

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: P282153

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 558.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

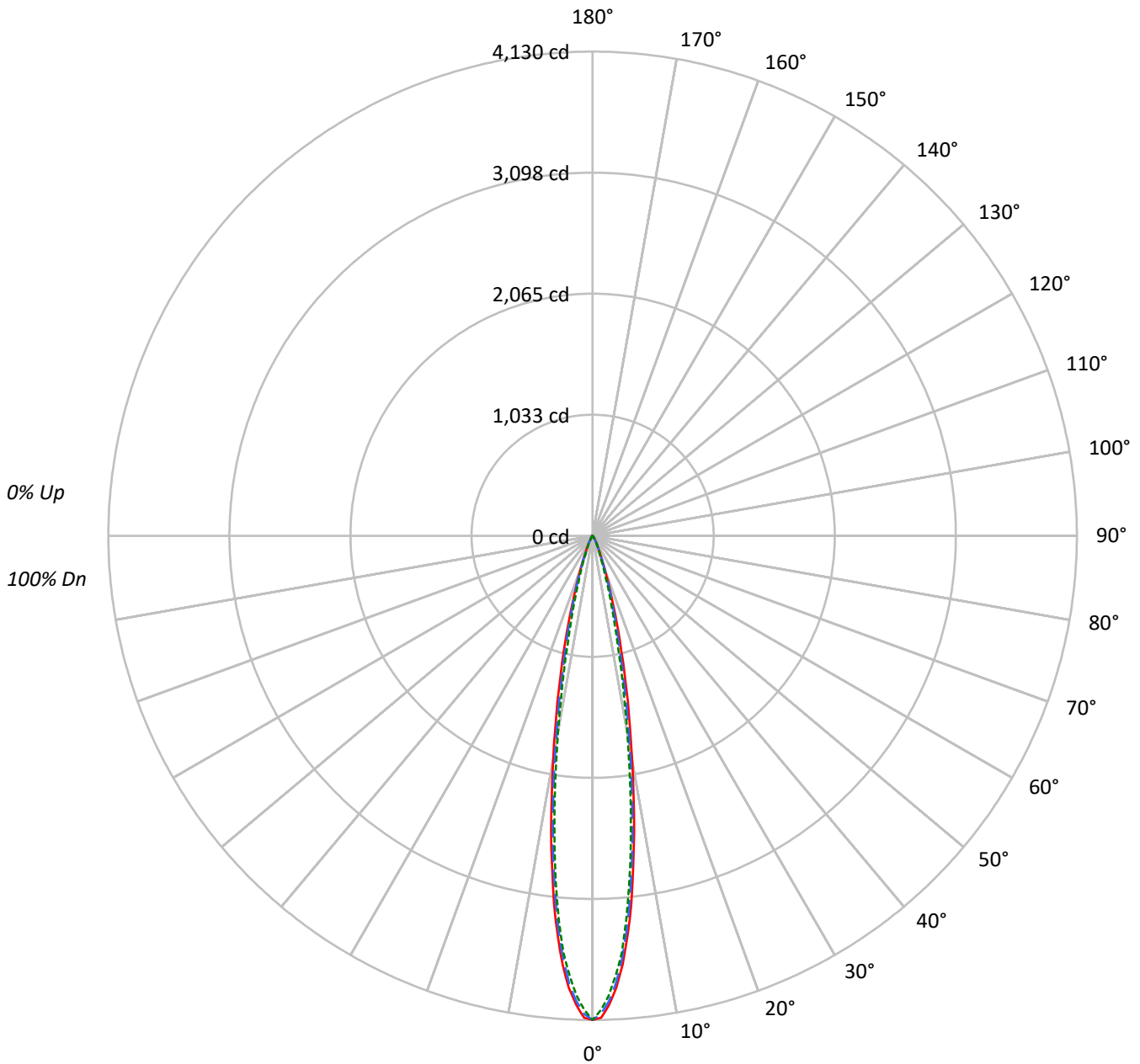
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282153

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282153

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2037732	2037732	2037732
5°	1695575	1664523	1630896
10°	971236	911370	850602
15°	431955	383636	321476
20°	156720	147322	116713
25°	60152	56178	48394
30°	25978	24155	21420
35°	12287	12287	10179
40°	6183	6376	5152
45°	3558	3349	3140
50°	2456	2226	2226
55°	1892	1376	1634
60°	1579	987	1283
65°	1167	700	1167
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282153

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	48.1
10°-20°	217.4	38.9
20°-30°	52.4	9.4
30°-40°	13.4	2.4
40°-50°	4.0	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	538.4	96.4
0°-40°	551.8	98.8
0°-60°	557.5	99.8
0°-90°	558.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4130	4130	4130	4130	4130	
5°	3424	3392	3361	3332	3293	277
15°	846	826	751	677	629	241
25°	110	111	103	94	89	57
35°	20	21	20	18	17	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282153

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4130.3	4130.3	4130.3	4130.3	4130.3
1°	4111.8	4083.1	4079.6	4097.5	4044.9
2°	4006.7	3986.3	3974.5	3985.0	3925.5
3°	3862.4	3842.6	3821.3	3821.6	3755.0
4°	3665.8	3650.2	3614.2	3603.4	3564.9
5°	3423.7	3392.2	3361.0	3331.7	3293.1
6°	3156.2	3115.4	3070.8	3027.2	2987.7
7°	2841.4	2814.4	2755.4	2695.9	2662.4
8°	2545.5	2501.9	2433.1	2358.5	2330.2
9°	2227.3	2196.1	2117.1	2030.4	2002.1
10°	1938.7	1906.2	1819.2	1722.7	1697.9
11°	1667.9	1637.3	1546.9	1445.6	1419.1
12°	1438.9	1395.6	1291.7	1203.8	1178.0
13°	1210.8	1181.2	1082.7	995.8	945.8
14°	1016.8	992.3	903.1	826.6	773.8
15°	845.7	825.7	751.1	676.6	629.4
16°	693.8	681.4	622.4	550.5	511.9
17°	562.9	551.4	513.8	447.6	415.1
18°	454.6	453.0	421.8	364.4	335.4
19°	374.0	373.3	344.7	296.6	272.7
20°	298.5	302.6	280.6	238.6	222.3
21°	243.4	245.6	228.1	196.2	181.6
22°	198.1	199.7	188.3	162.1	154.2
23°	162.5	163.4	153.9	134.4	127.4
24°	133.8	134.4	125.8	112.1	106.1
25°	110.5	111.2	103.2	93.7	88.9
26°	91.7	92.4	85.4	78.7	73.9
27°	76.1	77.4	70.4	66.3	61.2
28°	65.0	65.3	58.9	56.4	51.6
29°	53.2	55.1	49.7	47.5	44.0
30°	45.6	46.5	42.4	40.8	37.6
32.5°	30.3	30.9	29.0	27.7	25.2
35°	20.4	20.7	20.4	18.5	16.9
37.5°	14.0	14.0	14.3	12.1	11.5
40°	9.6	9.6	9.9	8.3	8.0
42.5°	7.0	7.0	6.7	5.7	5.7
45°	5.1	5.1	4.8	4.5	4.5
47.5°	4.1	3.8	3.5	3.5	3.5
50°	3.2	3.2	2.9	2.5	2.9
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



TEST NUMBER: P282153

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.6	0.6	1.0



(END OF REPORT)