

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: P225205

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225205
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 EU2B20FL409730 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1303.4 lumens
Efficiency: N/A
Efficacy: 62.4 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

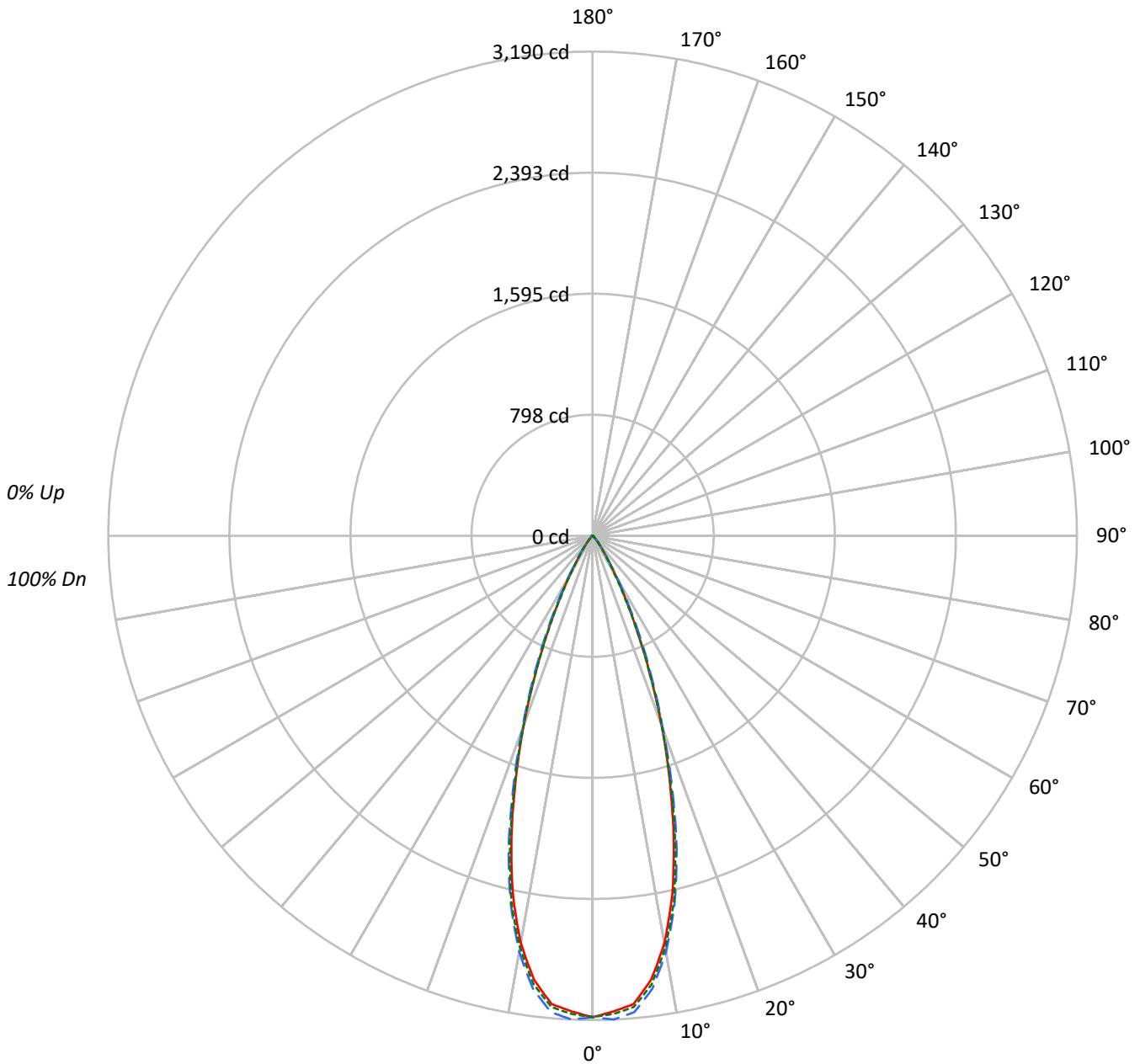
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1228274	1228274	1228274
5°	1204037	1224723	1211619
10°	1071447	1094456	1083325
15°	827845	857720	842763
20°	546089	557796	549016
25°	297890	318362	299386
30°	134046	148314	128500
35°	57878	59533	52819
40°	24220	25131	22400
45°	9696	10682	10682
50°	4278	5363	5363
55°	2364	2364	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°	286.6	22.0
10°-20°	570.6	43.8
20°-30°	337.0	25.9
30°-40°	87.7	6.7
40°-50°	17.3	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°	1194.2	91.6
0°-40°	1281.9	98.4
0°-60°	1303.1	100.0
0°-90°	1303.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3171	3171	3171	3171	3171	
5°	3097	3121	3150	3128	3116	283
15°	2064	2110	2139	2107	2102	560
25°	697	720	745	716	700	328
35°	122	128	126	124	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°	3171.0	3171.0	3171.0	3171.0	3171.0
2.5°	3137.3	3169.3	3190.5	3172.8	3153.3
5°	3096.6	3121.4	3149.8	3128.5	3116.1
7.5°	2951.1	2988.4	3009.6	2999.0	2979.5
10°	2724.1	2752.5	2782.6	2772.0	2754.3
12.5°	2424.4	2463.4	2491.8	2467.0	2470.5
15°	2064.4	2110.5	2138.9	2106.9	2101.6
17.5°	1683.1	1718.5	1738.0	1718.5	1704.3
20°	1324.8	1346.1	1353.2	1344.3	1331.9
22.5°	979.0	1002.0	1023.3	1002.0	986.1
25°	697.0	720.0	744.9	716.5	700.5
27.5°	470.0	484.2	505.5	478.8	455.8
30°	299.7	315.7	331.6	312.1	287.3
32.5°	189.8	200.4	202.2	198.6	177.4
35°	122.4	127.7	125.9	124.1	111.7
37.5°	78.0	78.0	79.8	78.0	70.9
40°	47.9	51.4	49.7	47.9	44.3
42.5°	28.4	31.9	30.1	30.1	28.4
45°	17.7	21.3	19.5	19.5	19.5
47.5°	12.4	14.2	12.4	12.4	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°	3.5	3.5	3.5	3.5	5.3
57.5°	3.5	3.5	1.8	1.8	3.5
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)