

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: P283743

Luminaire Tested: **LDA2B209024D010 EU2B20FL409024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283743
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: LDA2B209024D010 EU2B20FL409024 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: 1224.2 lumens
Efficiency: N/A
Efficacy: 59.4 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

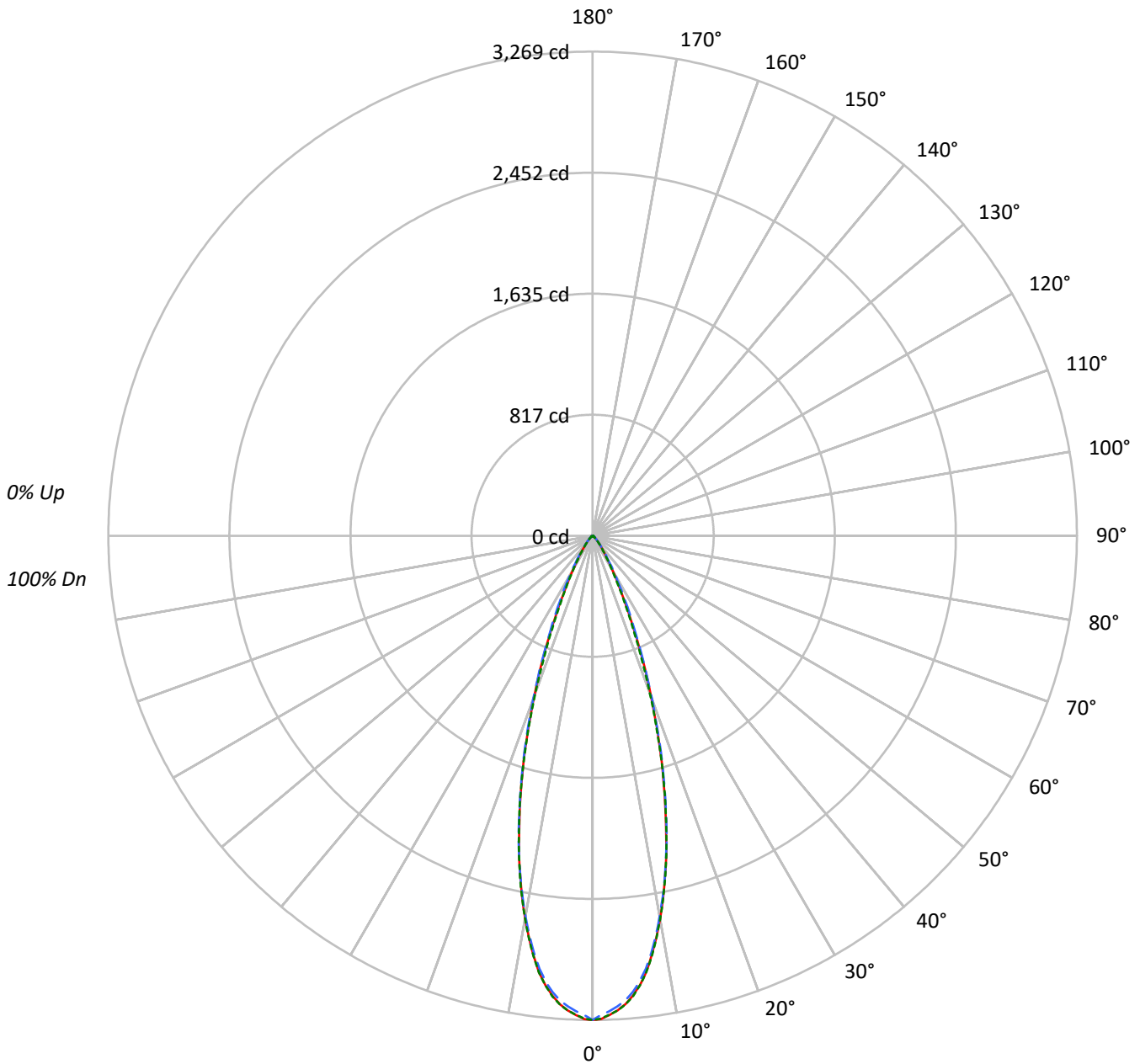
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1612898	1612898	1612898
5°	1543534	1531995	1545911
10°	1315053	1306787	1316406
15°	969229	975563	972396
20°	605091	616221	591703
25°	312574	335383	296842
30°	149827	171760	142820
35°	77333	85645	72394
40°	43344	45533	41154
45°	26374	26374	25397
50°	13739	16886	13739
55°	7053	11182	7655
60°	8091	8091	8091
65°	8872	8872	8872
70°	10963	9953	10963
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	23.0
10°-20°	516.5	42.2
20°-30°	280.0	22.9
30°-40°	89.9	7.3
40°-50°	30.6	2.5
50°-60°	10.7	0.9
60°-70°	7.8	0.6
70°-80°	5.7	0.5
80°-90°	1.6	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°	1077.7	88.0
0°-40°	1167.6	95.4
0°-60°	1209.0	98.8
0°-90°	1224.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3269	3269	3269	3269	3269	
5°	3117	3098	3093	3124	3122	282
15°	1898	1913	1910	1919	1904	514
25°	574	600	616	574	545	275
35°	128	134	142	129	120	86
45°	38	38	38	38	36	30
55°	8	10	13	10	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°	3269.2	3269.2	3269.2	3269.2	3269.2
1°	3263.7	3240.3	3236.9	3267.1	3260.3
2°	3237.6	3215.6	3212.2	3242.4	3236.2
3°	3208.7	3188.8	3182.0	3213.5	3209.4
4°	3170.3	3151.7	3145.6	3177.1	3173.7
5°	3116.7	3097.5	3093.4	3124.3	3121.5
6°	3050.8	3035.0	3027.4	3058.3	3052.8
7°	2968.4	2953.9	2945.7	2968.4	2971.1
8°	2861.2	2854.4	2844.7	2867.4	2867.4
9°	2747.2	2741.0	2730.7	2751.3	2751.3
10°	2625.0	2620.8	2608.5	2627.7	2627.7
11°	2491.0	2489.0	2480.0	2495.8	2495.8
12°	2350.2	2355.0	2346.8	2360.5	2355.7
13°	2209.4	2207.4	2208.1	2218.4	2210.8
14°	2050.1	2062.5	2064.5	2070.7	2059.0
15°	1897.6	1913.4	1910.0	1918.9	1903.8
16°	1741.7	1759.6	1758.9	1761.0	1746.5
17°	1596.1	1606.4	1607.1	1605.1	1587.2
18°	1440.9	1455.3	1455.3	1451.9	1430.6
19°	1289.1	1300.1	1307.7	1300.1	1275.4
20°	1152.5	1160.0	1173.7	1154.5	1127.0
21°	1021.3	1028.1	1039.8	1017.2	986.9
22°	895.6	904.5	915.5	889.4	857.8
23°	778.1	798.8	802.9	767.2	740.4
24°	670.3	693.7	700.5	664.1	636.0
25°	574.2	600.3	616.1	573.5	545.3
26°	491.1	516.5	535.7	493.1	466.3
27°	418.3	445.0	465.0	425.1	399.7
28°	355.8	381.9	402.5	365.4	341.3
29°	309.1	324.2	344.8	313.9	291.9
30°	263.0	279.5	301.5	269.9	250.7
32.5°	180.6	189.6	206.7	187.5	172.4
35°	128.4	133.9	142.2	129.1	120.2
37.5°	91.3	94.1	98.9	91.3	86.5
40°	67.3	68.7	70.7	66.6	63.9
42.5°	50.1	50.8	50.8	49.4	48.1
45°	37.8	38.5	37.8	37.8	36.4
47.5°	27.5	29.5	28.8	28.8	26.8
50°	17.9	22.0	22.0	21.3	17.9
52.5°	11.0	15.1	17.2	15.1	11.7
55°	8.2	10.3	13.0	10.3	8.9
57.5°	8.2	8.2	9.6	8.2	8.2
60°	8.2	8.2	8.2	8.2	8.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.2	6.9	6.2
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.1	2.1	2.1	2.7	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°	8.2	8.2	8.2	8.2	8.2
65°	7.6	8.2	7.6	8.2	7.6



(END OF REPORT)