

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: P225236

Luminaire Tested: **LD2B20D010 EU2B20FL409040 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225236
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 EU2B20FL409040 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: 1388.2 lumens
Efficiency: N/A
Efficacy: 66.4 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

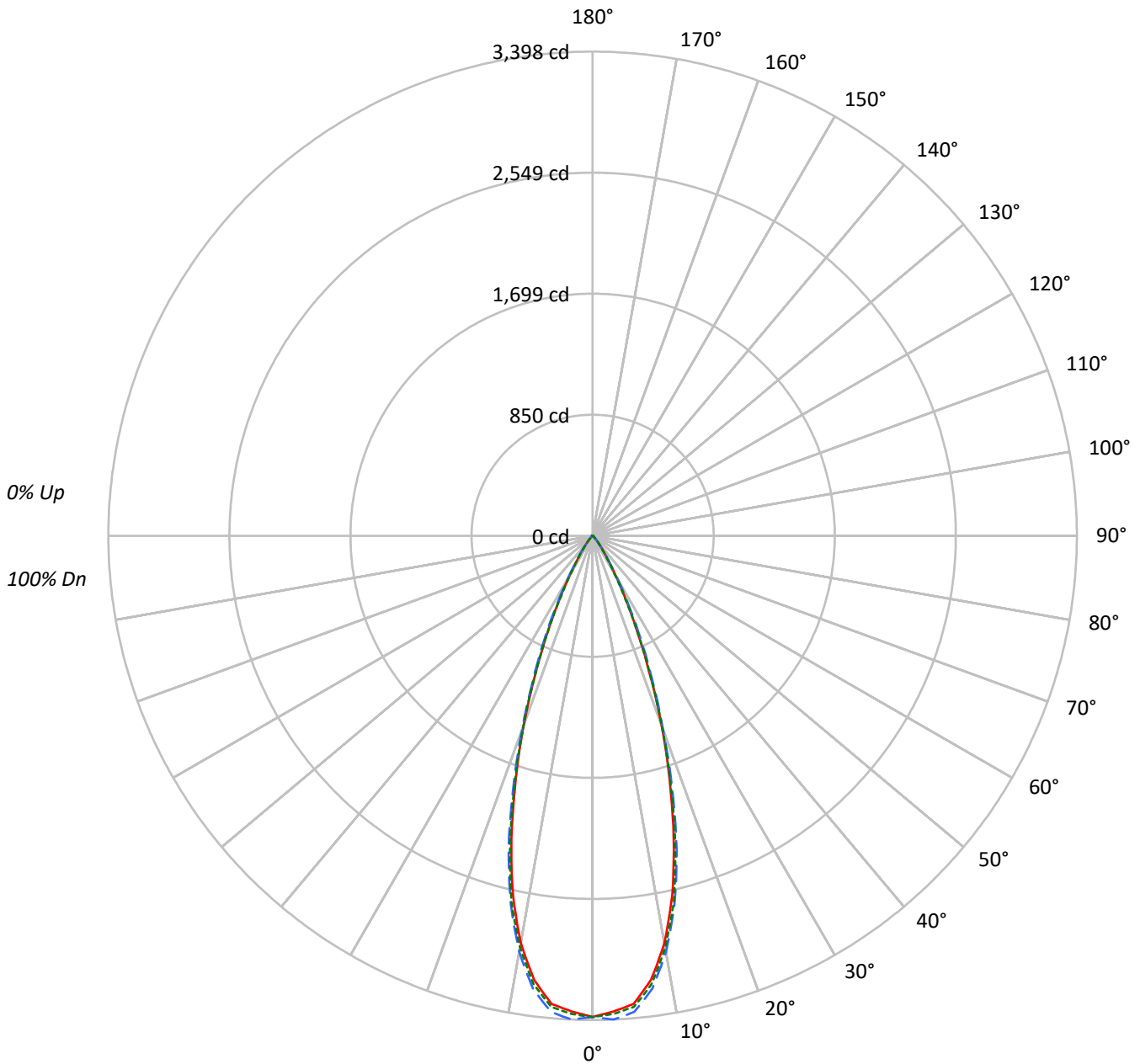
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	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°	1308184	1308184	1308184
5°	1282347	1304393	1290434
10°	1141143	1165687	1153808
15°	881701	913501	897581
20°	581621	594070	584754
25°	317251	339048	318875
30°	142768	157975	136864
35°	61614	63411	56271
40°	25788	26749	23866
45°	10353	11394	11394
50°	4580	5664	5664
55°	2566	2566	3849
60°	1472	1472	1472
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°	305.3	22.0
10°-20°	607.7	43.8
20°-30°	358.9	25.9
30°-40°	93.4	6.7
40°-50°	18.5	1.3
50°-60°	4.1	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°	1271.9	91.6
0°-40°	1365.3	98.4
0°-60°	1387.9	100.0
0°-90°	1388.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	3298	3324	3355	3332	3319	302
15°	2199	2248	2278	2244	2238	597
25°	742	767	793	763	746	350
35°	130	136	134	132	119	91
45°	19	23	21	21	21	17
55°	4	4	4	4	6	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3377.3	3377.3	3377.3	3377.3	3377.3
2.5°	3341.5	3375.5	3398.1	3379.2	3358.5
5°	3298.0	3324.5	3354.7	3332.0	3318.8
7.5°	3143.1	3182.8	3205.5	3194.1	3173.3
10°	2901.3	2931.6	2963.7	2952.3	2933.5
12.5°	2582.1	2623.7	2653.9	2627.5	2631.2
15°	2198.7	2247.8	2278.0	2244.0	2238.3
17.5°	1792.6	1830.3	1851.1	1830.3	1815.2
20°	1411.0	1433.7	1441.2	1431.8	1418.6
22.5°	1042.7	1067.2	1089.9	1067.2	1050.2
25°	742.3	766.9	793.3	763.1	746.1
27.5°	500.6	515.7	538.3	510.0	485.4
30°	319.2	336.2	353.2	332.4	306.0
32.5°	202.1	213.4	215.3	211.6	188.9
35°	130.3	136.0	134.1	132.2	119.0
37.5°	83.1	83.1	85.0	83.1	75.6
40°	51.0	54.8	52.9	51.0	47.2
42.5°	30.2	34.0	32.1	32.1	30.2
45°	18.9	22.7	20.8	20.8	20.8
47.5°	13.2	15.1	13.2	13.2	15.1
50°	7.6	9.4	9.4	9.4	9.4
52.5°	5.7	5.7	5.7	5.7	7.6
55°	3.8	3.8	3.8	3.8	5.7
57.5°	3.8	3.8	1.9	1.9	3.8
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)