

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 EU2B20WFL558030 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 EU2B20WFL558030 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: 1519.0 lumens
Efficiency: N/A
Efficacy: 72.7 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

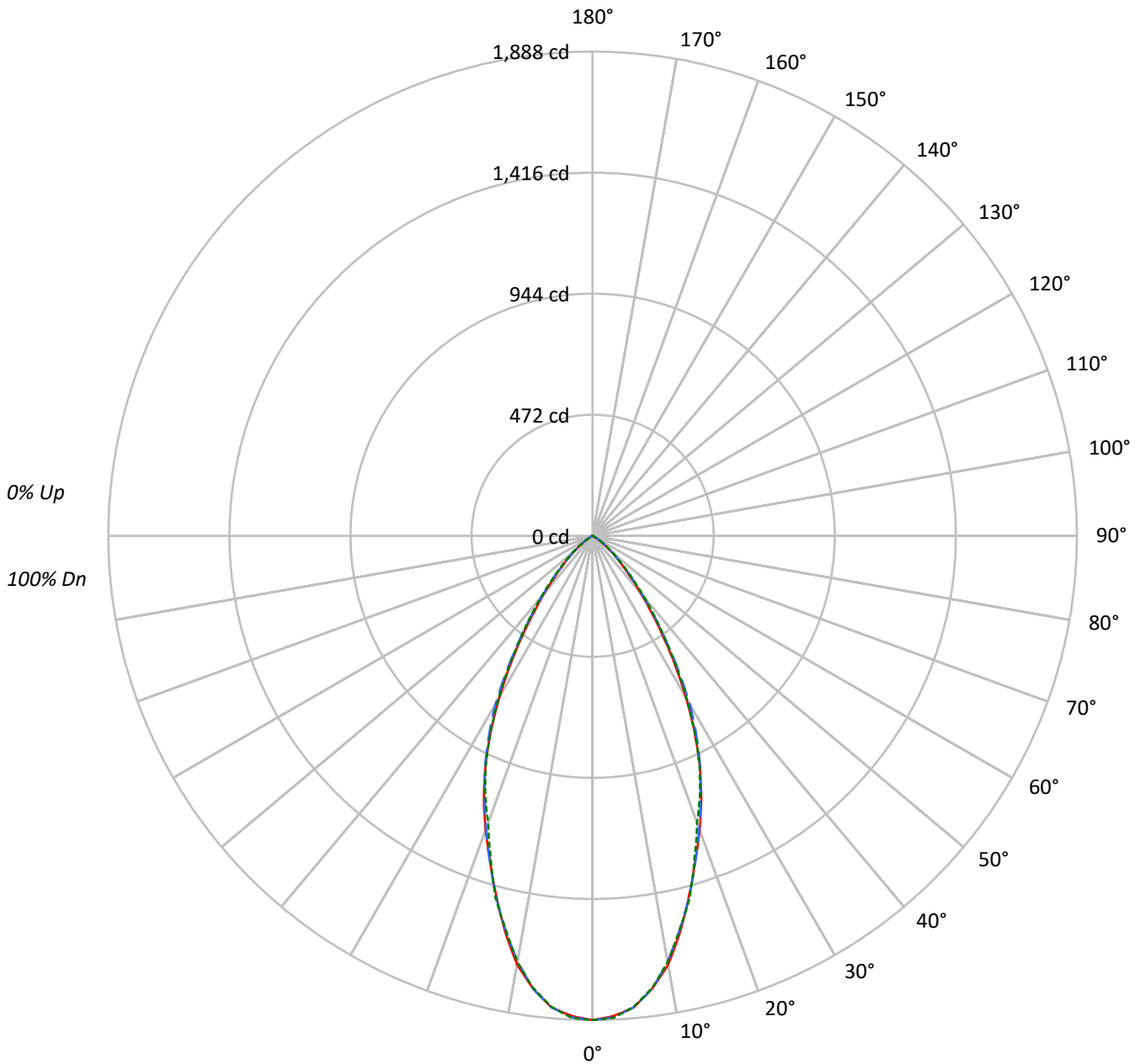
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	731503	731503	731503
5°	717539	717539	716606
10°	667388	662668	663612
15°	582387	583349	586237
20°	502849	500870	490977
25°	422004	424055	420978
30°	324806	337643	328027
35°	226643	235722	233452
40°	147850	153918	158772
45°	90604	95808	99753
50°	53451	57790	60682
55°	22691	29106	27485
60°	3719	7437	5578
65°	2200	2200	2200
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°	171.1	11.3
10°-20°	404.7	26.6
20°-30°	448.4	29.5
30°-40°	312.0	20.5
40°-50°	140.5	9.2
50°-60°	39.6	2.6
60°-70°	2.7	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°	1024.2	67.4
0°-40°	1336.2	88.0
0°-60°	1516.3	99.8
0°-90°	1519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1845	1852	1845	1838	1843	171
15°	1452	1460	1455	1452	1462	405
25°	987	995	992	980	985	448
35°	479	494	498	498	494	302
45°	165	170	175	180	182	134
55°	34	38	43	43	41	34
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°	1888.5	1888.5	1888.5	1888.5	1888.5
2.5°	1874.1	1883.7	1878.9	1878.9	1881.3
5°	1845.4	1852.5	1845.4	1838.2	1843.0
7.5°	1780.7	1787.8	1780.7	1775.9	1778.3
10°	1696.8	1692.0	1684.8	1680.0	1687.2
12.5°	1579.3	1576.9	1572.2	1569.8	1569.8
15°	1452.3	1459.5	1454.7	1452.3	1461.9
17.5°	1330.1	1337.3	1332.5	1325.3	1320.5
20°	1219.9	1222.3	1215.1	1203.1	1191.1
22.5°	1107.2	1109.6	1097.6	1092.8	1092.8
25°	987.4	994.6	992.2	980.2	985.0
27.5°	858.0	870.0	874.7	860.4	860.4
30°	726.2	735.7	754.9	735.7	733.4
32.5°	596.7	611.1	620.7	618.3	611.1
35°	479.3	493.7	498.5	498.5	493.7
37.5°	373.9	388.2	393.0	397.8	397.8
40°	292.4	299.6	304.4	311.6	314.0
42.5°	220.5	227.7	234.9	239.7	237.3
45°	165.4	170.2	174.9	179.7	182.1
47.5°	124.6	124.6	129.4	134.2	134.2
50°	88.7	93.5	95.9	98.3	100.7
52.5°	59.9	62.3	67.1	69.5	67.1
55°	33.6	38.3	43.1	43.1	40.7
57.5°	14.4	21.6	24.0	24.0	19.2
60°	4.8	9.6	9.6	12.0	7.2
62.5°	2.4	4.8	4.8	4.8	2.4
65°	2.4	2.4	2.4	2.4	2.4
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)