

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: P283762

Luminaire Tested: **LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1459.3 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

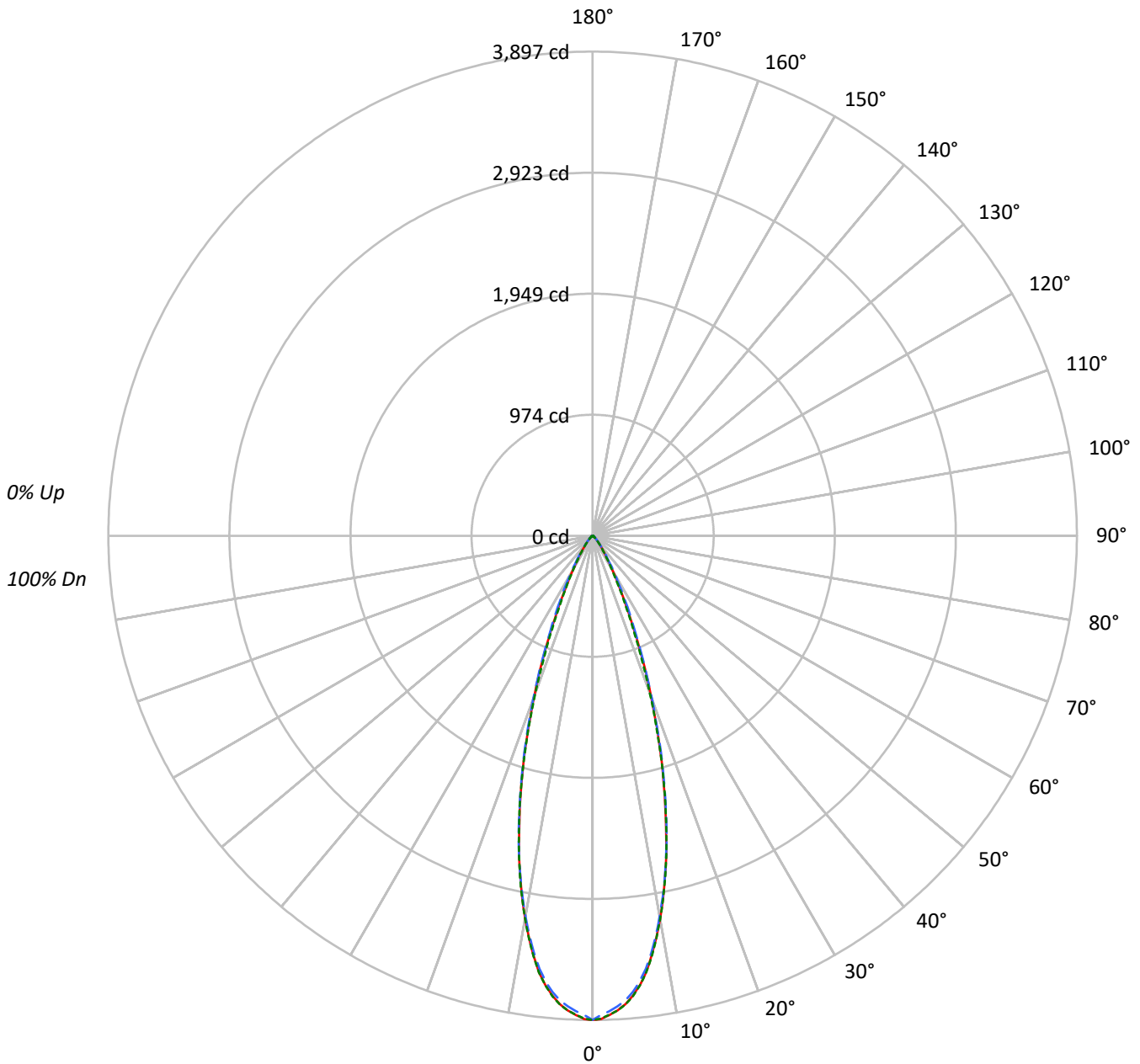
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1922680	1922680	1922680
5°	1840038	1826221	1842861
10°	1567644	1557775	1569247
15°	1155403	1162962	1159183
20°	721279	734614	705371
25°	372618	399781	353891
30°	178653	204745	170222
35°	92210	102087	86307
40°	51652	54292	49011
45°	31397	31397	30281
50°	16348	20109	16348
55°	8429	13418	9118
60°	9670	9670	9670
65°	10507	10507	10507
70°	12982	11828	12982
75°	12390	12390	12390
80°	11649	11649	11649
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	23.0
10°-20°	615.7	42.2
20°-30°	333.8	22.9
30°-40°	107.2	7.3
40°-50°	36.5	2.5
50°-60°	12.8	0.9
60°-70°	9.3	0.6
70°-80°	6.8	0.5
80°-90°	1.9	0.1
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°	1284.8	88.0
0°-40°	1391.9	95.4
0°-60°	1441.2	98.8
0°-90°	1459.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3897	3897	3897	3897	3897	
5°	3715	3692	3688	3724	3721	336
15°	2262	2281	2277	2288	2270	613
25°	684	716	734	684	650	328
35°	153	160	170	154	143	103
45°	45	46	45	45	43	36
55°	10	12	16	12	11	11
65°	9	10	9	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3897.1	3897.1	3897.1	3897.1	3897.1
1°	3890.6	3862.7	3858.6	3894.7	3886.5
2°	3859.5	3833.3	3829.2	3865.2	3857.8
3°	3825.1	3801.3	3793.1	3830.8	3825.9
4°	3779.2	3757.1	3749.8	3787.4	3783.3
5°	3715.4	3692.4	3687.5	3724.4	3721.1
6°	3636.8	3617.9	3608.9	3645.8	3639.2
7°	3538.5	3521.3	3511.5	3538.5	3541.8
8°	3410.8	3402.6	3391.2	3418.2	3418.2
9°	3274.9	3267.5	3255.2	3279.8	3279.8
10°	3129.2	3124.2	3109.5	3132.4	3132.4
11°	2969.5	2967.1	2956.4	2975.2	2975.2
12°	2801.7	2807.4	2797.6	2814.0	2808.2
13°	2633.8	2631.4	2632.2	2644.5	2635.5
14°	2443.9	2458.6	2461.1	2468.4	2454.5
15°	2262.1	2281.0	2276.9	2287.5	2269.5
16°	2076.3	2097.6	2096.7	2099.2	2082.0
17°	1902.7	1915.0	1915.8	1913.4	1892.1
18°	1717.7	1734.9	1734.9	1730.8	1705.4
19°	1536.7	1549.8	1558.8	1549.8	1520.4
20°	1373.8	1382.8	1399.2	1376.3	1343.5
21°	1217.4	1225.6	1239.5	1212.5	1176.5
22°	1067.6	1078.3	1091.4	1060.2	1022.6
23°	927.6	952.2	957.1	914.5	882.6
24°	799.1	826.9	835.1	791.7	758.1
25°	684.5	715.6	734.4	683.6	650.1
26°	585.4	615.7	638.6	587.8	555.9
27°	498.6	530.5	554.3	506.8	476.5
28°	424.1	455.2	479.8	435.6	406.9
29°	368.4	386.4	411.0	374.2	348.0
30°	313.6	333.2	359.4	321.8	298.8
32.5°	215.3	226.0	246.4	223.5	205.5
35°	153.1	159.7	169.5	153.9	143.3
37.5°	108.9	112.2	117.9	108.9	103.2
40°	80.2	81.9	84.3	79.4	76.1
42.5°	59.8	60.6	60.6	58.9	57.3
45°	45.0	45.8	45.0	45.0	43.4
47.5°	32.7	35.2	34.4	34.4	31.9
50°	21.3	26.2	26.2	25.4	21.3
52.5°	13.1	18.0	20.5	18.0	13.9
55°	9.8	12.3	15.6	12.3	10.6
57.5°	9.8	9.8	11.5	9.8	9.8
60°	9.8	9.8	9.8	9.8	9.8



TEST NUMBER: P283762

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.0	9.0	9.0	9.0	9.0
70°	9.0	9.0	8.2	9.0	9.0
72.5°	8.2	8.2	7.4	8.2	7.4
75°	6.5	6.5	6.5	6.5	6.5
77.5°	4.9	4.9	4.9	4.9	4.9
80°	4.1	4.1	4.1	4.1	4.1
82.5°	2.5	2.5	2.5	3.3	2.5
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	9.8	9.8	9.8	9.8	9.8
65°	9.0	9.8	9.0	9.8	9.0



(END OF REPORT)