

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: P283799

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283799
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: LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 674.4 lumens
Efficiency: N/A
Efficacy: 96.3 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

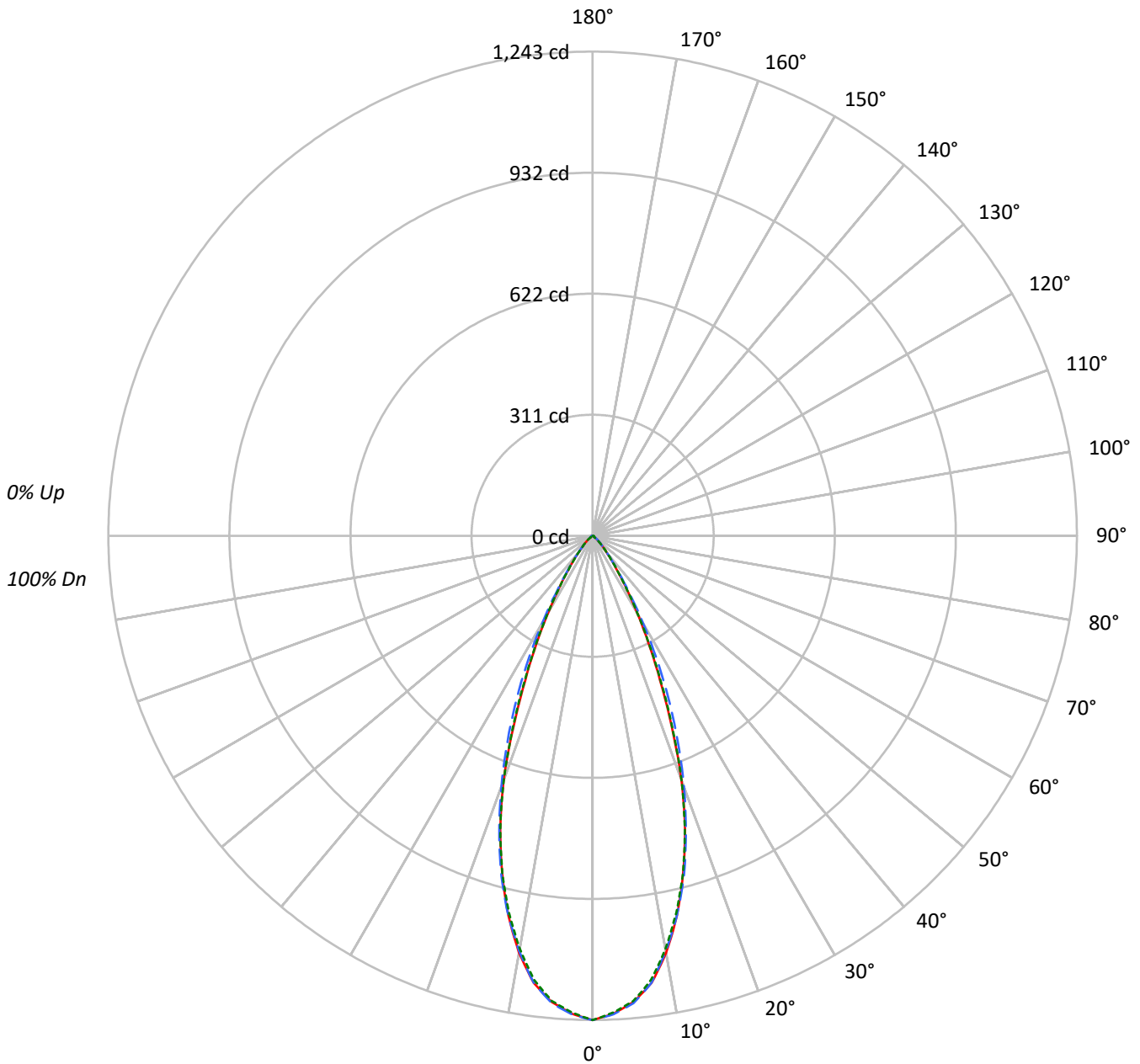
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283799

CATALOG NUMBER: LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283799

CATALOG NUMBER: LDA2B058027D010 EU2B05WFL558027 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°	613446	613446	613446
5°	595038	596475	593751
10°	544658	542503	539197
15°	458157	462396	457391
20°	350349	359642	349771
25°	222482	250843	226782
30°	129375	146067	131654
35°	68419	72756	68600
40°	36131	37741	36131
45°	20164	20932	20443
50°	9441	11974	9441
55°	3441	6537	3699
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4760	5193
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



TEST NUMBER: P283799

CATALOG NUMBER: LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	16.5
10°-20°	247.1	36.6
20°-30°	199.6	29.6
30°-40°	78.9	11.7
40°-50°	24.2	3.6
50°-60°	6.2	0.9
60°-70°	3.8	0.6
70°-80°	2.8	0.4
80°-90°	0.8	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°	557.7	82.7
0°-40°	636.6	94.4
0°-60°	667.1	98.9
0°-90°	674.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1202	1204	1204	1202	1199	111
15°	897	900	905	902	896	246
25°	409	428	461	436	417	190
35°	114	117	121	117	114	76
45°	29	29	30	30	29	24
55°	4	5	8	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283799

CATALOG NUMBER: LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.4	1243.4	1243.4	1243.4	1243.4
2.5°	1227.9	1228.6	1229.7	1228.2	1224.6
5°	1201.5	1203.7	1204.4	1201.8	1198.9
7.5°	1158.1	1155.5	1157.7	1153.4	1149.8
10°	1087.2	1083.9	1082.9	1076.3	1076.3
12.5°	999.7	998.6	999.3	996.0	991.0
15°	897.0	899.5	905.3	901.7	895.5
17.5°	788.1	791.7	796.8	795.7	787.4
20°	667.3	677.8	685.0	678.1	666.2
22.5°	529.9	552.3	570.7	556.3	536.7
25°	408.7	428.2	460.8	436.2	416.6
27.5°	310.0	324.1	353.7	329.5	316.1
30°	227.1	235.8	256.4	240.5	231.1
32.5°	162.4	168.5	177.2	167.8	163.1
35°	113.6	116.8	120.8	117.2	113.9
37.5°	79.9	81.0	83.9	81.0	79.6
40°	56.1	56.4	58.6	56.8	56.1
42.5°	40.5	40.5	41.6	40.9	40.5
45°	28.9	29.3	30.0	29.7	29.3
47.5°	20.6	21.3	21.3	21.7	20.3
50°	12.3	15.2	15.6	15.2	12.3
52.5°	6.5	9.0	11.2	9.0	6.5
55°	4.0	5.4	7.6	5.4	4.3
57.5°	4.0	4.0	5.1	4.3	4.0
60°	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.6	4.0	4.0	4.0	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.4	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
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)