

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: P281645

Luminaire Tested: **LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 554.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

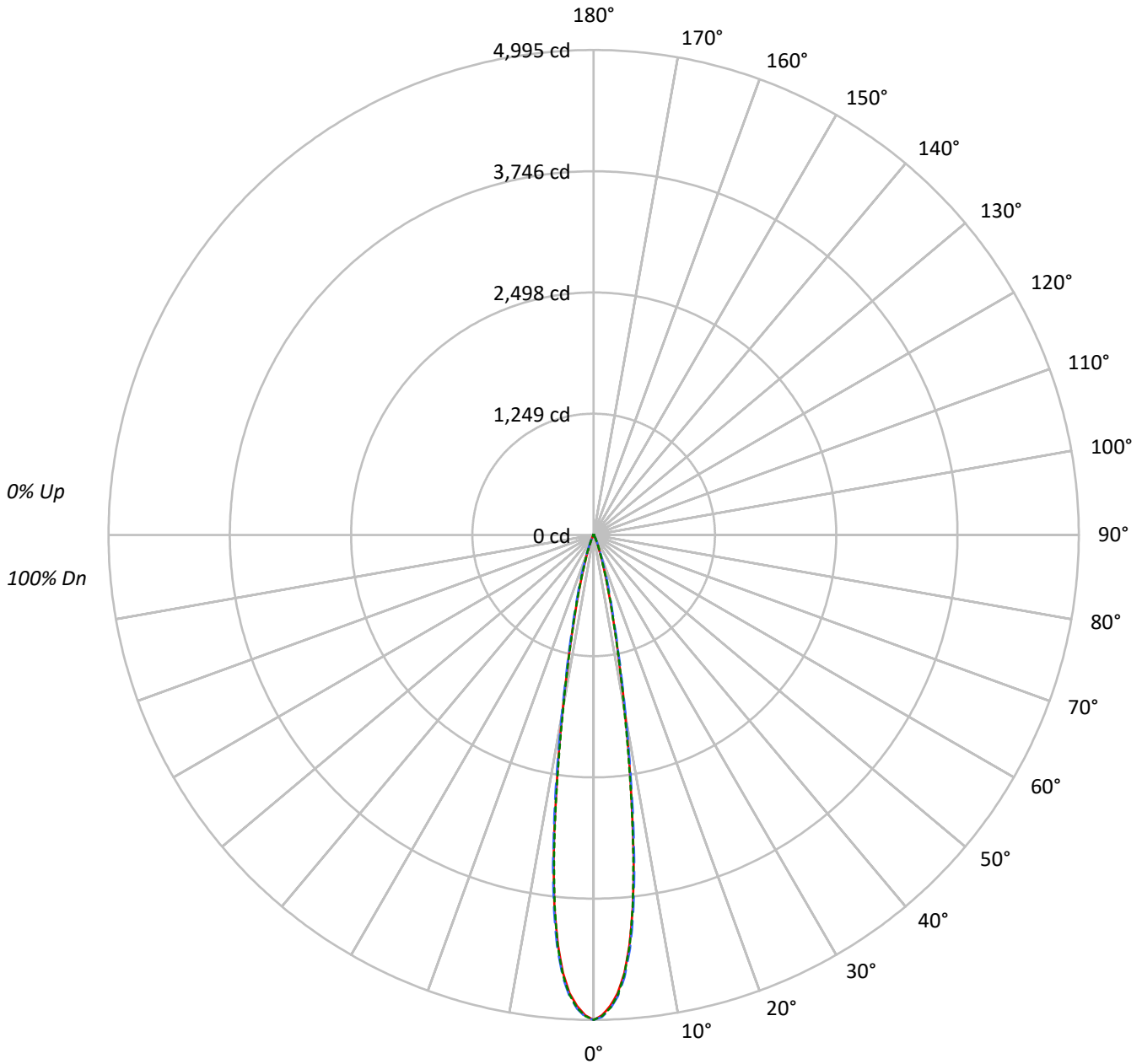
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281645

CATALOG NUMBER: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P281645

CATALOG NUMBER: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS

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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2464342	2464342	2464342
5°	2098458	2120298	2102420
10°	926449	947640	904807
15°	281125	322395	285518
20°	84109	112145	93979
25°	32771	32281	34458
30°	14584	13217	13900
35°	2951	2590	2590
40°	0	193	773
45°	2582	2163	3907
50°	0	691	2379
55°	0	0	1032
60°	0	296	1184
65°	0	0	700
70°	0	1731	3606
75°	0	0	0
80°	0	0	0
85°	0	1698	6793



TEST NUMBER: P281645

CATALOG NUMBER: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	58.5
10°-20°	184.9	33.4
20°-30°	35.1	6.3
30°-40°	6.4	1.2
40°-50°	1.6	0.3
50°-60°	1.2	0.2
60°-70°	0.2	0.0
70°-80°	0.3	0.0
80°-90°	0.4	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°	543.8	98.2
0°-40°	550.2	99.3
0°-60°	553.1	99.8
0°-90°	554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4995	4995	4995	4995	4995	
5°	4237	4265	4281	4274	4245	322
15°	550	598	631	593	559	175
25°	60	65	59	68	63	32
35°	5	6	4	5	4	7
45°	4	6	3	3	6	2
55°	0	0	0	0	1	0
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	



TEST NUMBER: P281645

CATALOG NUMBER: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4995.0	4995.0	4995.0	4995.0	4995.0
1°	4947.7	4953.0	4964.1	4975.5	4957.6
2°	4855.1	4867.8	4883.5	4894.0	4874.6
3°	4725.5	4743.1	4759.8	4761.9	4743.7
4°	4525.2	4546.8	4564.4	4562.2	4539.4
5°	4237.2	4265.0	4281.3	4273.9	4245.2
6°	3856.6	3883.4	3904.4	3883.1	3844.5
7°	3382.5	3413.3	3435.6	3399.1	3351.9
8°	2833.0	2876.2	2898.5	2847.5	2799.1
9°	2312.6	2342.5	2365.1	2309.5	2260.1
10°	1849.3	1904.2	1891.6	1848.7	1806.1
11°	1454.5	1504.2	1506.3	1477.3	1435.6
12°	1138.7	1191.2	1204.4	1182.2	1145.2
13°	899.8	939.0	960.9	938.1	902.9
14°	716.1	751.0	779.1	749.5	714.3
15°	550.4	598.5	631.2	593.0	559.0
16°	437.7	477.5	516.4	472.9	445.7
17°	336.1	371.6	411.8	372.3	350.0
18°	266.1	294.2	338.3	297.6	278.1
19°	208.4	229.7	270.7	234.9	219.2
20°	160.2	183.7	213.6	189.2	179.0
22.5°	96.9	109.9	118.5	111.1	105.9
25°	60.2	64.8	59.3	67.6	63.3
26°	52.5	55.9	54.6	60.2	54.9
27°	42.0	46.3	42.9	47.2	45.7
28°	38.3	43.5	36.7	42.0	39.5
29°	26.9	29.0	26.2	28.1	28.1
30°	25.6	26.2	23.2	25.3	24.4
32.5°	20.1	18.8	15.4	16.4	15.7
35°	4.9	6.2	4.3	5.2	4.3
37.5°	7.4	6.8	8.0	7.7	7.4
40°	0.0	0.3	0.3	0.3	1.2
42.5°	5.6	3.4	3.1	2.2	3.7
45°	3.7	5.9	3.1	3.4	5.6
47.5°	0.0	0.3	0.0	0.6	0.6
50°	0.0	0.6	0.9	1.2	3.1
52.5°	0.6	3.7	1.9	3.4	4.9
55°	0.0	0.3	0.0	0.3	1.2
57.5°	1.2	0.6	1.2	1.2	5.6
60°	0.0	0.6	0.3	0.3	1.2
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.6
67.5°	0.0	0.3	0.0	0.0	0.0



TEST NUMBER: P281645

CATALOG NUMBER: LDA2B059727D010 EU2B05SP159727 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.3	0.0	0.0
80°	0.0	0.3	0.0	0.0	0.0
82.5°	0.0	0.3	0.6	0.9	0.6
85°	0.0	0.3	0.3	0.3	1.2
87.5°	0.0	0.6	0.9	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







70°	0.0	0.9	1.2	0.0	2.5
72.5°	0.0	1.5	0.3	0.3	0.0



(END OF REPORT)