

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: P283823

Luminaire Tested: **LDA2B058050D010 EU2B05WFL558050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283823
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: LDA2B058050D010 EU2B05WFL558050 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: 718.8 lumens
Efficiency: N/A
Efficacy: 102.7 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

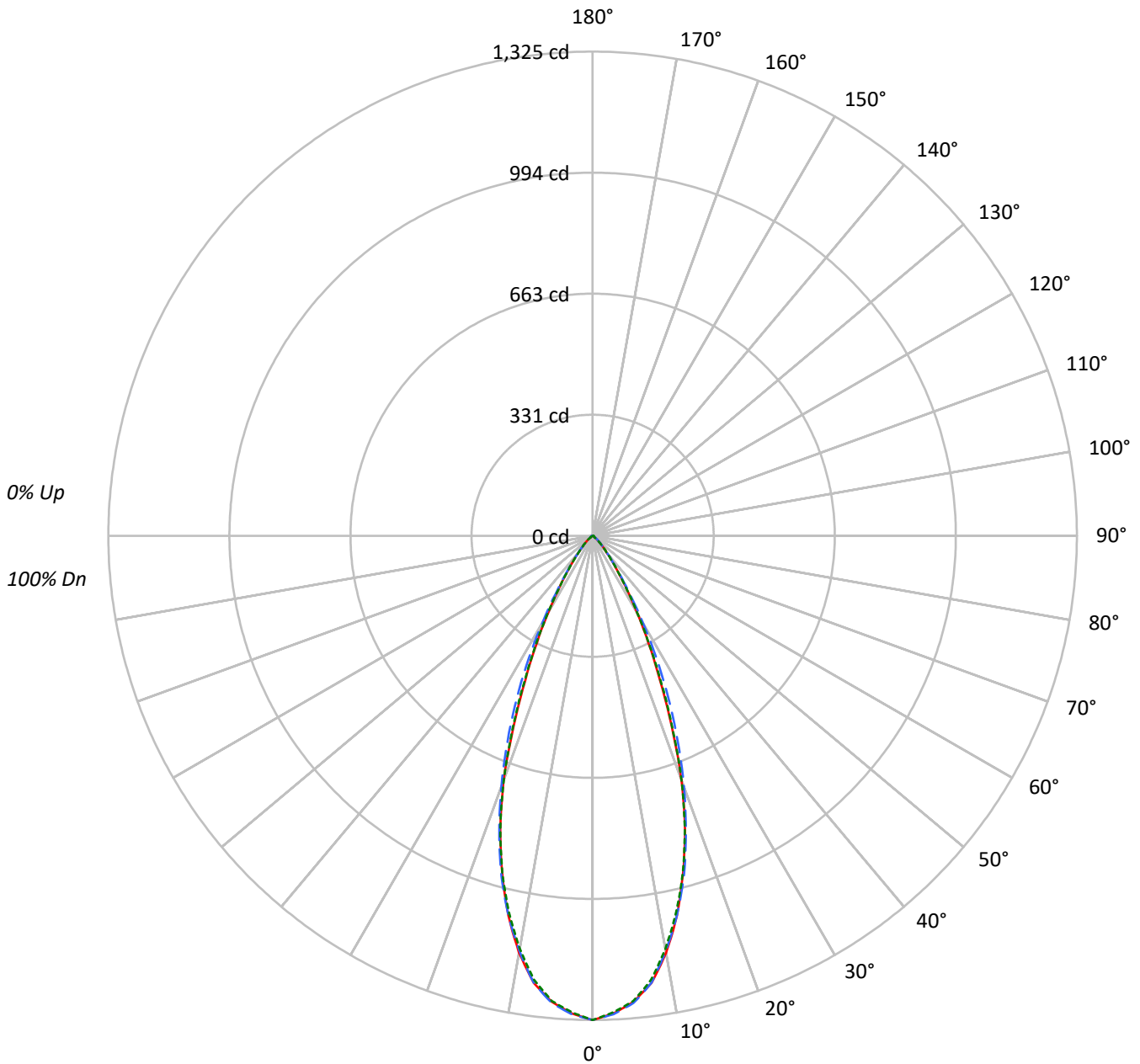
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	653803	653803	653803
5°	634163	635698	632826
10°	580477	578122	574666
15°	488241	492787	487475
20°	373398	383268	372768
25°	237125	267337	241698
30°	137921	155695	140313
35°	72876	77514	73117
40°	38449	40188	38449
45°	21490	22327	21769
50°	10055	12741	10055
55°	3613	6967	3957
60°	4144	4144	4144
65°	4553	4903	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	16.5
10°-20°	263.4	36.6
20°-30°	212.7	29.6
30°-40°	84.1	11.7
40°-50°	25.8	3.6
50°-60°	6.6	0.9
60°-70°	4.0	0.6
70°-80°	3.0	0.4
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°	594.4	82.7
0°-40°	678.4	94.4
0°-60°	710.9	98.9
0°-90°	718.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	718.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1280	1283	1284	1281	1278	119
15°	956	959	965	961	954	263
25°	436	456	491	465	444	203
35°	121	124	129	125	121	81
45°	31	31	32	32	31	25
55°	4	6	8	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°	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1308.6	1309.4	1310.5	1309.0	1305.1
5°	1280.5	1282.8	1283.6	1280.9	1277.8
7.5°	1234.2	1231.5	1233.8	1229.2	1225.4
10°	1158.7	1155.2	1154.0	1147.1	1147.1
12.5°	1065.4	1064.2	1065.0	1061.5	1056.1
15°	955.9	958.6	964.8	960.9	954.4
17.5°	839.9	843.8	849.2	848.0	839.1
20°	711.2	722.3	730.0	722.7	710.0
22.5°	564.7	588.6	608.2	592.8	572.0
25°	435.6	456.4	491.1	464.9	444.0
27.5°	330.3	345.4	377.0	351.1	336.9
30°	242.1	251.3	273.3	256.3	246.3
32.5°	173.1	179.6	188.9	178.9	173.8
35°	121.0	124.5	128.7	124.9	121.4
37.5°	85.2	86.3	89.4	86.3	84.8
40°	59.7	60.1	62.4	60.5	59.7
42.5°	43.2	43.2	44.3	43.6	43.2
45°	30.8	31.2	32.0	31.6	31.2
47.5°	22.0	22.7	22.7	23.1	21.6
50°	13.1	16.2	16.6	16.2	13.1
52.5°	6.9	9.6	11.9	9.6	6.9
55°	4.2	5.8	8.1	5.8	4.6
57.5°	4.2	4.2	5.4	4.6	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.9	4.2	4.2	4.2	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
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°







(END OF REPORT)