

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: P283731

Luminaire Tested: **LDA2B208040D010 EU2B20FL408040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283731
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: LDA2B208040D010 EU2B20FL408040 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: 1795.5 lumens
Efficiency: N/A
Efficacy: 87.2 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

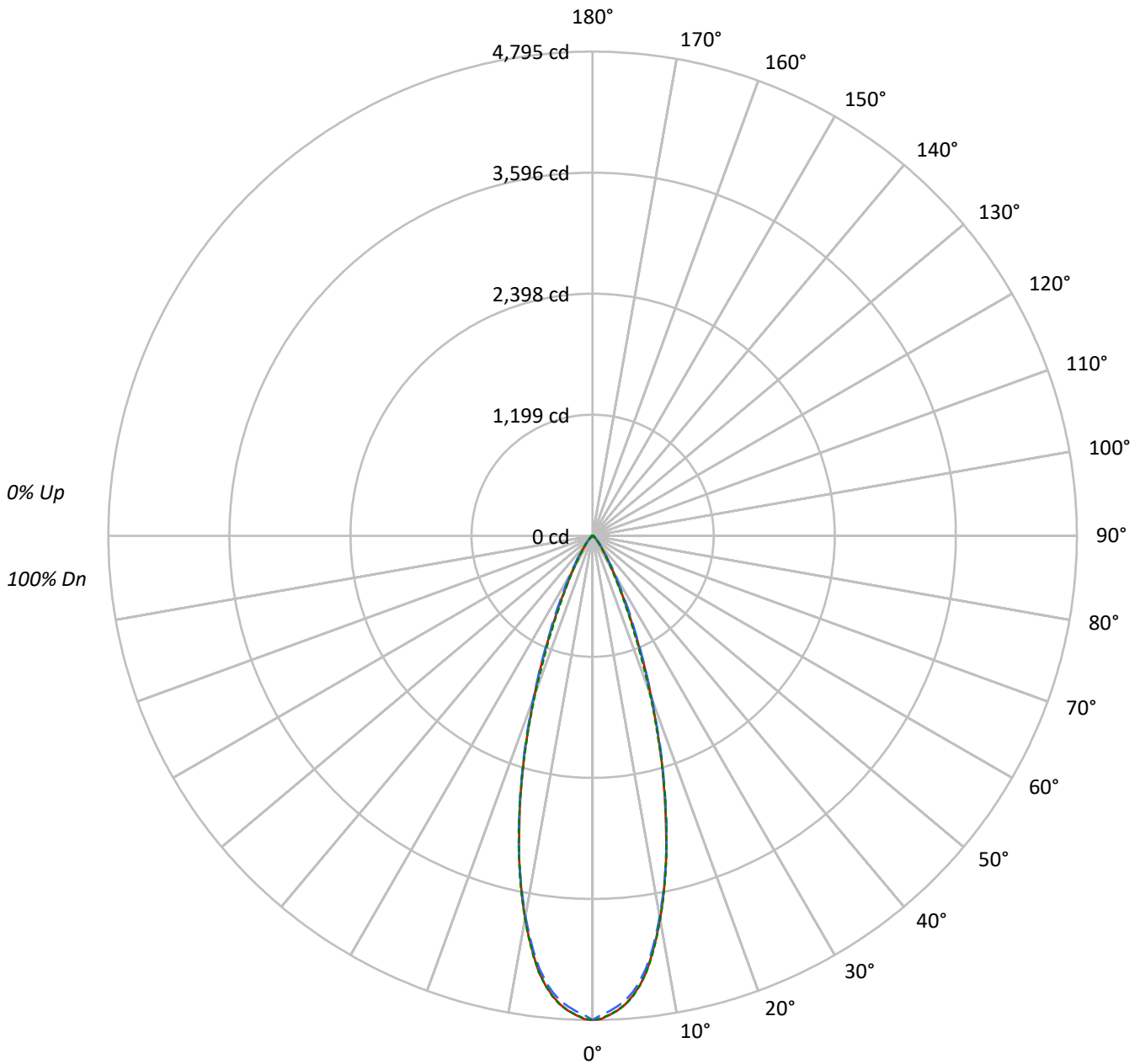
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2365719	2365719	2365719
5°	2264019	2247032	2267485
10°	1928845	1916722	1930849
15°	1421665	1430910	1426313
20°	887502	903882	867918
25°	458464	491888	435437
30°	219785	251915	209473
35°	113470	125576	106183
40°	63567	66851	60346
45°	38654	38654	37258
50°	20109	24715	20109
55°	10408	16429	11268
60°	11939	11939	11939
65°	12958	12958	12958
70°	16012	14569	16012
75°	15440	15440	15440
80°	14206	14206	14206
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	23.0
10°-20°	757.6	42.2
20°-30°	410.7	22.9
30°-40°	131.8	7.3
40°-50°	44.9	2.5
50°-60°	15.7	0.9
60°-70°	11.5	0.6
70°-80°	8.4	0.5
80°-90°	2.4	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°	1580.8	88.0
0°-40°	1712.6	95.4
0°-60°	1773.3	98.8
0°-90°	1795.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4795	4795	4795	4795	4795	
5°	4572	4543	4537	4583	4578	413
15°	2783	2807	2802	2815	2792	755
25°	842	880	904	841	800	404
35°	188	196	208	189	176	127
45°	55	56	55	55	53	44
55°	12	15	19	15	13	13
65°	11	12	11	12	11	11
75°	8	8	8	8	8	9
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°	4795.1	4795.1	4795.1	4795.1	4795.1
1°	4787.1	4752.8	4747.8	4792.1	4782.0
2°	4748.8	4716.6	4711.5	4755.8	4746.8
3°	4706.5	4677.3	4667.2	4713.5	4707.5
4°	4650.1	4622.9	4613.8	4660.1	4655.1
5°	4571.5	4543.3	4537.2	4582.6	4578.5
6°	4474.8	4451.6	4440.5	4485.9	4477.8
7°	4353.9	4332.7	4320.7	4353.9	4357.9
8°	4196.7	4186.7	4172.6	4205.8	4205.8
9°	4029.5	4020.5	4005.3	4035.6	4035.6
10°	3850.2	3844.2	3826.0	3854.2	3854.2
11°	3653.8	3650.7	3637.6	3660.8	3660.8
12°	3447.3	3454.3	3442.2	3462.4	3455.3
13°	3240.7	3237.7	3238.7	3253.8	3242.8
14°	3007.0	3025.2	3028.2	3037.2	3020.1
15°	2783.4	2806.6	2801.5	2814.6	2792.5
16°	2554.7	2580.9	2579.9	2582.9	2561.8
17°	2341.2	2356.3	2357.3	2354.2	2328.1
18°	2113.5	2134.6	2134.6	2129.6	2098.4
19°	1890.9	1907.0	1918.1	1907.0	1870.7
20°	1690.4	1701.5	1721.6	1693.4	1653.1
21°	1498.0	1508.0	1525.2	1491.9	1447.6
22°	1313.6	1326.7	1342.8	1304.6	1258.2
23°	1141.4	1171.6	1177.6	1125.2	1086.0
24°	983.2	1017.5	1027.5	974.1	932.8
25°	842.2	880.4	903.6	841.2	799.9
26°	720.3	757.5	785.8	723.3	684.0
27°	613.5	652.8	682.0	623.6	586.3
28°	521.8	560.1	590.3	535.9	500.7
29°	453.3	475.5	505.7	460.4	428.1
30°	385.8	410.0	442.2	395.9	367.7
32.5°	264.9	278.0	303.2	275.0	252.9
35°	188.4	196.4	208.5	189.4	176.3
37.5°	134.0	138.0	145.1	134.0	126.9
40°	98.7	100.7	103.8	97.7	93.7
42.5°	73.5	74.5	74.5	72.5	70.5
45°	55.4	56.4	55.4	55.4	53.4
47.5°	40.3	43.3	42.3	42.3	39.3
50°	26.2	32.2	32.2	31.2	26.2
52.5°	16.1	22.2	25.2	22.2	17.1
55°	12.1	15.1	19.1	15.1	13.1
57.5°	12.1	12.1	14.1	12.1	12.1
60°	12.1	12.1	12.1	12.1	12.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	<i>11.1</i>	11.1	11.1	11.1	11.1
70°	<i>11.1</i>	11.1	10.1	11.1	11.1
72.5°	<i>10.1</i>	10.1	9.1	10.1	9.1
75°	<i>8.1</i>	8.1	8.1	8.1	8.1
77.5°	<i>6.0</i>	6.0	6.0	6.0	6.0
80°	<i>5.0</i>	5.0	5.0	5.0	5.0
82.5°	<i>3.0</i>	3.0	3.0	4.0	3.0
85°	<i>2.0</i>	2.0	2.0	2.0	2.0
87.5°	<i>1.0</i>	1.0	1.0	1.0	1.0
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



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







62.5°	12.1	12.1	12.1	12.1	12.1
65°	11.1	12.1	11.1	12.1	11.1



(END OF REPORT)