

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: P225234

Luminaire Tested: **LD2B20D010 EU2B20FL409030 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409030 2LBDSQLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1308.2 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

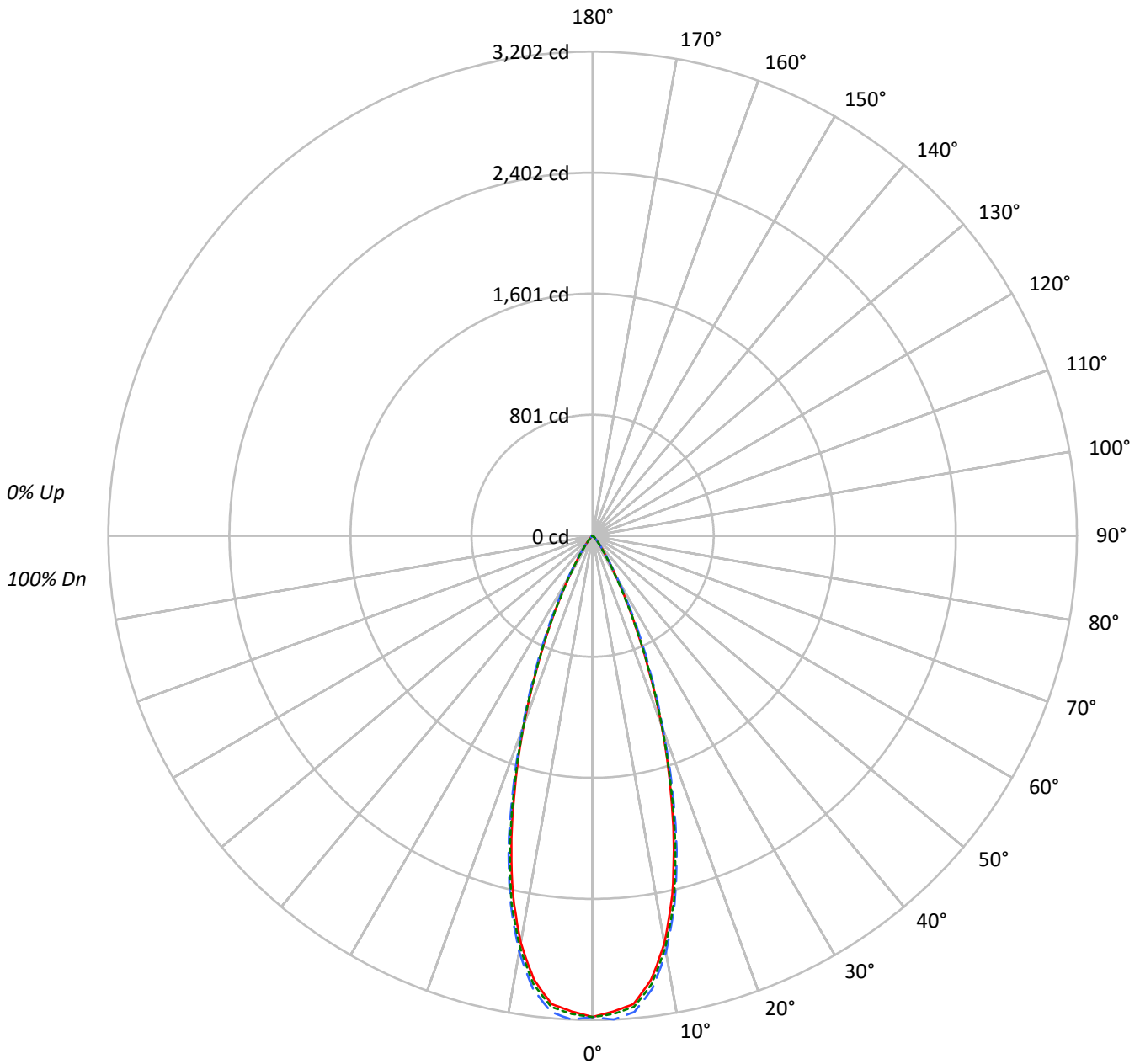
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1232806	1232806	1232806
5°	1208470	1229233	1216052
10°	1075380	1098507	1087298
15°	830893	860848	845891
20°	548109	559857	551036
25°	299001	319516	300497
30°	134538	148896	128992
35°	58067	59770	53008
40°	24321	25181	22501
45°	9751	10737	10737
50°	4278	5363	5363
55°	2431	2431	3579
60°	1394	1394	1394
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°	287.7	22.0
10°-20°	572.7	43.8
20°-30°	338.3	25.9
30°-40°	88.1	6.7
40°-50°	17.4	1.3
50°-60°	3.8	0.3
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°	1198.6	91.6
0°-40°	1286.7	98.4
0°-60°	1307.9	100.0
0°-90°	1308.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3183	3183	3183	3183	3183	
5°	3108	3133	3161	3140	3128	284
15°	2072	2118	2147	2115	2109	562
25°	700	723	748	719	703	330
35°	123	128	126	125	112	86
45°	18	21	20	20	20	16
55°	4	4	4	4	5	4
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°	3182.7	3182.7	3182.7	3182.7	3182.7
2.5°	3148.9	3180.9	3202.3	3184.5	3164.9
5°	3108.0	3132.9	3161.4	3140.0	3127.5
7.5°	2962.0	2999.4	3020.7	3010.1	2990.5
10°	2734.1	2762.6	2792.9	2782.2	2764.4
12.5°	2433.3	2472.5	2501.0	2476.0	2479.6
15°	2072.0	2118.3	2146.7	2114.7	2109.4
17.5°	1689.3	1724.9	1744.4	1724.9	1710.6
20°	1329.7	1351.1	1358.2	1349.3	1336.8
22.5°	982.6	1005.7	1027.1	1005.7	989.7
25°	699.6	722.7	747.6	719.1	703.1
27.5°	471.7	486.0	507.3	480.6	457.5
30°	300.8	316.8	332.9	313.3	288.4
32.5°	190.5	201.1	202.9	199.4	178.0
35°	122.8	128.2	126.4	124.6	112.1
37.5°	78.3	78.3	80.1	78.3	71.2
40°	48.1	51.6	49.8	48.1	44.5
42.5°	28.5	32.0	30.3	30.3	28.5
45°	17.8	21.4	19.6	19.6	19.6
47.5°	12.5	14.2	12.5	12.5	14.2
50°	7.1	8.9	8.9	8.9	8.9
52.5°	5.3	5.3	5.3	5.3	7.1
55°	3.6	3.6	3.6	3.6	5.3
57.5°	3.6	3.6	1.8	1.8	3.6
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	0.0	0.0	0.0	1.8
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)