

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: P225235

Luminaire Tested: **LD2B20D010 EU2B20FL409035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225235
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 EU2B20FL409035 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: 1359.1 lumens
Efficiency: N/A
Efficacy: 65.0 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

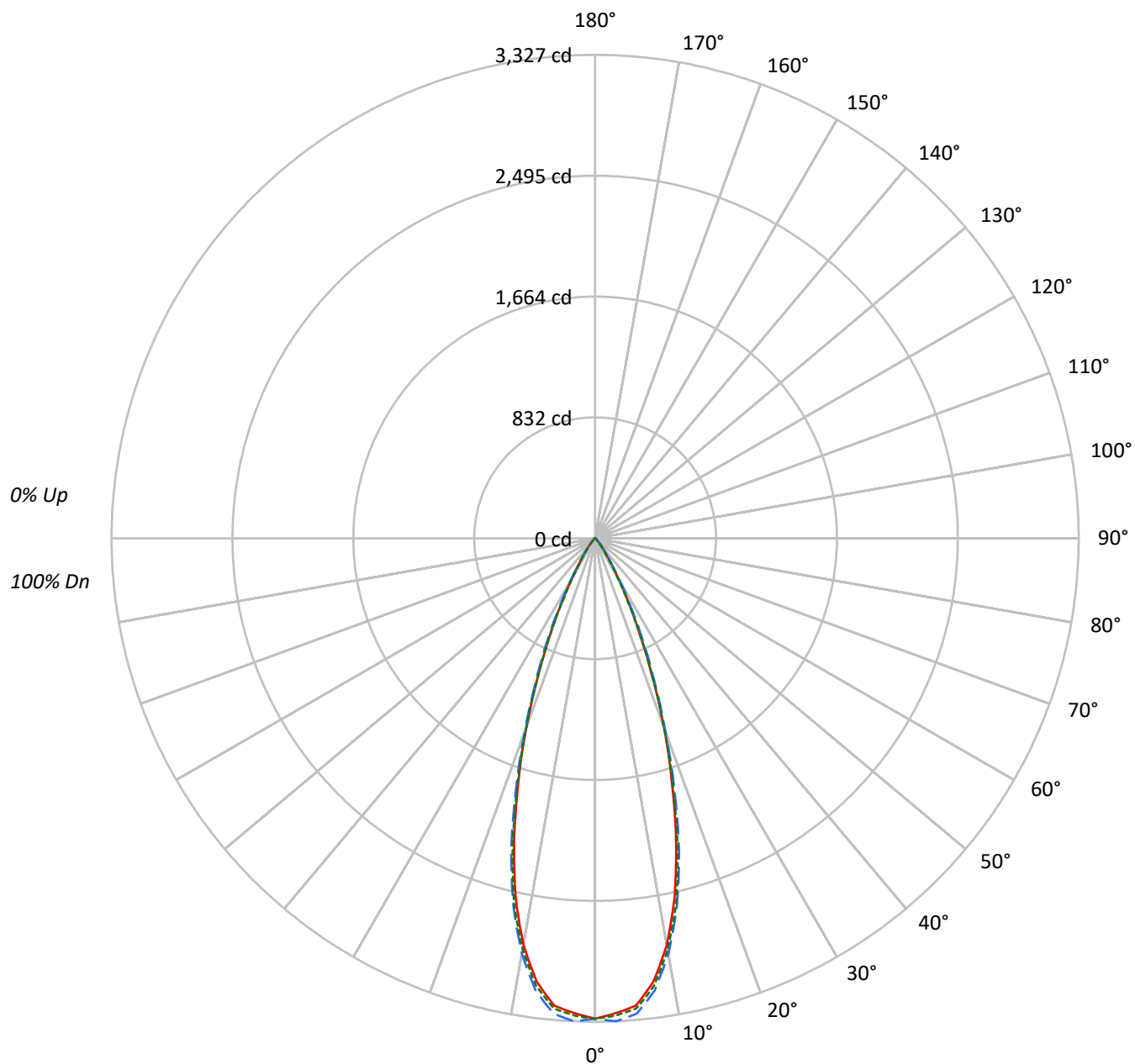
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1280798	1280798	1280798
5°	1255479	1277059	1263372
10°	1117230	1141261	1129619
15°	863214	894373	878773
20°	569420	581621	572470
25°	310626	331953	312208
30°	139771	154665	134002
35°	60337	62087	55088
40°	25232	26192	23361
45°	10134	11120	11120
50°	4459	5544	5544
55°	2499	2499	3714
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°	298.9	22.0
10°-20°	594.9	43.8
20°-30°	351.4	25.9
30°-40°	91.5	6.7
40°-50°	18.1	1.3
50°-60°	3.9	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°	1245.2	91.6
0°-40°	1336.7	98.4
0°-60°	1358.7	100.0
0°-90°	1359.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3307	3307	3307	3307	3307	
5°	3229	3255	3284	3262	3249	295
15°	2153	2201	2230	2197	2191	584
25°	727	751	777	747	730	342
35°	128	133	131	130	116	89
45°	18	22	20	20	20	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°	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3271.4	3304.7	3326.9	3308.4	3288.1
5°	3228.9	3254.8	3284.4	3262.2	3249.2
7.5°	3077.2	3116.1	3138.3	3127.2	3106.8
10°	2840.5	2870.1	2901.6	2890.5	2872.0
12.5°	2528.0	2568.7	2598.3	2572.4	2576.1
15°	2152.6	2200.7	2230.3	2197.0	2191.4
17.5°	1755.0	1792.0	1812.3	1792.0	1777.2
20°	1381.4	1403.6	1411.0	1401.8	1388.8
22.5°	1020.8	1044.9	1067.0	1044.9	1028.2
25°	726.8	750.8	776.7	747.1	730.5
27.5°	490.1	504.9	527.1	499.3	475.3
30°	312.5	329.2	345.8	325.5	299.6
32.5°	197.9	209.0	210.8	207.1	184.9
35°	127.6	133.1	131.3	129.5	116.5
37.5°	81.4	81.4	83.2	81.4	74.0
40°	49.9	53.6	51.8	49.9	46.2
42.5°	29.6	33.3	31.4	31.4	29.6
45°	18.5	22.2	20.3	20.3	20.3
47.5°	12.9	14.8	12.9	12.9	14.8
50°	7.4	9.2	9.2	9.2	9.2
52.5°	5.5	5.5	5.5	5.5	7.4
55°	3.7	3.7	3.7	3.7	5.5
57.5°	3.7	3.7	1.8	1.8	3.7
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)