

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: P#

Luminaire Tested: **LD2B20D010 EU2B20WFL559035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WFL559035 2LBDSQLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

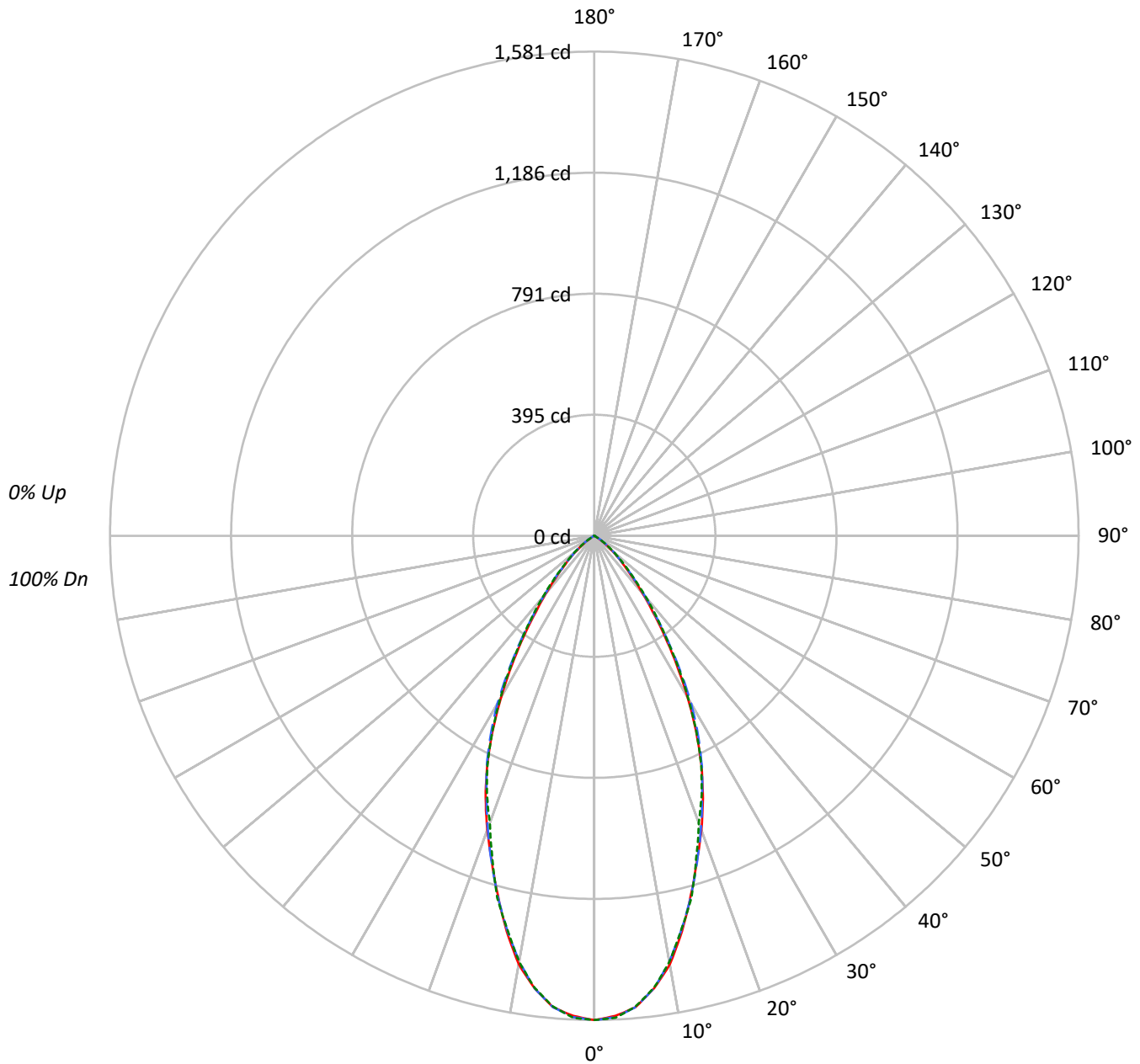
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	95	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	83	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	77	73	90	82	77	72	80	75	72		79	74	71		77
6	87	78	72	67	85	77	71	67	76	70	67		74	70	66		73
7	83	73	67	63	81	72	67	62	71	66	62		70	65	62		69
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65
9	75	65	59	55	74	64	59	55	63	58	54		62	58	54		62
10	71	61	55	51	70	61	55	51	60	55	51		59	54	51		58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	612510	612510	612510
5°	600813	600813	600036
10°	558831	554859	555645
15°	487668	488470	490876
20°	421026	419377	411092
25°	353365	355075	352510
30°	271939	282718	274668
35°	189760	197373	195481
40°	123782	128889	132934
45°	75869	80251	83538
50°	44713	48389	50799
55°	18976	24379	23028
60°	3099	6198	4648
65°	1833	1833	1833
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°	143.3	11.3
10°-20°	338.9	26.6
20°-30°	375.4	29.5
30°-40°	261.3	20.5
40°-50°	117.6	9.2
50°-60°	33.2	2.6
60°-70°	2.3	0.2
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°	857.5	67.4
0°-40°	1118.8	88.0
0°-60°	1269.6	99.8
0°-90°	1271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1545	1551	1545	1539	1543	143
15°	1216	1222	1218	1216	1224	339
25°	827	833	831	821	825	375
35°	401	413	417	417	413	253
45°	138	142	146	150	152	112
55°	28	32	36	36	34	28
65°	2	2	2	2	2	1
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°	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1569.3	1577.3	1573.3	1573.3	1575.3
5°	1545.2	1551.2	1545.2	1539.1	1543.2
7.5°	1491.0	1497.0	1491.0	1487.0	1489.0
10°	1420.8	1416.7	1410.7	1406.7	1412.7
12.5°	1322.4	1320.4	1316.4	1314.4	1314.4
15°	1216.1	1222.1	1218.1	1216.1	1224.1
17.5°	1113.7	1119.7	1115.7	1109.7	1105.7
20°	1021.4	1023.4	1017.4	1007.4	997.3
22.5°	927.1	929.1	919.1	915.1	915.1
25°	826.8	832.8	830.8	820.7	824.8
27.5°	718.4	728.4	732.5	720.4	720.4
30°	608.0	616.1	632.1	616.1	614.1
32.5°	499.7	511.7	519.7	517.7	511.7
35°	401.3	413.4	417.4	417.4	413.4
37.5°	313.0	325.1	329.1	333.1	333.1
40°	244.8	250.8	254.9	260.9	262.9
42.5°	184.6	190.6	196.7	200.7	198.7
45°	138.5	142.5	146.5	150.5	152.5
47.5°	104.3	104.3	108.4	112.4	112.4
50°	74.2	78.3	80.3	82.3	84.3
52.5°	50.2	52.2	56.2	58.2	56.2
55°	28.1	32.1	36.1	36.1	34.1
57.5°	12.0	18.1	20.1	20.1	16.1
60°	4.0	8.0	8.0	10.0	6.0
62.5°	2.0	4.0	4.0	4.0	2.0
65°	2.0	2.0	2.0	2.0	2.0
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)