	2.5
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)