

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: P281553

Luminaire Tested: **LDA2B159040D010 EU2B15SP159040 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281553
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: LDA2B159040D010 EU2B15SP159040 2LBASQC1MW
Description: PORTFOLIO 2IN ADJ 1500 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: 1231.1 lumens
Efficiency: N/A
Efficacy: 87.3 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

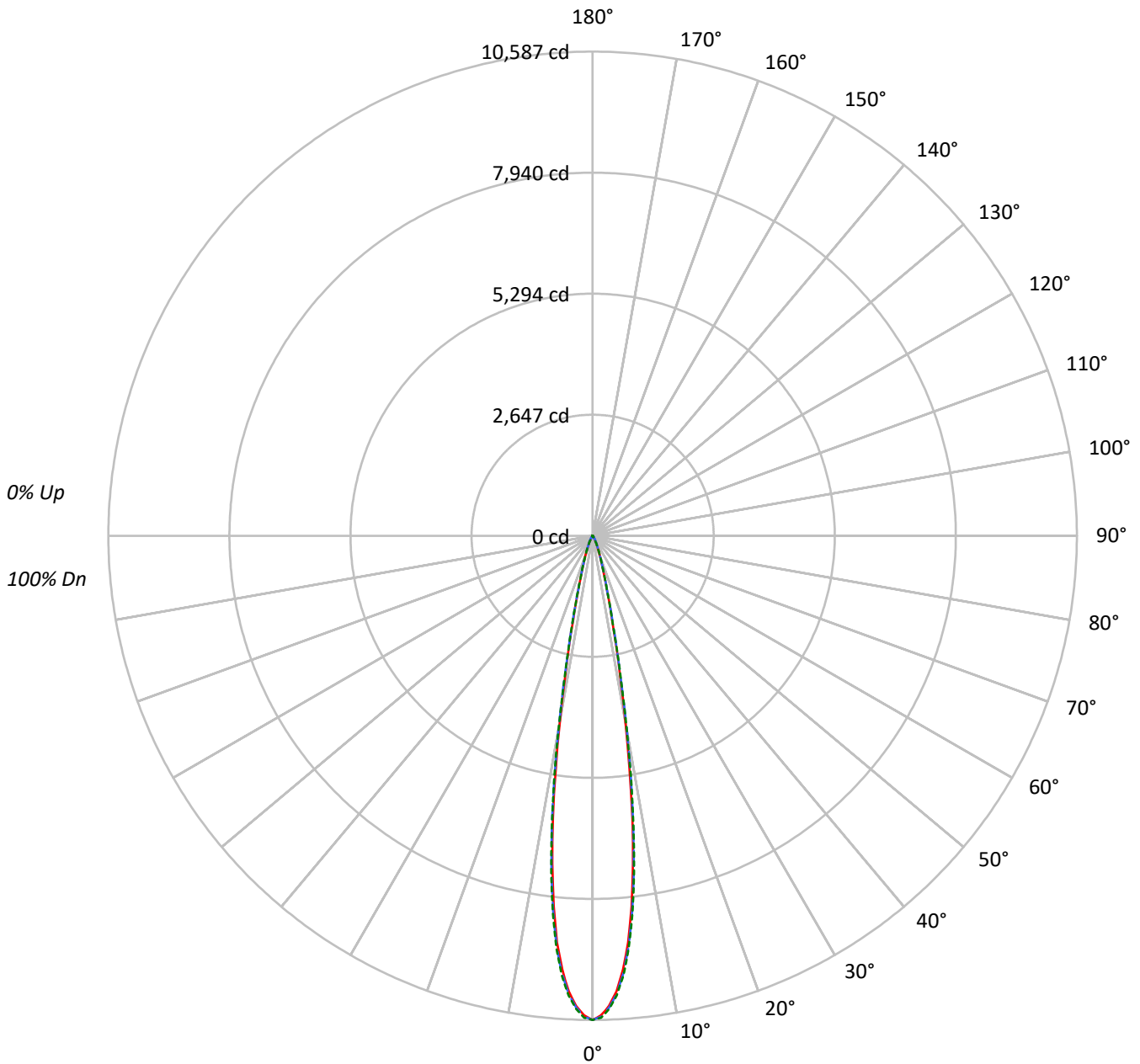
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281553

CATALOG NUMBER: LDA2B159040D010 EU2B15SP159040 2LBASQC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P281553

CATALOG NUMBER: LDA2B159040D010 EU2B15SP159040 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	97	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°	5223221	5223221	5223221
5°	4420817	4467023	4486486
10°	2067264	2145566	2149724
15°	605462	614298	613991
20°	243139	243454	243769
25°	108437	119434	110996
30°	46088	63349	41986
35°	21140	29331	19695
40°	6891	11464	6118
45°	0	4117	0
50°	0	0	0
55°	2064	1032	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3409	0	0
85°	6793	0	0



TEST NUMBER: P281553

CATALOG NUMBER: LDA2B159040D010 EU2B15SP159040 2LBASQC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.7	56.8
10°-20°	396.5	32.2
20°-30°	103.6	8.4
30°-40°	26.7	2.2
40°-50°	2.6	0.2
50°-60°	0.9	0.1
60°-70°	0.1	0.0
70°-80°	0.9	0.1
80°-90°	0.2	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°	1199.8	97.5
0°-40°	1226.5	99.6
0°-60°	1230.0	99.9
0°-90°	1231.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10587	10587	10587	10587	10587	
5°	8926	9006	9020	8963	9059	691
15°	1185	1202	1203	1189	1202	389
25°	199	216	219	209	204	99
35°	35	38	49	33	33	24
45°	0	2	6	1	0	2
55°	2	3	1	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281553

CATALOG NUMBER: LDA2B159040D010 EU2B15SP159040 2LBASQC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10587.0	10587.0	10587.0	10587.0	10587.0
1°	10487.7	10529.3	10516.8	10501.9	10543.6
2°	10285.5	10326.0	10322.4	10302.8	10351.5
3°	9974.0	10030.5	10030.5	10001.4	10062.0
4°	9509.7	9595.9	9604.2	9563.2	9638.7
5°	8926.5	9006.2	9019.8	8962.8	9059.1
6°	8136.4	8245.2	8276.1	8210.1	8308.8
7°	7228.6	7342.7	7389.7	7316.0	7426.6
8°	6249.4	6331.5	6388.0	6303.5	6415.9
9°	5153.8	5272.1	5323.8	5241.8	5351.1
10°	4126.5	4235.3	4282.8	4263.2	4291.1
11°	3205.0	3301.3	3333.4	3306.6	3319.7
12°	2509.4	2548.0	2568.9	2551.0	2559.9
13°	1905.4	1957.1	1966.6	1958.9	1963.1
14°	1488.0	1513.0	1523.7	1520.2	1521.9
15°	1185.4	1201.5	1202.7	1189.0	1202.1
16°	954.8	967.3	972.6	958.3	975.6
17°	782.4	792.5	798.4	784.2	791.3
18°	643.8	651.6	659.9	647.4	658.1
19°	540.4	545.2	545.8	542.2	545.2
20°	463.1	460.7	463.7	457.2	464.3
22.5°	305.0	310.9	318.1	310.3	313.3
25°	199.2	215.8	219.4	209.3	203.9
26°	164.1	185.5	195.0	178.9	161.7
27°	136.1	151.6	164.1	142.7	129.0
28°	119.5	132.6	145.1	124.8	108.8
29°	99.9	113.0	134.4	111.2	101.1
30°	80.9	90.4	111.2	84.4	73.7
32.5°	45.8	53.5	71.9	49.9	41.0
35°	35.1	37.5	48.7	33.3	32.7
37.5°	30.3	27.3	38.0	27.3	22.0
40°	10.7	16.1	17.8	11.9	9.5
42.5°	4.8	4.8	7.7	2.4	2.4
45°	0.0	2.4	5.9	0.6	0.0
47.5°	0.0	0.0	1.2	0.0	0.0
50°	0.0	1.2	0.0	0.0	0.0
52.5°	1.2	0.0	0.0	0.0	0.0
55°	2.4	3.0	1.2	0.6	0.0
57.5°	3.6	3.0	1.2	1.2	1.2
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°	1.2	0.6	0.0	0.0	0.0



TEST NUMBER: P281553

CATALOG NUMBER: LDA2B159040D010 EU2B15SP159040 2LBASQC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.6	0.0	0.0	0.0
77.5°	5.9	1.2	1.8	1.2	2.4
80°	1.2	0.0	0.0	0.0	0.0
82.5°	2.4	0.0	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.6	0.0	0.6	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°	2.4	1.8	0.0	0.0	2.4



(END OF REPORT)