

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: **LD2B10D010 EU2B10WFL559030 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: LD2B10D010 EU2B10WFL559030 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

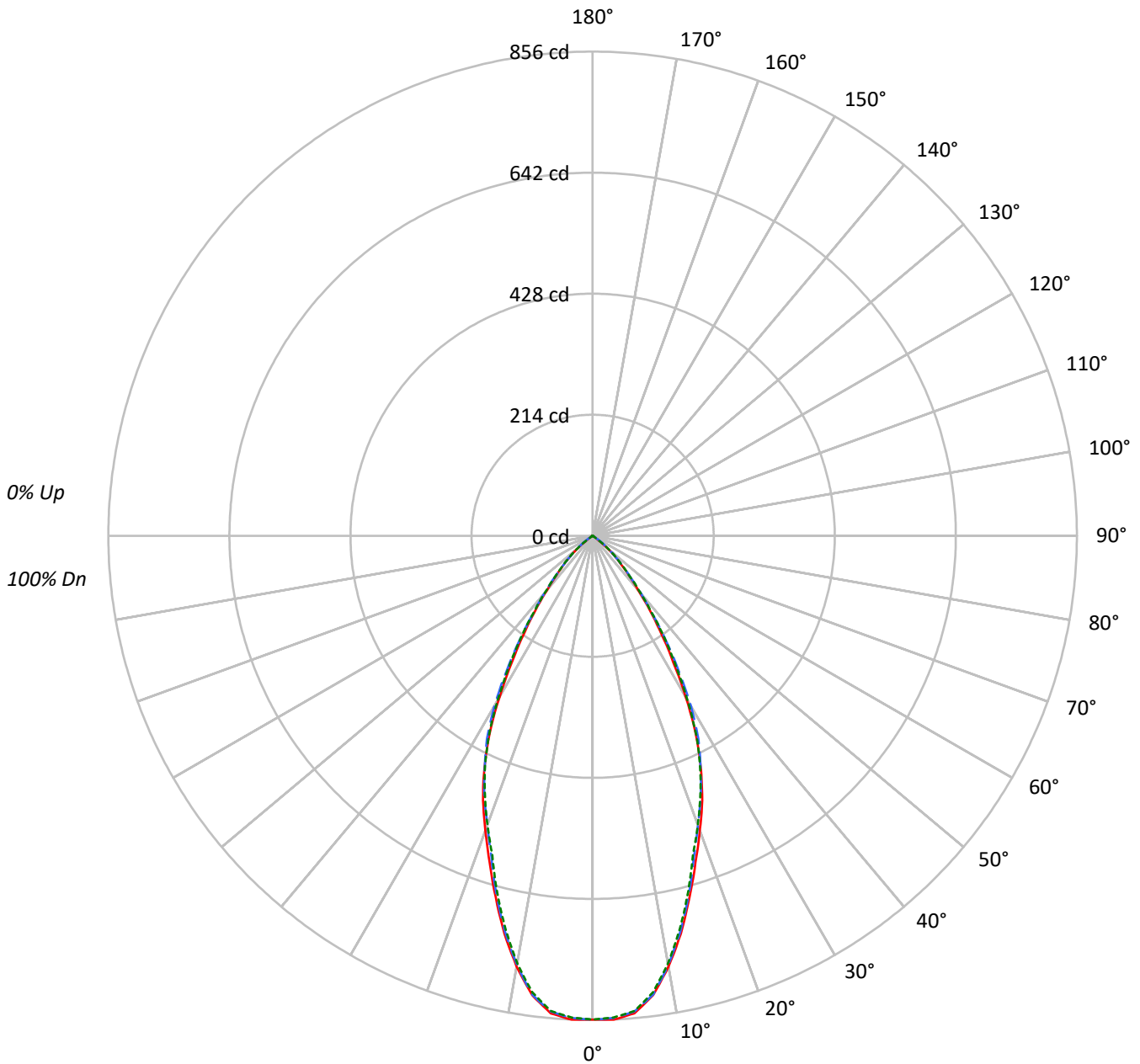
Lumens per Lamp: N/A
Luminaire Lumens: 675.1 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
RC	80									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°	331297	331297	331297
5°	329530	328402	328013
10°	304116	302975	301835
15°	265388	263424	261459
20°	228485	224033	224033
25°	193436	193009	192197
30°	147330	155202	149969
35°	100294	106299	105401
40°	63256	66745	66239
45°	39112	39605	40153
50°	20006	22357	21814
55°	2634	7901	3309
60°	775	775	775
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°	78.2	11.6
10°-20°	182.9	27.1
20°-30°	205.2	30.4
30°-40°	139.4	20.6
40°-50°	58.3	8.6
50°-60°	10.9	1.6
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°	466.4	69.1
0°-40°	605.8	89.7
0°-60°	674.9	100.0
0°-90°	675.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	848	846	845	843	844	78
15°	662	660	657	651	652	185
25°	453	456	452	451	450	205
35°	212	219	225	220	223	134
45°	71	70	72	73	73	57
55°	4	9	12	9	5	8
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°	855.3	855.3	855.3	855.3	855.3
2.5°	856.3	854.4	853.4	852.4	852.4
5°	847.5	846.5	844.6	842.6	843.6
7.5°	819.2	818.2	818.2	814.3	814.3
10°	773.2	773.2	770.3	770.3	767.4
12.5°	720.4	716.5	716.5	713.6	711.6
15°	661.8	659.8	656.9	651.0	652.0
17.5°	605.1	601.2	595.3	592.4	590.4
20°	554.3	553.3	543.5	541.6	543.5
22.5°	506.4	507.3	499.5	497.6	497.6
25°	452.6	456.5	451.6	450.6	449.7
27.5°	394.9	401.8	404.7	397.9	396.9
30°	329.4	341.2	347.0	340.2	335.3
32.5°	265.9	277.6	283.5	278.6	275.7
35°	212.1	219.0	224.8	219.9	222.9
37.5°	166.2	170.1	172.0	172.0	172.0
40°	125.1	129.0	132.0	132.9	131.0
42.5°	94.8	96.8	98.7	99.7	98.7
45°	71.4	70.4	72.3	73.3	73.3
47.5°	51.8	51.8	52.8	53.8	53.8
50°	33.2	35.2	37.1	36.2	36.2
52.5°	14.7	20.5	24.4	20.5	16.6
55°	3.9	8.8	11.7	8.8	4.9
57.5°	1.0	2.9	3.9	2.9	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)