

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 EU2B20WFL558050 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 EU2B20WFL558050 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: 1589.2 lumens
Efficiency: N/A
Efficacy: 76.0 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

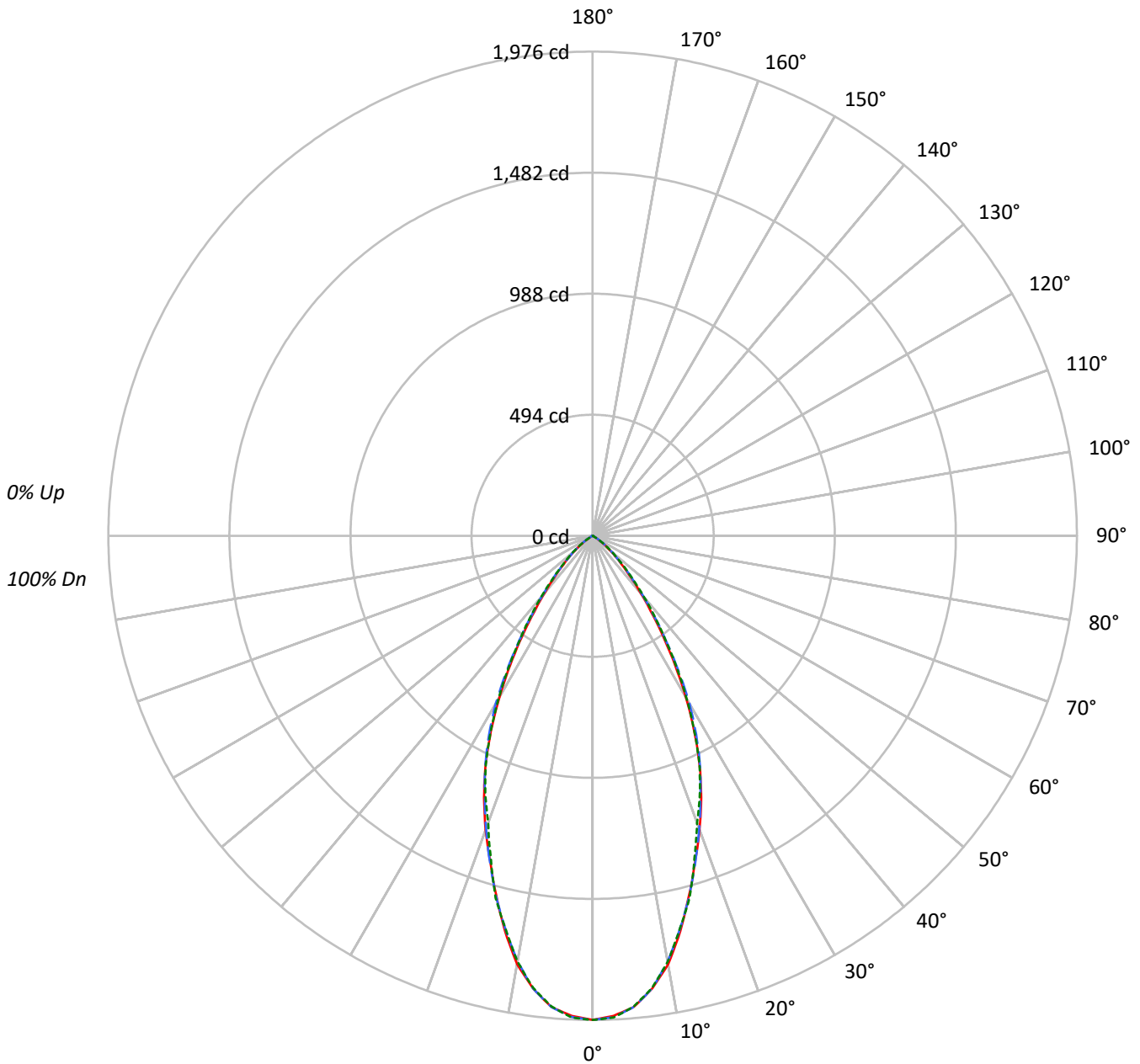
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69					69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60					60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53					53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	765318	765318	765318
5°	750667	750667	749695
10°	698224	693308	694291
15°	609295	610297	613345
20°	526056	523995	513649
25°	441493	443630	440424
30°	339790	353253	343144
35°	237140	246598	244233
40°	154677	160997	166104
45°	94768	100246	104409
50°	55922	60441	63454
55°	23704	30457	28769
60°	3873	7747	5810
65°	2291	2291	2291
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°	179.0	11.3
10°-20°	423.4	26.6
20°-30°	469.1	29.5
30°-40°	326.4	20.5
40°-50°	147.0	9.2
50°-60°	41.5	2.6
60°-70°	2.8	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°	1071.5	67.4
0°-40°	1397.9	88.0
0°-60°	1586.3	99.8
0°-90°	1589.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1931	1938	1931	1923	1928	179
15°	1519	1527	1522	1519	1530	424
25°	1033	1040	1038	1026	1030	468
35°	502	516	522	522	516	316
45°	173	178	183	188	191	140
55°	35	40	45	45	43	35
65°	2	2	2	2	2	2
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°	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	1960.7	1970.8	1965.7	1965.7	1968.3
5°	1930.6	1938.2	1930.6	1923.1	1928.1
7.5°	1862.9	1870.5	1862.9	1857.9	1860.4
10°	1775.2	1770.2	1762.7	1757.6	1765.2
12.5°	1652.3	1649.8	1644.8	1642.3	1642.3
15°	1519.4	1527.0	1521.9	1519.4	1529.5
17.5°	1391.6	1399.1	1394.1	1386.6	1381.5
20°	1276.2	1278.7	1271.2	1258.7	1246.1
22.5°	1158.4	1160.9	1148.4	1143.3	1143.3
25°	1033.0	1040.5	1038.0	1025.5	1030.5
27.5°	897.6	910.2	915.2	900.1	900.1
30°	759.7	769.7	789.8	769.7	767.2
32.5°	624.3	639.4	649.4	646.9	639.4
35°	501.5	516.5	521.5	521.5	516.5
37.5°	391.1	406.2	411.2	416.2	416.2
40°	305.9	313.4	318.4	326.0	328.5
42.5°	230.7	238.2	245.7	250.7	248.2
45°	173.0	178.0	183.0	188.0	190.6
47.5°	130.4	130.4	135.4	140.4	140.4
50°	92.8	97.8	100.3	102.8	105.3
52.5°	62.7	65.2	70.2	72.7	70.2
55°	35.1	40.1	45.1	45.1	42.6
57.5°	15.0	22.6	25.1	25.1	20.1
60°	5.0	10.0	10.0	12.5	7.5
62.5°	2.5	5.0	5.0	5.0	2.5
65°	2.5	2.5	2.5	2.5	2.5
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)