

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: P283719

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283719
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: LDA2B208030D010 EU2B20FL408030 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: 1706.1 lumens
Efficiency: N/A
Efficacy: 82.8 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

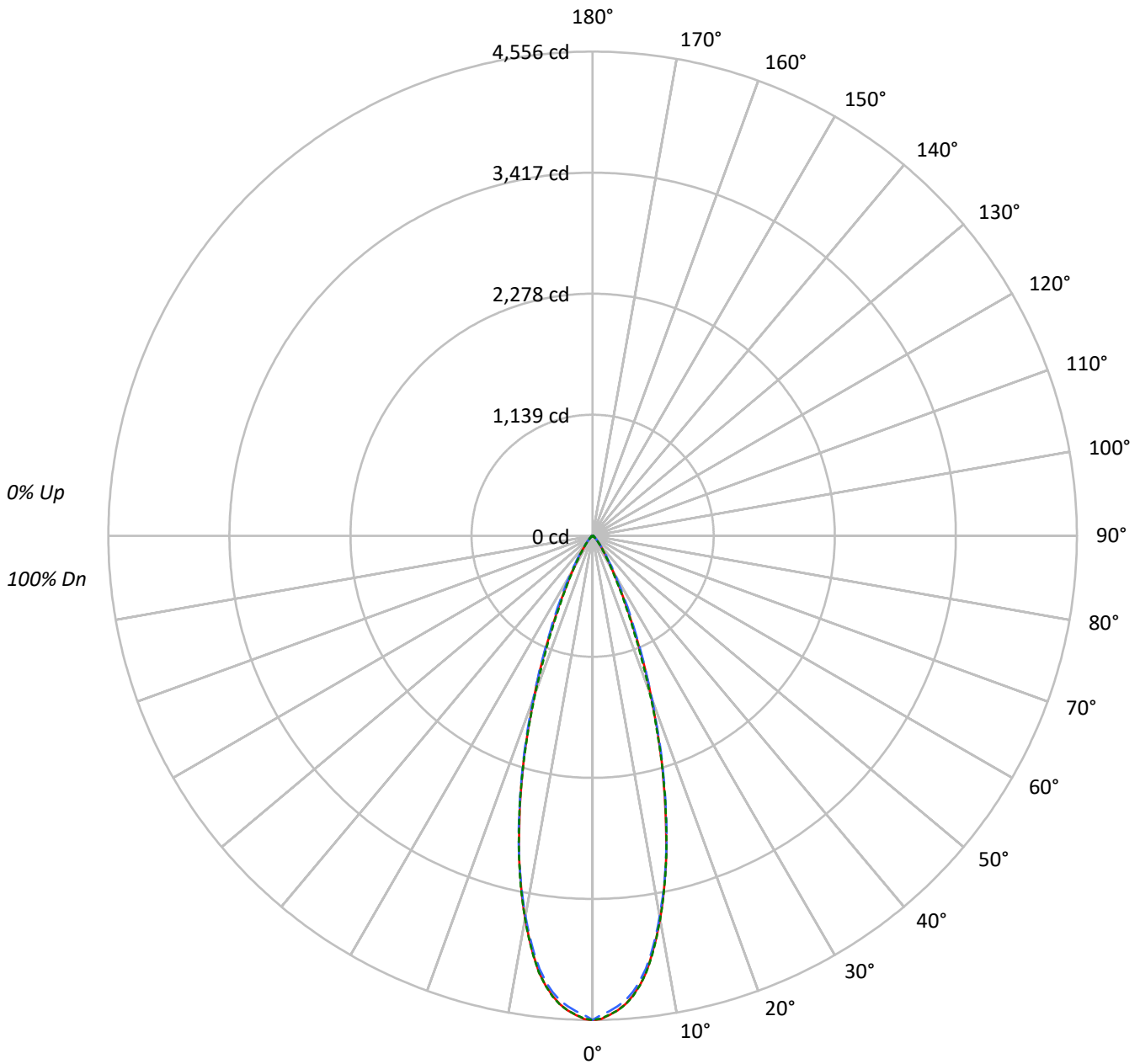
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2247855	2247855	2247855
5°	2151202	2135057	2154520
10°	1832708	1821186	1834612
15°	1350822	1359607	1355215
20°	843242	858835	824656
25°	435600	467391	413717
30°	208847	239382	199048
35°	107809	119312	100882
40°	60411	63502	57319
45°	36700	36700	35374
50°	19112	23487	19112
55°	9892	15655	10666
60°	11347	11347	11347
65°	12258	12258	12258
70°	15146	13848	15146
75°	14678	14678	14678
80°	13638	13638	13638
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.9	23.0
10°-20°	719.9	42.2
20°-30°	390.3	22.9
30°-40°	125.3	7.3
40°-50°	42.7	2.5
50°-60°	15.0	0.9
60°-70°	10.9	0.6
70°-80°	8.0	0.5
80°-90°	2.3	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°	1502.0	88.0
0°-40°	1627.3	95.4
0°-60°	1684.9	98.8
0°-90°	1706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4556	4556	4556	4556	4556	
5°	4344	4317	4311	4354	4350	393
15°	2645	2667	2662	2674	2653	717
25°	800	837	859	799	760	384
35°	179	187	198	180	168	121
45°	53	54	53	53	51	42
55°	12	14	18	14	12	13
65°	10	12	10	12	10	11
75°	8	8	8	8	8	8
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°	4556.2	4556.2	4556.2	4556.2	4556.2
1°	4548.5	4515.9	4511.2	4553.3	4543.7
2°	4512.1	4481.5	4476.7	4518.8	4510.2
3°	4471.9	4444.2	4434.6	4478.6	4472.9
4°	4418.3	4392.5	4383.9	4427.9	4423.1
5°	4343.7	4316.9	4311.1	4354.2	4350.4
6°	4251.8	4229.8	4219.2	4262.3	4254.6
7°	4136.9	4116.8	4105.3	4136.9	4140.7
8°	3987.6	3978.0	3964.6	3996.2	3996.2
9°	3828.7	3820.1	3805.7	3834.4	3834.4
10°	3658.3	3652.6	3635.3	3662.1	3662.1
11°	3471.7	3468.8	3456.4	3478.4	3478.4
12°	3275.5	3282.2	3270.7	3289.8	3283.1
13°	3079.2	3076.4	3077.3	3091.7	3081.1
14°	2857.2	2874.4	2877.3	2885.9	2869.6
15°	2644.7	2666.7	2661.9	2674.3	2653.3
16°	2427.4	2452.3	2451.3	2454.2	2434.1
17°	2224.5	2238.8	2239.8	2236.9	2212.0
18°	2008.2	2028.3	2028.3	2023.5	1993.8
19°	1796.6	1811.9	1822.5	1811.9	1777.5
20°	1606.1	1616.7	1635.8	1609.0	1570.7
21°	1423.3	1432.9	1449.2	1417.6	1375.5
22°	1248.2	1260.6	1275.9	1239.5	1195.5
23°	1084.5	1113.2	1118.9	1069.2	1031.8
24°	934.2	966.7	976.3	925.6	886.3
25°	800.2	836.6	858.6	799.2	760.0
26°	684.4	719.8	746.6	687.3	649.9
27°	582.9	620.2	648.0	592.5	557.1
28°	495.8	532.2	560.9	509.2	475.7
29°	430.7	451.8	480.5	437.4	406.8
30°	366.6	389.6	420.2	376.2	349.4
32.5°	251.7	264.2	288.1	261.3	240.3
35°	179.0	186.6	198.1	179.9	167.5
37.5°	127.3	131.1	137.8	127.3	120.6
40°	93.8	95.7	98.6	92.8	89.0
42.5°	69.9	70.8	70.8	68.9	67.0
45°	52.6	53.6	52.6	52.6	50.7
47.5°	38.3	41.2	40.2	40.2	37.3
50°	24.9	30.6	30.6	29.7	24.9
52.5°	15.3	21.1	23.9	21.1	16.3
55°	11.5	14.4	18.2	14.4	12.4
57.5°	11.5	11.5	13.4	11.5	11.5
60°	11.5	11.5	11.5	11.5	11.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.5	10.5	10.5	10.5	10.5
70°	10.5	10.5	9.6	10.5	10.5
72.5°	9.6	9.6	8.6	9.6	8.6
75°	7.7	7.7	7.7	7.7	7.7
77.5°	5.7	5.7	5.7	5.7	5.7
80°	4.8	4.8	4.8	4.8	4.8
82.5°	2.9	2.9	2.9	3.8	2.9
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	11.5	11.5	11.5	11.5	11.5
65°	10.5	11.5	10.5	11.5	10.5



(END OF REPORT)