

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: P225251

Luminaire Tested: **LD2B10D010 EU2B10FL408040 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225251
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 EU2B10FL408040 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: 940.6 lumens
Efficiency: N/A
Efficacy: 91.3 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

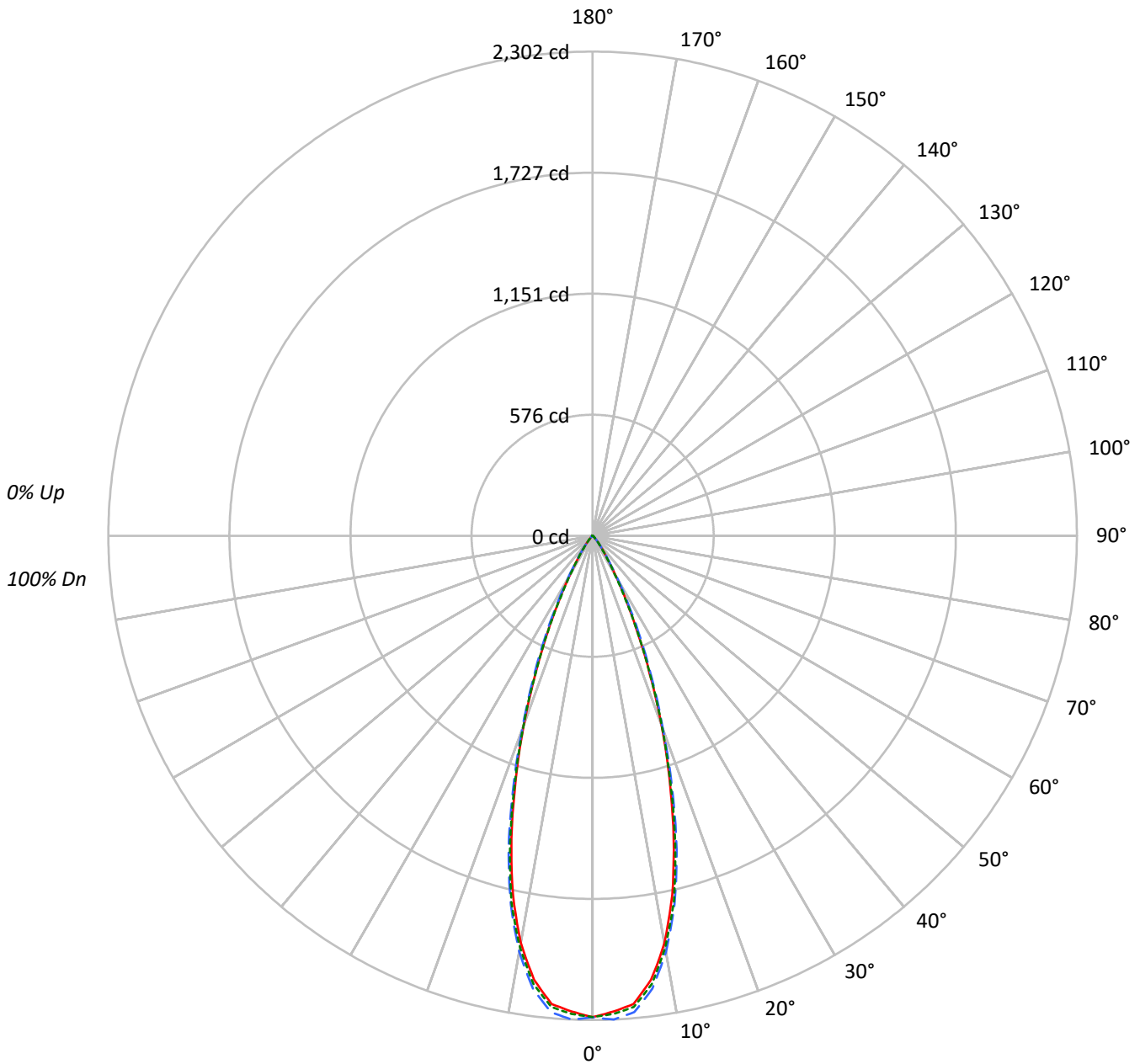
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	886403	886403	886403
5°	868870	883801	874352
10°	773231	789829	781766
15°	597425	618959	608172
20°	394109	402518	396211
25°	214977	229722	216045
30°	96744	107031	92719
35°	41754	42983	38113
40°	17495	18102	16181
45°	7012	7724	7724
50°	3073	3857	3857
55°	1756	1756	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°	206.8	22.0
10°-20°	411.7	43.8
20°-30°	243.2	25.9
30°-40°	63.3	6.7
40°-50°	12.5	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°	861.8	91.6
0°-40°	925.1	98.4
0°-60°	940.4	100.0
0°-90°	940.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2235	2252	2273	2258	2249	204
15°	1490	1523	1544	1520	1517	404
25°	503	520	538	517	506	237
35°	88	92	91	90	81	62
45°	13	15	14	14	14	12
55°	3	3	3	3	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°	2288.4	2288.4	2288.4	2288.4	2288.4
2.5°	2264.1	2287.1	2302.5	2289.7	2275.6
5°	2234.6	2252.5	2273.0	2257.7	2248.7
7.5°	2129.7	2156.6	2171.9	2164.2	2150.2
10°	1965.9	1986.3	2008.1	2000.4	1987.6
12.5°	1749.6	1777.7	1798.2	1780.3	1782.8
15°	1489.8	1523.0	1543.5	1520.5	1516.6
17.5°	1214.6	1240.2	1254.3	1240.2	1229.9
20°	956.1	971.4	976.5	970.1	961.2
22.5°	706.5	723.1	738.5	723.1	711.6
25°	503.0	519.6	537.5	517.1	505.5
27.5°	339.2	349.4	364.8	345.6	328.9
30°	216.3	227.8	239.3	225.3	207.3
32.5°	136.9	144.6	145.9	143.3	128.0
35°	88.3	92.1	90.9	89.6	80.6
37.5°	56.3	56.3	57.6	56.3	51.2
40°	34.6	37.1	35.8	34.6	32.0
42.5°	20.5	23.0	21.8	21.8	20.5
45°	12.8	15.4	14.1	14.1	14.1
47.5°	9.0	10.2	9.0	9.0	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°	2.6	2.6	2.6	2.6	3.8
57.5°	2.6	2.6	1.3	1.3	2.6
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)