

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: P283772

Luminaire Tested: **LDA2B209050D010 EU2B20FL409050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283772
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: LDA2B209050D010 EU2B20FL409050 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: 1548.5 lumens
Efficiency: N/A
Efficacy: 75.2 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

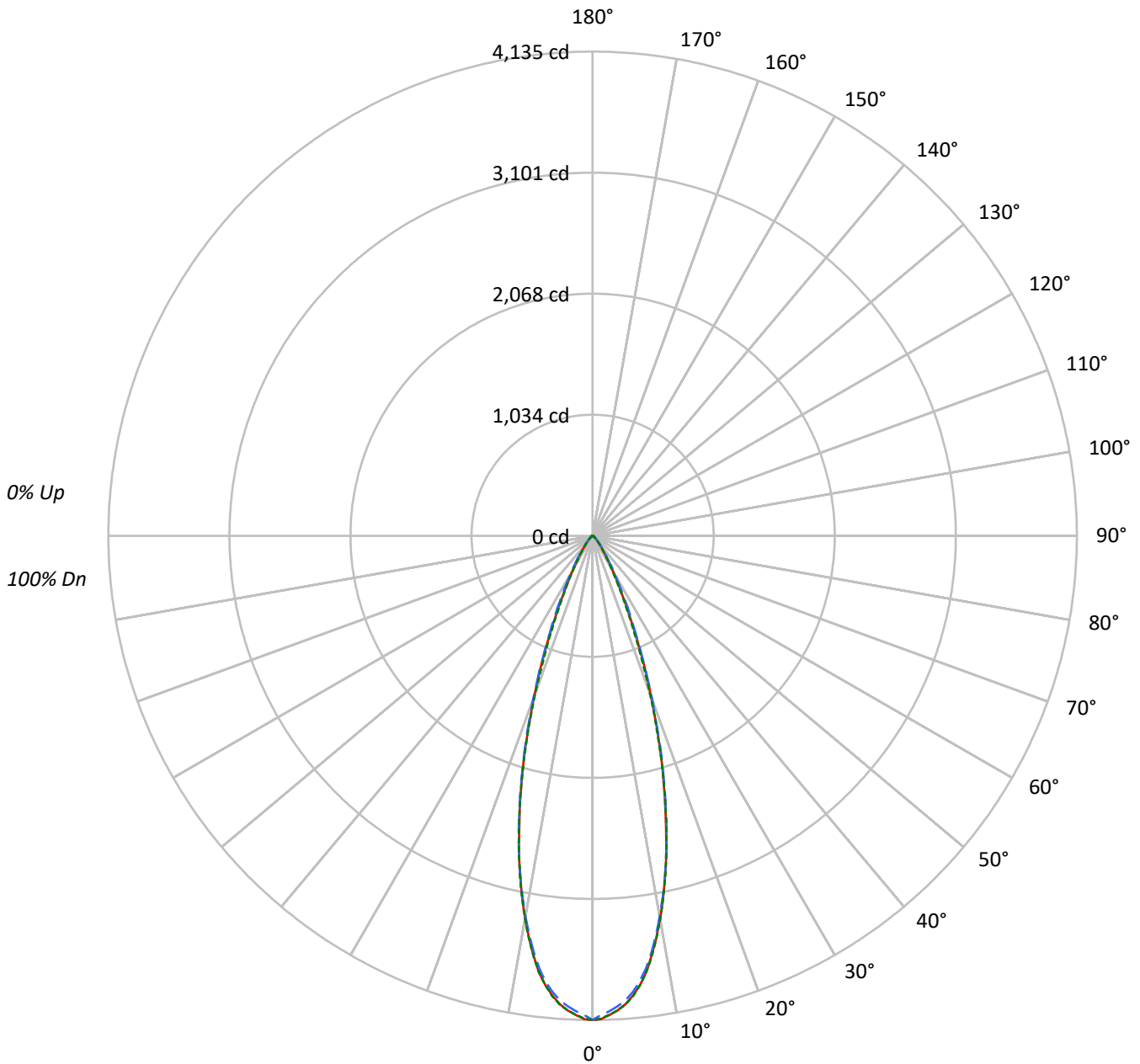
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283772

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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°	2040199	2040199	2040199
5°	1952459	1937849	1955480
10°	1663430	1652959	1665183
15°	1226042	1234010	1230026
20°	765381	779504	748475
25°	395372	424223	375503
30°	189534	217278	180647
35°	97871	108291	91547
40°	54808	57641	52038
45°	33351	33351	32095
50°	17346	21337	17346
55°	8946	14192	9720
60°	10262	10262	10262
65°	11207	11207	11207
70°	13848	12550	13848
75°	13343	13343	13343
80°	12217	12217	12217
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	23.0
10°-20°	653.4	42.2
20°-30°	354.2	22.9
30°-40°	113.7	7.3
40°-50°	38.8	2.5
50°-60°	13.6	0.9
60°-70°	9.9	0.6
70°-80°	7.2	0.5
80°-90°	2.1	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°	1363.3	88.0
0°-40°	1477.0	95.4
0°-60°	1529.3	98.8
0°-90°	1548.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4135	4135	4135	4135	4135	
5°	3942	3918	3913	3952	3948	357
15°	2400	2420	2416	2427	2408	651
25°	726	759	779	725	690	348
35°	162	169	180	163	152	109
45°	48	49	48	48	46	38
55°	10	13	16	13	11	11
65°	10	10	10	10	10	10
75°	7	7	7	7	7	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°	4135.3	4135.3	4135.3	4135.3	4135.3
1°	4128.3	4098.8	4094.4	4132.7	4124.0
2°	4095.3	4067.5	4063.2	4101.4	4093.6
3°	4058.8	4033.6	4024.9	4064.9	4059.7
4°	4010.2	3986.7	3978.9	4018.9	4014.5
5°	3942.4	3918.1	3912.9	3952.0	3948.5
6°	3859.0	3839.0	3829.5	3868.6	3861.6
7°	3754.8	3736.5	3726.1	3754.8	3758.2
8°	3619.2	3610.5	3598.4	3627.1	3627.1
9°	3475.0	3467.2	3454.2	3480.2	3480.2
10°	3320.4	3315.2	3299.5	3323.9	3323.9
11°	3151.0	3148.4	3137.1	3157.1	3157.1
12°	2972.9	2979.0	2968.5	2985.9	2979.8
13°	2794.8	2792.2	2793.0	2806.1	2796.5
14°	2593.2	2608.9	2611.5	2619.3	2604.5
15°	2400.4	2420.4	2416.0	2427.3	2408.2
16°	2203.2	2225.8	2224.9	2227.5	2209.2
17°	2019.0	2032.0	2032.9	2030.3	2007.7
18°	1822.6	1840.9	1840.9	1836.5	1809.6
19°	1630.7	1644.6	1654.1	1644.6	1613.3
20°	1457.8	1467.3	1484.7	1460.4	1425.6
21°	1291.8	1300.5	1315.3	1286.6	1248.4
22°	1132.9	1144.2	1158.1	1125.0	1085.1
23°	984.3	1010.4	1015.6	970.4	936.5
24°	847.9	877.4	886.1	840.1	804.5
25°	726.3	759.3	779.3	725.4	689.8
26°	621.2	653.3	677.6	623.8	589.9
27°	529.1	563.0	588.1	537.8	505.6
28°	450.0	483.0	509.1	462.2	431.8
29°	390.9	410.1	436.1	397.0	369.2
30°	332.7	353.6	381.4	341.4	317.1
32.5°	228.5	239.8	261.5	237.2	218.1
35°	162.5	169.4	179.8	163.3	152.0
37.5°	115.5	119.0	125.1	115.5	109.5
40°	85.1	86.9	89.5	84.3	80.8
42.5°	63.4	64.3	64.3	62.6	60.8
45°	47.8	48.7	47.8	47.8	46.0
47.5°	34.8	37.4	36.5	36.5	33.9
50°	22.6	27.8	27.8	26.9	22.6
52.5°	13.9	19.1	21.7	19.1	14.8
55°	10.4	13.0	16.5	13.0	11.3
57.5°	10.4	10.4	12.2	10.4	10.4
60°	10.4	10.4	10.4	10.4	10.4



TEST NUMBER: P283772

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.6	9.6	9.6	9.6	9.6
70°	9.6	9.6	8.7	9.6	9.6
72.5°	8.7	8.7	7.8	8.7	7.8
75°	7.0	7.0	7.0	7.0	7.0
77.5°	5.2	5.2	5.2	5.2	5.2
80°	4.3	4.3	4.3	4.3	4.3
82.5°	2.6	2.6	2.6	3.5	2.6
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	10.4	10.4	10.4	10.4	10.4
65°	9.6	10.4	9.6	10.4	9.6



(END OF REPORT)