

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: P283476

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283476
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: LDA2B058035D010 EU2B05FL408035 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: 644.2 lumens
Efficiency: N/A
Efficacy: 92.0 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

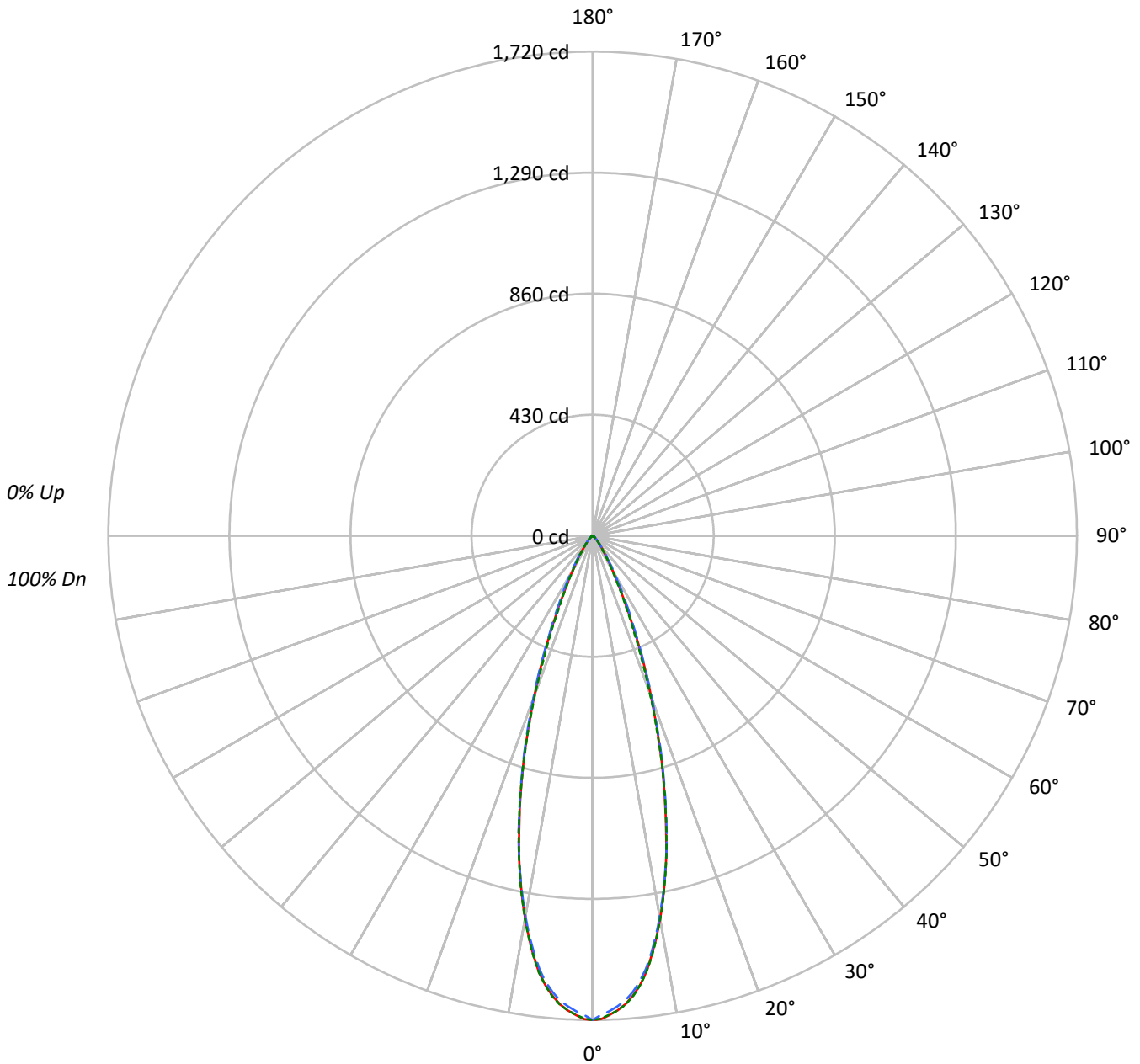
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	848730	848730	848730
5°	812204	806162	813492
10°	691994	687635	692695
15°	510051	513371	511685
20°	318375	324255	311392
25°	164453	176483	156233
30°	78844	90409	75141
35°	40714	45051	38064
40°	22799	23958	21640
45°	13885	13885	13396
50°	7215	8903	7215
55°	3699	5935	4043
60°	4243	4243	4243
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°	148.0	23.0
10°-20°	271.8	42.2
20°-30°	147.4	22.9
30°-40°	47.3	7.3
40°-50°	16.1	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°	567.1	88.0
0°-40°	614.4	95.4
0°-60°	636.2	98.8
0°-90°	644.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1640	1630	1628	1644	1643	148
15°	999	1007	1005	1010	1002	271
25°	302	316	324	302	287	145
35°	68	70	75	68	63	46
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.3	1720.3	1720.3	1720.3	1720.3
1°	1717.4	1705.1	1703.3	1719.2	1715.6
2°	1703.6	1692.1	1690.3	1706.2	1702.9
3°	1688.5	1678.0	1674.4	1691.0	1688.8
4°	1668.2	1658.5	1655.2	1671.8	1670.0
5°	1640.0	1629.9	1627.8	1644.0	1642.6
6°	1605.3	1597.0	1593.1	1609.3	1606.4
7°	1562.0	1554.4	1550.1	1562.0	1563.4
8°	1505.6	1502.0	1496.9	1508.9	1508.9
9°	1445.6	1442.4	1436.9	1447.8	1447.8
10°	1381.3	1379.1	1372.6	1382.7	1382.7
11°	1310.8	1309.7	1305.0	1313.3	1313.3
12°	1236.7	1239.2	1234.9	1242.1	1239.6
13°	1162.6	1161.5	1161.9	1167.3	1163.4
14°	1078.8	1085.3	1086.4	1089.6	1083.5
15°	998.6	1006.9	1005.1	1009.8	1001.8
16°	916.5	925.9	925.6	926.6	919.0
17°	839.9	845.3	845.7	844.6	835.2
18°	758.2	765.8	765.8	764.0	752.8
19°	678.4	684.1	688.1	684.1	671.1
20°	606.4	610.4	617.6	607.5	593.1
21°	537.4	541.0	547.2	535.2	519.3
22°	471.3	476.0	481.7	468.0	451.4
23°	409.5	420.3	422.5	403.7	389.6
24°	352.7	365.0	368.6	349.5	334.7
25°	302.1	315.9	324.2	301.8	287.0
26°	258.4	271.8	281.9	259.5	245.4
27°	220.1	234.2	244.7	223.7	210.3
28°	187.2	200.9	211.8	192.3	179.6
29°	162.6	170.6	181.4	165.2	153.6
30°	138.4	147.1	158.7	142.0	131.9
32.5°	95.0	99.7	108.8	98.7	90.7
35°	67.6	70.5	74.8	67.9	63.2
37.5°	48.1	49.5	52.0	48.1	45.5
40°	35.4	36.1	37.2	35.1	33.6
42.5°	26.4	26.7	26.7	26.0	25.3
45°	19.9	20.2	19.9	19.9	19.2
47.5°	14.5	15.5	15.2	15.2	14.1
50°	9.4	11.6	11.6	11.2	9.4
52.5°	5.8	8.0	9.0	8.0	6.1
55°	4.3	5.4	6.9	5.4	4.7
57.5°	4.3	4.3	5.1	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3



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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	1.4	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



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







62.5°	4.3	4.3	4.3	4.3	4.3
65°	4.0	4.3	4.0	4.3	4.0



(END OF REPORT)