

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: P225265

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225265
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 EU2B20FL408040 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: 1708.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

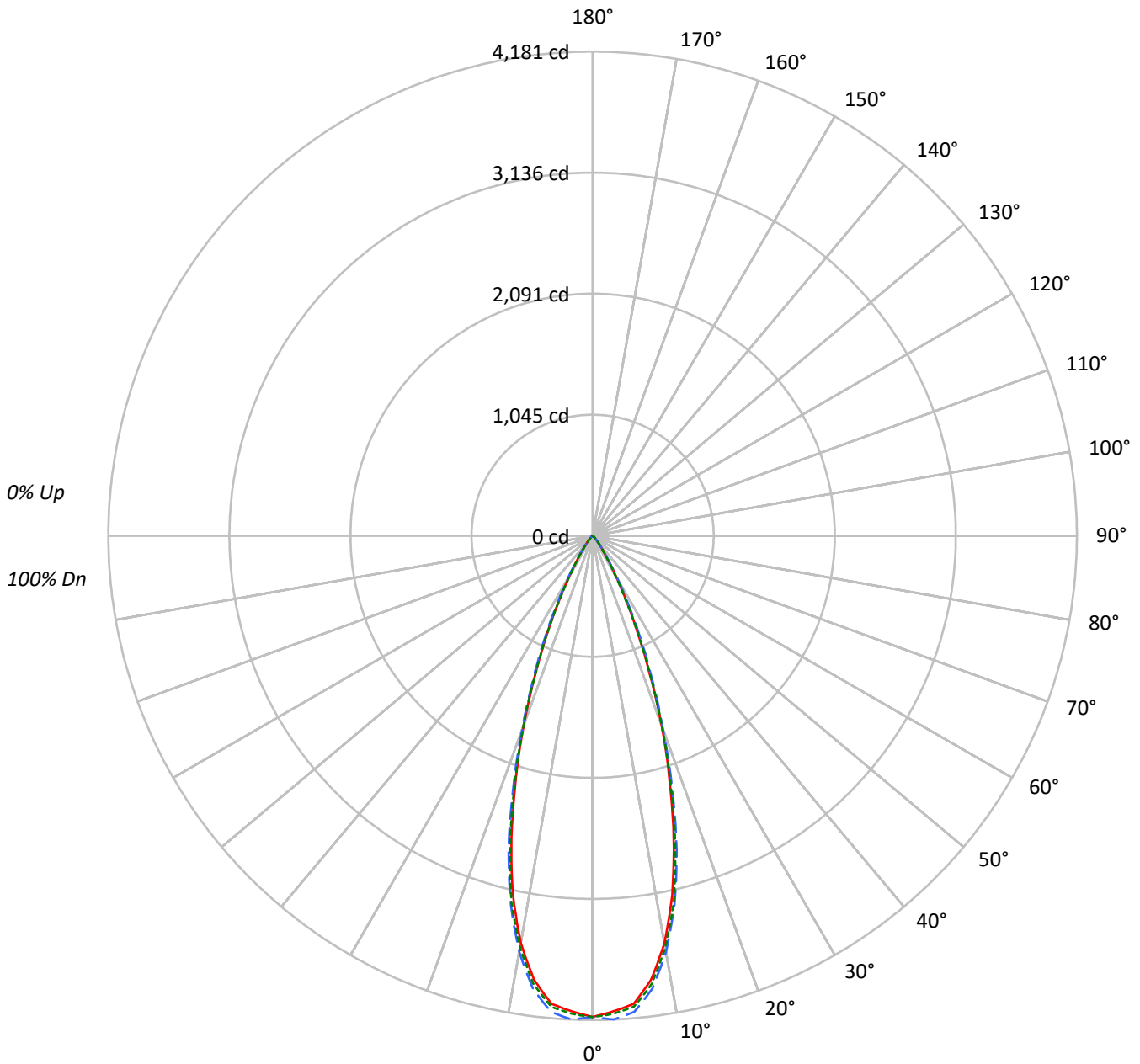
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91					91			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87					87			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83					83			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80					80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77					77			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73					73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71					71			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68					68			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65					65			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1609578	1609578	1609578
5°	1577776	1604878	1587692
10°	1404039	1434207	1419576
15°	1084812	1123951	1104382
20°	715629	730922	719463
25°	390334	417174	392343
30°	175687	194383	168397
35°	75847	78022	69227
40°	31704	32917	29378
45°	12709	14023	14023
50°	5604	6990	6990
55°	3106	3106	4727
60°	1782	1782	1782
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°	375.6	22.0
10°-20°	747.7	43.8
20°-30°	441.6	25.9
30°-40°	115.0	6.7
40°-50°	22.7	1.3
50°-60°	5.0	0.3
60°-70°	0.4	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°	1564.9	91.6
0°-40°	1679.9	98.4
0°-60°	1707.6	100.0
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4155	4155	4155	4155	4155	
5°	4058	4090	4128	4100	4083	371
15°	2705	2766	2803	2761	2754	734
25°	913	944	976	939	918	430
35°	160	167	165	163	146	112
45°	23	28	26	26	26	21
55°	5	5	5	5	7	5
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°	4155.4	4155.4	4155.4	4155.4	4155.4
2.5°	4111.2	4153.1	4181.0	4157.7	4132.1
5°	4057.8	4090.3	4127.5	4099.6	4083.3
7.5°	3867.2	3916.0	3943.9	3930.0	3904.4
10°	3569.7	3606.9	3646.4	3632.5	3609.2
12.5°	3177.0	3228.1	3265.3	3232.7	3237.4
15°	2705.2	2765.6	2802.8	2761.0	2754.0
17.5°	2205.5	2252.0	2277.6	2252.0	2233.4
20°	1736.1	1763.9	1773.2	1761.6	1745.4
22.5°	1282.9	1313.1	1341.0	1313.1	1292.2
25°	913.3	943.6	976.1	938.9	918.0
27.5°	615.9	634.5	662.4	627.5	597.3
30°	392.8	413.7	434.6	409.0	376.5
32.5°	248.7	262.6	264.9	260.3	232.4
35°	160.4	167.3	165.0	162.7	146.4
37.5°	102.3	102.3	104.6	102.3	93.0
40°	62.7	67.4	65.1	62.7	58.1
42.5°	37.2	41.8	39.5	39.5	37.2
45°	23.2	27.9	25.6	25.6	25.6
47.5°	16.3	18.6	16.3	16.3	18.6
50°	9.3	11.6	11.6	11.6	11.6
52.5°	7.0	7.0	7.0	7.0	9.3
55°	4.6	4.6	4.6	4.6	7.0
57.5°	4.6	4.6	2.3	2.3	4.6
60°	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	0.0	0.0	0.0	2.3
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)