

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 EU2B20WFL559727 2LBDSQC*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 (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WFL559727 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

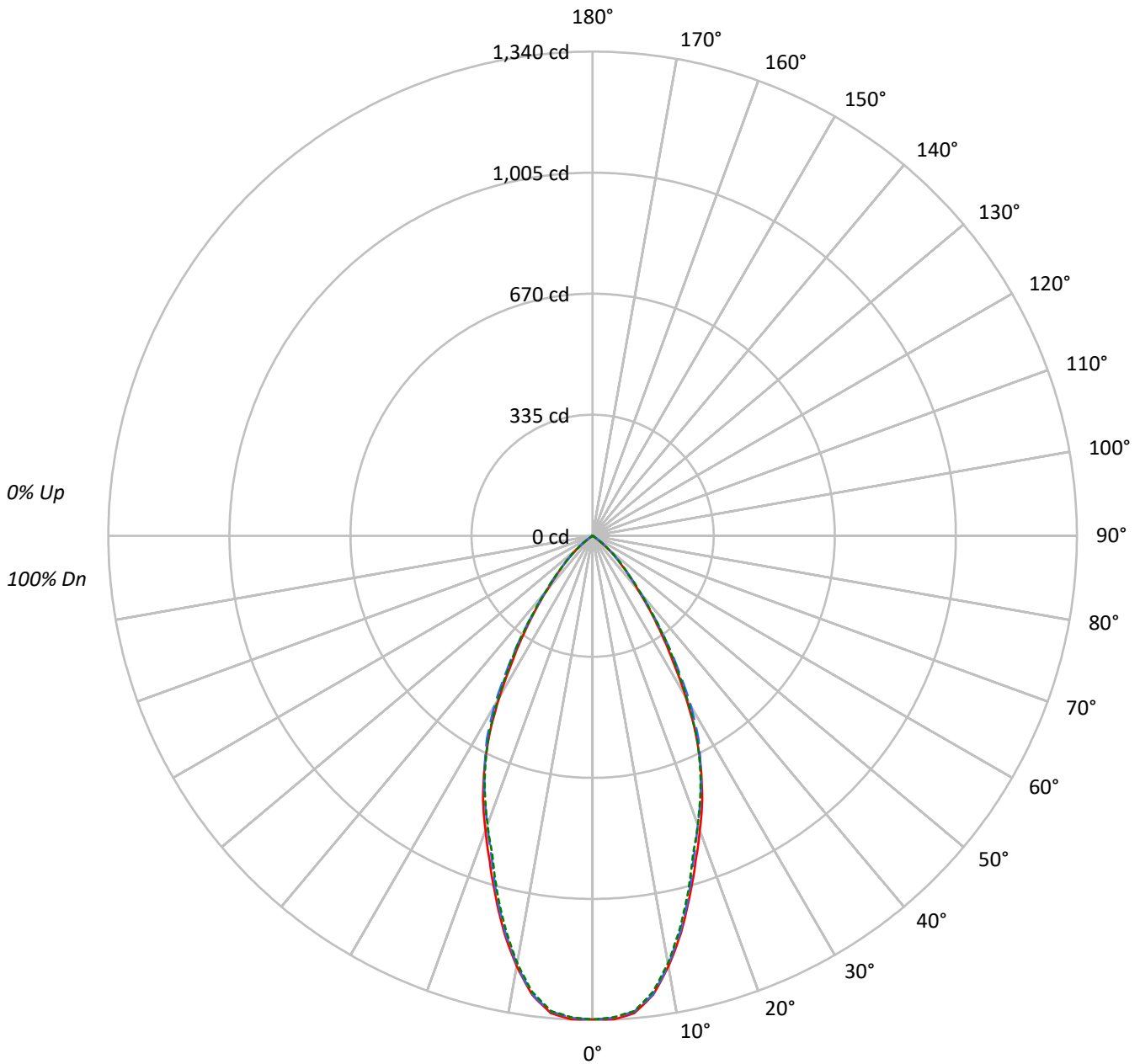
Lumens per Lamp: N/A
Luminaire Lumens: 1056.3 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94								
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87								
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81								
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75								
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70								
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65								
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61								
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57								
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54								
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	518385	518385	518385
5°	515622	513833	513250
10°	475840	474070	472261
15°	415246	412158	409110
20°	357464	350539	350539
25°	302677	301993	300711
30°	230522	242867	234637
35°	156943	166353	164887
40°	99005	104416	103657
45°	61188	62010	62832
50°	31335	35011	34107
55°	4119	12426	5132
60°	1162	1162	1162
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°	122.4	11.6
10°-20°	286.1	27.1
20°-30°	321.1	30.4
30°-40°	218.1	20.6
40°-50°	91.2	8.6
50°-60°	17.0	1.6
60°-70°	0.3	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°	729.7	69.1
0°-40°	947.8	89.7
0°-60°	1056.0	100.0
0°-90°	1056.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1326	1325	1322	1318	1320	123
15°	1036	1032	1028	1019	1020	289
25°	708	714	707	705	704	320
35°	332	343	352	344	349	210
45°	112	110	113	115	115	89
55°	6	14	18	14	8	12
65°	0	0	0	0	0	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°	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1339.9	1336.8	1335.3	1333.7	1333.7
5°	1326.1	1324.6	1321.5	1318.4	1320.0
7.5°	1281.7	1280.2	1280.2	1274.1	1274.1
10°	1209.8	1209.8	1205.3	1205.3	1200.7
12.5°	1127.3	1121.1	1121.1	1116.5	1113.5
15°	1035.5	1032.4	1027.8	1018.7	1020.2
17.5°	946.8	940.7	931.5	926.9	923.8
20°	867.2	865.7	850.4	847.4	850.4
22.5°	792.3	793.8	781.6	778.5	778.5
25°	708.2	714.3	706.6	705.1	703.6
27.5°	617.9	628.6	633.2	622.5	621.0
30°	515.4	533.8	543.0	532.3	524.6
32.5°	416.0	434.4	443.6	435.9	431.3
35°	331.9	342.6	351.8	344.1	348.7
37.5°	260.0	266.1	269.2	269.2	269.2
40°	195.8	201.9	206.5	208.0	205.0
42.5°	148.4	151.4	154.5	156.0	154.5
45°	111.7	110.1	113.2	114.7	114.7
47.5°	81.1	81.1	82.6	84.1	84.1
50°	52.0	55.1	58.1	56.6	56.6
52.5°	22.9	32.1	38.2	32.1	26.0
55°	6.1	13.8	18.4	13.8	7.6
57.5°	1.5	4.6	6.1	4.6	3.1
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	0.0	0.0	0.0	1.5
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)