

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: P283470

Luminaire Tested: **LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 637.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

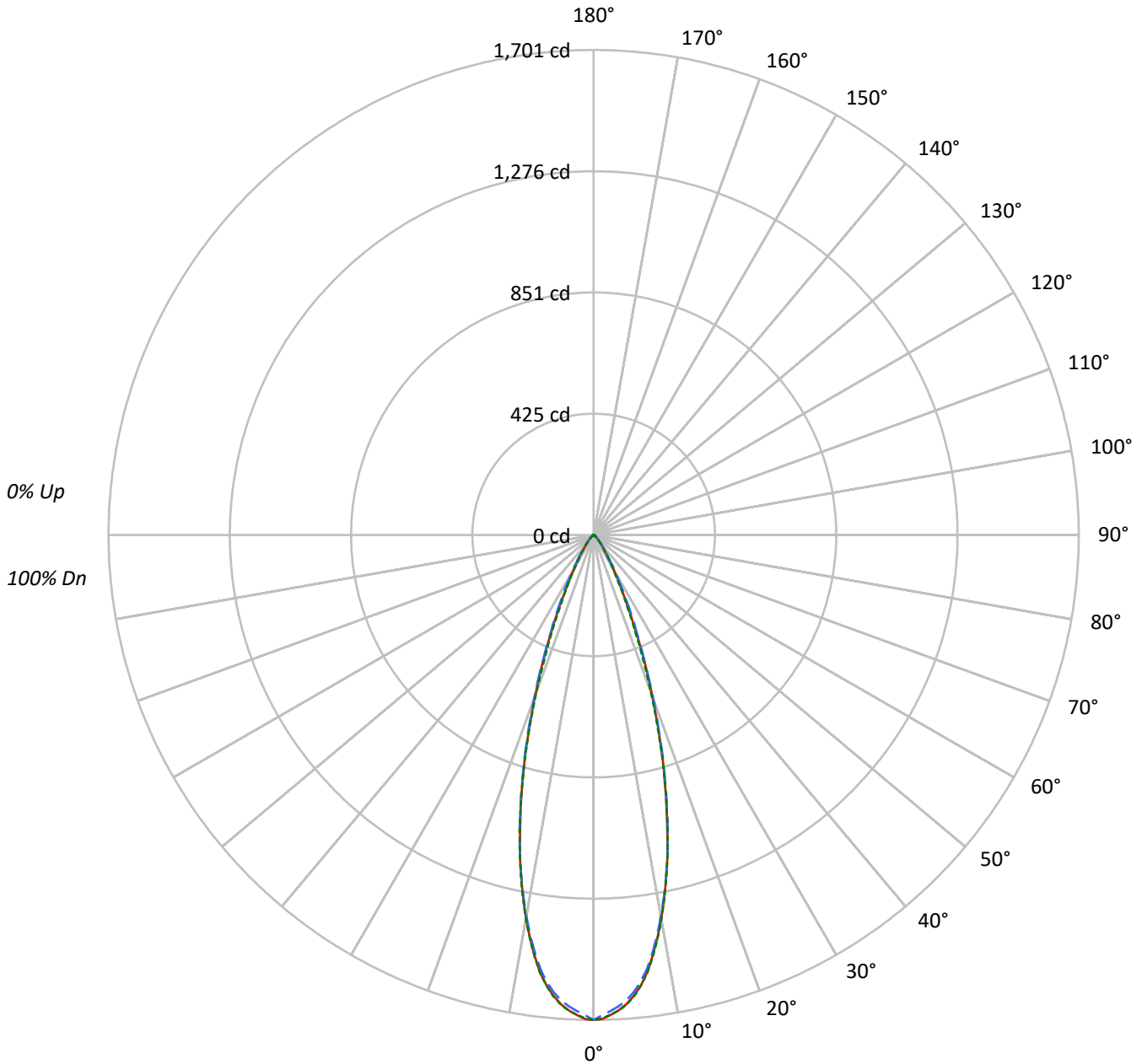
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283470

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283470

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	839406	839406	839406
5°	803290	797297	804528
10°	684379	680070	685130
15°	504432	507701	506067
20°	314910	320738	307979
25°	162656	174523	154491
30°	77990	89384	74344
35°	40233	44569	37703
40°	22541	23701	21382
45°	13745	13745	13187
50°	7138	8750	7138
55°	3699	5849	3957
60°	4243	4243	4243
65°	4553	4553	4553
70°	5626	5193	5626
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



TEST NUMBER: P283470

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	23.0
10°-20°	268.8	42.2
20°-30°	145.7	22.9
30°-40°	46.8	7.3
40°-50°	15.9	2.5
50°-60°	5.6	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.5
80°-90°	0.9	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°	560.9	88.0
0°-40°	607.7	95.4
0°-60°	629.2	98.8
0°-90°	637.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	637.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1622	1612	1610	1626	1624	147
15°	988	996	994	999	991	268
25°	299	312	321	298	284	143
35°	67	70	74	67	63	45
45°	20	20	20	20	19	16
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283470

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.4	1701.4	1701.4	1701.4	1701.4
1°	1698.5	1686.4	1684.6	1700.3	1696.7
2°	1685.0	1673.5	1671.7	1687.5	1684.2
3°	1669.9	1659.6	1656.0	1672.4	1670.3
4°	1649.9	1640.3	1637.1	1653.5	1651.7
5°	1622.0	1612.0	1609.9	1626.0	1624.5
6°	1587.7	1579.5	1575.6	1591.7	1588.8
7°	1544.8	1537.3	1533.0	1544.8	1546.3
8°	1489.1	1485.5	1480.5	1492.3	1492.3
9°	1429.7	1426.5	1421.2	1431.9	1431.9
10°	1366.1	1364.0	1357.5	1367.6	1367.6
11°	1296.4	1295.3	1290.7	1298.9	1298.9
12°	1223.1	1225.6	1221.4	1228.5	1226.0
13°	1149.9	1148.8	1149.2	1154.5	1150.6
14°	1066.9	1073.4	1074.5	1077.7	1071.6
15°	987.6	995.8	994.0	998.7	990.8
16°	906.5	915.8	915.4	916.5	909.0
17°	830.7	836.0	836.4	835.3	826.0
18°	749.9	757.4	757.4	755.6	744.5
19°	670.9	676.6	680.6	676.6	663.8
20°	599.8	603.7	610.9	600.9	586.6
21°	531.5	535.1	541.2	529.4	513.6
22°	466.1	470.7	476.5	462.9	446.4
23°	405.0	415.7	417.8	399.3	385.3
24°	348.9	361.0	364.6	345.6	331.0
25°	298.8	312.4	320.6	298.5	283.8
26°	255.6	268.8	278.8	256.6	242.7
27°	217.7	231.6	242.0	221.3	208.0
28°	185.2	198.7	209.5	190.2	177.6
29°	160.8	168.7	179.4	163.3	151.9
30°	136.9	145.5	156.9	140.5	130.5
32.5°	94.0	98.7	107.6	97.6	89.7
35°	66.8	69.7	74.0	67.2	62.6
37.5°	47.5	49.0	51.5	47.5	45.0
40°	35.0	35.7	36.8	34.7	33.2
42.5°	26.1	26.5	26.5	25.7	25.0
45°	19.7	20.0	19.7	19.7	18.9
47.5°	14.3	15.4	15.0	15.0	13.9
50°	9.3	11.4	11.4	11.1	9.3
52.5°	5.7	7.9	8.9	7.9	6.1
55°	4.3	5.4	6.8	5.4	4.6
57.5°	4.3	4.3	5.0	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3



TEST NUMBER: P283470

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.6	3.9	3.9
72.5°	3.6	3.6	3.2	3.6	3.2
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	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°







62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	3.9	4.3	3.9



(END OF REPORT)