

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: P283536

Luminaire Tested: **LDA2B059730D010 EU2B05FL409730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283536
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: LDA2B059730D010 EU2B05FL409730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 471.7 lumens
Efficiency: N/A
Efficacy: 67.4 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

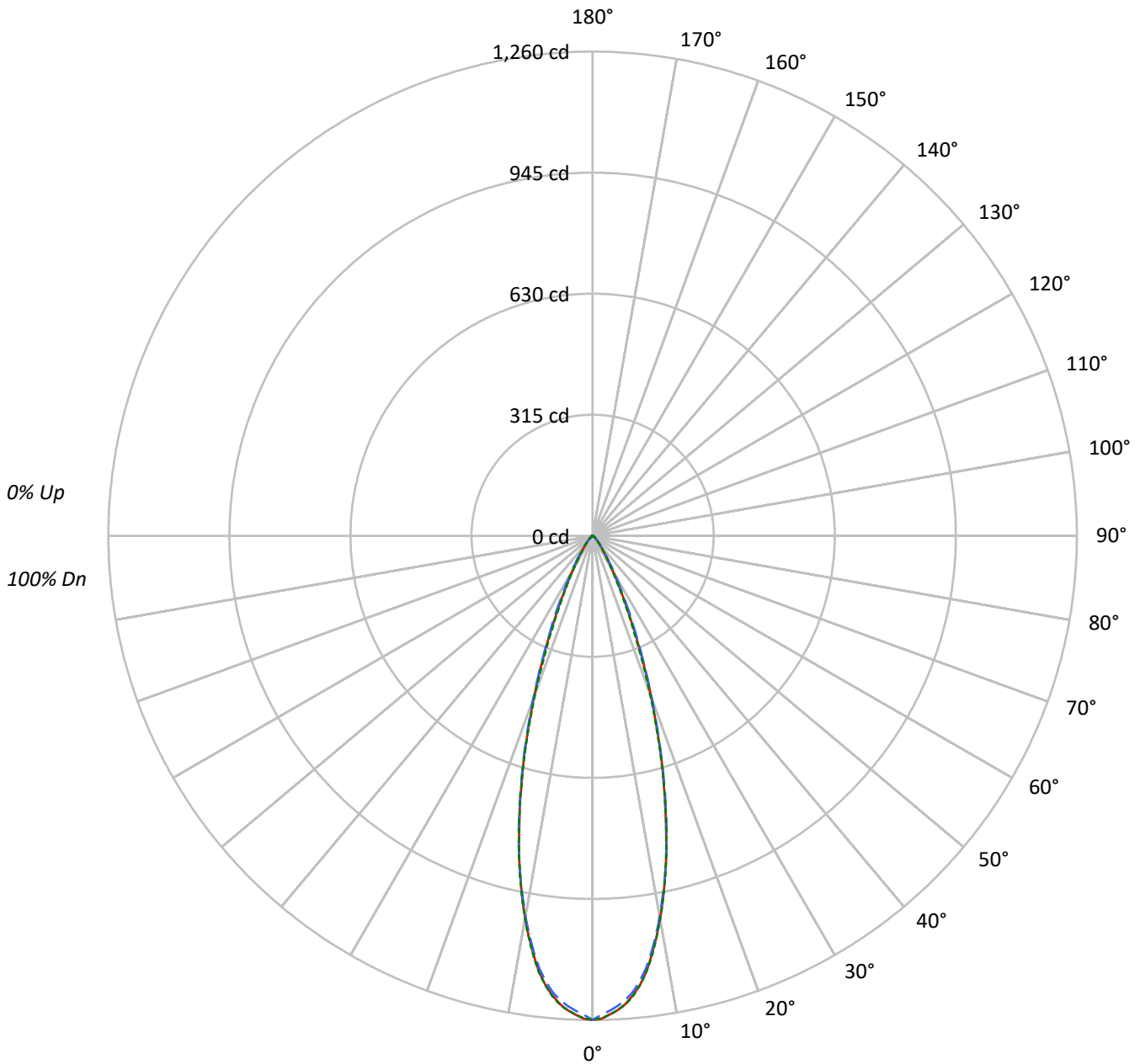
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283536

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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°	621488	621488	621488
5°	594741	590284	595682
10°	506684	503528	507235
15°	373472	375924	374698
20°	233163	237469	228018
25°	120413	129232	114371
30°	57766	66197	55032
35°	29813	33005	27886
40°	16681	17582	15843
45°	10187	10187	9768
50°	5296	6524	5296
55°	2752	4301	2925
60°	3158	3158	3158
65°	3385	3385	3385
70°	4183	3750	4183
75°	4003	4003	4003
80°	3694	3694	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	23.0
10°-20°	199.0	42.2
20°-30°	107.9	22.9
30°-40°	34.6	7.3
40°-50°	11.8	2.5
50°-60°	4.1	0.9
60°-70°	3.0	0.6
70°-80°	2.2	0.5
80°-90°	0.6	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°	415.3	88.0
0°-40°	449.9	95.4
0°-60°	465.9	98.8
0°-90°	471.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1201	1194	1192	1204	1203	109
15°	731	737	736	739	734	198
25°	221	231	237	221	210	106
35°	50	52	55	50	46	33
45°	15	15	15	15	14	12
55°	3	4	5	4	3	3
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.7	1259.7	1259.7	1259.7	1259.7
1°	1257.5	1248.6	1247.2	1258.9	1256.2
2°	1247.5	1239.0	1237.7	1249.3	1247.0
3°	1236.4	1228.7	1226.1	1238.2	1236.6
4°	1221.6	1214.4	1212.0	1224.2	1222.9
5°	1200.9	1193.5	1191.9	1203.8	1202.8
6°	1175.5	1169.4	1166.5	1178.4	1176.3
7°	1143.8	1138.2	1135.0	1143.8	1144.8
8°	1102.5	1099.8	1096.1	1104.9	1104.9
9°	1058.5	1056.2	1052.2	1060.1	1060.1
10°	1011.4	1009.8	1005.1	1012.5	1012.5
11°	959.8	959.0	955.6	961.7	961.7
12°	905.6	907.4	904.3	909.6	907.7
13°	851.3	850.5	850.8	854.8	851.9
14°	789.9	794.7	795.5	797.9	793.4
15°	731.2	737.3	736.0	739.4	733.6
16°	671.1	678.0	677.7	678.5	673.0
17°	615.0	619.0	619.2	618.5	611.6
18°	555.2	560.8	560.8	559.4	551.2
19°	496.7	501.0	503.9	501.0	491.4
20°	444.1	447.0	452.3	444.9	434.3
21°	393.5	396.2	400.7	391.9	380.3
22°	345.1	348.5	352.8	342.7	330.5
23°	299.8	307.8	309.4	295.6	285.3
24°	258.3	267.3	269.9	255.9	245.1
25°	221.2	231.3	237.4	221.0	210.1
26°	189.2	199.0	206.4	190.0	179.7
27°	161.2	171.5	179.2	163.8	154.0
28°	137.1	147.1	155.1	140.8	131.5
29°	119.1	124.9	132.8	120.9	112.5
30°	101.4	107.7	116.2	104.0	96.6
32.5°	69.6	73.0	79.7	72.2	66.4
35°	49.5	51.6	54.8	49.8	46.3
37.5°	35.2	36.3	38.1	35.2	33.3
40°	25.9	26.5	27.3	25.7	24.6
42.5°	19.3	19.6	19.6	19.1	18.5
45°	14.6	14.8	14.6	14.6	14.0
47.5°	10.6	11.4	11.1	11.1	10.3
50°	6.9	8.5	8.5	8.2	6.9
52.5°	4.2	5.8	6.6	5.8	4.5
55°	3.2	4.0	5.0	4.0	3.4
57.5°	3.2	3.2	3.7	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P283536

CATALOG NUMBER: LDA2B059730D010 EU2B05FL409730 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.4	2.6	2.4
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.9	3.2	2.9	3.2	2.9



(END OF REPORT)