

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: P283508

Luminaire Tested: **LDA2B059035D010 EU2B05FL409035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283508
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: LDA2B059035D010 EU2B05FL409035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 586.9 lumens
Efficiency: N/A
Efficacy: 83.8 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

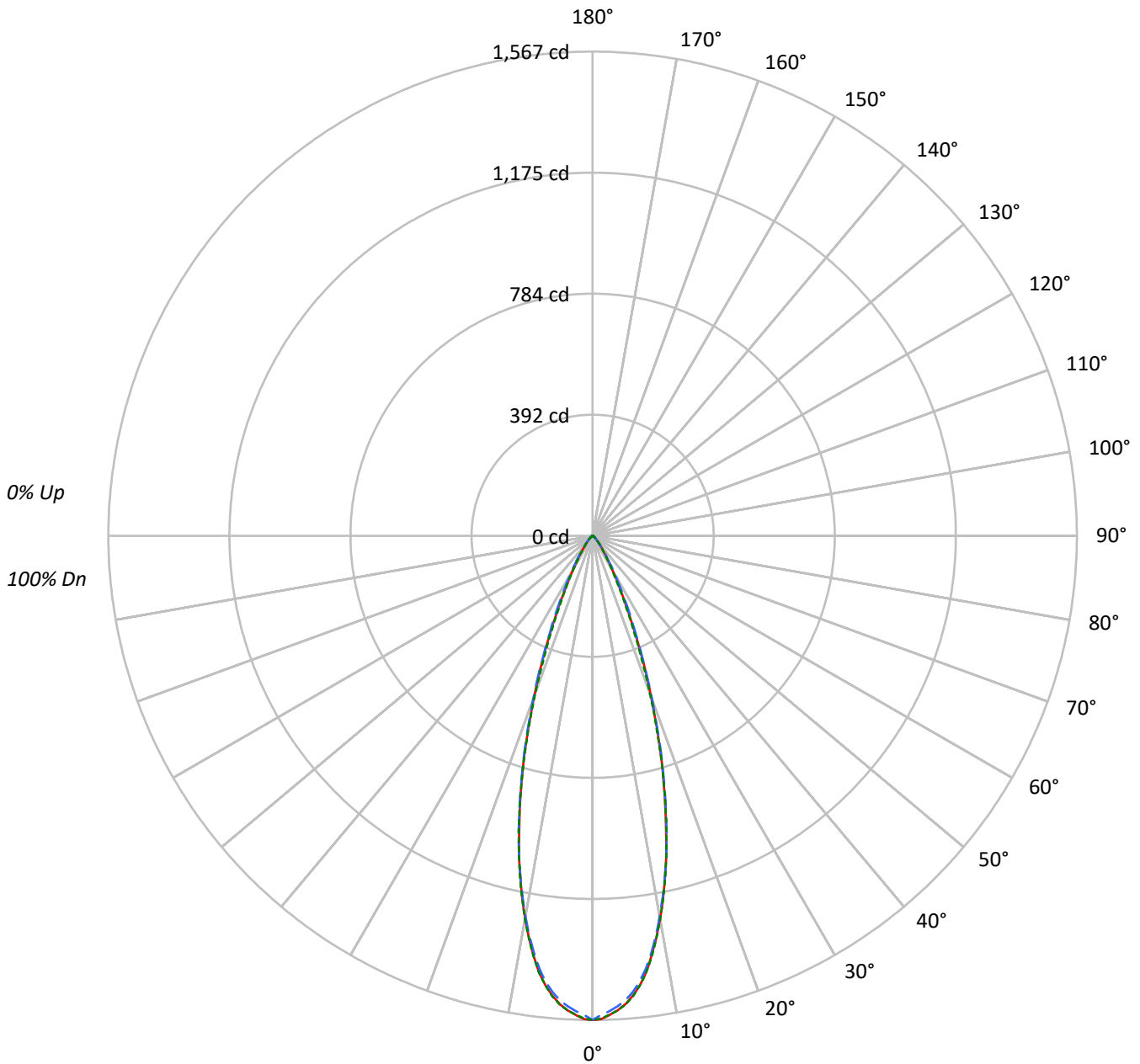
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	773197	773197	773197
5°	739948	734401	741087
10°	630424	626466	631075
15°	464644	467657	466176
20°	290076	295431	283671
25°	149809	160751	142297
30°	71837	82320	68476
35°	37101	41076	34692
40°	20802	21833	19708
45°	12629	12629	12210
50°	6601	8059	6601
55°	3441	5419	3699
60°	3947	3947	3947
65°	4203	4203	4203
70°	5193	4760	5193
75°	4956	4956	4956
80°	4546	4546	4546
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	23.0
10°-20°	247.6	42.2
20°-30°	134.2	22.9
30°-40°	43.1	7.3
40°-50°	14.7	2.5
50°-60°	5.2	0.9
60°-70°	3.8	0.6
70°-80°	2.7	0.5
80°-90°	0.8	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°	516.7	88.0
0°-40°	559.8	95.4
0°-60°	579.6	98.8
0°-90°	586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1494	1485	1483	1498	1496	135
15°	910	917	916	920	913	247
25°	275	288	295	275	261	132
35°	62	64	68	62	58	41
45°	18	18	18	18	18	14
55°	4	5	6	5	4	4
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.2	1567.2	1567.2	1567.2	1567.2
1°	1564.6	1553.4	1551.7	1566.2	1562.9
2°	1552.1	1541.5	1539.9	1554.4	1551.4
3°	1538.2	1528.7	1525.4	1540.5	1538.6
4°	1519.8	1510.9	1507.9	1523.1	1521.4
5°	1494.1	1484.9	1482.9	1497.7	1496.4
6°	1462.5	1454.9	1451.3	1466.1	1463.5
7°	1423.0	1416.1	1412.1	1423.0	1424.3
8°	1371.6	1368.3	1363.7	1374.6	1374.6
9°	1317.0	1314.0	1309.1	1319.0	1319.0
10°	1258.4	1256.4	1250.5	1259.7	1259.7
11°	1194.2	1193.2	1188.9	1196.5	1196.5
12°	1126.7	1129.0	1125.0	1131.6	1129.3
13°	1059.2	1058.2	1058.5	1063.5	1059.8
14°	982.8	988.7	989.7	992.7	987.1
15°	909.7	917.3	915.6	919.9	912.7
16°	835.0	843.5	843.2	844.2	837.3
17°	765.2	770.1	770.4	769.4	760.9
18°	690.8	697.7	697.7	696.0	685.8
19°	618.0	623.3	626.9	623.3	611.4
20°	552.5	556.1	562.7	553.5	540.3
21°	489.6	492.9	498.5	487.6	473.1
22°	429.3	433.6	438.9	426.4	411.2
23°	373.0	382.9	384.9	367.8	354.9
24°	321.3	332.5	335.8	318.4	304.9
25°	275.2	287.8	295.3	274.9	261.4
26°	235.4	247.6	256.8	236.4	223.6
27°	200.5	213.4	222.9	203.8	191.6
28°	170.5	183.1	192.9	175.2	163.6
29°	148.2	155.4	165.3	150.5	139.9
30°	126.1	134.0	144.5	129.4	120.2
32.5°	86.6	90.9	99.1	89.9	82.6
35°	61.6	64.2	68.2	61.9	57.6
37.5°	43.8	45.1	47.4	43.8	41.5
40°	32.3	32.9	33.9	31.9	30.6
42.5°	24.0	24.4	24.4	23.7	23.0
45°	18.1	18.4	18.1	18.1	17.5
47.5°	13.2	14.2	13.8	13.8	12.8
50°	8.6	10.5	10.5	10.2	8.6
52.5°	5.3	7.2	8.2	7.2	5.6
55°	4.0	4.9	6.3	4.9	4.3
57.5°	4.0	4.0	4.6	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	3.0	3.3	3.0
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.0	1.0	1.0	1.3	1.0
85°	0.7	0.7	0.7	0.7	0.7
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°	4.0	4.0	4.0	4.0	4.0
65°	3.6	4.0	3.6	4.0	3.6



(END OF REPORT)