

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: P283463

Luminaire Tested: **LDA2B058027D010 EU2B05FL408027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283463
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: LDA2B058027D010 EU2B05FL408027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 649.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

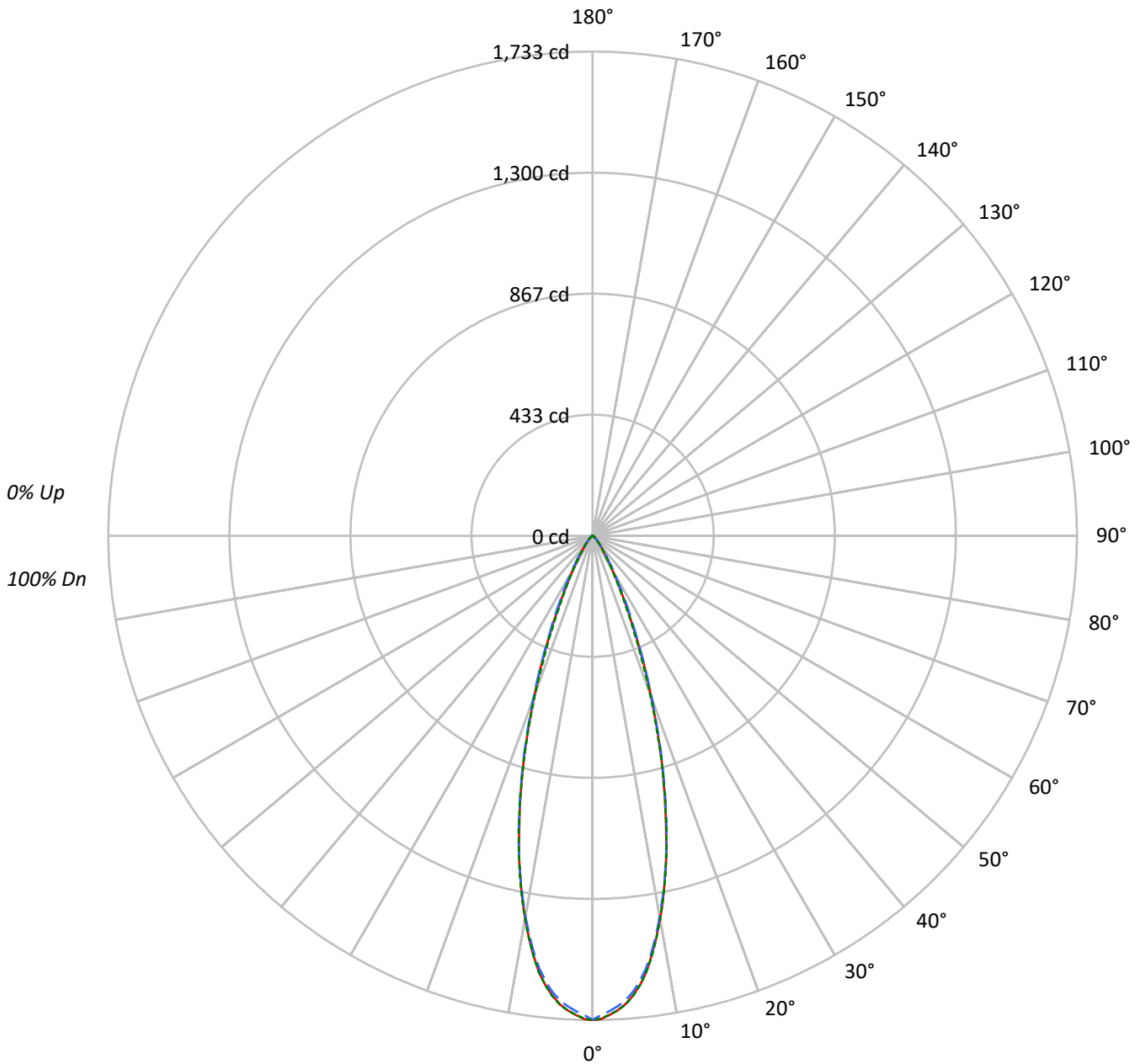
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	855045	855045	855045
5°	818296	812154	819534
10°	697154	692745	697855
15°	513830	517201	515516
20°	320790	326670	313702
25°	165705	177789	157376
30°	79414	91036	75711
35°	41016	45412	38365
40°	22992	24151	21833
45°	13954	13954	13466
50°	7292	8980	7292
55°	3785	5935	4043
60°	4342	4342	4342
65°	4670	4670	4670
70°	5770	5193	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	23.0
10°-20°	273.8	42.2
20°-30°	148.5	22.9
30°-40°	47.7	7.3
40°-50°	16.2	2.5
50°-60°	5.7	0.9
60°-70°	4.2	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
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0°-30°	571.3	88.0
0°-40°	619.0	95.4
0°-60°	640.9	98.8
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1652	1642	1640	1656	1655	149
15°	1006	1014	1013	1017	1009	273
25°	304	318	327	304	289	146
35°	68	71	75	68	64	46
45°	20	20	20	20	19	16
55°	4	6	7	6	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.1	1733.1	1733.1	1733.1	1733.1
1°	1730.2	1717.8	1716.0	1732.0	1728.4
2°	1716.3	1704.7	1702.9	1718.9	1715.6
3°	1701.1	1690.5	1686.9	1703.6	1701.4
4°	1680.7	1670.8	1667.6	1684.3	1682.5
5°	1652.3	1642.1	1639.9	1656.3	1654.8
6°	1617.3	1608.9	1604.9	1621.3	1618.4
7°	1573.6	1566.0	1561.6	1573.6	1575.1
8°	1516.8	1513.2	1508.1	1520.1	1520.1
9°	1456.4	1453.1	1447.6	1458.6	1458.6
10°	1391.6	1389.4	1382.8	1393.0	1393.0
11°	1320.6	1319.5	1314.7	1323.1	1323.1
12°	1245.9	1248.5	1244.1	1251.4	1248.8
13°	1171.3	1170.2	1170.6	1176.0	1172.0
14°	1086.8	1093.4	1094.5	1097.7	1091.6
15°	1006.0	1014.4	1012.6	1017.3	1009.3
16°	923.3	932.8	932.4	933.5	925.9
17°	846.2	851.6	852.0	850.9	841.4
18°	763.9	771.5	771.5	769.7	758.4
19°	683.4	689.2	693.2	689.2	676.1
20°	611.0	615.0	622.2	612.0	597.5
21°	541.4	545.1	551.2	539.2	523.2
22°	474.8	479.5	485.3	471.5	454.8
23°	412.5	423.4	425.6	406.7	392.5
24°	355.4	367.7	371.4	352.1	337.2
25°	304.4	318.2	326.6	304.0	289.1
26°	260.3	273.8	284.0	261.4	247.2
27°	221.7	235.9	246.5	225.4	211.9
28°	188.6	202.4	213.4	193.7	181.0
29°	163.8	171.9	182.8	166.4	154.7
30°	139.4	148.2	159.8	143.1	132.9
32.5°	95.8	100.5	109.6	99.4	91.4
35°	68.1	71.0	75.4	68.5	63.7
37.5°	48.4	49.9	52.4	48.4	45.9
40°	35.7	36.4	37.5	35.3	33.9
42.5°	26.6	26.9	26.9	26.2	25.5
45°	20.0	20.4	20.0	20.0	19.3
47.5°	14.6	15.7	15.3	15.3	14.2
50°	9.5	11.7	11.7	11.3	9.5
52.5°	5.8	8.0	9.1	8.0	6.2
55°	4.4	5.5	6.9	5.5	4.7
57.5°	4.4	4.4	5.1	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.3	3.6	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.5	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



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







62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.0	4.4	4.0



(END OF REPORT)