

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: P283784

Luminaire Tested: **LDA2B209730D010 EU2B20FL409730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283784
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1304.9 lumens
Efficiency: N/A
Efficacy: 63.3 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

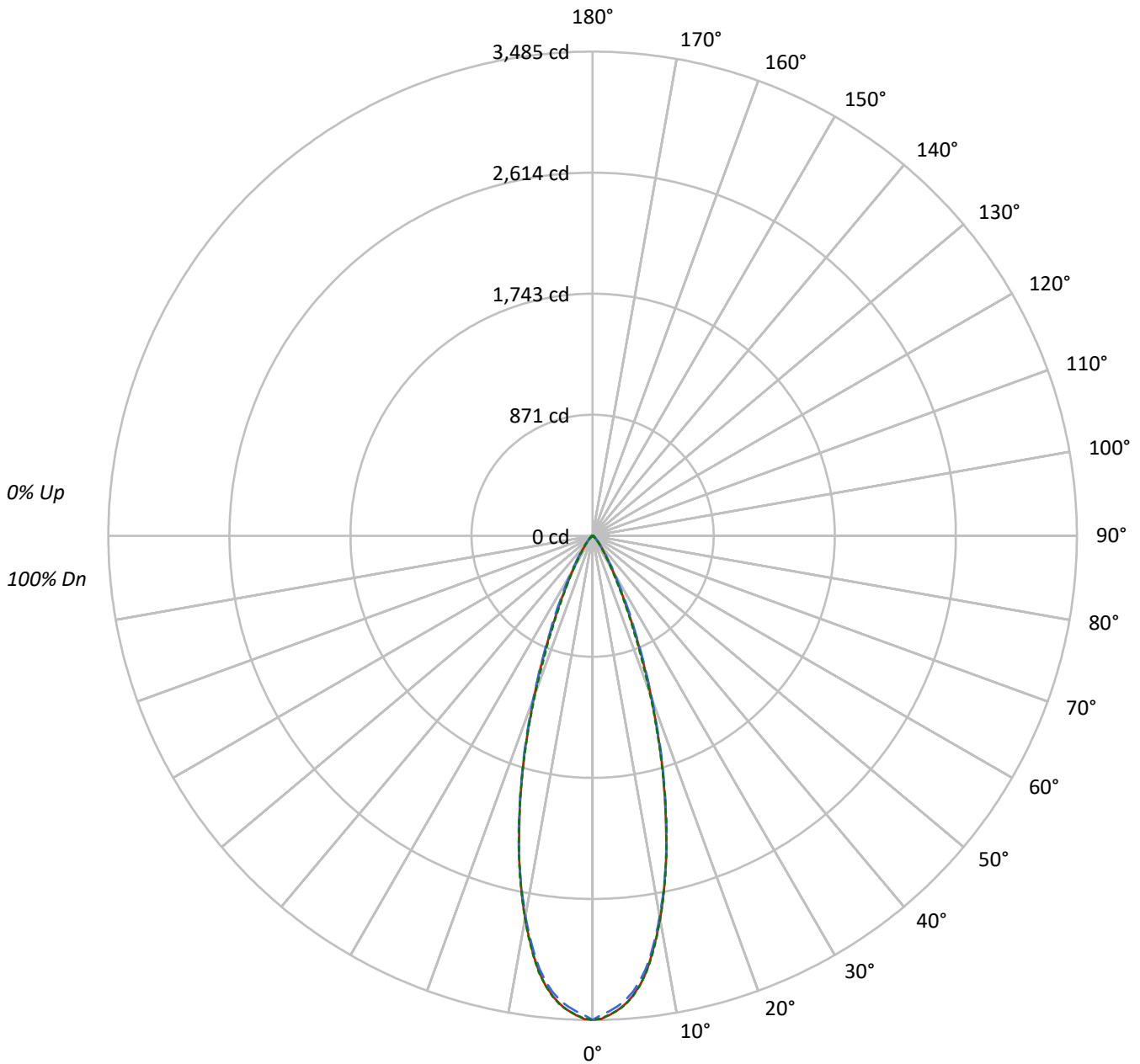
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1719218	1719218	1719218
5°	1645307	1632976	1647833
10°	1401722	1392904	1403174
15°	1033126	1039868	1036497
20°	644940	656858	630712
25°	333151	357484	316439
30°	159740	183097	152220
35°	82453	91246	77153
40°	46178	48560	43859
45°	28118	28118	27071
50°	14583	17960	14583
55°	7569	11956	8171
60°	8683	8683	8683
65°	9456	9456	9456
70°	11684	10530	11684
75°	11247	11247	11247
80°	10512	10512	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	23.0
10°-20°	550.6	42.2
20°-30°	298.5	22.9
30°-40°	95.8	7.3
40°-50°	32.7	2.5
50°-60°	11.4	0.9
60°-70°	8.4	0.6
70°-80°	6.1	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°	1148.8	88.0
0°-40°	1244.6	95.4
0°-60°	1288.7	98.8
0°-90°	1304.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3485	3485	3485	3485	3485	
5°	3322	3302	3297	3330	3327	300
15°	2023	2040	2036	2045	2029	548
25°	612	640	657	611	581	293
35°	137	143	152	138	128	92
45°	40	41	40	40	39	32
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
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°	3484.7	3484.7	3484.7	3484.7	3484.7
1°	3478.9	3454.0	3450.3	3482.5	3475.2
2°	3451.0	3427.6	3423.9	3456.2	3449.6
3°	3420.3	3399.1	3391.7	3425.4	3421.0
4°	3379.3	3359.5	3352.9	3386.6	3383.0
5°	3322.2	3301.7	3297.3	3330.2	3327.3
6°	3251.9	3235.1	3227.0	3260.0	3254.1
7°	3164.1	3148.7	3139.9	3164.1	3167.0
8°	3049.9	3042.5	3032.3	3056.4	3056.4
9°	2928.3	2921.7	2910.8	2932.7	2932.7
10°	2798.0	2793.6	2780.4	2800.9	2800.9
11°	2655.3	2653.1	2643.5	2660.4	2660.4
12°	2505.2	2510.3	2501.5	2516.2	2511.0
13°	2355.1	2352.9	2353.6	2364.6	2356.6
14°	2185.3	2198.4	2200.6	2207.2	2194.8
15°	2022.7	2039.6	2035.9	2045.4	2029.3
16°	1856.6	1875.6	1874.9	1877.1	1861.7
17°	1701.4	1712.3	1713.1	1710.9	1691.8
18°	1535.9	1551.3	1551.3	1547.6	1524.9
19°	1374.1	1385.8	1393.9	1385.8	1359.5
20°	1228.4	1236.5	1251.1	1230.6	1201.3
21°	1088.6	1095.9	1108.4	1084.2	1052.0
22°	954.6	964.2	975.9	948.0	914.4
23°	829.4	851.4	855.8	817.7	789.2
24°	714.5	739.4	746.7	707.9	677.9
25°	612.0	639.8	656.7	611.3	581.3
26°	523.4	550.5	571.0	525.6	497.1
27°	445.8	474.4	495.6	453.2	426.1
28°	379.2	407.0	429.0	389.5	363.8
29°	329.4	345.5	367.5	334.6	311.1
30°	280.4	298.0	321.4	287.7	267.2
32.5°	192.5	202.1	220.4	199.9	183.8
35°	136.9	142.8	151.5	137.6	128.1
37.5°	97.4	100.3	105.4	97.4	92.2
40°	71.7	73.2	75.4	71.0	68.1
42.5°	53.4	54.2	54.2	52.7	51.2
45°	40.3	41.0	40.3	40.3	38.8
47.5°	29.3	31.5	30.7	30.7	28.6
50°	19.0	23.4	23.4	22.7	19.0
52.5°	11.7	16.1	18.3	16.1	12.4
55°	8.8	11.0	13.9	11.0	9.5
57.5°	8.8	8.8	10.2	8.8	8.8
60°	8.8	8.8	8.8	8.8	8.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	7.3	8.1	8.1
72.5°	7.3	7.3	6.6	7.3	6.6
75°	5.9	5.9	5.9	5.9	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	3.7	3.7	3.7
82.5°	2.2	2.2	2.2	2.9	2.2
85°	1.5	1.5	1.5	1.5	1.5
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°	8.8	8.8	8.8	8.8	8.8
65°	8.1	8.8	8.1	8.8	8.1



(END OF REPORT)