

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: P281454

Luminaire Tested: **LDA2B058050D010 EU2B05SP158050 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 832.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

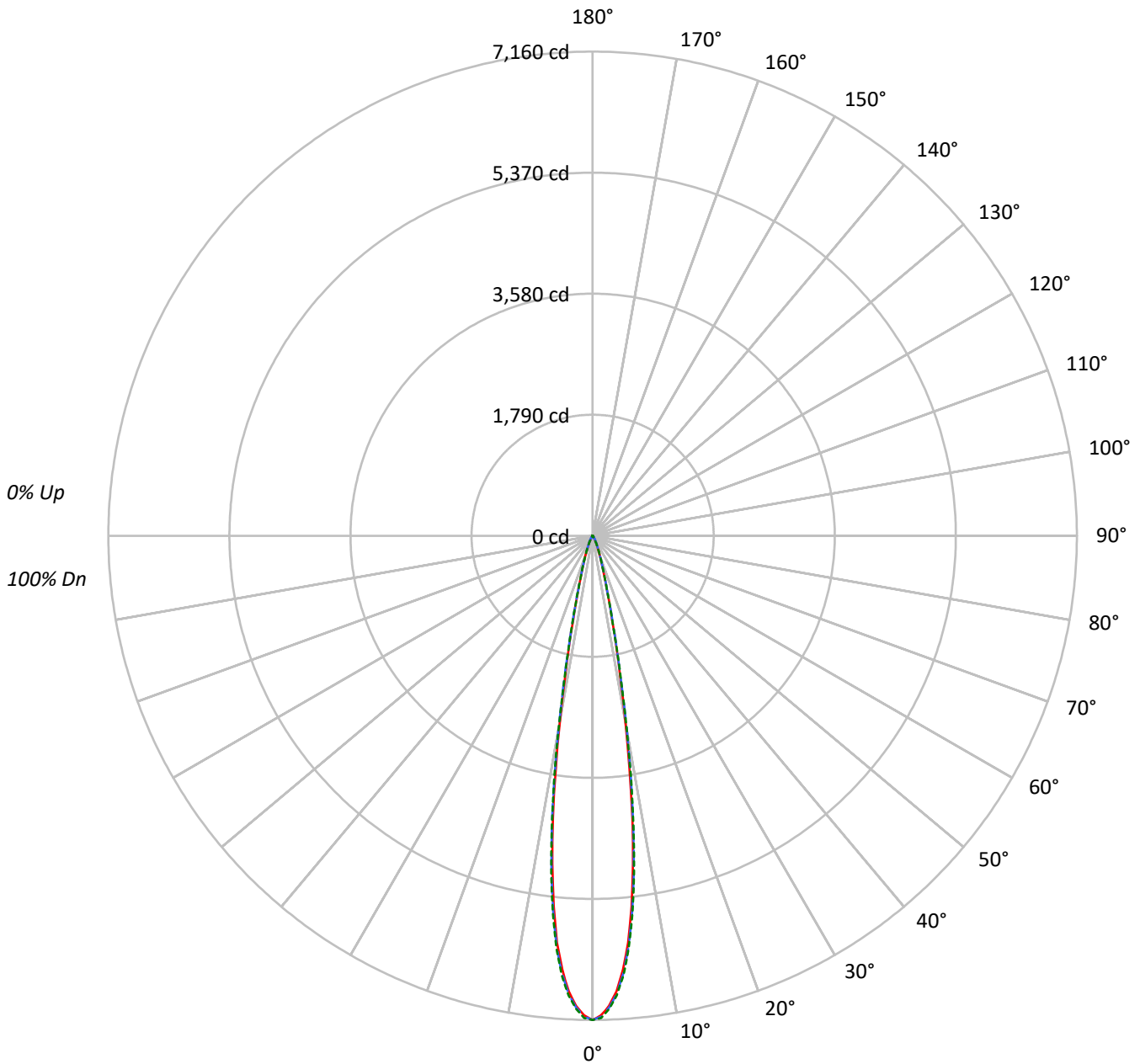
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281454

CATALOG NUMBER: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P281454

CATALOG NUMBER: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3532717	3532717	3532717
5°	2990000	3021300	3034424
10°	1398165	1451168	1453973
15°	409532	415457	415253
20°	164438	164648	164858
25°	73326	80784	75068
30°	31162	42840	28427
35°	14274	19875	13310
40°	4637	7793	4122
45°	0	2791	0
50°	0	0	0
55°	1376	688	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2273	0	0
85°	4529	0	0



TEST NUMBER: P281454

CATALOG NUMBER: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.2	56.8
10°-20°	268.2	32.2
20°-30°	70.0	8.4
30°-40°	18.1	2.2
40°-50°	1.8	0.2
50°-60°	0.6	0.1
60°-70°	0.1	0.0
70°-80°	0.6	0.1
80°-90°	0.1	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°	811.5	97.5
0°-40°	829.5	99.6
0°-60°	831.9	99.9
0°-90°	832.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7160	7160	7160	7160	7160	
5°	6037	6091	6101	6062	6127	467
15°	802	813	813	804	813	263
25°	135	146	148	142	138	67
35°	24	25	33	22	22	16
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281454

CATALOG NUMBER: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7160.5	7160.5	7160.5	7160.5	7160.5
1°	7093.3	7121.5	7113.0	7103.0	7131.1
2°	6956.6	6984.0	6981.5	6968.3	7001.3
3°	6745.9	6784.1	6784.1	6764.4	6805.4
4°	6431.9	6490.2	6495.8	6468.1	6519.1
5°	6037.4	6091.3	6100.6	6062.0	6127.1
6°	5503.1	5576.6	5597.5	5552.9	5619.7
7°	4889.1	4966.3	4998.0	4948.2	5023.0
8°	4226.8	4282.3	4320.5	4263.4	4339.4
9°	3485.7	3565.8	3600.7	3545.3	3619.2
10°	2790.9	2864.5	2896.7	2883.4	2902.3
11°	2167.7	2232.8	2254.5	2236.4	2245.3
12°	1697.2	1723.4	1737.4	1725.4	1731.4
13°	1288.7	1323.7	1330.1	1324.9	1327.7
14°	1006.4	1023.3	1030.6	1028.2	1029.4
15°	801.8	812.6	813.4	804.2	813.0
16°	645.8	654.2	657.8	648.2	659.8
17°	529.2	536.0	540.0	530.4	535.2
18°	435.5	440.7	446.3	437.9	445.1
19°	365.5	368.7	369.1	366.7	368.7
20°	313.2	311.6	313.6	309.2	314.0
22.5°	206.3	210.3	215.1	209.9	211.9
25°	134.7	146.0	148.4	141.5	137.9
26°	111.0	125.5	131.9	121.0	109.4
27°	92.1	102.5	111.0	96.5	87.3
28°	80.8	89.7	98.1	84.4	73.6
29°	67.6	76.4	90.9	75.2	68.4
30°	54.7	61.1	75.2	57.1	49.9
32.5°	31.0	36.2	48.7	33.8	27.7
35°	23.7	25.3	33.0	22.5	22.1
37.5°	20.5	18.5	25.7	18.5	14.9
40°	7.2	10.9	12.1	8.0	6.4
42.5°	3.2	3.2	5.2	1.6	1.6
45°	0.0	1.6	4.0	0.4	0.0
47.5°	0.0	0.0	0.8	0.0	0.0
50°	0.0	0.8	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	1.6	2.0	0.8	0.4	0.0
57.5°	2.4	2.0	0.8	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.8	0.4	0.0	0.0	0.0



TEST NUMBER: P281454

CATALOG NUMBER: LDA2B058050D010 EU2B05SP158050 2LBASQC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	4.0	0.8	1.2	0.8	1.6
80°	0.8	0.0	0.0	0.0	0.0
82.5°	1.6	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
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	0.0	0.0	0.0	0.0
72.5°	1.6	1.2	0.0	0.0	1.6



(END OF REPORT)