

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: P283785

Luminaire Tested: **LDA2B209730D010 EU2B20FL409730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283785
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: LDA2B209730D010 EU2B20FL409730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1263.1 lumens
Efficiency: N/A
Efficacy: 61.3 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

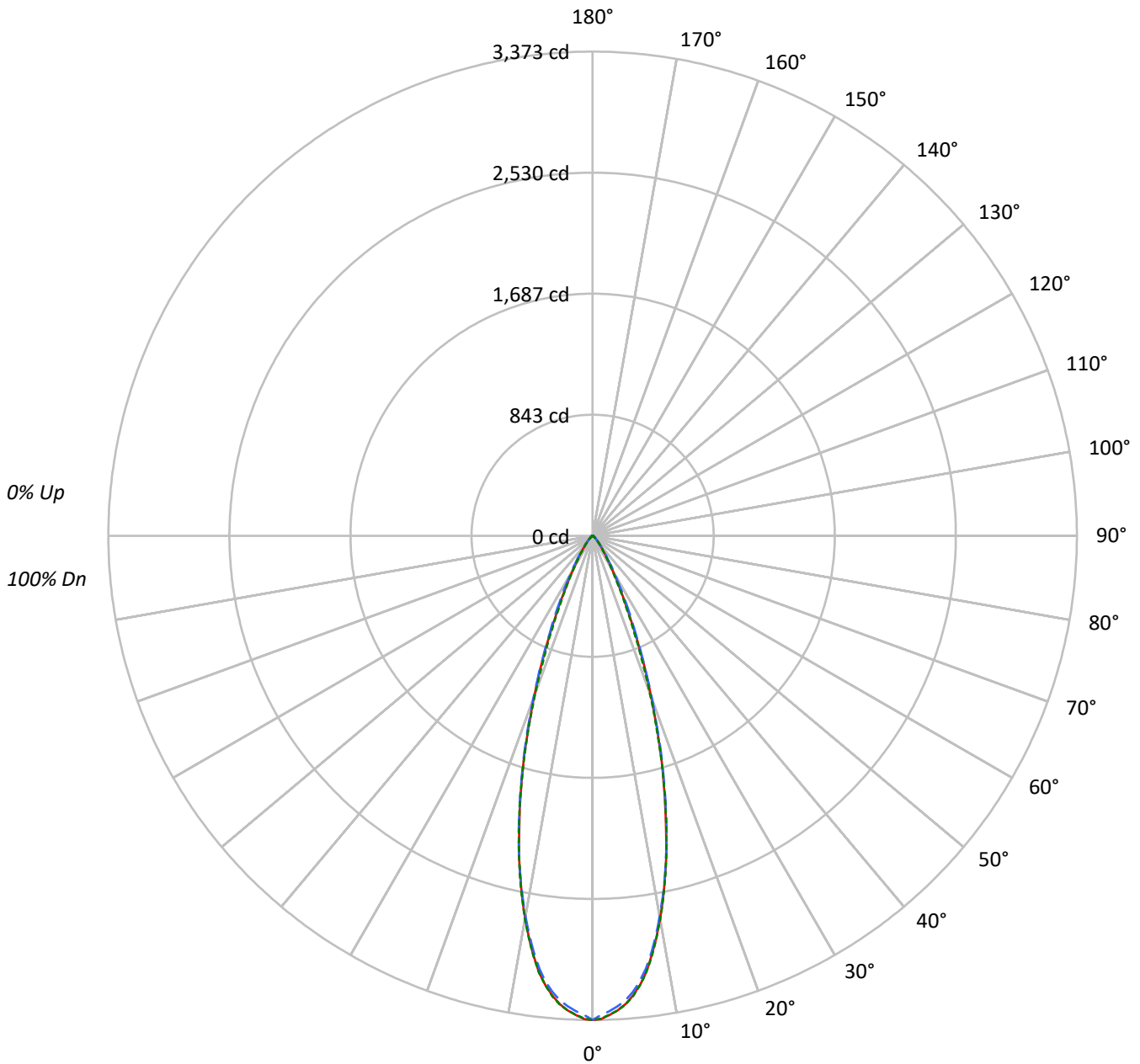
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	1664208	1664208	1664208
5°	1592663	1580727	1595139
10°	1356885	1348368	1358337
15°	1000079	1006617	1003348
20°	624307	635857	610551
25°	322482	346053	306314
30°	154613	177229	147378
35°	79803	88355	74683
40°	44696	47015	42442
45°	27211	27211	26234
50°	14123	17423	14123
55°	7311	11612	7913
60°	8387	8387	8387
65°	9106	9106	9106
70°	11251	10242	11251
75°	10865	10865	10865
80°	9944	9944	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	23.0
10°-20°	533.0	42.2
20°-30°	288.9	22.9
30°-40°	92.8	7.3
40°-50°	31.6	2.5
50°-60°	11.1	0.9
60°-70°	8.1	0.6
70°-80°	5.9	0.5
80°-90°	1.7	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°	1112.1	88.0
0°-40°	1204.8	95.4
0°-60°	1247.5	98.8
0°-90°	1263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3373	3373	3373	3373	3373	
5°	3216	3196	3192	3224	3221	291
15°	1958	1974	1971	1980	1964	531
25°	592	619	636	592	563	284
35°	132	138	147	133	124	89
45°	39	40	39	39	38	31
55°	8	11	14	11	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3373.2	3373.2	3373.2	3373.2	3373.2
1°	3367.6	3343.5	3339.9	3371.1	3364.0
2°	3340.6	3318.0	3314.4	3345.6	3339.2
3°	3310.9	3290.3	3283.2	3315.8	3311.6
4°	3271.2	3252.1	3245.7	3278.3	3274.7
5°	3215.9	3196.1	3191.8	3223.7	3220.9
6°	3147.9	3131.6	3123.8	3155.7	3150.0
7°	3062.9	3048.0	3039.5	3062.9	3065.7
8°	2952.3	2945.2	2935.3	2958.7	2958.7
9°	2834.7	2828.3	2817.7	2838.9	2838.9
10°	2708.5	2704.3	2691.5	2711.4	2711.4
11°	2570.3	2568.2	2559.0	2575.3	2575.3
12°	2425.1	2430.0	2421.5	2435.7	2430.7
13°	2279.8	2277.7	2278.4	2289.0	2281.2
14°	2115.4	2128.1	2130.2	2136.6	2124.6
15°	1958.0	1974.3	1970.8	1980.0	1964.4
16°	1797.2	1815.6	1814.9	1817.0	1802.1
17°	1646.9	1657.6	1658.3	1656.2	1637.7
18°	1486.8	1501.7	1501.7	1498.1	1476.1
19°	1330.2	1341.5	1349.3	1341.5	1316.0
20°	1189.1	1196.9	1211.1	1191.3	1162.9
21°	1053.8	1060.9	1072.9	1049.5	1018.4
22°	924.1	933.3	944.7	917.7	885.1
23°	802.9	824.2	828.4	791.6	763.9
24°	691.7	715.8	722.8	685.3	656.2
25°	592.4	619.4	635.7	591.7	562.7
26°	506.7	532.9	552.8	508.8	481.2
27°	431.6	459.2	479.8	438.7	412.4
28°	367.1	394.0	415.3	377.0	352.2
29°	318.9	334.5	355.7	323.9	301.2
30°	271.4	288.4	311.1	278.5	258.7
32.5°	186.4	195.6	213.3	193.5	177.9
35°	132.5	138.2	146.7	133.2	124.0
37.5°	94.3	97.1	102.0	94.3	89.3
40°	69.4	70.9	73.0	68.7	65.9
42.5°	51.7	52.4	52.4	51.0	49.6
45°	39.0	39.7	39.0	39.0	37.6
47.5°	28.3	30.5	29.8	29.8	27.6
50°	18.4	22.7	22.7	22.0	18.4
52.5°	11.3	15.6	17.7	15.6	12.0
55°	8.5	10.6	13.5	10.6	9.2
57.5°	8.5	8.5	9.9	8.5	8.5
60°	8.5	8.5	8.5	8.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.1	7.8	7.8
72.5°	7.1	7.1	6.4	7.1	6.4
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	7.8	8.5	7.8



(END OF REPORT)