

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: P281539

Luminaire Tested: **LDA2B158050D010 EU2B15SP158050 2LBASQC1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281539
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: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.2 lumens
Efficiency: N/A
Efficacy: 106.8 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

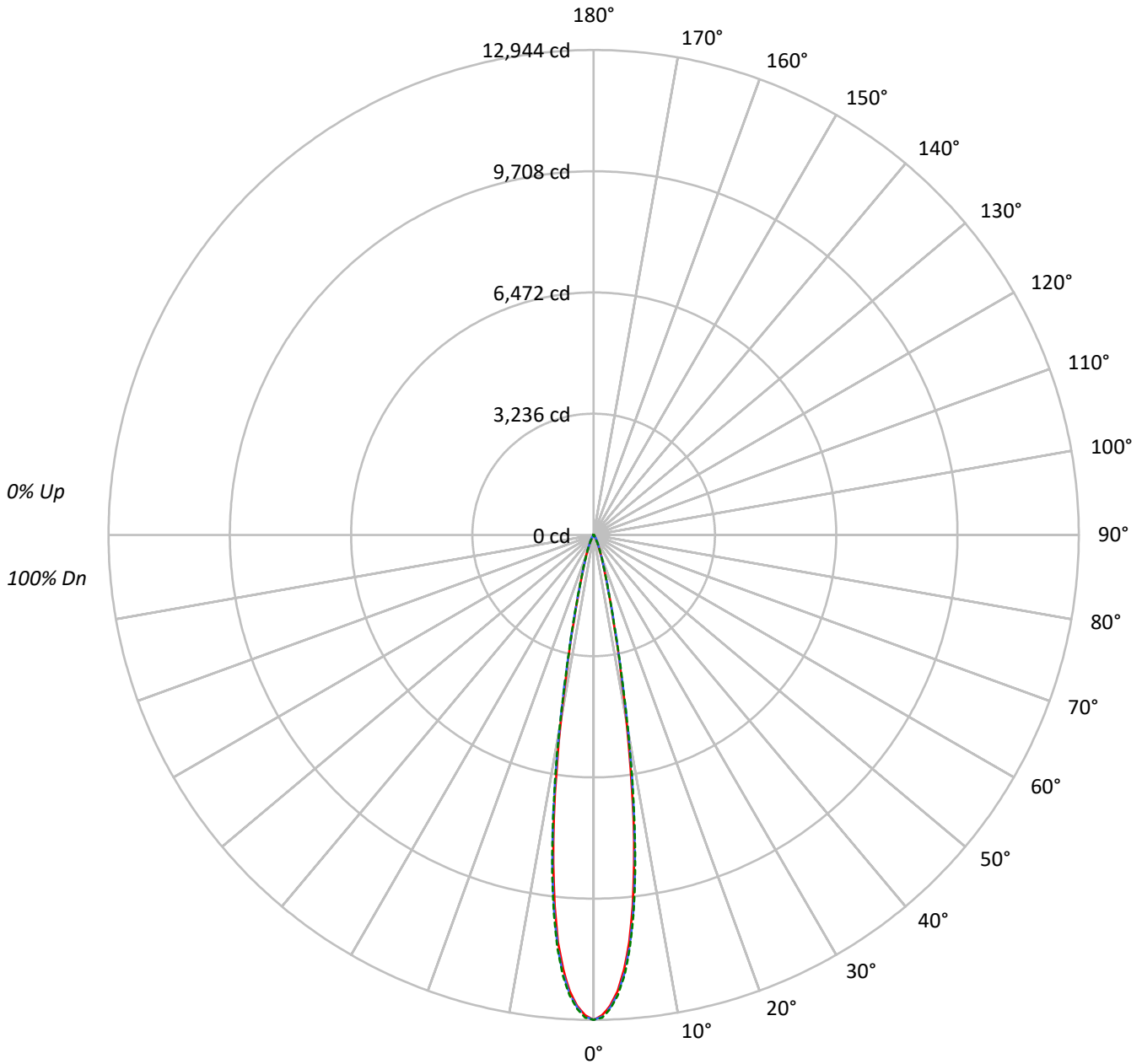
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281539

CATALOG NUMBER: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB

Luminous Intensity Polar Plot





TEST NUMBER: P281539

CATALOG NUMBER: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6386026	6386026	6386026
5°	5405020	5461527	5485299
10°	2527457	2623243	2628353
15°	740304	751030	750672
20°	297269	297689	298056
25°	132553	145999	135710
30°	56342	77420	51329
35°	25838	35896	24091
40°	8437	14040	7471
45°	0	5093	0
50°	0	0	0
55°	2494	1290	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	4262	0	0
85°	8491	0	0



TEST NUMBER: P281539

CATALOG NUMBER: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.4	56.8
10°-20°	484.8	32.2
20°-30°	126.6	8.4
30°-40°	32.6	2.2
40°-50°	3.2	0.2
50°-60°	1.0	0.1
60°-70°	0.2	0.0
70°-80°	1.1	0.1
80°-90°	0.3	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°	1466.9	97.5
0°-40°	1499.5	99.6
0°-60°	1503.8	99.9
0°-90°	1505.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12944	12944	12944	12944	12944	
5°	10914	11011	11028	10958	11076	845
15°	1449	1469	1470	1454	1470	476
25°	244	264	268	256	249	121
35°	43	46	60	41	40	29
45°	0	3	7	1	0	2
55°	3	4	2	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
85°	2	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281539

CATALOG NUMBER: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12943.9	12943.9	12943.9	12943.9	12943.9
1°	12822.6	12873.4	12858.2	12840.0	12890.9
2°	12575.4	12624.9	12620.5	12596.5	12656.1
3°	12194.5	12263.6	12263.6	12228.0	12302.1
4°	11626.9	11732.3	11742.4	11692.3	11784.6
5°	10913.8	11011.2	11027.9	10958.2	11075.9
6°	9947.8	10080.8	10118.6	10038.0	10158.6
7°	8837.9	8977.5	9034.9	8944.8	9079.9
8°	7640.8	7741.1	7810.1	7706.9	7844.3
9°	6301.2	6445.8	6509.0	6408.7	6542.5
10°	5045.1	5178.2	5236.3	5212.3	5246.5
11°	3918.5	4036.3	4075.5	4042.8	4058.8
12°	3068.1	3115.3	3140.8	3119.0	3129.9
13°	2329.6	2392.8	2404.5	2395.0	2400.1
14°	1819.3	1849.9	1862.9	1858.6	1860.8
15°	1449.4	1469.0	1470.4	1453.7	1469.7
16°	1167.3	1182.6	1189.1	1171.7	1192.8
17°	956.5	968.9	976.2	958.7	967.5
18°	787.2	796.6	806.8	791.6	804.6
19°	660.7	666.5	667.3	662.9	666.5
20°	566.2	563.3	567.0	559.0	567.7
22.5°	372.9	380.1	388.9	379.4	383.1
25°	243.5	263.9	268.2	255.9	249.3
26°	200.6	226.8	238.4	218.8	197.7
27°	166.5	185.3	200.6	174.4	157.7
28°	146.1	162.1	177.4	152.6	133.0
29°	122.1	138.1	164.3	135.9	123.6
30°	98.9	110.5	135.9	103.2	90.1
32.5°	56.0	65.4	88.0	61.1	50.2
35°	42.9	45.8	59.6	40.7	40.0
37.5°	37.1	33.4	46.5	33.4	26.9
40°	13.1	19.6	21.8	14.5	11.6
42.5°	5.8	5.8	9.4	2.9	2.9
45°	0.0	2.9	7.3	0.7	0.0
47.5°	0.0	0.0	1.5	0.0	0.0
50°	0.0	1.5	0.0	0.0	0.0
52.5°	1.5	0.0	0.0	0.0	0.0
55°	2.9	3.6	1.5	0.7	0.0
57.5°	4.4	3.6	1.5	1.5	1.5
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°	1.5	0.7	0.0	0.0	0.0



TEST NUMBER: P281539

CATALOG NUMBER: LDA2B158050D010 EU2B15SP158050 2LBASQC1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.7	0.0	0.0	0.0
77.5°	7.3	1.5	2.2	1.5	2.9
80°	1.5	0.0	0.0	0.0	0.0
82.5°	2.9	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	0.0	0.7	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°	2.9	2.2	0.0	0.0	2.9



(END OF REPORT)