

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: P283529

Luminaire Tested: **LDA2B059727D010 EU2B05FL409727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283529
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: LDA2B059727D010 EU2B05FL409727 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 460.1 lumens
Efficiency: N/A
Efficacy: 65.7 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

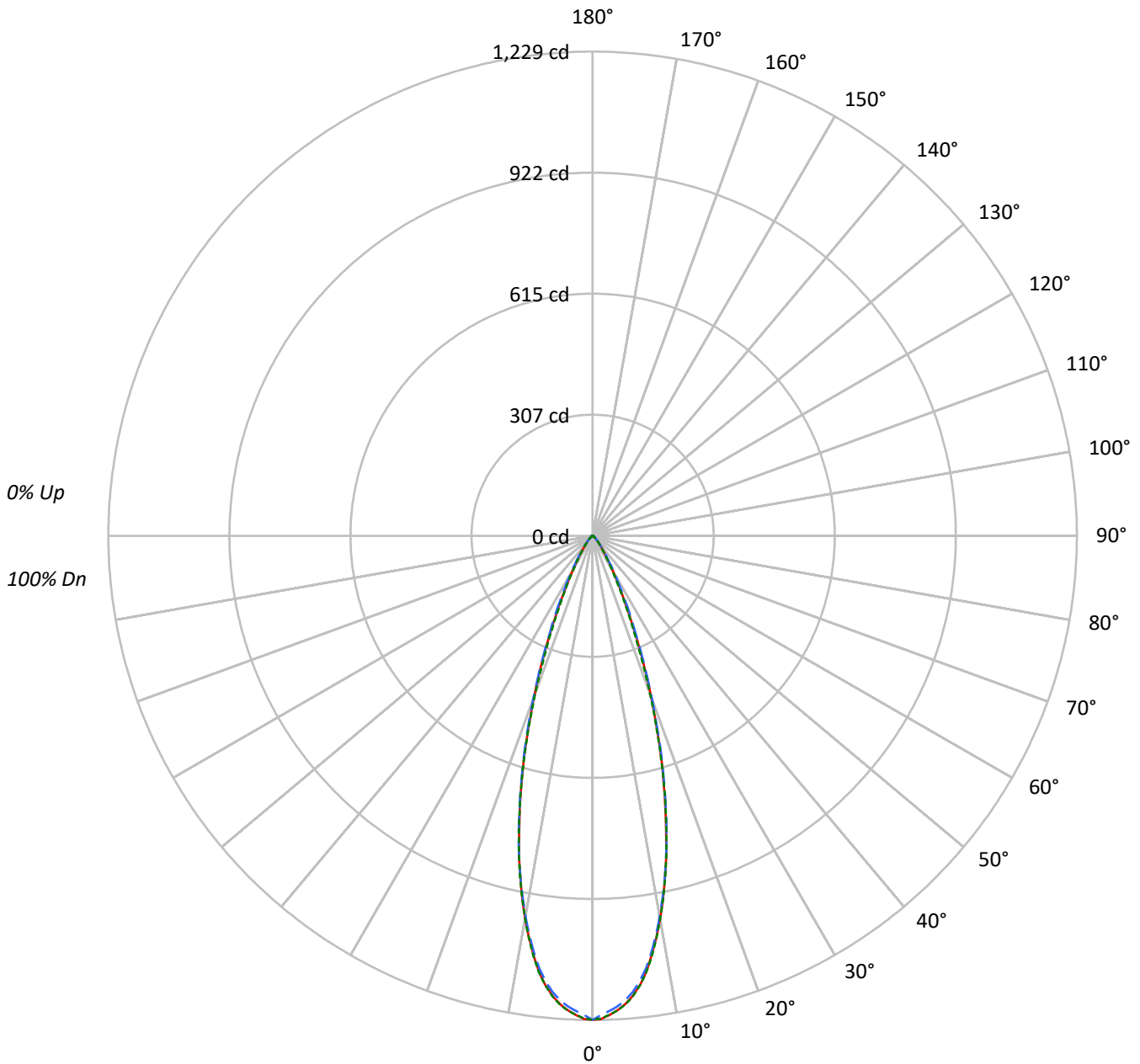
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	606292	606292	606292
5°	580231	575872	581122
10°	494310	491204	494811
15°	364329	366730	365504
20°	227441	231641	222453
25°	117474	126075	111595
30°	56342	64545	53664
35°	29090	32162	27223
40°	16294	17131	15457
45°	9908	9908	9559
50°	5142	6371	5142
55°	2666	4215	2925
60°	3059	3059	3059
65°	3269	3269	3269
70°	4039	3750	4039
75°	4003	4003	4003
80°	3694	3694	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	23.0
10°-20°	194.2	42.2
20°-30°	105.3	22.9
30°-40°	33.8	7.3
40°-50°	11.5	2.5
50°-60°	4.0	0.9
60°-70°	2.9	0.6
70°-80°	2.1	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°	405.1	88.0
0°-40°	438.9	95.4
0°-60°	454.5	98.8
0°-90°	460.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	460.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1172	1164	1163	1174	1173	106
15°	713	719	718	721	716	193
25°	216	226	232	216	205	103
35°	48	50	53	48	45	33
45°	14	14	14	14	14	11
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°	1228.9	1228.9	1228.9	1228.9	1228.9
1°	1226.8	1218.0	1216.7	1228.1	1225.5
2°	1217.0	1208.7	1207.4	1218.8	1216.5
3°	1206.2	1198.7	1196.1	1208.0	1206.4
4°	1191.7	1184.7	1182.4	1194.3	1193.0
5°	1171.6	1164.3	1162.8	1174.4	1173.4
6°	1146.8	1140.8	1138.0	1149.6	1147.5
7°	1115.8	1110.4	1107.3	1115.8	1116.8
8°	1075.5	1072.9	1069.3	1077.8	1077.8
9°	1032.7	1030.3	1026.5	1034.2	1034.2
10°	986.7	985.2	980.5	987.7	987.7
11°	936.4	935.6	932.2	938.2	938.2
12°	883.4	885.3	882.2	887.3	885.5
13°	830.5	829.7	830.0	833.9	831.0
14°	770.6	775.3	776.0	778.4	774.0
15°	713.3	719.3	718.0	721.3	715.6
16°	654.7	661.4	661.2	661.9	656.5
17°	600.0	603.9	604.1	603.3	596.6
18°	541.6	547.1	547.1	545.8	537.8
19°	484.6	488.7	491.5	488.7	479.4
20°	433.2	436.0	441.2	434.0	423.7
21°	383.9	386.5	390.9	382.3	371.0
22°	336.6	340.0	344.1	334.3	322.4
23°	292.5	300.2	301.8	288.4	278.3
24°	252.0	260.7	263.3	249.6	239.1
25°	215.8	225.6	231.6	215.6	205.0
26°	184.6	194.1	201.4	185.4	175.3
27°	157.2	167.3	174.8	159.8	150.3
28°	133.7	143.5	151.3	137.3	128.3
29°	116.2	121.9	129.6	118.0	109.7
30°	98.9	105.1	113.3	101.5	94.2
32.5°	67.9	71.3	77.7	70.5	64.8
35°	48.3	50.3	53.4	48.5	45.2
37.5°	34.3	35.4	37.2	34.3	32.5
40°	25.3	25.8	26.6	25.0	24.0
42.5°	18.8	19.1	19.1	18.6	18.1
45°	14.2	14.5	14.2	14.2	13.7
47.5°	10.3	11.1	10.8	10.8	10.1
50°	6.7	8.3	8.3	8.0	6.7
52.5°	4.1	5.7	6.5	5.7	4.4
55°	3.1	3.9	4.9	3.9	3.4
57.5°	3.1	3.1	3.6	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.6	2.8	2.8
72.5°	2.6	2.6	2.3	2.6	2.3
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.8	0.8	0.8	1.0	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°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	2.8	3.1	2.8



(END OF REPORT)