

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: P283997

Luminaire Tested: **LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 891.7 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

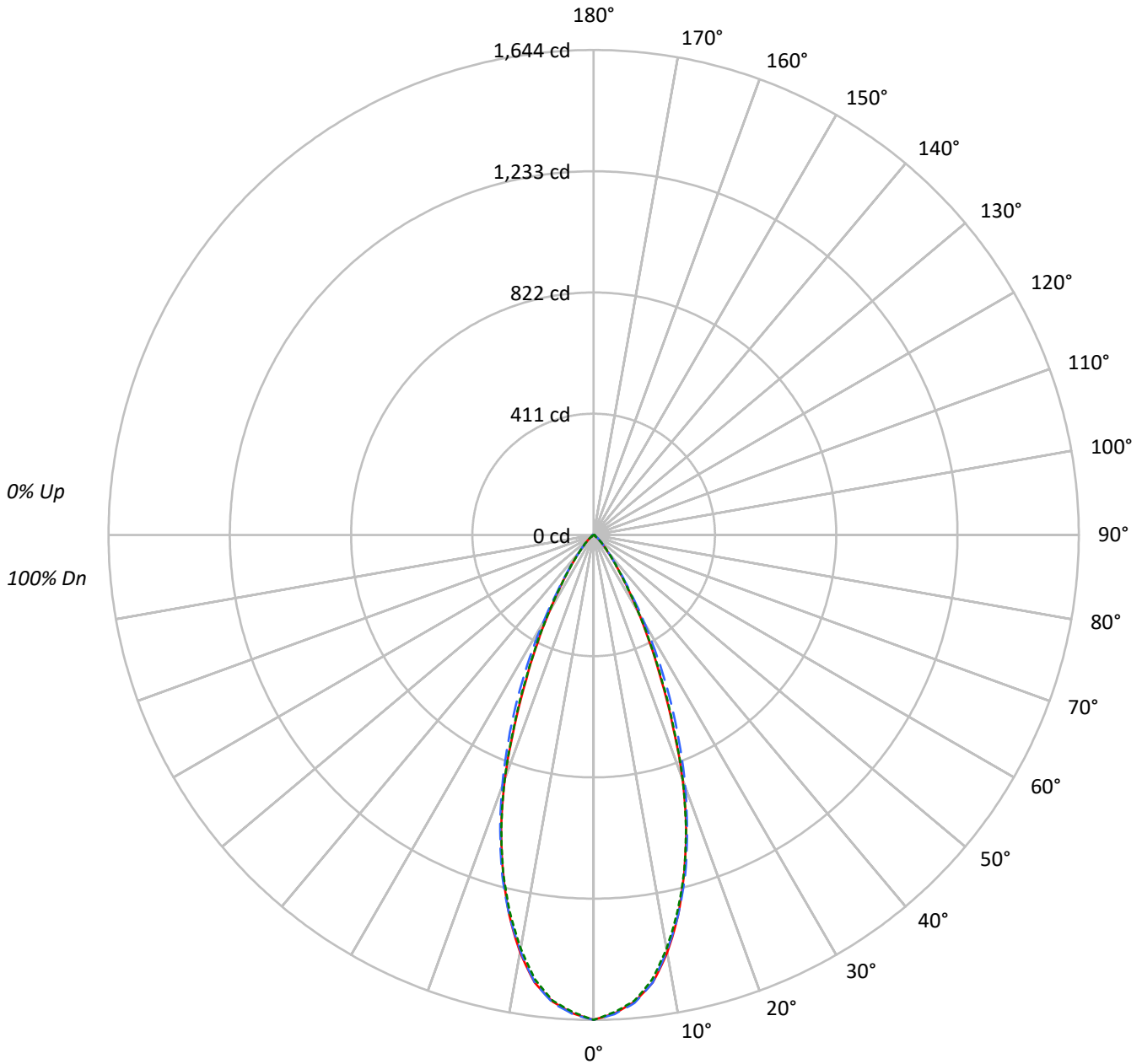
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283997

CATALOG NUMBER: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283997

CATALOG NUMBER: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	811037	811037	811037
5°	786699	788581	785015
10°	720098	717193	712884
15°	605666	611284	604696
20°	463177	475462	462442
25°	294120	331627	299836
30°	171076	193123	174039
35°	90403	96185	90704
40°	47723	49913	47723
45°	26723	27699	27002
50°	12511	15811	12511
55°	4559	8602	4903
60°	5230	5230	5230
65°	5603	6187	5603
70°	6924	6203	6924
75°	6290	6290	6290
80°	6819	5398	6819
85°	5661	5661	5661



TEST NUMBER: P283997

CATALOG NUMBER: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	16.5
10°-20°	326.7	36.6
20°-30°	263.9	29.6
30°-40°	104.3	11.7
40°-50°	32.0	3.6
50°-60°	8.3	0.9
60°-70°	5.0	0.6
70°-80°	3.7	0.4
80°-90°	1.1	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°	737.3	82.7
0°-40°	841.6	94.4
0°-60°	881.9	98.9
0°-90°	891.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1588	1591	1592	1589	1585	147
15°	1186	1189	1197	1192	1184	326
25°	540	566	609	577	551	252
35°	150	154	160	155	151	101
45°	38	39	40	39	39	31
55°	5	7	10	7	6	7
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283997

CATALOG NUMBER: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1623.4	1624.3	1625.8	1623.8	1619.1
5°	1588.5	1591.3	1592.3	1588.9	1585.1
7.5°	1531.1	1527.7	1530.6	1524.9	1520.1
10°	1437.4	1433.1	1431.6	1423.0	1423.0
12.5°	1321.6	1320.2	1321.2	1316.9	1310.2
15°	1185.8	1189.2	1196.8	1192.1	1183.9
17.5°	1041.9	1046.7	1053.4	1052.0	1041.0
20°	882.2	896.1	905.6	896.6	880.8
22.5°	700.5	730.2	754.5	735.4	709.6
25°	540.3	566.1	609.2	576.7	550.8
27.5°	409.8	428.4	467.6	435.6	417.9
30°	300.3	311.8	339.0	318.0	305.5
32.5°	214.7	222.8	234.3	221.9	215.7
35°	150.1	154.4	159.7	154.9	150.6
37.5°	105.7	107.1	110.9	107.1	105.2
40°	74.1	74.6	77.5	75.1	74.1
42.5°	53.6	53.6	55.0	54.0	53.6
45°	38.3	38.7	39.7	39.2	38.7
47.5°	27.3	28.2	28.2	28.7	26.8
50°	16.3	20.1	20.6	20.1	16.3
52.5°	8.6	12.0	14.8	12.0	8.6
55°	5.3	7.2	10.0	7.2	5.7
57.5°	5.3	5.3	6.7	5.7	5.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.8	5.3	5.3	5.3	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.3	4.8	4.8
72.5°	4.3	4.3	3.8	4.3	4.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	1.9	2.4	2.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)