

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: P283825

Luminaire Tested: **LDA2B058050D010 EU2B05WFL558050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283825
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 703.6 lumens
Efficiency: N/A
Efficacy: 100.5 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

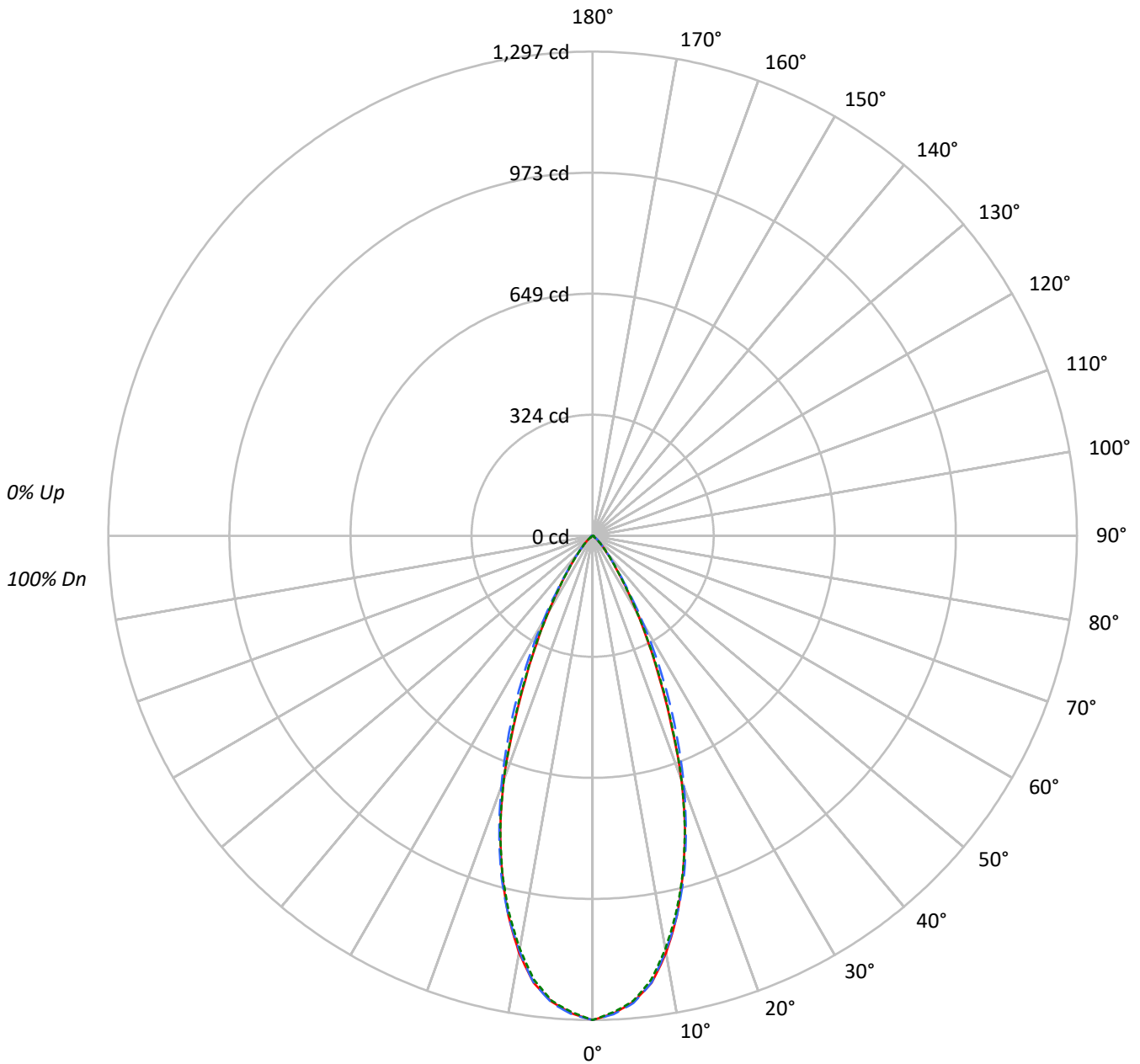
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	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°	639940	639940	639940
5°	620742	622228	619405
10°	568153	565899	562492
15°	477923	482367	477157
20°	365470	375183	364892
25°	232063	261676	236581
30°	134958	152391	137351
35°	71371	75888	71551
40°	37676	39351	37676
45°	21071	21839	21350
50°	9824	12434	9824
55°	3613	6795	3871
60°	4144	4144	4144
65°	4436	4903	4436
70°	5481	4904	5481
75°	4956	4956	4956
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	16.5
10°-20°	257.8	36.6
20°-30°	208.2	29.6
30°-40°	82.3	11.7
40°-50°	25.3	3.6
50°-60°	6.5	0.9
60°-70°	4.0	0.6
70°-80°	2.9	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°	581.8	82.7
0°-40°	664.1	94.4
0°-60°	695.9	98.9
0°-90°	703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1253	1256	1256	1254	1251	116
15°	936	938	944	941	934	257
25°	426	447	481	455	435	198
35°	118	122	126	122	119	79
45°	30	31	31	31	31	25
55°	4	6	8	6	4	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°	1297.1	1297.1	1297.1	1297.1	1297.1
2.5°	1280.9	1281.7	1282.8	1281.3	1277.5
5°	1253.4	1255.6	1256.4	1253.7	1250.7
7.5°	1208.1	1205.5	1207.7	1203.2	1199.4
10°	1134.1	1130.8	1129.6	1122.8	1122.8
12.5°	1042.8	1041.7	1042.5	1039.1	1033.8
15°	935.7	938.3	944.4	940.6	934.2
17.5°	822.1	825.9	831.2	830.0	821.4
20°	696.1	707.1	714.6	707.4	695.0
22.5°	552.7	576.1	595.4	580.3	559.9
25°	426.3	446.7	480.7	455.0	434.6
27.5°	323.3	338.1	369.0	343.7	329.8
30°	236.9	246.0	267.5	250.9	241.1
32.5°	169.4	175.8	184.9	175.1	170.2
35°	118.5	121.9	126.0	122.2	118.8
37.5°	83.4	84.5	87.5	84.5	83.0
40°	58.5	58.9	61.1	59.2	58.5
42.5°	42.3	42.3	43.4	42.6	42.3
45°	30.2	30.6	31.3	30.9	30.6
47.5°	21.5	22.3	22.3	22.6	21.1
50°	12.8	15.8	16.2	15.8	12.8
52.5°	6.8	9.4	11.7	9.4	6.8
55°	4.2	5.7	7.9	5.7	4.5
57.5°	4.2	4.2	5.3	4.5	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°	3.8	4.2	4.2	4.2	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.0	3.4	3.4
75°	2.6	2.6	2.6	2.6	2.6
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°	1.1	1.1	1.1	1.1	1.1
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)