

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: P283781

Luminaire Tested: **LDA2B209727D010 EU2B20FL409727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283781
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: LDA2B209727D010 EU2B20FL409727 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1157.2 lumens
Efficiency: N/A
Efficacy: 56.2 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

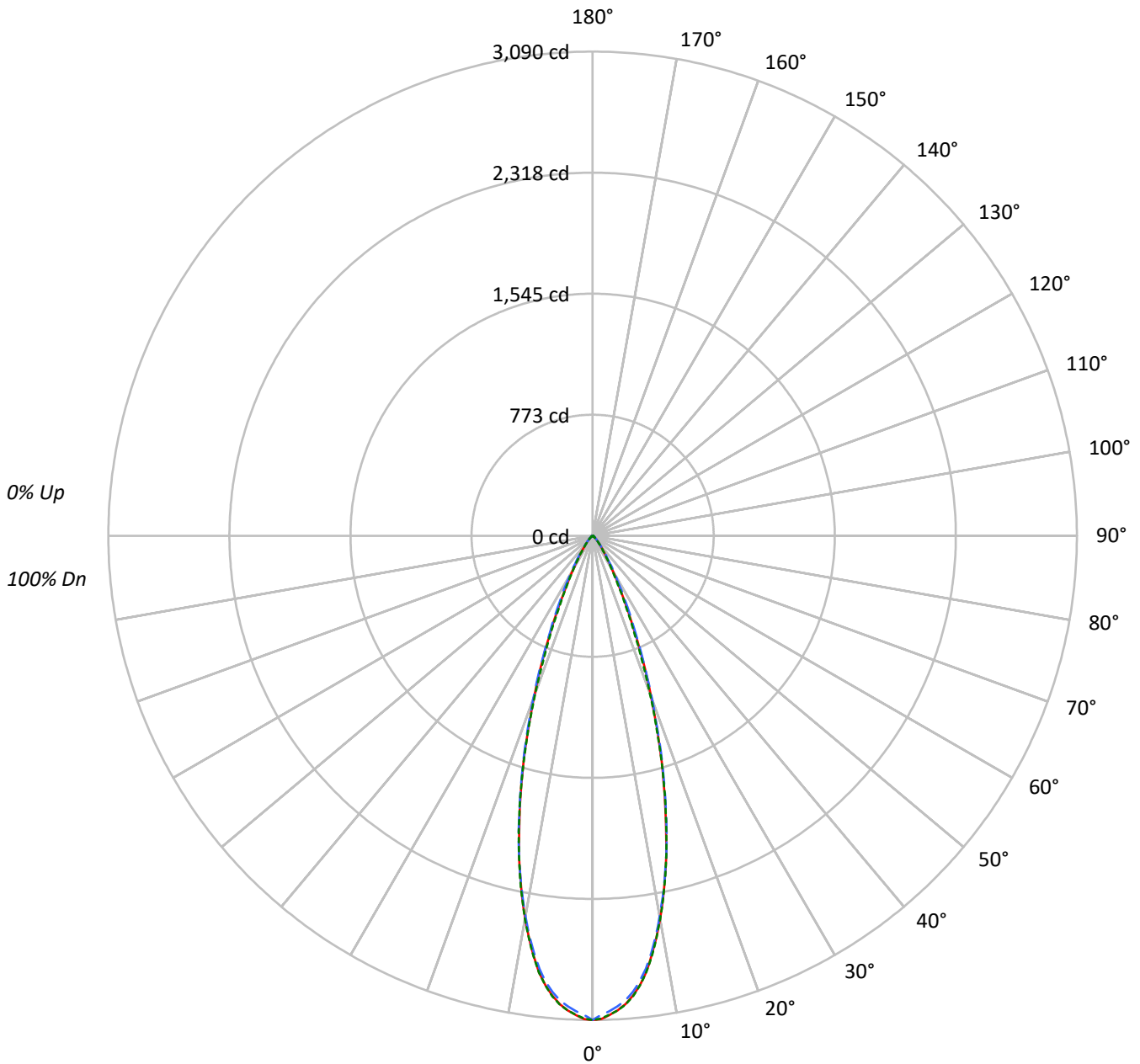
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283781

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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	75	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°	1524735	1524735	1524735
5°	1459144	1448249	1461422
10°	1243164	1235349	1244466
15°	916263	922239	919225
20°	572014	582567	559361
25°	295481	317038	280620
30°	141681	162360	135015
35°	73117	80947	68419
40°	40961	43086	38900
45°	24909	24909	24002
50°	12971	15965	12971
55°	6709	10580	7225
60°	7696	7696	7696
65°	8288	8288	8288
70°	10242	9376	10242
75°	9912	9912	9912
80°	9092	9092	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	23.0
10°-20°	488.3	42.2
20°-30°	264.7	22.9
30°-40°	85.0	7.3
40°-50°	29.0	2.5
50°-60°	10.1	0.9
60°-70°	7.4	0.6
70°-80°	5.4	0.5
80°-90°	1.5	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°	1018.8	88.0
0°-40°	1103.8	95.4
0°-60°	1142.9	98.8
0°-90°	1157.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3090	3090	3090	3090	3090	
5°	2946	2928	2924	2954	2951	266
15°	1794	1809	1806	1814	1800	486
25°	543	568	582	542	516	260
35°	121	127	134	122	114	82
45°	36	36	36	36	34	28
55°	8	10	12	10	8	9
65°	7	8	7	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3090.5	3090.5	3090.5	3090.5	3090.5
1°	3085.3	3063.2	3060.0	3088.5	3082.0
2°	3060.6	3039.8	3036.6	3065.1	3059.3
3°	3033.3	3014.5	3008.0	3037.9	3034.0
4°	2997.0	2979.4	2973.6	3003.5	3000.2
5°	2946.3	2928.2	2924.3	2953.5	2950.9
6°	2884.0	2869.1	2861.9	2891.1	2886.0
7°	2806.1	2792.5	2784.7	2806.1	2808.7
8°	2704.8	2698.3	2689.2	2710.7	2710.7
9°	2597.0	2591.2	2581.5	2600.9	2600.9
10°	2481.5	2477.6	2465.9	2484.1	2484.1
11°	2354.9	2352.9	2344.5	2359.4	2359.4
12°	2221.8	2226.3	2218.5	2231.5	2227.0
13°	2088.7	2086.7	2087.4	2097.1	2090.0
14°	1938.0	1949.7	1951.7	1957.5	1946.5
15°	1793.9	1808.8	1805.6	1814.0	1799.7
16°	1646.5	1663.4	1662.8	1664.7	1651.1
17°	1508.9	1518.6	1519.3	1517.3	1500.4
18°	1362.1	1375.8	1375.8	1372.5	1352.4
19°	1218.7	1229.0	1236.2	1229.0	1205.7
20°	1089.5	1096.6	1109.6	1091.4	1065.4
21°	965.4	971.9	983.0	961.6	933.0
22°	846.6	855.1	865.5	840.8	810.9
23°	735.6	755.1	759.0	725.2	699.9
24°	633.7	655.8	662.2	627.8	601.2
25°	542.8	567.5	582.4	542.1	515.5
26°	464.2	488.2	506.4	466.2	440.8
27°	395.4	420.7	439.5	401.9	377.9
28°	336.3	361.0	380.5	345.4	322.7
29°	292.2	306.4	325.9	296.7	275.9
30°	248.7	264.2	285.0	255.2	237.0
32.5°	170.8	179.2	195.4	177.2	163.0
35°	121.4	126.6	134.4	122.1	113.6
37.5°	86.4	88.9	93.5	86.4	81.8
40°	63.6	64.9	66.9	63.0	60.4
42.5°	47.4	48.0	48.0	46.7	45.4
45°	35.7	36.4	35.7	35.7	34.4
47.5°	26.0	27.9	27.3	27.3	25.3
50°	16.9	20.8	20.8	20.1	16.9
52.5°	10.4	14.3	16.2	14.3	11.0
55°	7.8	9.7	12.3	9.7	8.4
57.5°	7.8	7.8	9.1	7.8	7.8
60°	7.8	7.8	7.8	7.8	7.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.5	7.1	7.1
72.5°	6.5	6.5	5.8	6.5	5.8
75°	5.2	5.2	5.2	5.2	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.9	1.9	1.9	2.6	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.8	7.8	7.8	7.8	7.8
65°	7.1	7.8	7.1	7.8	7.1



(END OF REPORT)